

Attachment G

SHEET NUMBER	TOTAL SHEETS
1	21

COUNTY OF MONTEREY

PROJECT PLANS FOR THE CONSTRUCTION OF THE EMERGENCY STORM DAMAGE REPAIRS ON ARROYO SECO ROAD MP 2.5 FEDERAL PROJECT No. XXX

GENERAL NOTES:

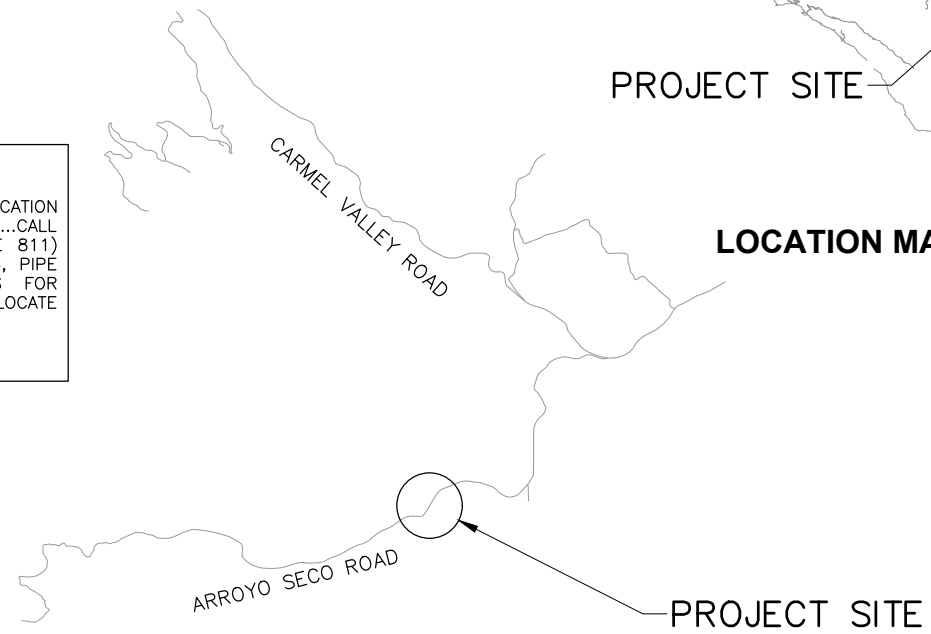
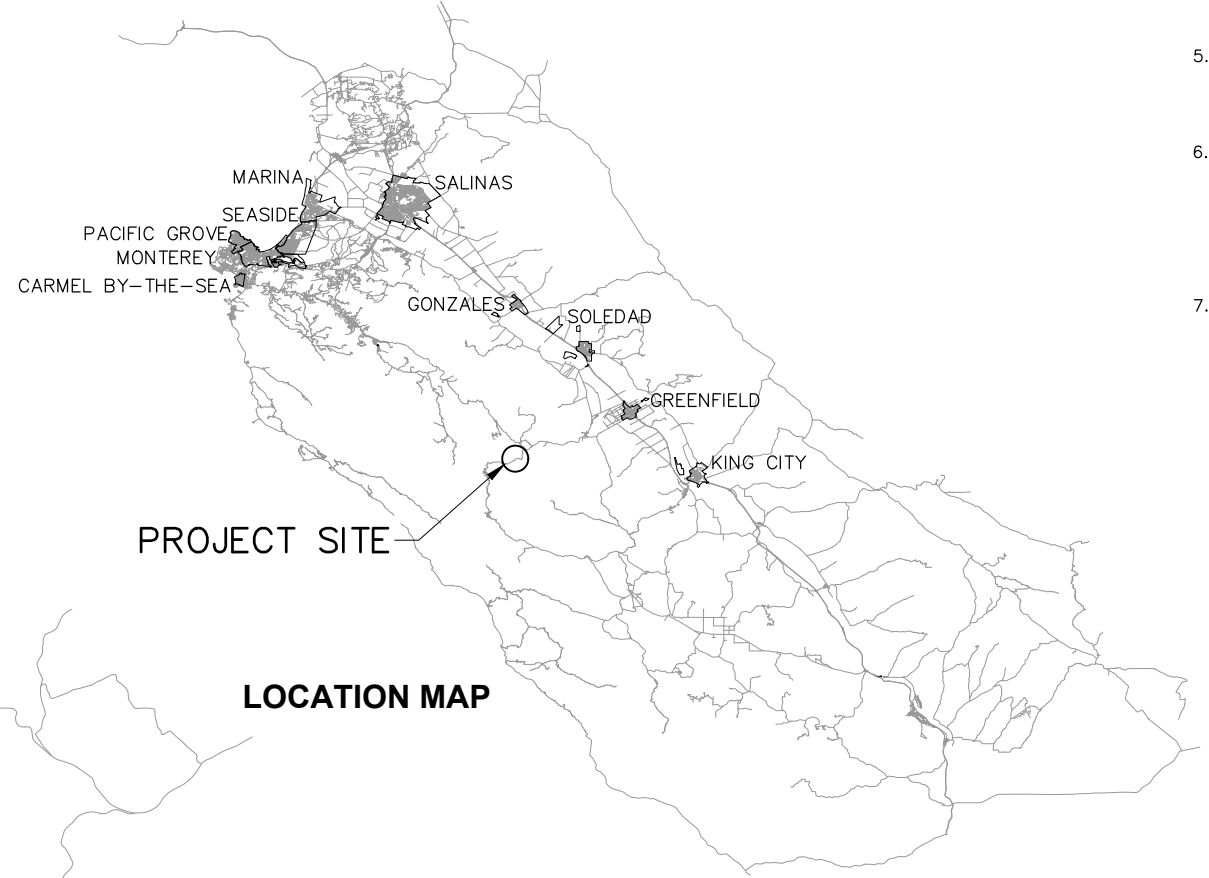
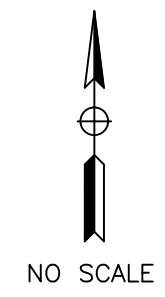
1. THE CONTRACTOR SHALL POSSESS THE CLASS (OR CLASSES) OF LICENSE AS SPECIFIED IN THE "NOTICE TO BIDDERS".
2. TO BE SUPPLEMENTED BY PROJECT SPECIFIC SPECIAL PROVISIONS, CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS DATED 2022, INCLUDING ISSUED ADDENDA.
3. CONTRACTOR SHALL NOTIFY THE COUNTY OF MONTEREY OF ANY AND ALL CONFLICTS BETWEEN THIS SET OF CONSTRUCTION DRAWINGS AND THE ACTUAL SITE CONDITIONS PRIOR TO COMMENCING WORK. CONTACT ENGINEER AT (831) 755-8970.
4. CONTRACTOR SHALL NOTIFY THE COUNTY OF MONTEREY (ENGINEER) AT LEAST 8 DAYS PRIOR TO COMMENCING WORK SO THAT THE COUNTY MAY PRESERVE MONUMENTS AND BENCHMARKS, WHICH SHALL NOT BE DISTURBED WITHOUT THE COUNTY'S CONSENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING DESTROYED BENCHMARKS.
5. CONTRACTOR SHALL EXPOSE ALL EXISTING UNDERGROUND PIPELINES OR OTHER UNDERGROUND OBSTRUCTIONS TO VERIFY THAT THERE ARE NO GRADE CONFLICTS PRIOR TO LAYING ANY GRAVITY PIPELINES OR INSTALLING ANCHORS.
6. WHERE UNDERGROUND AND SURFACE STRUCTURES ARE SHOWN ON THIS SET OF DRAWINGS, THE LOCATIONS, DEPTH, AND DIMENSIONS OF STRUCTURES ARE BELIEVED TO BE REASONABLY CORRECT, BUT ARE NOT GUARANTEED. THE INFORMATION SO GIVEN IS NOT TO BE CONSTRUED AS A REPRESENTATION THAT SUCH STRUCTURES WILL, IN ALL CASES, BE FOUND WHERE SHOWN, OR THAT THEY ARE REPRESENT ALL THE STRUCTURES WHICH MAY BE ENCOUNTERED.
7. CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

ROADWAY INDEX:

SHEET No.	TITLE	
T-1	1	TITLE SHEET
X-1	2	TYPICAL CROSS SECTIONS
K-1	3	LINE INDEX
L-1	4	LAYOUT
P-1	5	PROFILE
C-1	6-7	CONSTRUCTION DETAILS
EC-1	8	EROSION CONTROL PLAN
G-1	9	CONTOUR GRADING
G-2	10	CONCEPTUAL EXCAVATION PLAN
D-1	11-12	DRAINAGE PLAN
CS-1	13	CONSTRUCTION AREA SIGNS
SC-1	14-16	STAGE CONSTRUCTION
Q-1	17	SUMMARY OF QUANTITIES

WALL INDEX:

SHEET No.	TITLE	
S-1	18	General Plan
S-2	19	MSE Wall Details No. 1
S-3	20	MSE Wall Details No. 2
S-4	21	Headwall Details No. 1



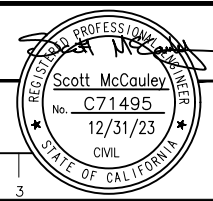
811
Know what's below.
Call before you dig.

CONTRACTOR SHALL VERIFY ACTUAL DEPTH AND LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION...CALL "UNDERGROUND SERVICE ALERT" (U.S.A), (TOLL FREE 811) PRIOR TO TRENCHING, GRADING, EXCAVATION, DRILLING, PIPE PUSHING, PLANTING TREES, DIGGING POST HOLES FOR FENCE, ETC.(U.S.A) WILL SUPPLY INFORMATION OR LOCATE AND MARK ANY UNDERGROUND FACILITIES.

T-1

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: _____ Chief of Public Works and Facilities	

11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181



NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	



COUNTY OF MONTEREY
PUBLIC WORKS,
FACILITIES AND PARKS
PUBLIC WORKS
1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT TITLE SHEET			
DATE 8/24/23	FILE 21-9302_RAB_001.DWG	PROJECT NO. 723205	SHEET 1
SCALE/HORIZ: NTS VERT: NTS		CONTRACT NO. CONTRACT	
			OF 21 SHEETS

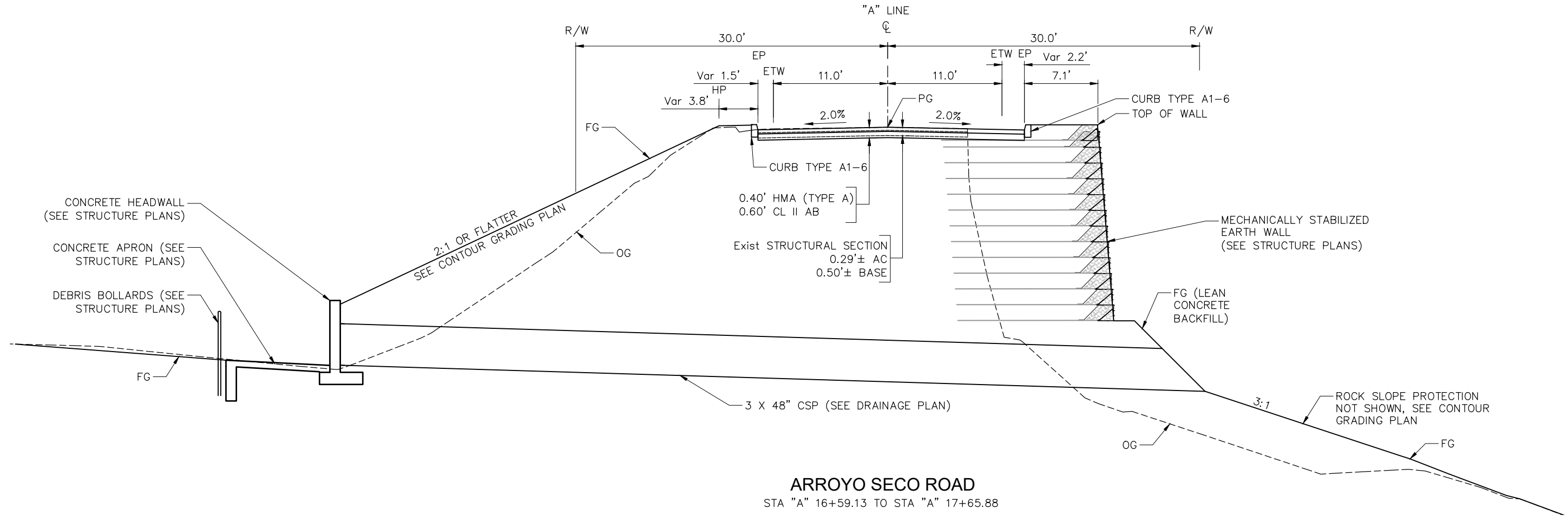
Drawing name: S:\Client\Monterey\21-9302\21-9302-01-arroyo-seco-road (mp 2.5)\600-design\605 - cold files\21-9302_rab_001.dwg Layout Tab: T-1 Aug 24 2023 - 2:51pm Mason.Dambacher

NOTES:

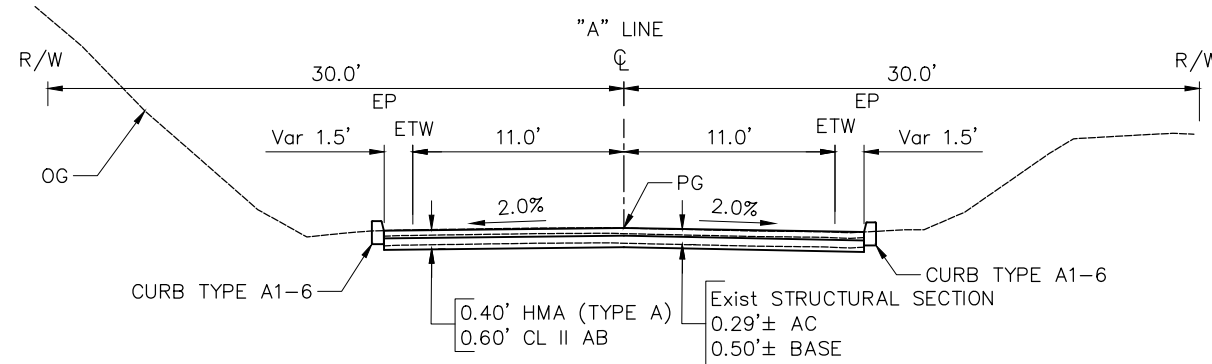
1. DIMENSIONS OF THE PAVEMENT STRUCTURES (STRUCTURAL SECTIONS) ARE SUBJECT TO TOLERANCES SPECIFIED IN THE STANDARD SPECIFICATIONS.
2. RIGHT OF WAY IS APPROXIMATE. FOR ACCURATE RIGHT OF WAY ACCESS DATA, CONTACT RIGHT OF WAY ENGINEERS AT THE DISTRICT OFFICE.
3. SHOULDERS VARY TO CONFORM TO EXISTING ROAD.

DESIGN DESIGNATION:

MINOR COLLECTOR
 2020 ADT = 540
 2039 ADT = 540
 V = 35 mph
 TI = 6.0
 R = 30



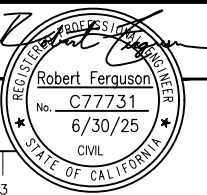
ARROYO SECO ROAD
 STA "A" 16+59.13 TO STA "A" 17+65.88



ARROYO SECO ROAD
 Sta "A" 16+15.00 TO Sta "A" 16+59.13
 Sta "A" 17+65.88 TO Sta "A" 18+25.00

Drawing name: S:\Client\Monterey\219302\219302a01.arroyo.seco.road (mp.25)\500-design\505 - cadd files\21-9302_rca_001.dwg Layout Tab: TYPICAL CROSS SECTIONS Aug 24, 2023 - 9:56am Mason Dambacher

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: _____ Chief of Public Works and Facilities	



NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

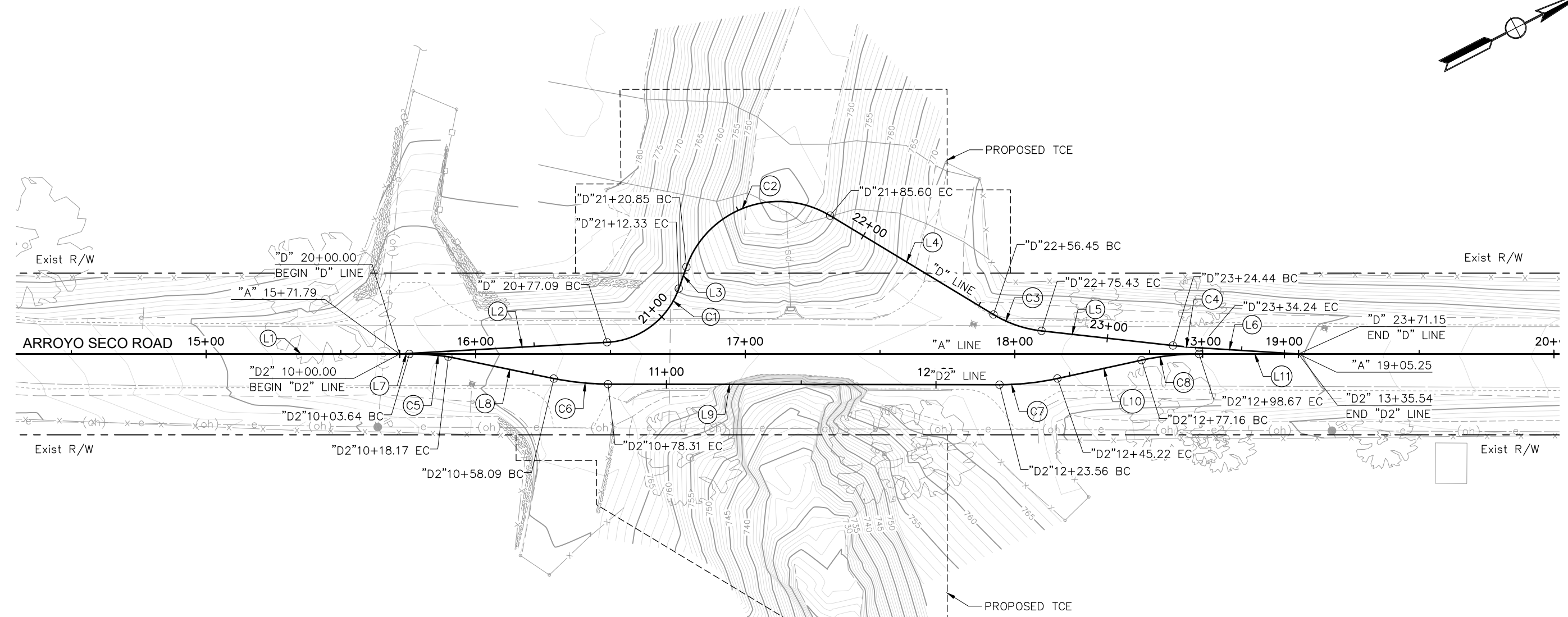
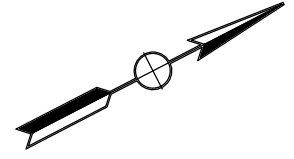


COUNTY OF MONTEREY
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 SALINAS, CALIFORNIA 93901
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ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT TYPICAL CROSS SECTIONS			
DATE: 8/24/23	FILE: 21-9302_RCA_001.DWG	PROJECT NO.: 723205	SHEET: 2
SCALE/HORIZ: NTS		CONTRACT NO. _____	
VERT: NTS		CONTRACT _____	
			OF 2 SHEETS

X-1

NOTES:
 1. THIS SHEET TO SUPPLEMENT STAGE CONSTRUCTION SHEETS FOR DETOUR ROUTES.



LINE DATA			
NO.	ALIGNMENT	BEARING	DISTANCE
L1	"A"	N 27°28'00" E	800.34'
L2	"D"	N 24°15'59" E	77.09'
L3	"D"	N 43°02'18" W	8.51'
L4	"D"	N 58°39'11" E	70.85'
L5	"D"	N 33°49'19" E	49.01'
L7	"D2"	N 27°28'00" E	3.64'
L8	"D2"	N 39°08'27" E	39.92'
L9	"D2"	N 27°33'22" E	145.25'
L10	"D2"	N 15°08'31" E	31.94'
L11	"D2"	N 27°28'00" E	36.87'

CURVE DATA					
NO.	ALIGNMENT	R	Δ	T	L
C1	"D"	30.00'	67° 18' 17"	19.97'	35.24'
C2	"D"	36.48'	101° 41' 29"	44.81'	64.75'
C3	"D"	43.81'	24° 49' 52"	9.65'	18.99'
C5	"D2"	100.00'	8° 19' 37"	7.28'	14.53'
C6	"D2"	100.00'	11° 35' 05"	10.14'	20.22'
C7	"D2"	100.00'	12° 24' 51"	10.88'	21.67'
C8	"D2"	100.00'	12° 19' 29"	10.80'	21.51'

PLAN
1"=20'

Drawing name: S:\Client\Monterey\21-9302\21-9302-RDA_001.dwg Layout Tab: K-1 Aug 24 2023 9:55am Mason,Dambacher

Submitted by: Robert Ferguson
 Project Engineer C.E. No. C77731
 DESIGN BY: M. Dambacher CHKD BY: I.K./C.D.
 DRAWN BY: M. Dambacher CHKD BY: I.K./C.D.
 SPECIFICATIONS WRITTEN BY: J. Wilson CHKD BY: D. Morgan
 Approval Recommended by: Chief of Public Works and Facilities

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

COUNTY OF MONTEREY
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 (831)755-4800/FAX (831)755-4958

**ARROYO SECO ROAD MP 2.5
 STORM DAMAGE REPAIR PROJECT
 LINE INDEX**

DATE 8/24/23	FILE 21-9302_RDA_001.DWG	PROJECT NO. 723205	SHEET 3
SCALE HORIZ: 1"=40'	CONTRACT NO.	CONTRACT	OF 21 SHEETS

K-1

NOTES:

- Exist PRESCRIPTIVE RIGHT OF WAY LINES ARE APPROXIMATE. FOR ACCURATE RIGHT OF WAY DATA, CONTACT RIGHT OF WAY ENGINEERING AT THE COUNTY OFFICE.

LEGEND:

- NEW STRUCTURAL SECTION
SEE TYPICAL CROSS SECTIONS
- SURVEY CONTROL POINT
- EXISTING OVERHEAD ELECTRIC
- TREE REMOVAL
- PAVEMENT DELINEATION DETAIL NUMBER
- BEGIN, END, OR CHANGE IN STRIPING DETAIL

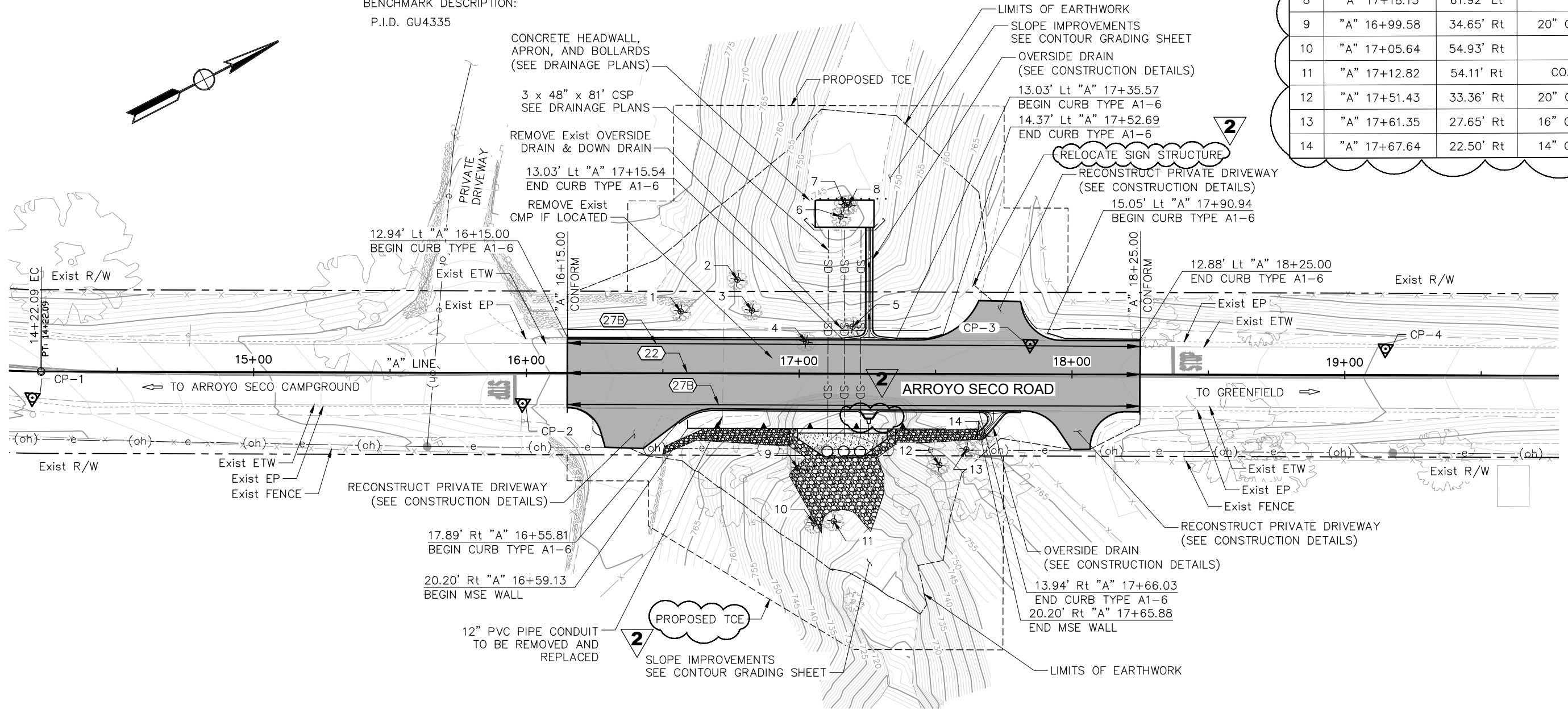
CONTROL POINTS								
No.	NORTHING	EASTING	ELEVATION	LINE	STATION	OFFSET	Rt/Lt	DESCRIPTION
CP-1	1979098.98	5840518.72	771.62	"A"	14+19.03	9.63'	Rt	MAG NAIL
CP-2	1979257.69	5840603.02	761.92	"A"	15+98.60	11.21'	Rt	MAG NAIL
CP-3	1979433.00	5840669.13	758.88	"A"	17+84.64	11.00'	Lt	MAG NAIL
CP-4	1979547.93	5840730.43	761.76	"A"	19+14.89	9.62'	Lt	MAG NAIL

DATUM :
HORIZONTAL - CALIFORNIA COORDINATE SYSTEM ZONE 4
NAD 83 (EPOCH 2010.00).
VERTICAL - NAVD 88 BASED ON NGS PUBLISHED
BENCHMARK VALUES AND GEOID99 MODEL HEIGHTS.

BASIS OF BEARINGS:
THE BEARINGS SHOWN HEREON ARE BASED ON CALIFORNIA
COORDINATE SYSTEM ZONE 4 AS DETERMINED BY TIES
USING FOUND NGS P.I.D. BENCHMARKS GU4335 AND
GU4262 TAKEN AS S36°36'17"E.

BENCHMARK DESCRIPTION:
P.I.D. GU4335

PROJECTED TREES TO BE REMOVED			
No.	STATION	OFFSET	TYPE
1	"A" 16+56.47	22.63' Lt	18" COAST LIVE OAK
2	"A" 16+77.31	34.32' Lt	BUCKEYE
3	"A" 16+82.63	23.01' Lt	COAST LIVE OAK
4	"A" 17+02.50	11.64' Lt	18" COAST LIVE OAK
5	"A" 17+19.55	17.23' Lt	16" COAST LIVE OAK
6	"A" 17+15.07	57.54' Lt	BUCKEYE
7	"A" 17+16.49	61.78' Lt	COAST LIVE OAK
8	"A" 17+18.15	61.92' Lt	BUCKEYE
9	"A" 16+99.58	34.65' Rt	20" COAST LIVE OAK
10	"A" 17+05.64	54.93' Rt	BUCKEYE
11	"A" 17+12.82	54.11' Rt	COAST LIVE OAK
12	"A" 17+51.43	33.36' Rt	20" COAST LIVE OAK
13	"A" 17+61.35	27.65' Rt	16" COAST LIVE OAK
14	"A" 17+67.64	22.50' Rt	14" COAST LIVE OAK



Drawing name: S:\Client\Monterey\21-9302\rea_001.dwg Layout Tab: LAYOUT Aug 24 2023 10:08am Mason,Dambacher

Submitted by: Robert Ferguson
Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher
CHKD BY: I.K./C.D.

DRAWN BY: M. Dambacher
CHKD BY: I.K./C.D.

SPECIFICATIONS WRITTEN BY: J. Wilson
CHKD BY: D. Morgan

Approval Recommended by: Chief of Public Works and Facilities

11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181

ORIGINAL SCALE IN INCHES
FOR REDUCED PLANS

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

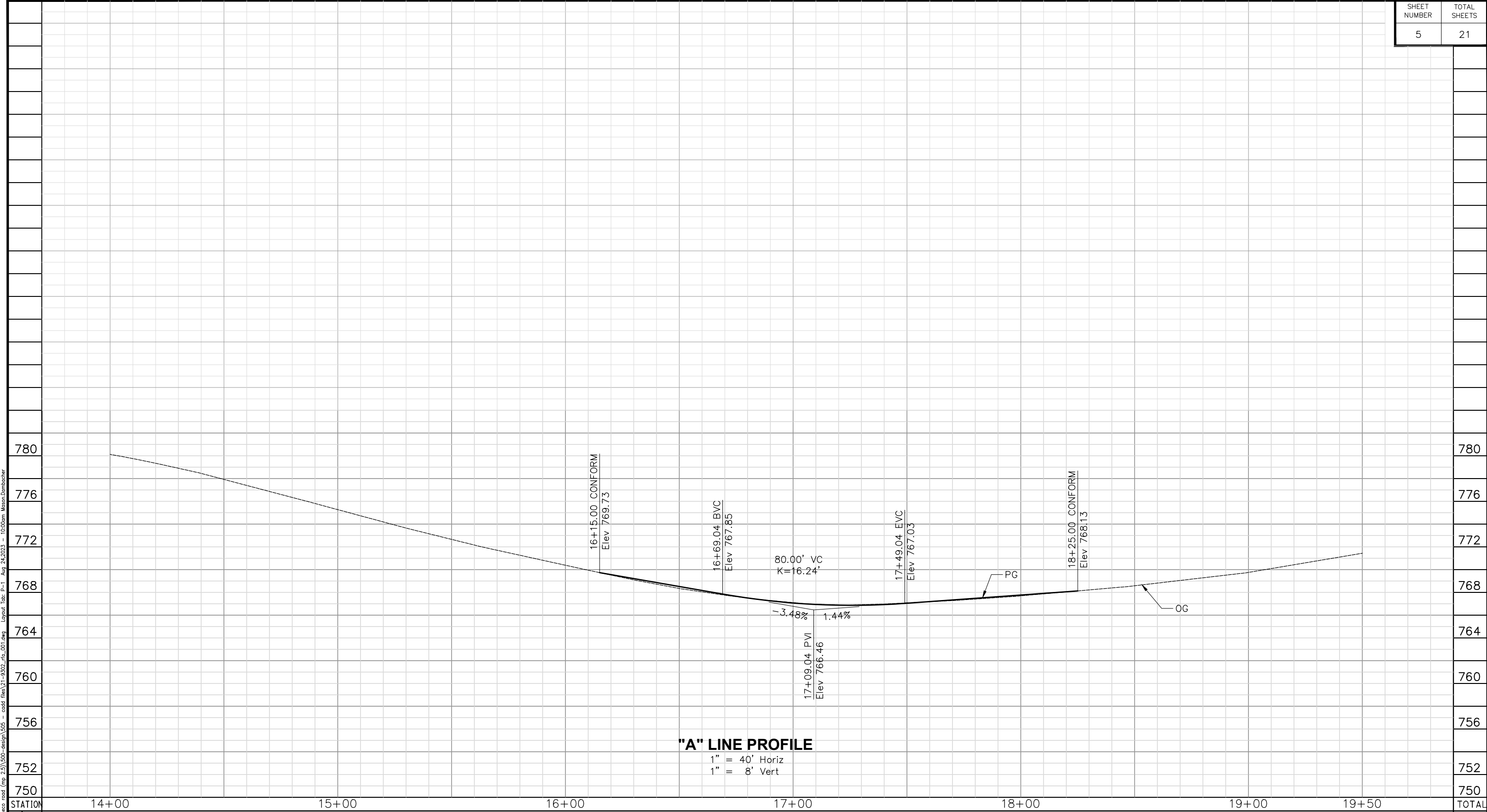
COUNTY OF MONTEREY
PUBLIC WORKS,
FACILITIES AND PARKS
PUBLIC WORKS
1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

**ARROYO SECO ROAD MP 2.5
STORM DAMAGE REPAIR PROJECT
LAYOUT**

DATE 8/24/23	FILE 21-9302_REA_001.DWG	PROJECT NO. 723205	SHEET 4
SCALE HORIZ: 1"=20'		CONTRACT NO. CONTRACT	
VERT: 1"=20'		OF 21 SHEETS	

L-1

SHEET NUMBER	TOTAL SHEETS
5	21



"A" LINE PROFILE
 1" = 40' Horiz
 1" = 8' Vert

STATION	14+00	15+00	16+00	17+00	18+00	19+00	19+50	TOTAL
Exc								
Emb								
								P-1

Submitted by: Robert Ferguson
 Project Engineer C.E. No. C77731

DESIGN BY: M. Damabcher CHKD BY: I.K./C.D.

DRAWN BY: M. Damabcher CHKD BY: I.K./C.D.

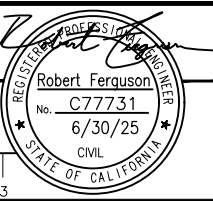
SPECIFICATIONS WRITTEN BY: J. Wilson CHKD BY: D. Morgan

Approval Recommended by: _____
 Chief of Public Works and Facilities

11017 COBBLEROCK DRIVE, SUITE 100
 RANCHO CORDOVA, CA 95670
 P: 916.368.9181

ORIGINAL SCALE IN INCHES
 FOR REDUCED PLANS

0 1 2 3



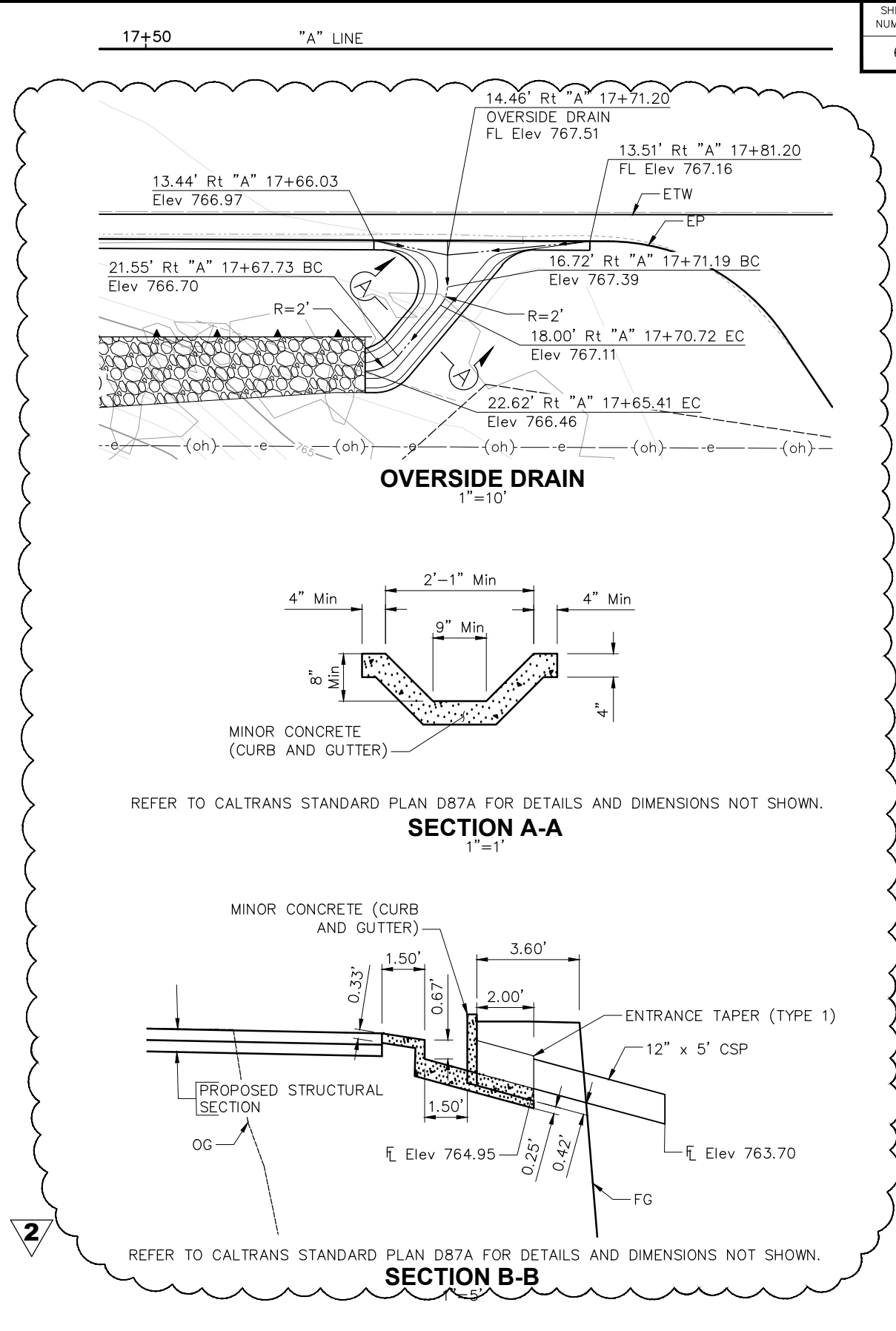
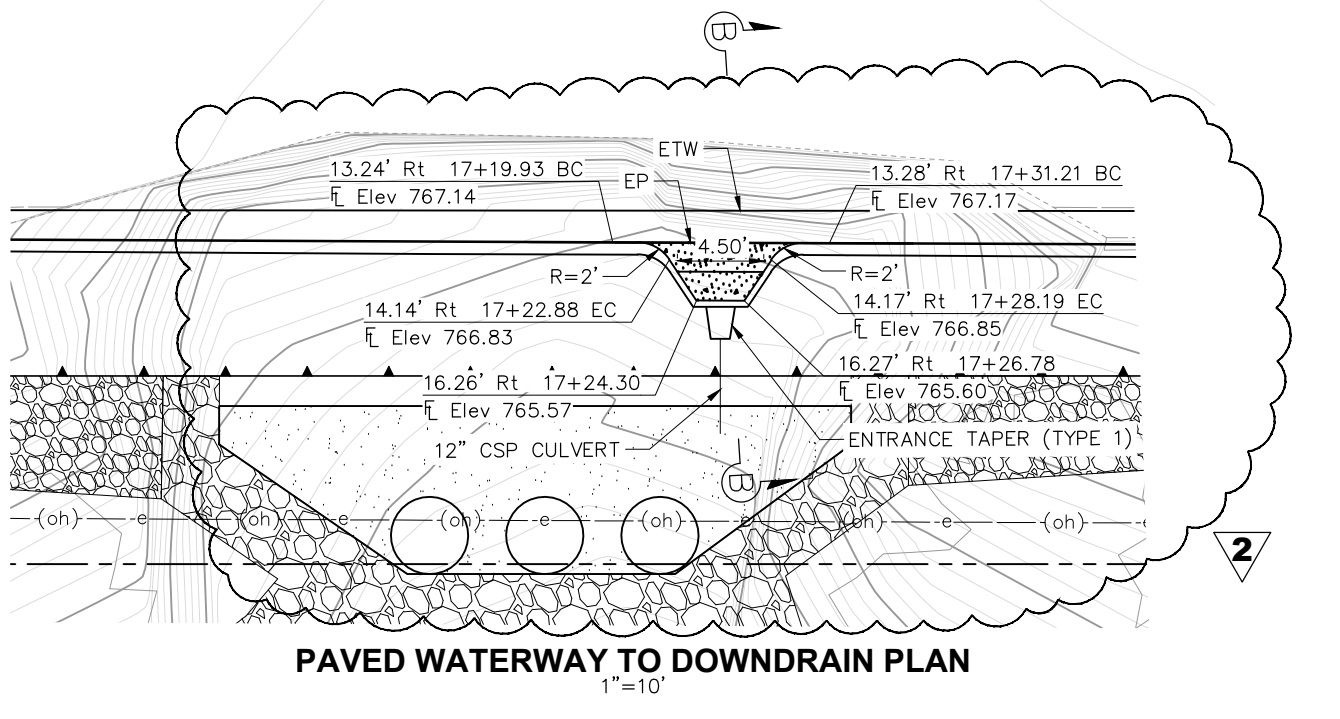
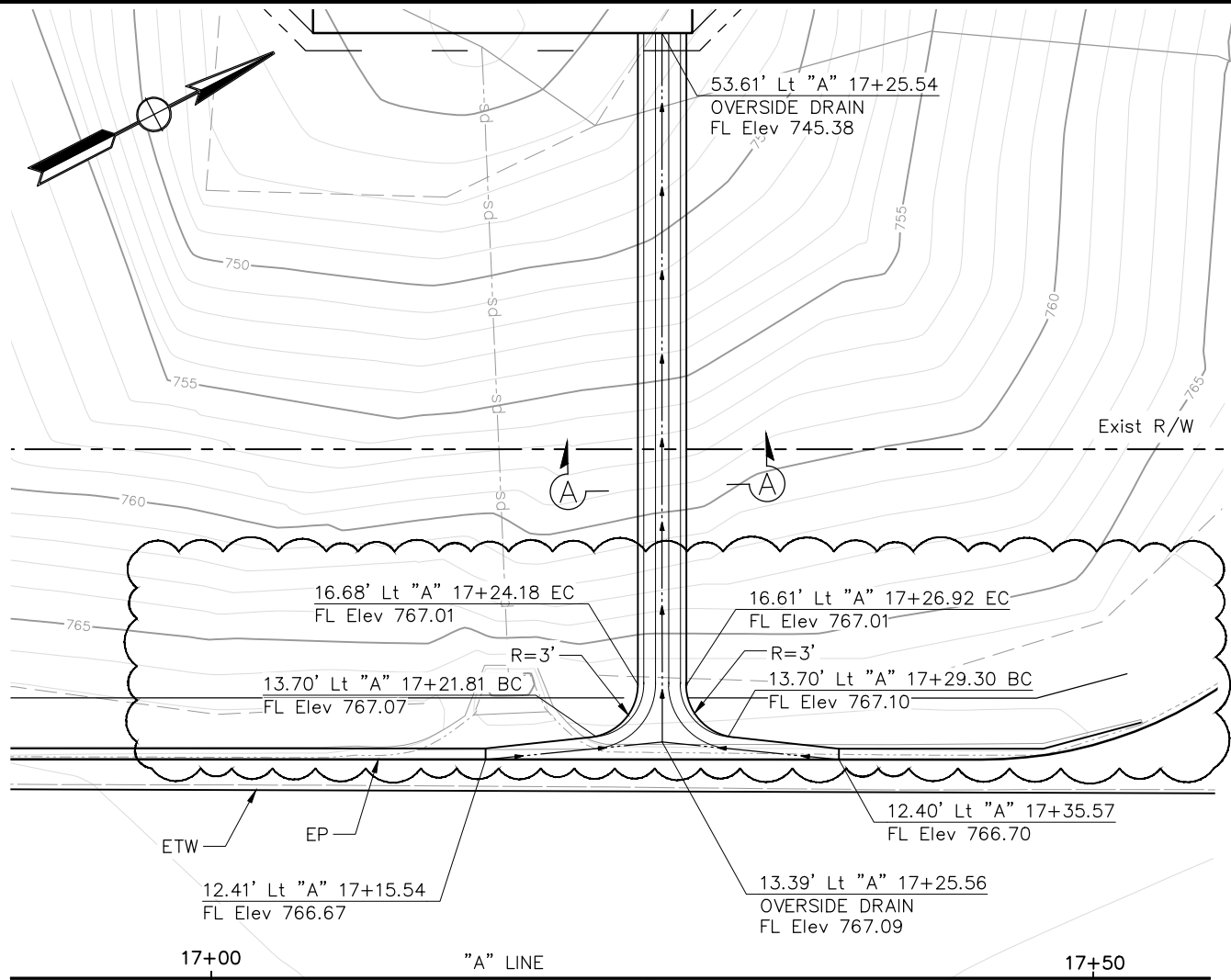
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COUNTY OF MONTEREY
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 SALINAS, CALIFORNIA 93901
 (831)755-4800/FAX (831)755-4958

**ARROYO SECO ROAD MP 2.5
 STORM DAMAGE REPAIR PROJECT
 PROFILE**

DATE 8/24/23	FILE 21-9302_RFA_001.DWG	PROJECT NO. 723205	SHEET 5
SCALE HORIZ: 1"=40'	CONTRACT NO.	CONTRACT	OF 2 SHEETS
SCALE VERT: 1"=8'			

Drawing name: S:\Client\Monterey\21-9302\21-9302-rfa_001.dwg Layout Tab: P-1 Aug 24, 2023 - 10:05am Masm.Damabcher



S:\Client\Monterey\219302ca.01 arroyo seco road (mp 2.5)\500-design\505 - cadd files\21-9302_rha_001.dwg - 1:58pm Mon 8/24/2023 - 1:58pm Mon 8/24/2023

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: Chief of Public Works and Facilities	

consor

11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181

Robert Ferguson
No. C77731
6/30/25
CIVIL
STATE OF CALIFORNIA

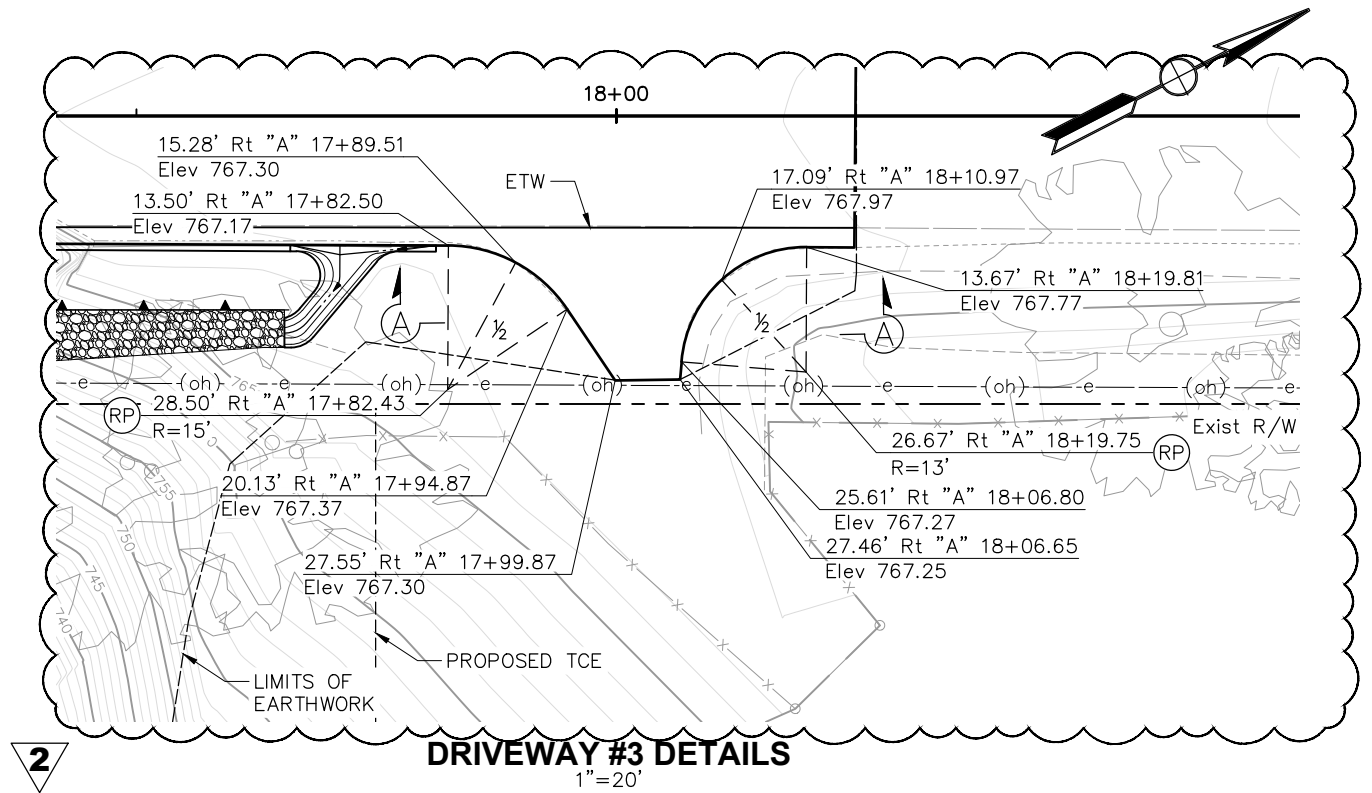
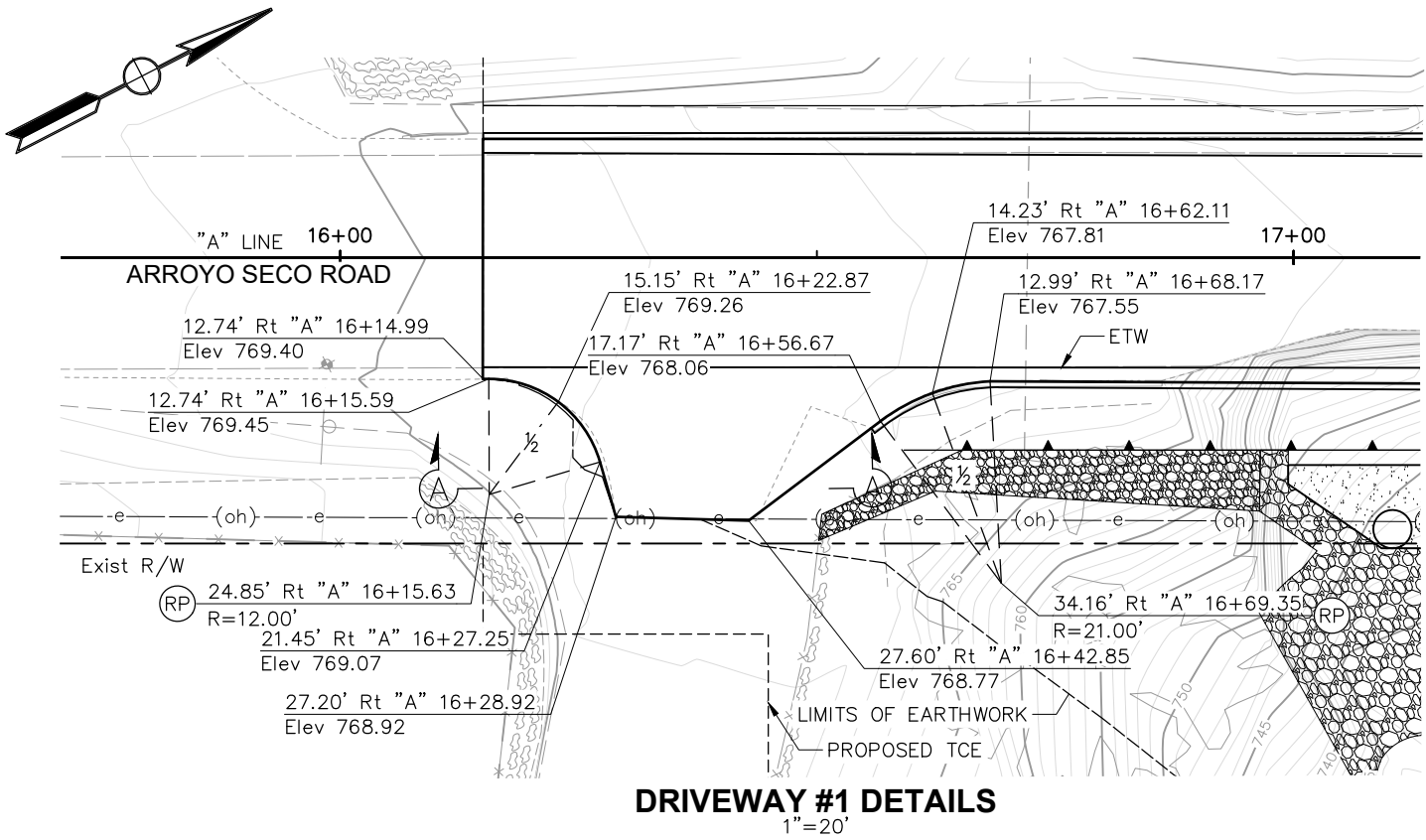
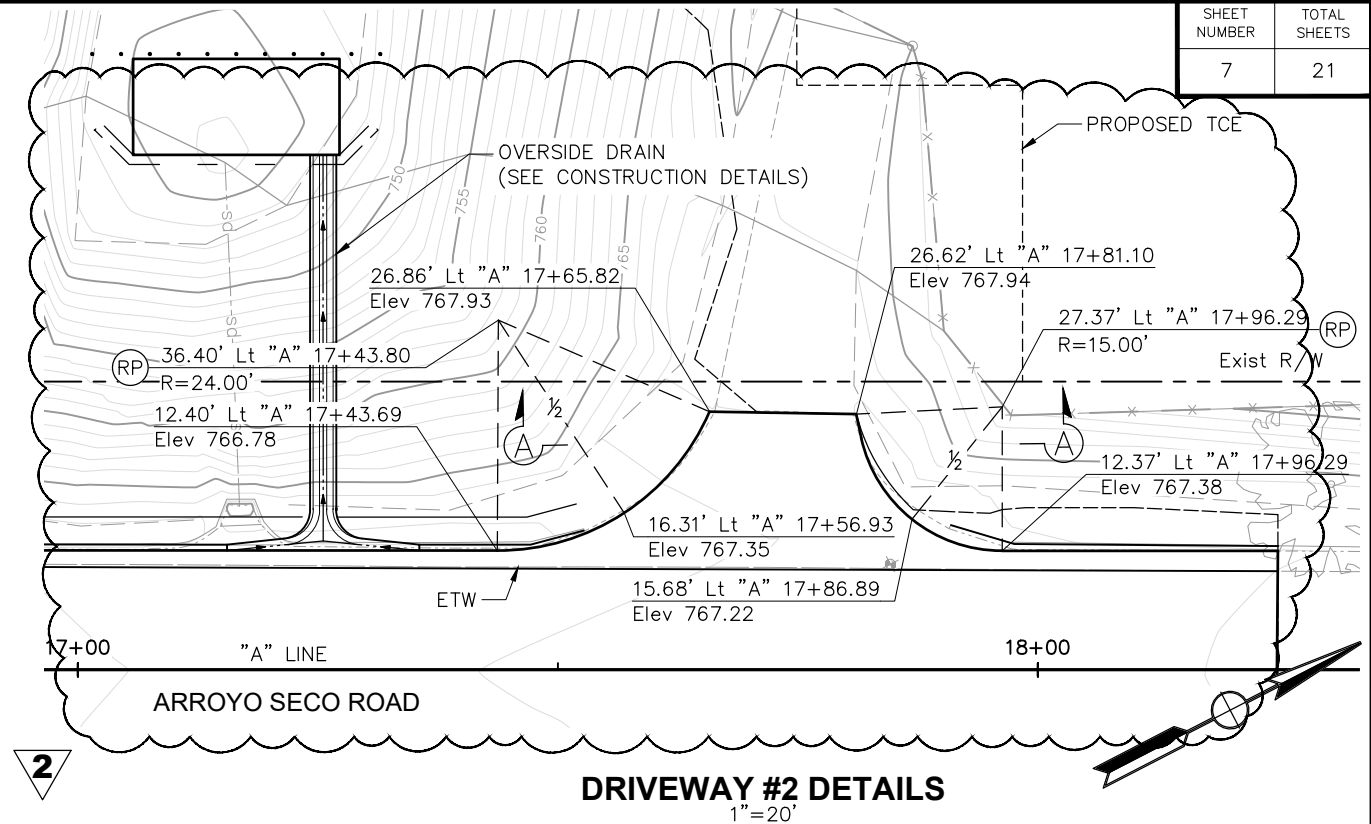
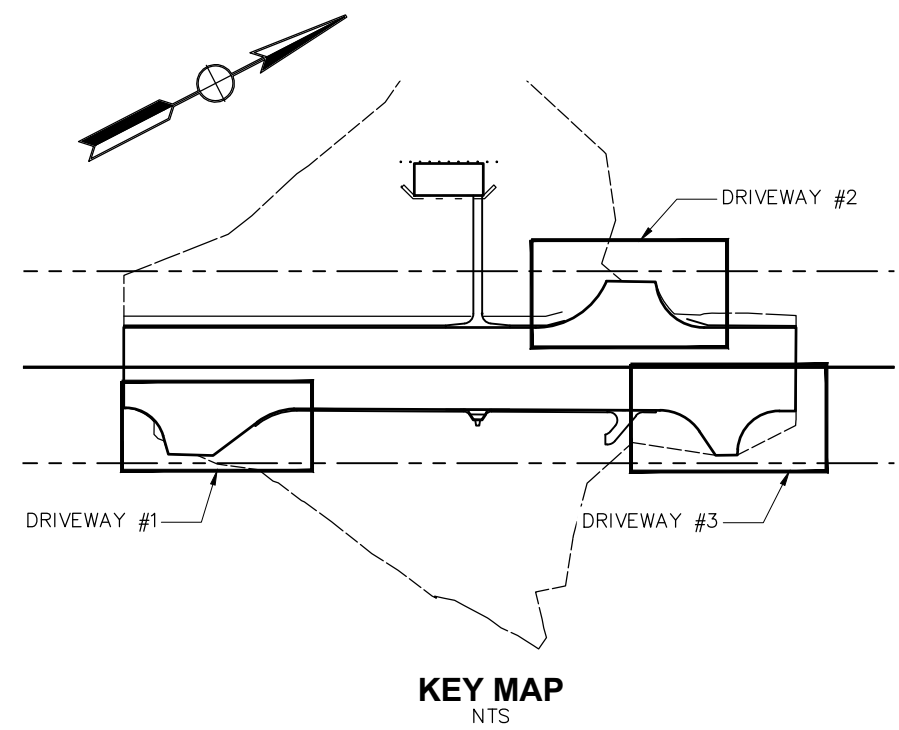
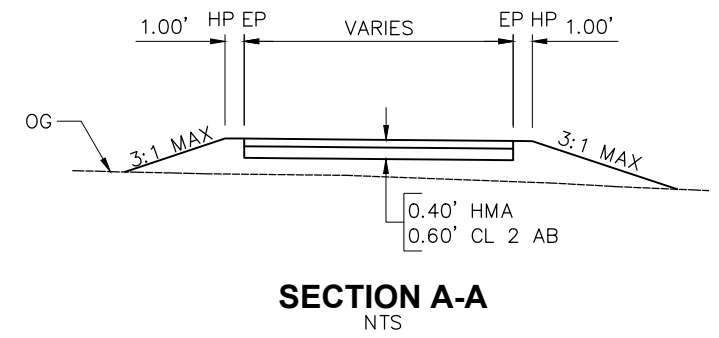
NO.	DATE	REVISION DESCRIPTION	APPROVED
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COUNTY OF MONTEREY
PUBLIC WORKS,
FACILITIES AND PARKS
PUBLIC WORKS

1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT CONSTRUCTION DETAILS			
DATE: 8/24/23	FILE: 21-9302_RHA_001.DWG	PROJECT NO.: 723205	SHEET: 6
SCALE: HORIZ. AS SHOWN		CONTRACT NO.:	
VERT. AS SHOWN		CONTRACT:	

- NOTES:**
- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORD MAPS AT THE COUNTY OFFICE.
 - CONTRACTOR TO CONFIRM CONFORM ELEVATIONS IN FIELD.
 - SEE TYPICAL CROSS SECTIONS SHEET FOR TYPICAL SECTIONS.



Drawing name: S:\Client\Monterey\21-9302_rha_002.dwg - cad files\21-9302_rha_002.dwg Layout: Tab: C-2, Aug 24, 2023 - 10:58am Mason.Dambacher

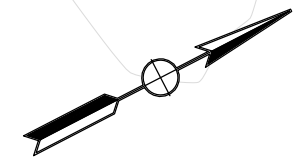
Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: Chief of Public Works and Facilities	

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

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SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT CONSTRUCTION DETAILS			
DATE: 8/24/23	FILE: 21-9302_RHA_002.DWG	PROJECT NO.: 723205	SHEET: 7
SCALE: HORIZ: AS SHOWN		VERT: AS SHOWN	
CONTRACT NO.:		CONTRACT:	
			OF 21 SHEETS

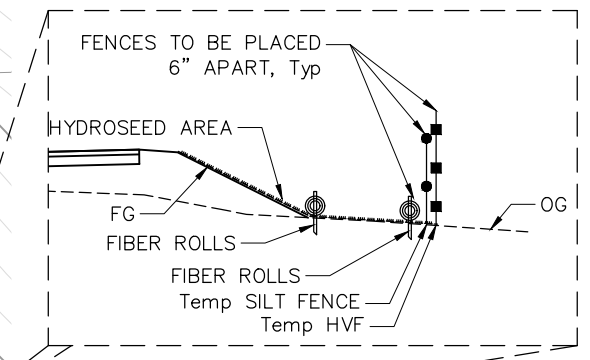
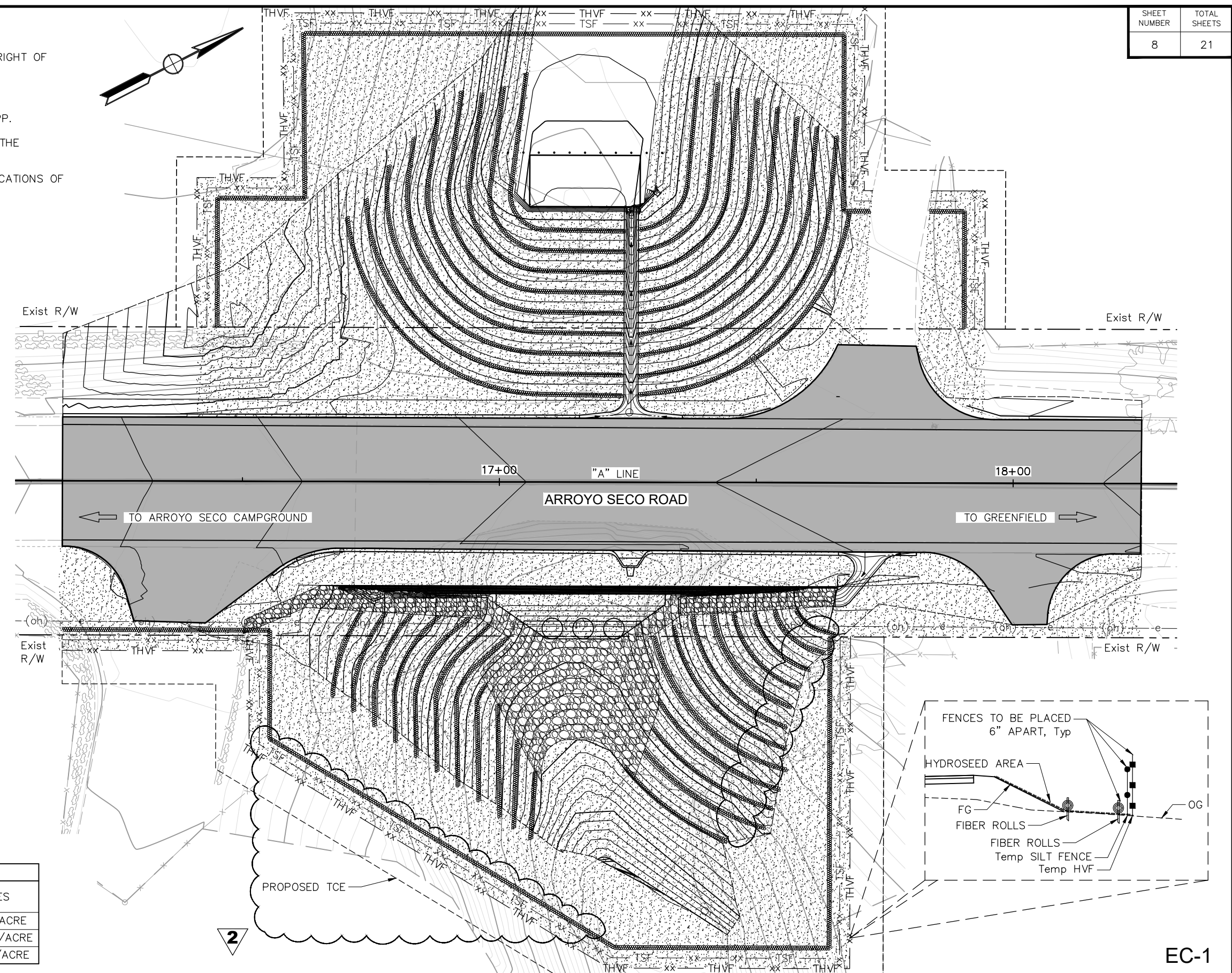
- NOTE:**
- FOR COMPLETE RIGHT OF WAY AND ACCURATE ACCESS DATA, SEE RIGHT OF WAY RECORDS MAPS AT COUNTY OFFICE.
 - THIS PLAN IS ACCURATE FOR EROSION CONTROL WORK ONLY.
 - TEMPORARY EROSION CONTROL PER CONTRACTOR'S APPROVED SWPPP.
 - TEMPORARY CONCRETE WASHOUT TO BE PLACED AS APPROVED BY THE ENGINEER.
 - LOCATION OF FIBER ROLLS ARE SCHEMATIC. ACTUAL PLACEMENT LOCATIONS OF FIBER RILLS SHALL BE IN ACCORDANCE WITH SPECIAL PROVISIONS.



- LEGEND:**
- xx — THVF ——— TEMPORARY HIGH-VISIBILITY FENCE
 - xx — xx — TSF ——— TEMPORARY SILT FENCE
 - ▨ FIBER ROLLS
 - ▨ EROSION CONTROL HYDROSEED
 - ▨ NEW STRUCTURAL SECTION
SEE TYPICAL CROSS SECTIONS
 - ▨ ROCK SLOPE PROTECTION (RSP)

HYDROSEED SEED MIX	
COMMON NAME (BOTANICAL NAME)	POUNDS PURE LIVE SEED PER ACRE (SLOPE MEASUREMENT)
WESTERN YARROW (ACHILLEA MILLEFOLIUM)	0
COMMON FIDDLENECK (AMSIACKIA MENZIESII)	5
CALIFORNIA BROME (BROMUS CARINATUS)	10
CALIFORNIA POPPY (ESCHSCHOLZIA CALIFORNICA)	1
CALIFORNIA GOLDFIELDS (LATHENIA CALIFORNICA)	0
PURPLE NEEDLEGRASS (STIPA PULCHRA)	10
SMALL FESCUE (FESTUCA MICROSTACHYS)	2
TOTAL	28

EROSION CONTROL (HYDROSEED)				
ITEM	SEQUENCE	MATERIAL		NOTES
		DESCRIPTION	TYPE	
HYDROSEED	STEP 1	SEED	SEED MIX	28 LB/ACRE
	STEP 2	FIBER	WOOD	1200 LB/ACRE
	STEP 3	TACKIFIER	PSYLLIUM	150 LB/ACRE



EC-1

Drawing name: S:\Client\Monterey\21-9302\21-9302-RGH-001.dwg — cad files\21-9302_rgh_001.dwg Layout Tab: EC-1 Aug 24, 2023 — 10:09am Mason Dambacher

Submitted by: Robert Ferguson
Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson CHKD BY: D. Morgan

Approval Recommended by: _____
Chief of Public Works and Facilities

11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

COUNTY OF MONTEREY
PUBLIC WORKS,
FACILITIES AND PARKS
PUBLIC WORKS
1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958



**ARROYO SECO ROAD MP 2.5
STORM DAMAGE REPAIR PROJECT
EROSION CONTROL PLAN**

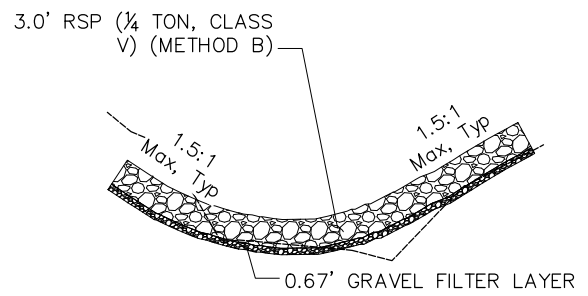
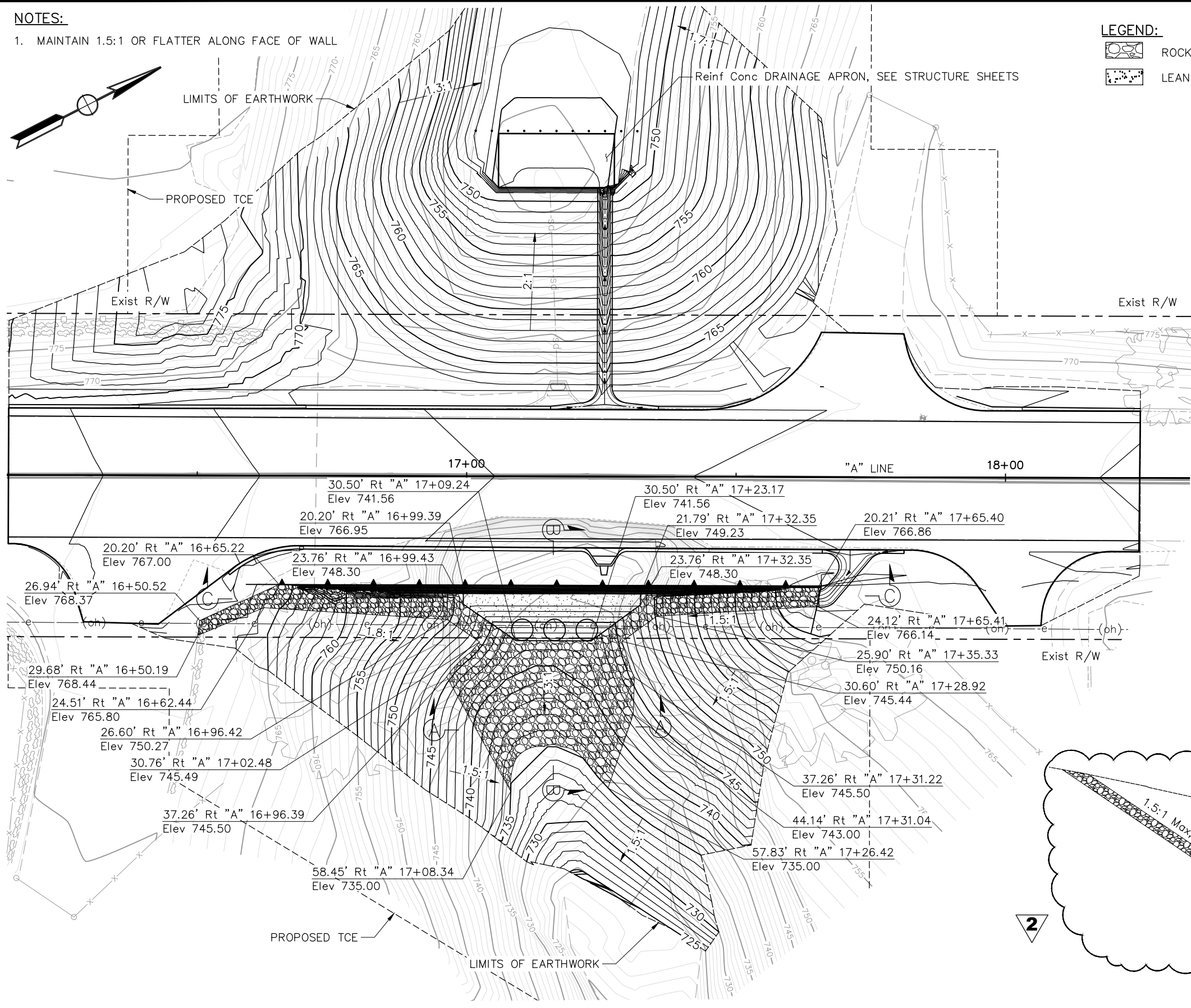
DATE 8/24/23	FILE 21-9302_RGH_001.DWG	PROJECT NO. 723205	SHEET 8
SCALE: HORIZ. 1"=20' VERT. 1"=20'		CONTRACT NO. CONTRACT	OF 21 SHEETS

NOTES:

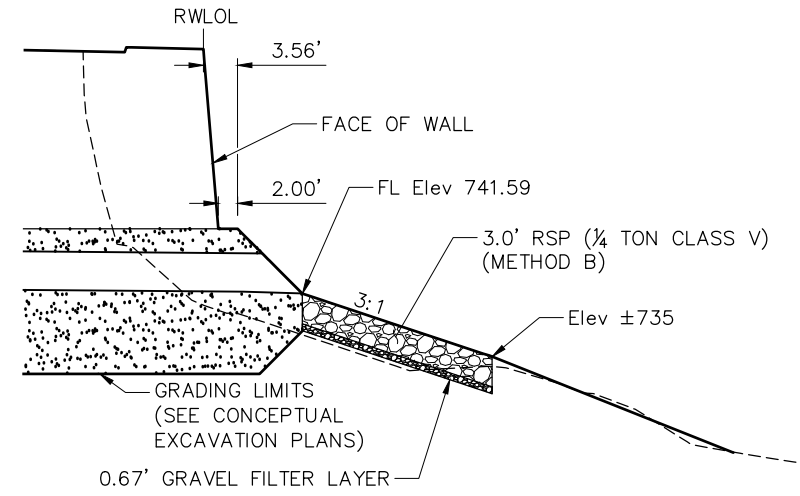
1. MAINTAIN 1.5:1 OR FLATTER ALONG FACE OF WALL

LEGEND:

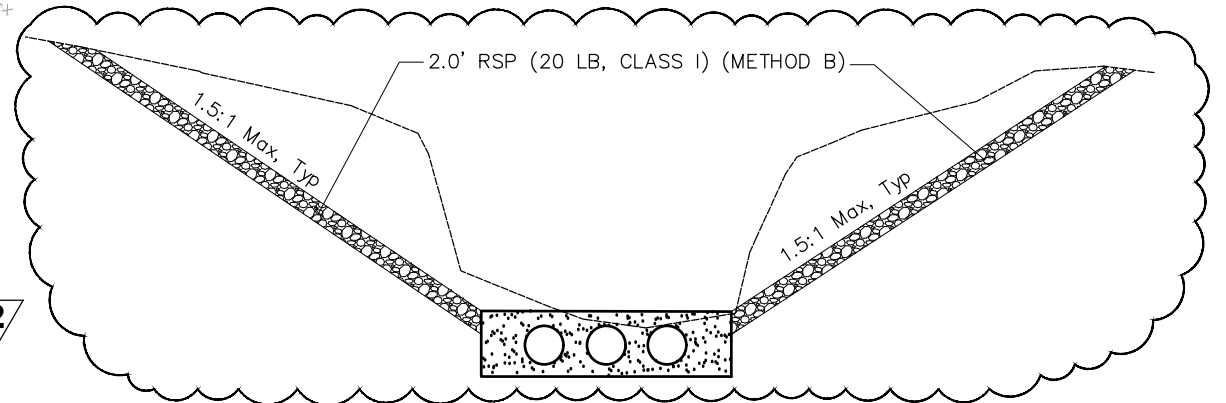
-  ROCK SLOPE PROTECTION
-  LEAN CONCRETE BACKFILL



SECTION A-A
1"=20'



SECTION B-B
1"=20'




SECTION C-C
1"=20'

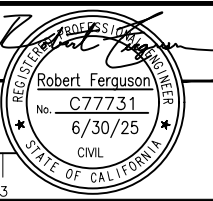
G-1

Drawing name: S:\Client\Monterey\21-9302\21-9302-01.dwg - cadd files\21-9302-01.dwg Layout: Tab: G-1 Aug 24 2023 10:17am Mason Dambacher

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: Chief of Public Works and Facilities	



11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181



NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	



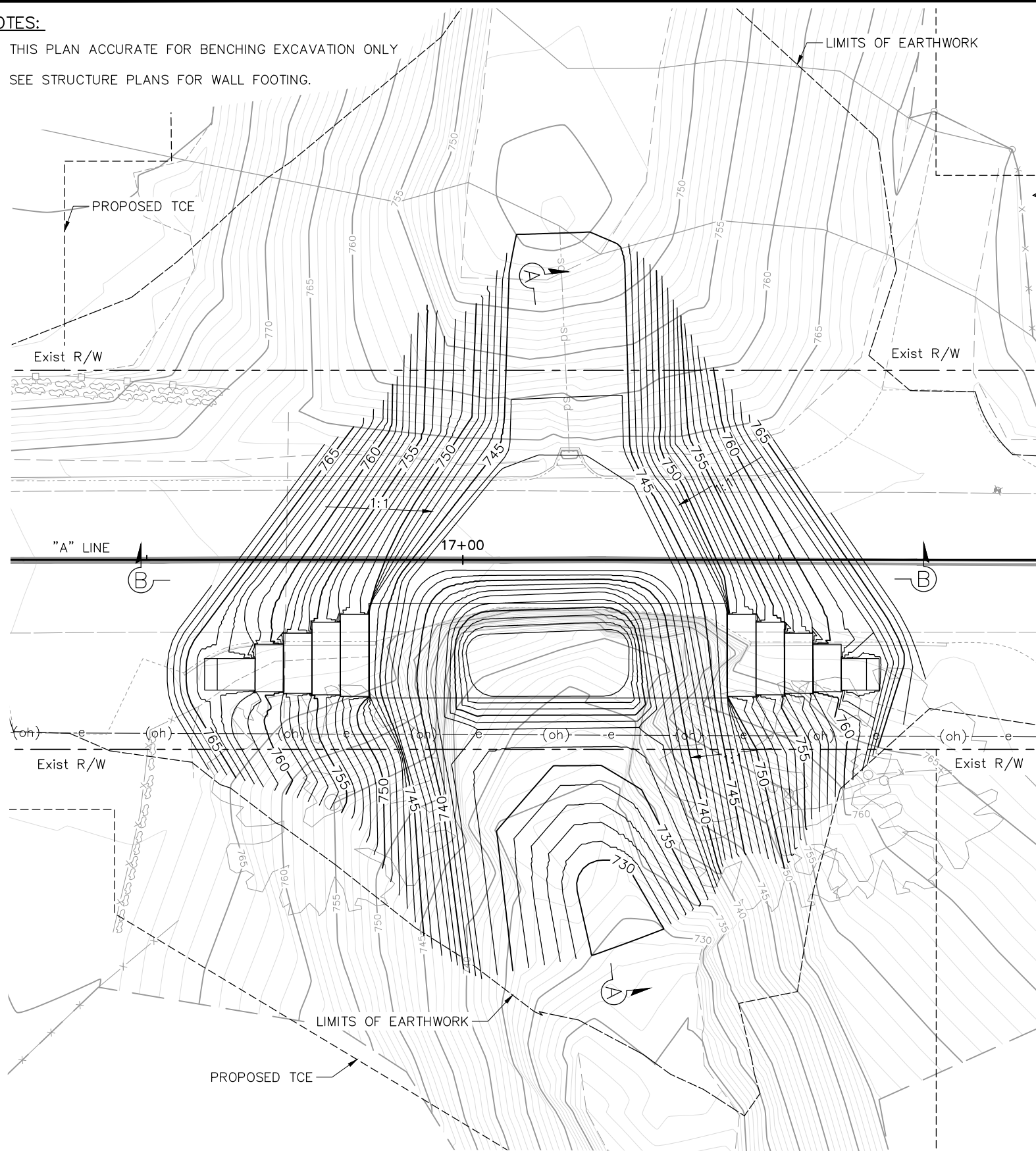
COUNTY OF MONTEREY
PUBLIC WORKS,
FACILITIES AND PARKS
PUBLIC WORKS
1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT CONTOUR GRADING			
DATE 8/24/23	FILE 21-9302_RGA_001.DWG	PROJECT NO. 723205	SHEET 9
SCALE/HORIZ: 1"=20'		CONTRACT NO. CONTRACT	
VERT: 1"=20'		OF 21 SHEETS	

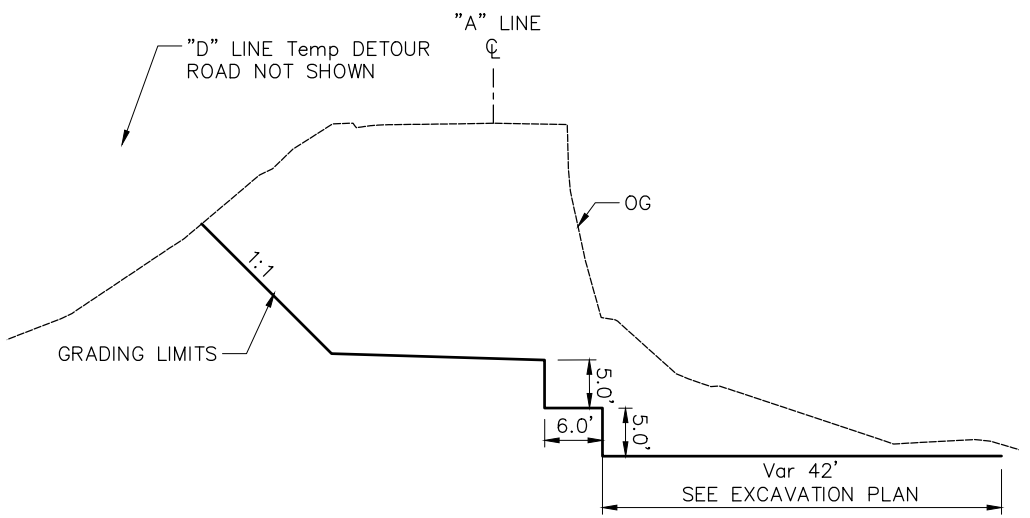
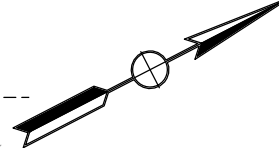
NOTES:

1. THIS PLAN ACCURATE FOR BENCHING EXCAVATION ONLY
2. SEE STRUCTURE PLANS FOR WALL FOOTING.

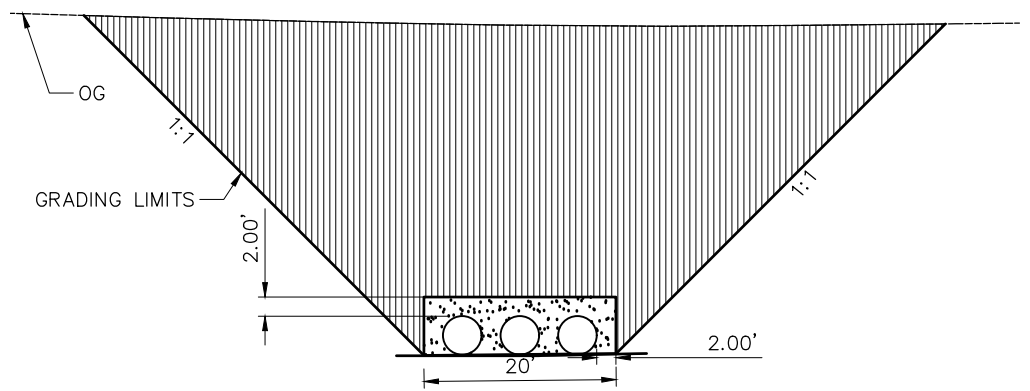
THIS PLAN REPRESENT TOTAL EXCAVATION FROM ORIGINAL GRADE TO GRADING LIMITS WITHOUT CONSIDERATION TO STAGE CONSTRUCTION.



EXCAVATION PLAN
1"=20'

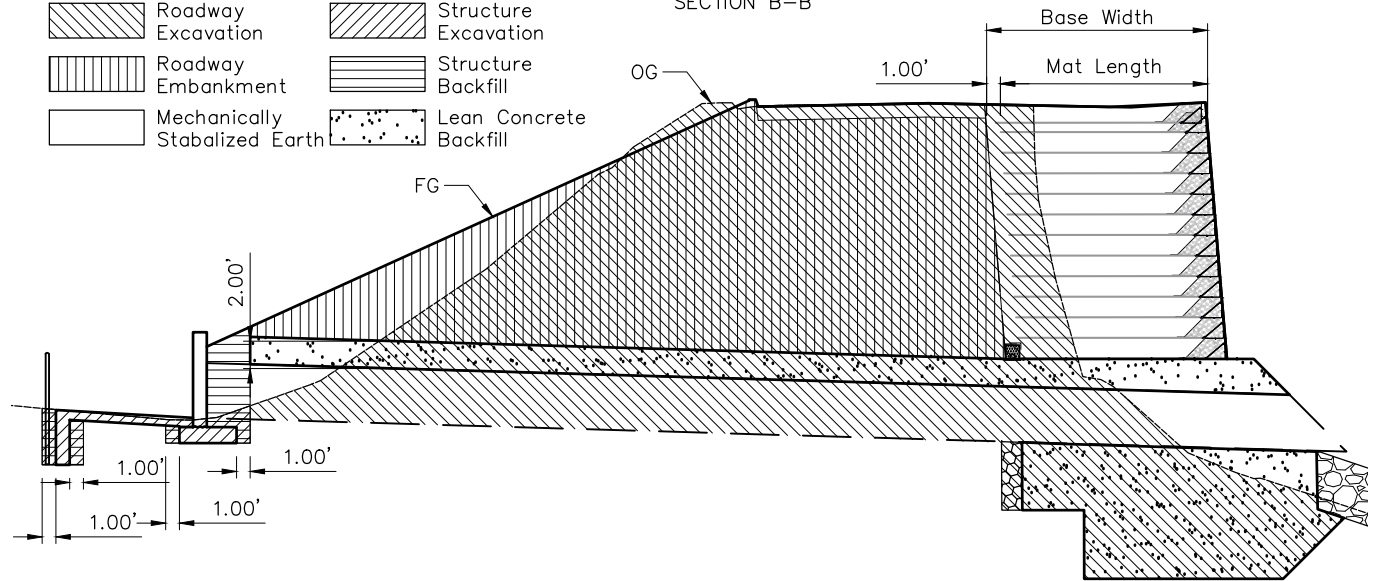


TYPICAL BENCHING SECTION
SECTION A-A



TYPICAL EXCAVATION SECTION
SECTION B-B

	Roadway Excavation		Structure Excavation
	Roadway Embankment		Structure Backfill
	Mechanically Stabilized Earth		Lean Concrete Backfill



G-2

Drawing name: S:\Client\Monterey\21-9302\21-9302-002.dwg - cadd files\21-9302-002.dwg Layout Tab: G-2 Aug 24 2023 10:13am Mason.Dambacher




Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: _____ Chief of Public Works and Facilities	

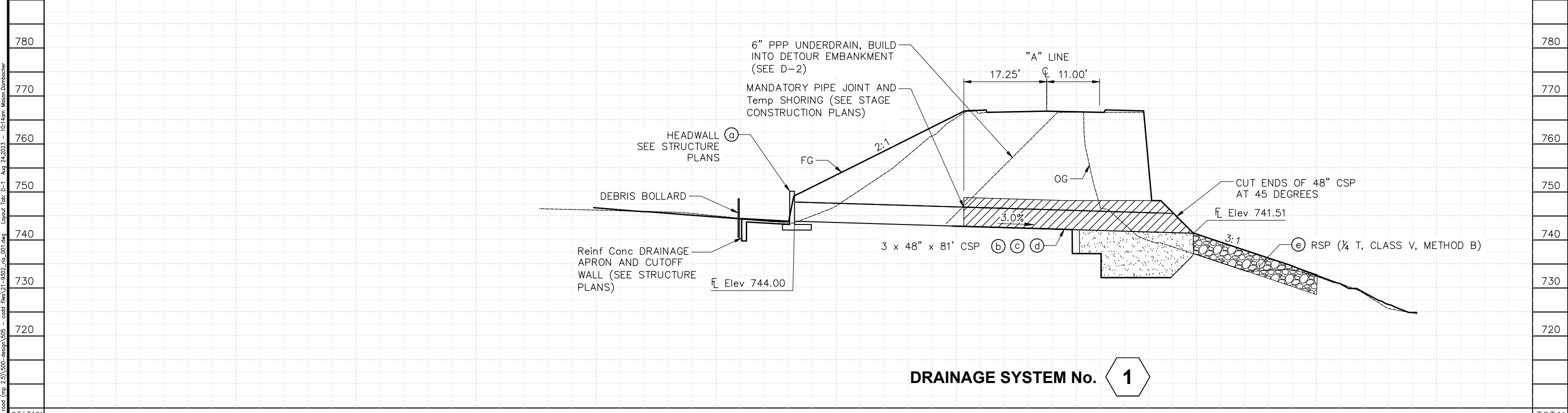
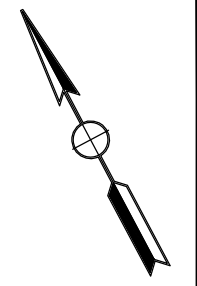
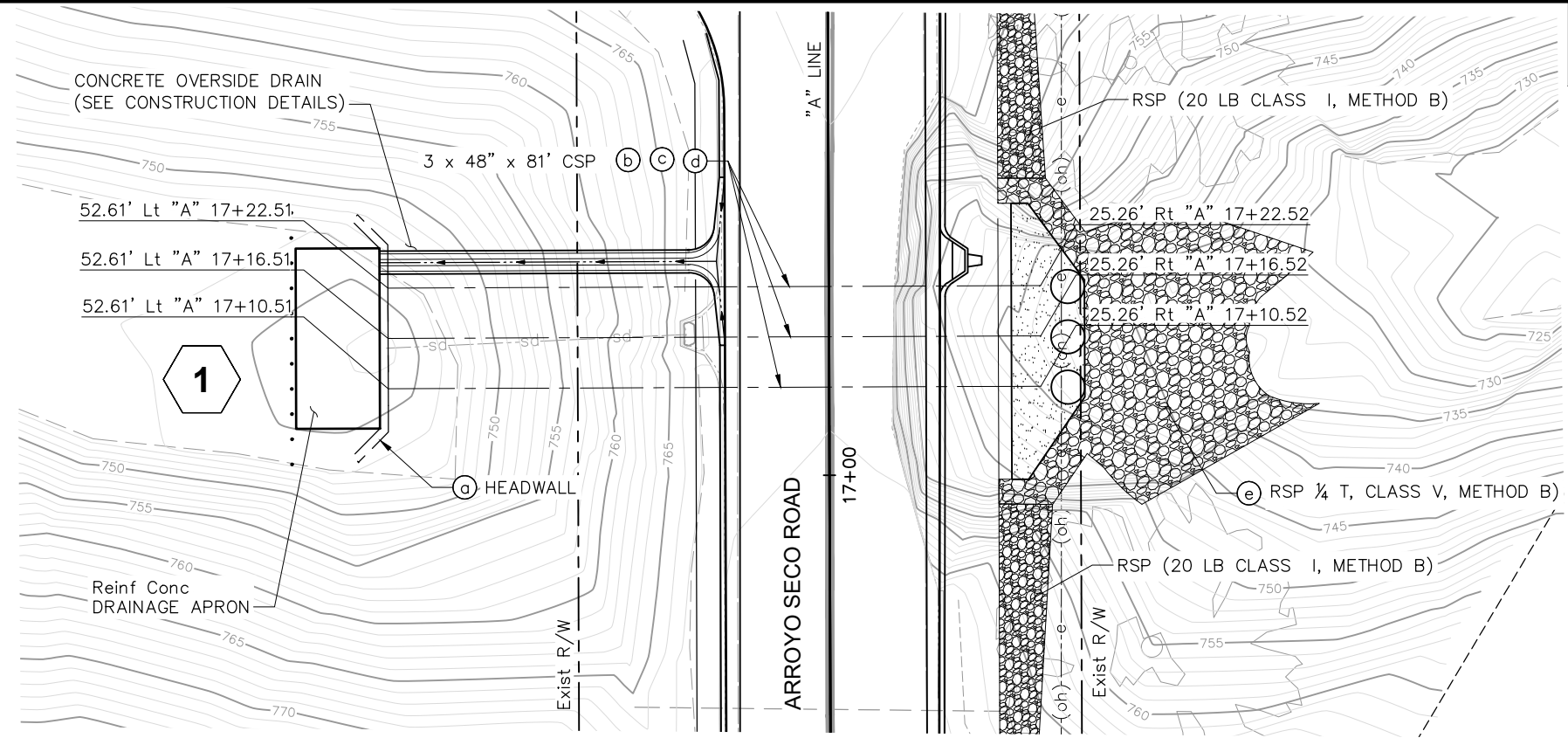
NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	
3			
4			
5			

COUNTY OF MONTEREY
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(831)755-4800/FAX (831)755-4958

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT CONCEPTUAL EXCAVATION PLAN			
DATE 8/24/23	FILE 21-9302_RGA_002.DWG	PROJECT NO. 723205	SHEET 10
SCALE: HORIZ. AS SHOWN VERT. AS SHOWN		CONTRACT NO. CONTRACT	OF 21 SHEETS

SHEET NUMBER	TOTAL SHEETS
11	21

- LEGEND:**
-  ROCK SLOPE PROTECTION
 -  LEAN CONCRETE BACKFILL
 -  LEAN CONCRETE BACKFILL AROUND 48" PIPES



STATION		TOTAL
Exc		
CY		
Emb		
		D-1


Submitted by: Robert Ferguson
Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher
CHKD BY: I.K./C.D.

DRAWN BY: M. Dambacher
CHKD BY: I.K./C.D.

SPECIFICATIONS WRITTEN BY: J. Wilson
CHKD BY: D. Morgan

Approval Recommended by: Chief of Public Works and Facilities



11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	



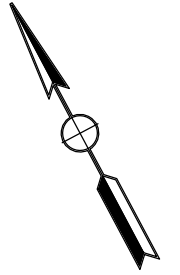
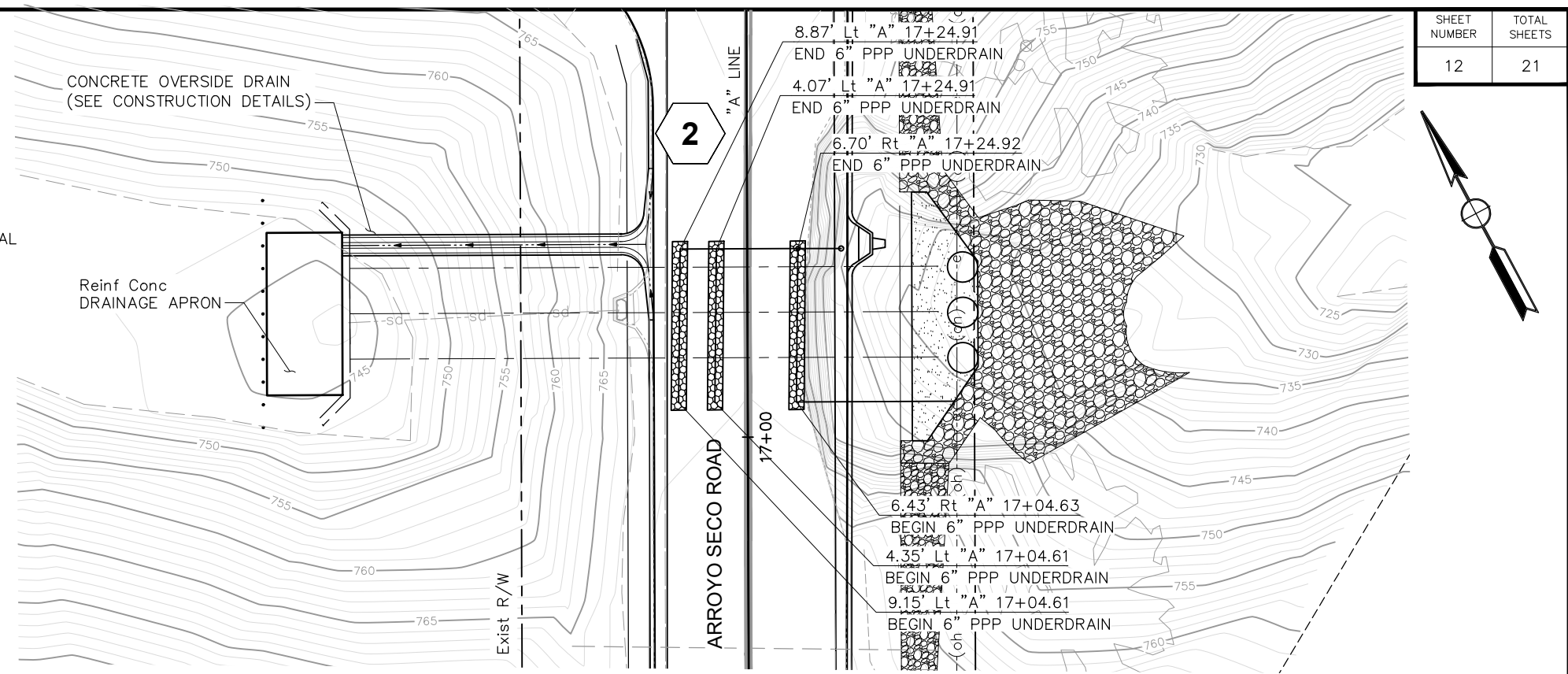
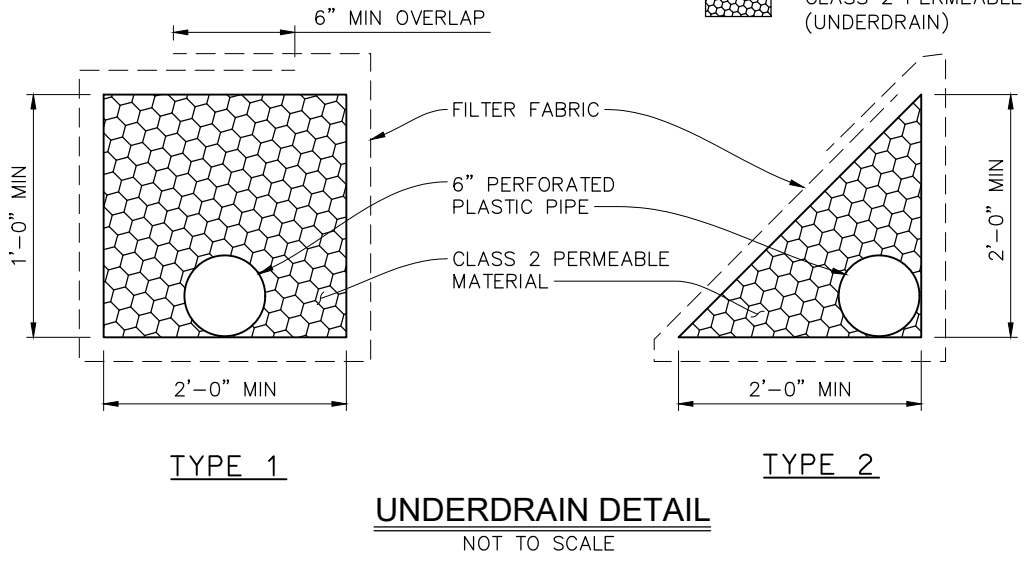
COUNTY OF MONTEREY
PUBLIC WORKS,
FACILITIES AND PARKS
PUBLIC WORKS
1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

**ARROYO SECO ROAD MP 2.5
STORM DAMAGE REPAIR PROJECT
DRAINAGE PLAN & PROFILE**

DATE 8/24/23	FILE 21-9302_RIA_001.DWG	PROJECT NO. 723205	SHEET 11
SCALE HORIZ: 1"=20'		CONTRACT NO.	
VERT: 1"=20'		CONTRACT	

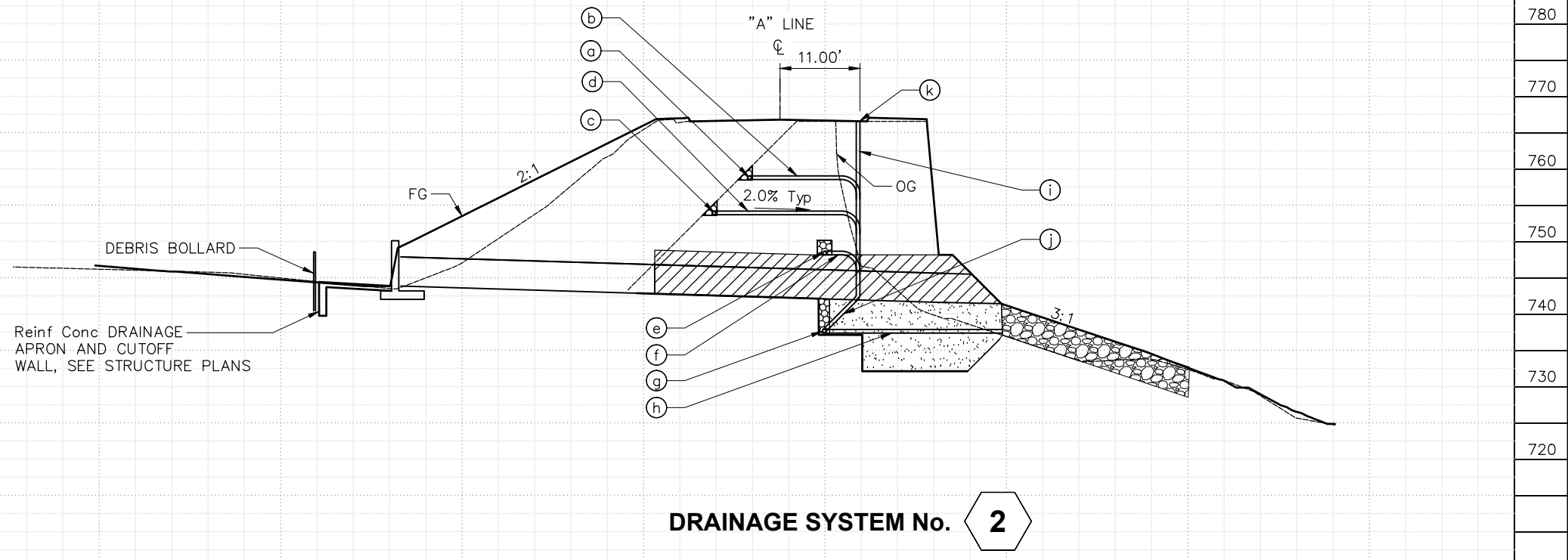
OF 2 SHEETS

- LEGEND:**
- ROCK SLOPE PROTECTION
 - LEAN CONCRETE BACKFILL
 - LEAN CONCRETE BACKFILL AROUND 48" PIPES
 - CLASS 2 PERMEABLE MATERIAL (UNDERDRAIN)



UNDERDRAIN DATA TABLE

PART	TYPE	LENGTH	CONNECTION			
			TYPE	TO PART	START FL	END FL
a	6" PPP UNDERDRAIN, TYPE 2, H=2.0'	20	90° SWEEP	b	758.7	758.3
b	6" PP OUTFALL	16	90° Y	i	758.3	758.0
c	6" PPP UNDERDRAIN, TYPE 2, H=2.0'	20	90° SWEEP	d	753.9	753.5
d	6" PP OUTFALL	21	90° Y	i	753.5	753.1
e	6" PPP UNDERDRAIN, TYPE 1, H=2.0'	20	90° SWEEP	f	748.7	748.3
f	6" PP OUTFALL	4.5	90° Y	i	748.3	748.2
g	6" PPP UNDERDRAIN, TYPE 1, H=5.0'	20	90° SWEEP	h	738.4	738.0
h	6" PP OUTFALL	24.5	MESH COVER	N/A	738.0	737.5
i	6" PP RISER	23.2	45° SWEEP	j	766.4	742.9
j	6" PP RISER	6.5	90° SWEEP	g	742.9	738.4
k	RISER COVER		90° SWEEP	i	N/A	N/A



Drawing name: S:\Client\Monterey\21-9302\21-9302-01-arroyo-seco-road (mp-2.5)\600-design\605 - cold files\21-9302-ria_002.dwg Layout Tab: D-1 Aug 24, 2023 - 10:15am Mason,Dambacher

STATION		TOTAL
Exc		
CY		
Emb		
		D-2

Submitted by: Robert Ferguson
Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher CHKD BY: I.K./C.D.

DRAWN BY: M. Dambacher CHKD BY: I.K./C.D.

SPECIFICATIONS WRITTEN BY: J. Wilson CHKD BY: D. Morgan




Approval Recommended by: Chief of Public Works and Facilities

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

COUNTY OF MONTEREY
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FACILITIES AND PARKS
PUBLIC WORKS
1441 SCHILLING PLACE, 2nd FLOOR
SALINAS, CALIFORNIA 93901
(831)755-4800/FAX (831)755-4958

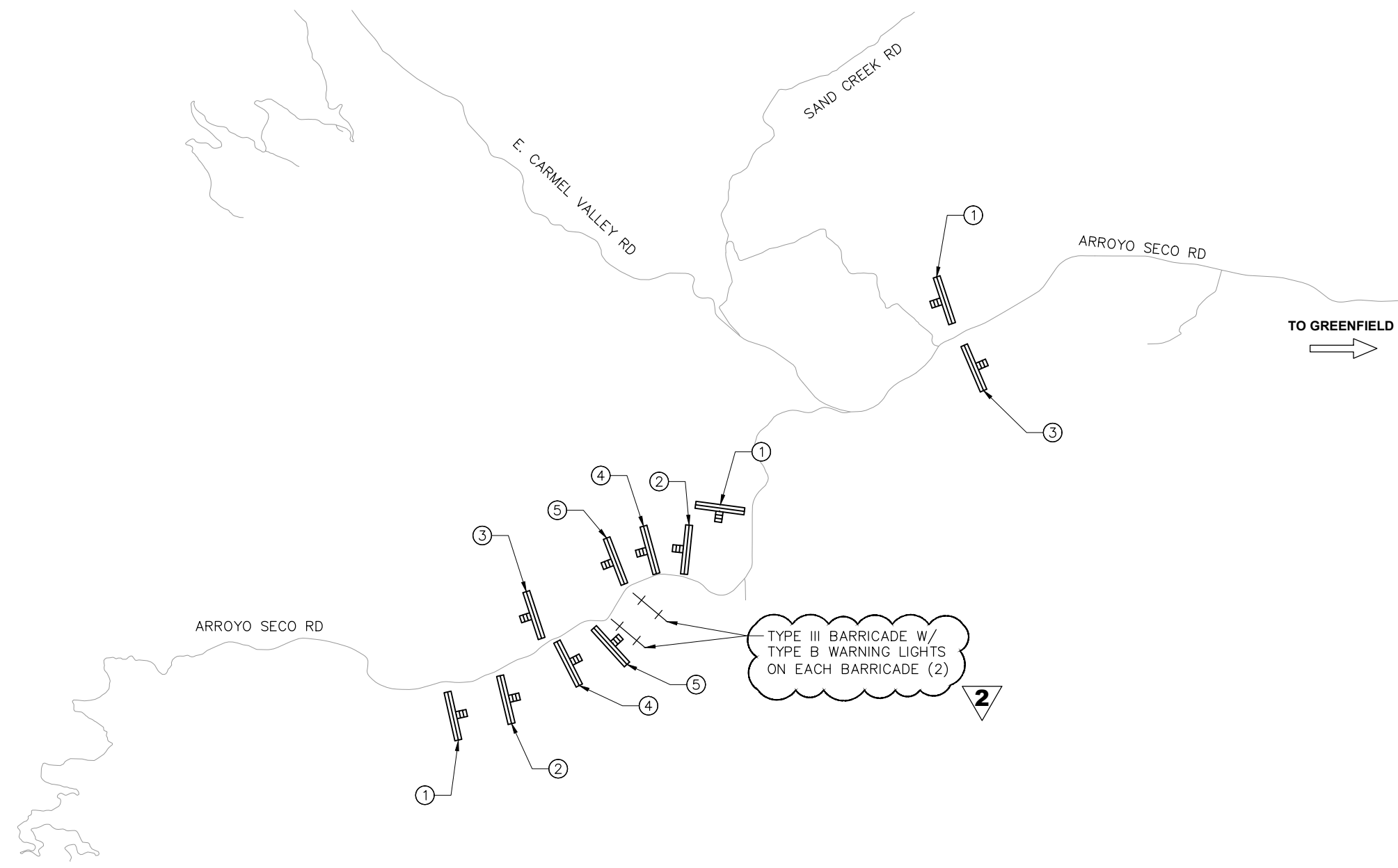
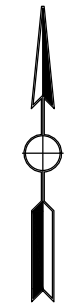
**ARROYO SECO ROAD MP 2.5
STORM DAMAGE REPAIR PROJECT
DRAINAGE PLAN & PROFILE**

DATE 8/24/23	FILE 21-9302_RIA_002.DWG	PROJECT NO. 723205	SHEET 12
SCALE HORIZ: 1"=20'		CONTRACT NO. CONTRACT	
VERT: 1"=20'		OF 21 SHEETS	

- LEGEND:**
-  STATIONARY MOUNTED CAS – ONE POST
 -  CONSTRUCTION AREA SIGN (CAS) NUMBER
 -  TYPE III BARRICADE (2)

- NOTES:**
1. THIS PLAN ACCURATE FOR CONSTRUCTION AREA SIGNS ONLY.
 2. SIGN LOCATIONS SHOWN ARE APPROXIMATE. EXACT LOCATIONS TO BE DETERMINED BY ENGINEER.
 3. ACCESS TO DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
 4. Exist CONSTRUCTION AREA SIGNS, PAVEMENT MAKINGS AND STOP BAR ON SITE MAY BE RE-USED

CONSTRUCTION AREA SIGNS						
SIGN NO.	SIGN CODE	SIGN MESSAGE	PANEL SIZE	NO. AND SIZE OF POST		NO OF SIGNS
1	W20-1	"ROAD WORK AHEAD"	36" x 36"	1	4x4	3
2	W20-4	"ONE LANE ROAD AHEAD"	36" x 36"	1	4x4	2
3	G20-2	"END ROAD WORK"	36" x 18"	1	4X4	2
4	W3-1	"STOP AHEAD"	30" X 30"	1	4X4	2
5	R1-1	"STOP"	30" X 30"	1	4x4	2
TOTAL						11



BARRICADES	
BARRICADE	NO OF BARRICADES
TYPE III	4
TOTAL	4

WARNING LIGHTS	
WARNING LIGHTS	NO OF LIGHTS
TYPE B	4
TOTAL	4

Drawing name: S:\Client\Monterey\21-9302-RLA_001.dwg - cad files\21-9302-rla_001.dwg Layout Tab: CS-1 Aug 24, 2023 10:18am Mason Dambacher

CS-1


Submitted by: Robert Ferguson
Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher CHKD BY: I.K./C.D.

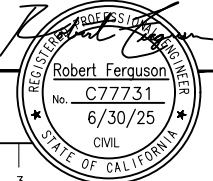
DRAWN BY: M. Dambacher CHKD BY: I.K./C.D.

SPECIFICATIONS WRITTEN BY: J. Wilson CHKD BY: D. Morgan

Approval Recommended by: _____
Chief of Public Works and Facilities



11017 COBBLEROCK DRIVE, SUITE 100
RANCHO CORDOVA, CA 95670
P: 916.368.9181



NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
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COUNTY OF MONTEREY
PUBLIC WORKS,
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1441 SCHILLING PLACE, 2nd FLOOR
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(831)755-4800/FAX (831)755-4958

**ARROYO SECO ROAD MP 2.5
STORM DAMAGE REPAIR PROJECT
CONSTRUCTION AREA SIGNS**




DATE 8/24/23	FILE 21-9302_RLA_001.DWG	PROJECT NO. 723205	SHEET 13
SCALE HORIZ: NTS		CONTRACT NO.	
VERT: NTS		CONTRACT	

OF 2 SHEETS

STAGE CONSTRUCTION NOTES:

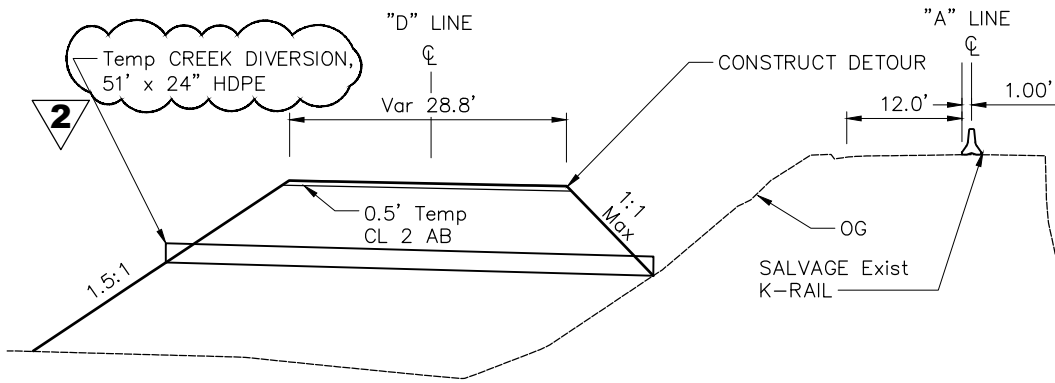
STAGE 1: CONSTRUCT TEMPORARY EMBANKMENT IN CREEK BED FOR DETOUR ROUTE.
 TRAFFIC TO REMAIN ON EXIST ROUTE.
 SEE SHEET K-1 FOR "D" AND "D2" ALIGNMENTS.

LEGEND:

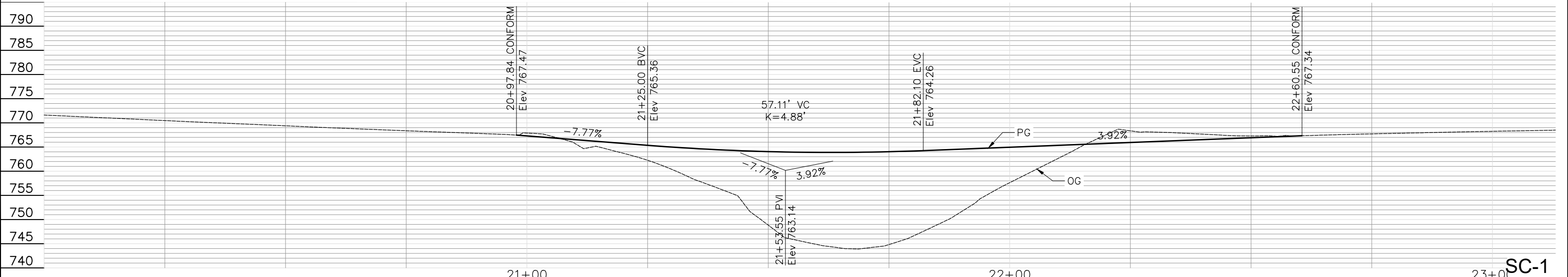
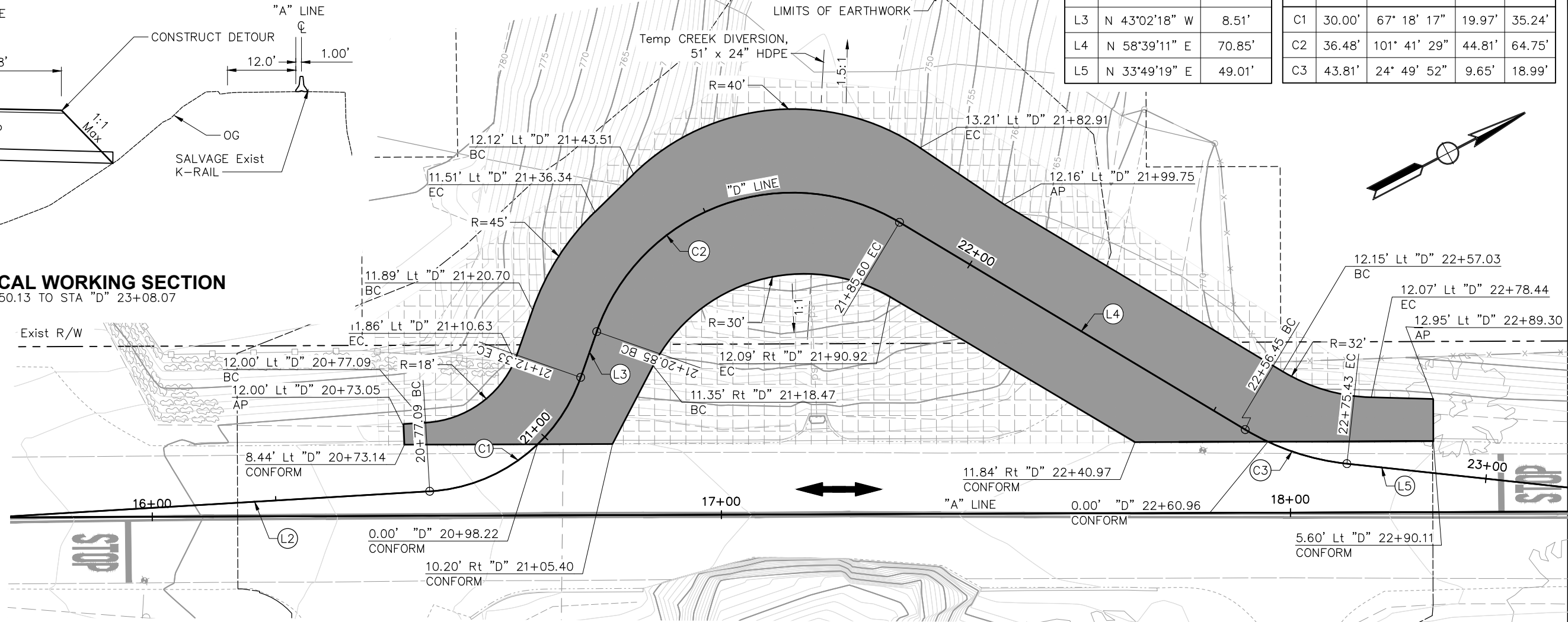
-  DETOUR ROUTE, Temp CL 2 AB
-  STAGE 1 WORKING AREA
-  ONE-WAY TRAVELED WAY

LINE DATA		
NO.	BEARING	DISTANCE
L2	N 24°15'59" E	77.09'
L3	N 43°02'18" W	8.51'
L4	N 58°39'11" E	70.85'
L5	N 33°49'19" E	49.01'

CURVE DATA				
NO.	R	Δ	T	L
C1	30.00'	67° 18' 17"	19.97'	35.24'
C2	36.48'	101° 41' 29"	44.81'	64.75'
C3	43.81'	24° 49' 52"	9.65'	18.99'



STAGE 1 TYPICAL WORKING SECTION
 STA "D" 21+50.13 TO STA "D" 23+08.07



Drawing name: S:\Client\Monterey\219302\219302a.dwg - cad files\21-9302_rma_001.dwg Layout: Tab: SC-1 Aug 24, 2023 - 10:20am Mason Dambacher

Submitted by: Robert Ferguson
 Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher
 CHKD BY: I.K./C.D.

DRAWN BY: M. Dambacher
 CHKD BY: I.K./C.D.

SPECIFICATIONS WRITTEN BY: J. Wilson
 CHKD BY: D. Morgan

Approval Recommended by: Chief of Public Works and Facilities

11017 COBBLEROCK DRIVE, SUITE 100
 RANCHO CORDOVA, CA 95670
 P: 916.368.9181

ORIGINAL SCALE IN INCHES
 FOR REDUCED PLANS

0 1 2 3

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

COUNTY OF MONTEREY
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 PUBLIC WORKS





1441 SCHILLING PLACE, 2nd FLOOR
 SALINAS, CALIFORNIA 93901
 (831)755-4800/FAX (831)755-4958

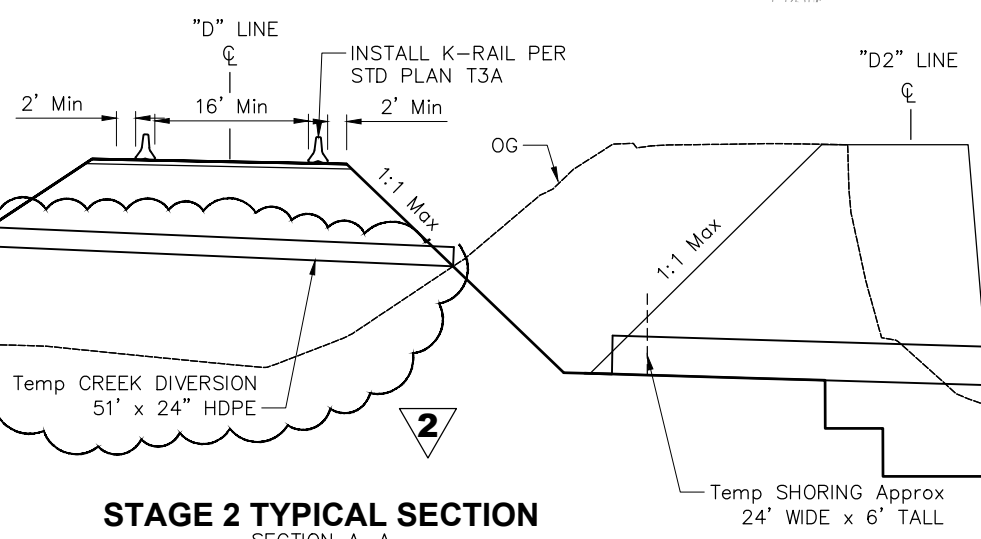
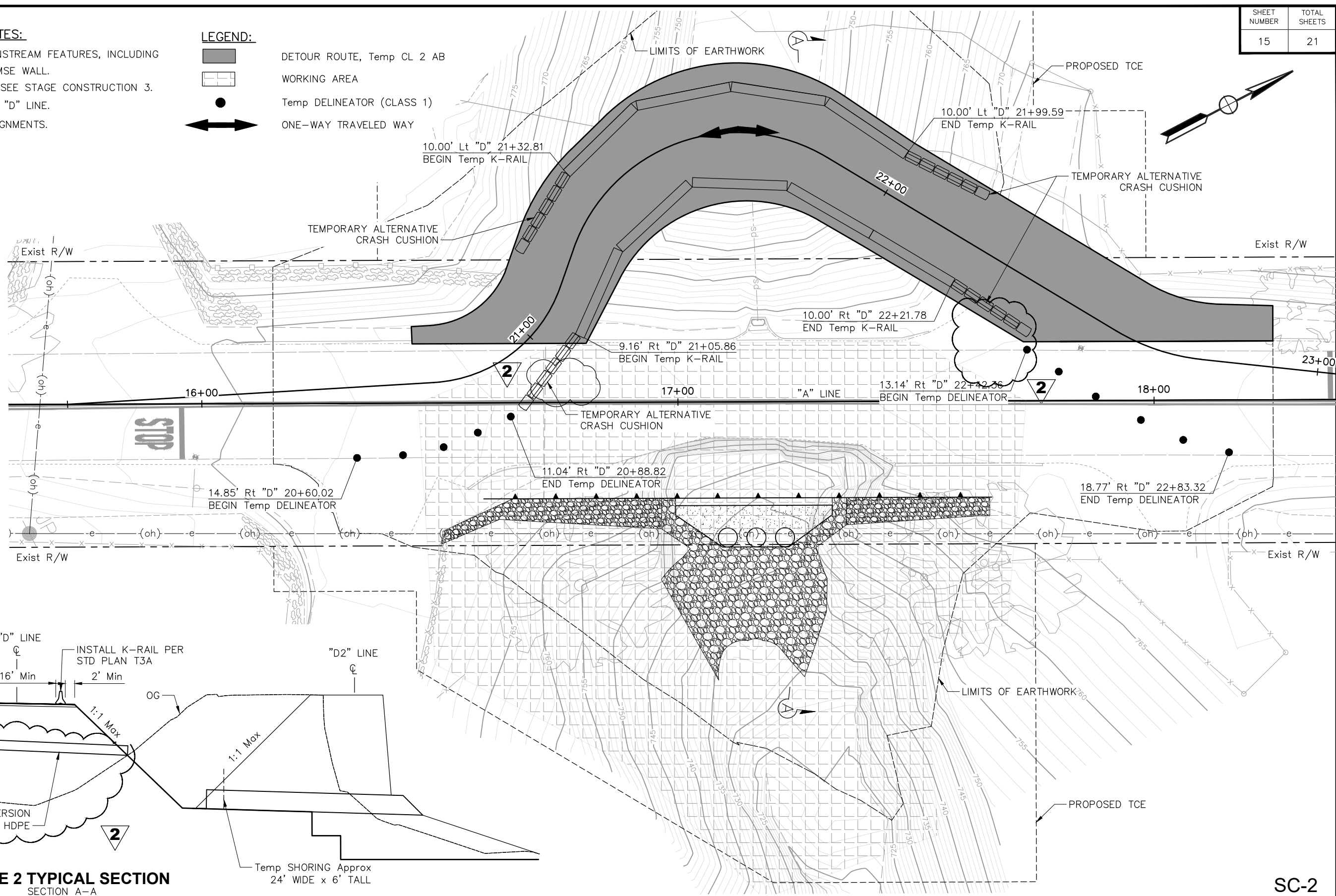
**ARROYO SECO ROAD MP 2.5
 STORM DAMAGE REPAIR PROJECT
 STAGE CONSTRUCTION 1**

DATE 8/24/23	FILE 21-9302_RMA_001.DWG	PROJECT NO. 723205	SHEET 14
SCALE: HORIZ: 1"=20'		CONTRACT NO. CONTRACT	
VERT: 1"=20'		OF 2 SHEETS	

STAGE CONSTRUCTION NOTES:

STAGE 2: CONSTRUCT ALL DOWNSTREAM FEATURES, INCLUDING
 DOWNSTREAM CSP SEGMENT & MSE WALL.
 CONSTRUCT DETOUR ROUTE #2, SEE STAGE CONSTRUCTION 3.
 MAINTAIN ONE-WAY TRAFFIC ON "D" LINE.
 SEE K-1 FOR "D" AND "D2" ALIGNMENTS.


- LEGEND:**
-  DETOUR ROUTE, Temp CL 2 AB
 -  WORKING AREA
 -  Temp DELINEATOR (CLASS 1)
 -  ONE-WAY TRAVELED WAY



STAGE 2 TYPICAL SECTION
SECTION A-A

SC-2

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: M. Dambacher	CHKD BY: I.K./C.D.
DRAWN BY: M. Dambacher	CHKD BY: I.K./C.D.
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: D. Morgan
Approval Recommended by: Chief of Public Works and Facilities	



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COUNTY OF MONTEREY
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

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT STAGE CONSTRUCTION 2			
DATE 8/24/23	FILE 21-9302_RMA_002.DWG	PROJECT NO. 723205	SHEET 15
SCALE HORIZ: 1"=20'		CONTRACT NO. CONTRACT	
VERT: 1"=20'		OF 21 SHEETS	

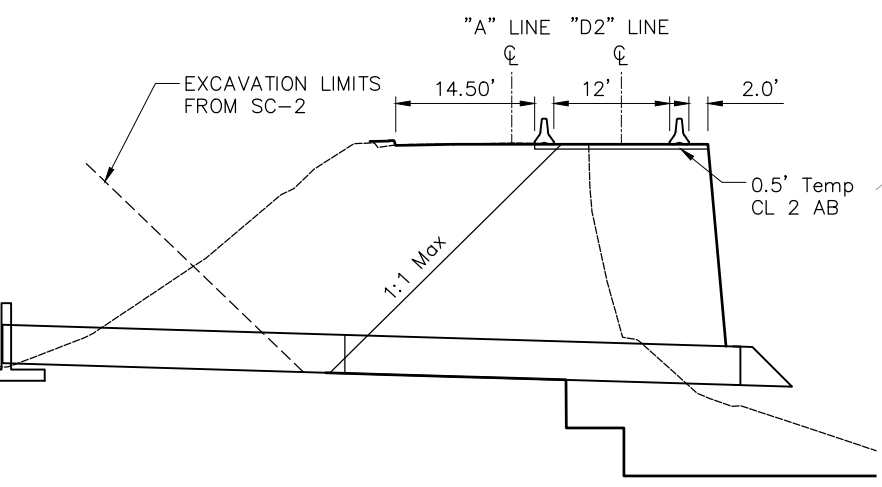
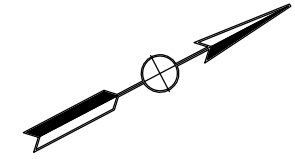
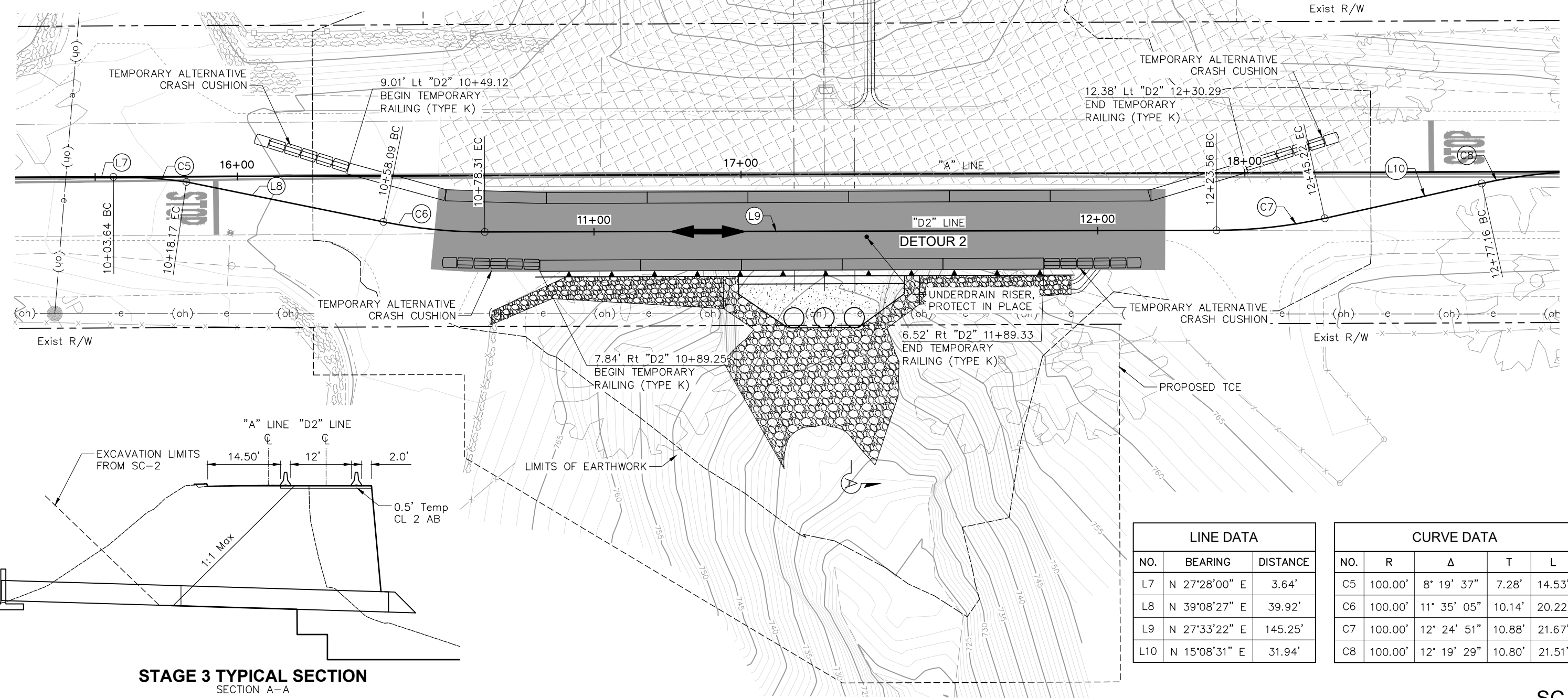
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STAGE CONSTRUCTION NOTES:

STAGE 3: CONSTRUCT ALL UPSTREAM FEATURES INCLUDING HEADWALL, FINISHED GRADE, AND UPSTREAM CSP SEGMENT.
 TRAFFIC TO BE ONE-WAY ALONG "D2" LINE. 0.5' CL 2 AB TO BE Temp FINISHED GRADE.
 CONSTRUCT FINAL STRUCTURAL SECTION ONE LANE AT A TIME USING FLAGGERS.
 SEE K-1 FOR FULL ALIGNMENT CONFORMS.

LEGEND:

-  DETOUR ROUTE, Temp CL 2 AB
-  WORKING AREA
-  ONE-WAY TRAVELED WAY



LINE DATA		
NO.	BEARING	DISTANCE
L7	N 27°28'00" E	3.64'
L8	N 39°08'27" E	39.92'
L9	N 27°33'22" E	145.25'
L10	N 15°08'31" E	31.94'

CURVE DATA				
NO.	R	Δ	T	L
C5	100.00'	8° 19' 37"	7.28'	14.53'
C6	100.00'	11° 35' 05"	10.14'	20.22'
C7	100.00'	12° 24' 51"	10.88'	21.67'
C8	100.00'	12° 19' 29"	10.80'	21.51'

SC-3


Submitted by: Robert Ferguson
 Project Engineer C.E. No. C77731

DESIGN BY: M. Dambacher
 CHKD BY: I.K./C.D.

DRAWN BY: M. Dambacher
 CHKD BY: I.K./C.D.

SPECIFICATIONS WRITTEN BY: J. Wilson
 CHKD BY: D. Morgan

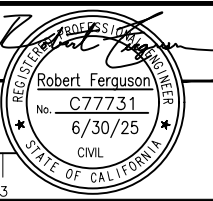
Approval Recommended by: Chief of Public Works and Facilities



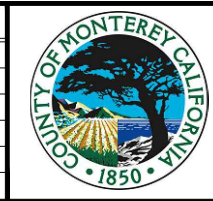
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 P: 916.368.9181

ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

0 1 2 3



NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	



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 FACILITIES AND PARKS
 PUBLIC WORKS
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ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT STAGE CONSTRUCTION 3

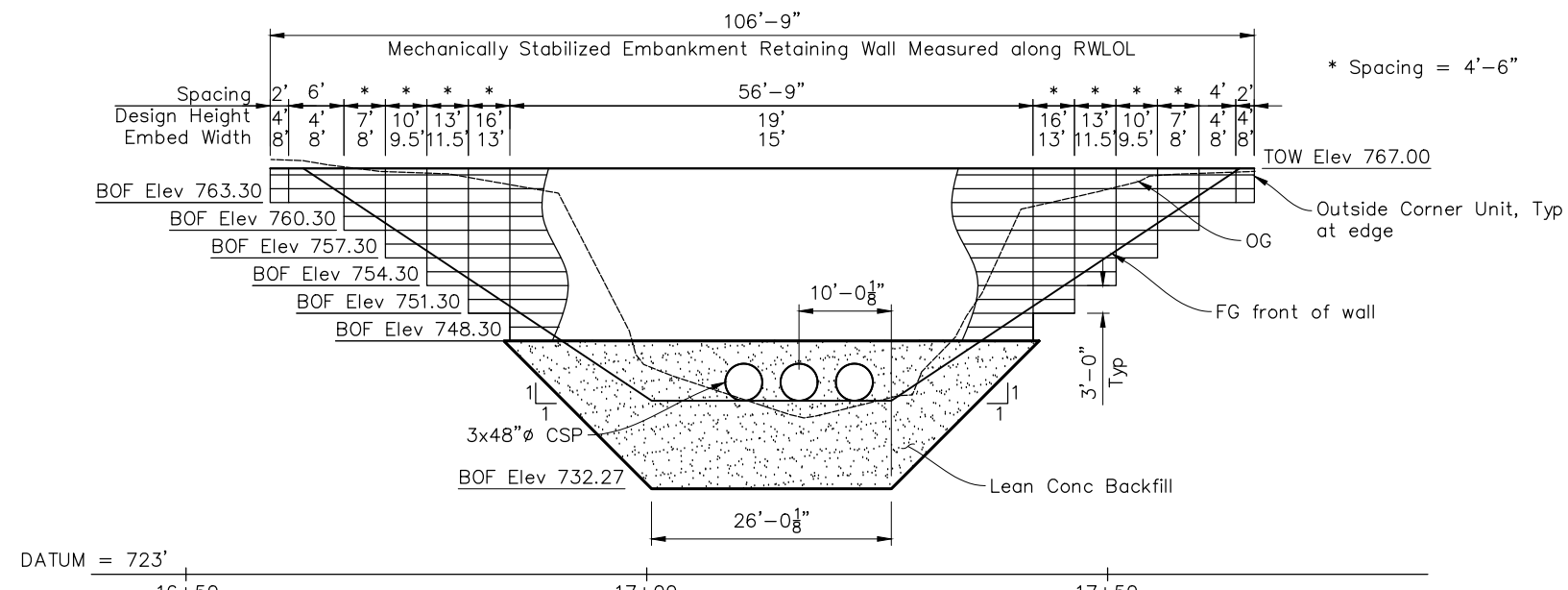
DATE 8/24/23	FILE 21-9302_RMA_003.DWG	PROJECT NO. 723205	SHEET 16
SCALE: HORIZ: 1"=20'		CONTRACT NO.	OF 21 SHEETS
VERT: 1"=20'		CONTRACT	

SHEET NUMBER	TOTAL SHEETS
18	21

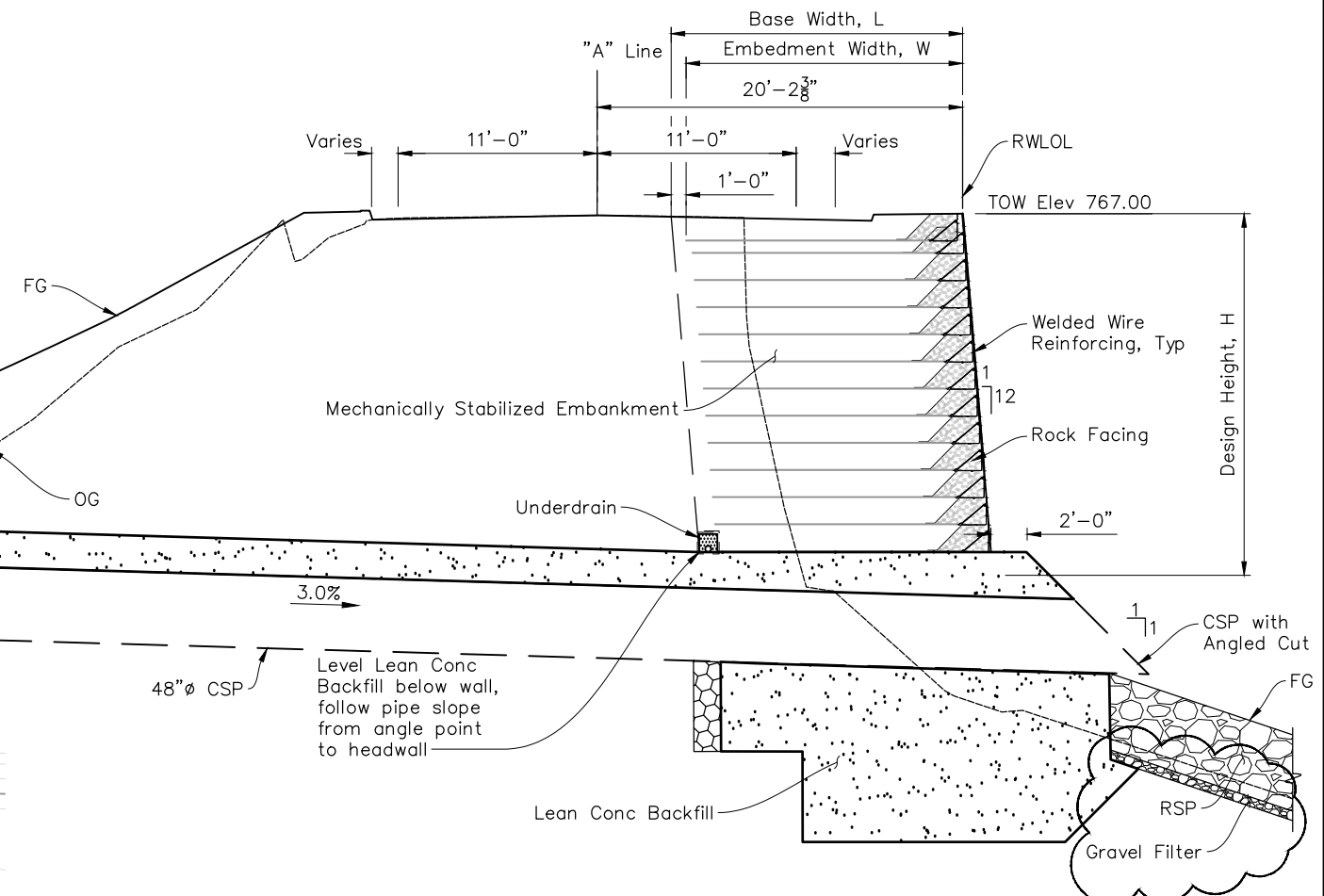
QUANTITIES

Structure Excavation	44 CY
Structure Backfill	29 CY
Lean Concrete Backfill	629 CY
Mechanically Stabilized Embankment	1516 SQFT
Temporary Shoring	1 LS
Structural Concrete, Headwall	12 CY
Bar Reinforcing Steel	2365 LB
Galvanized Debris Bollard	11 EA
Concrete (Concrete Apron)	8 CY

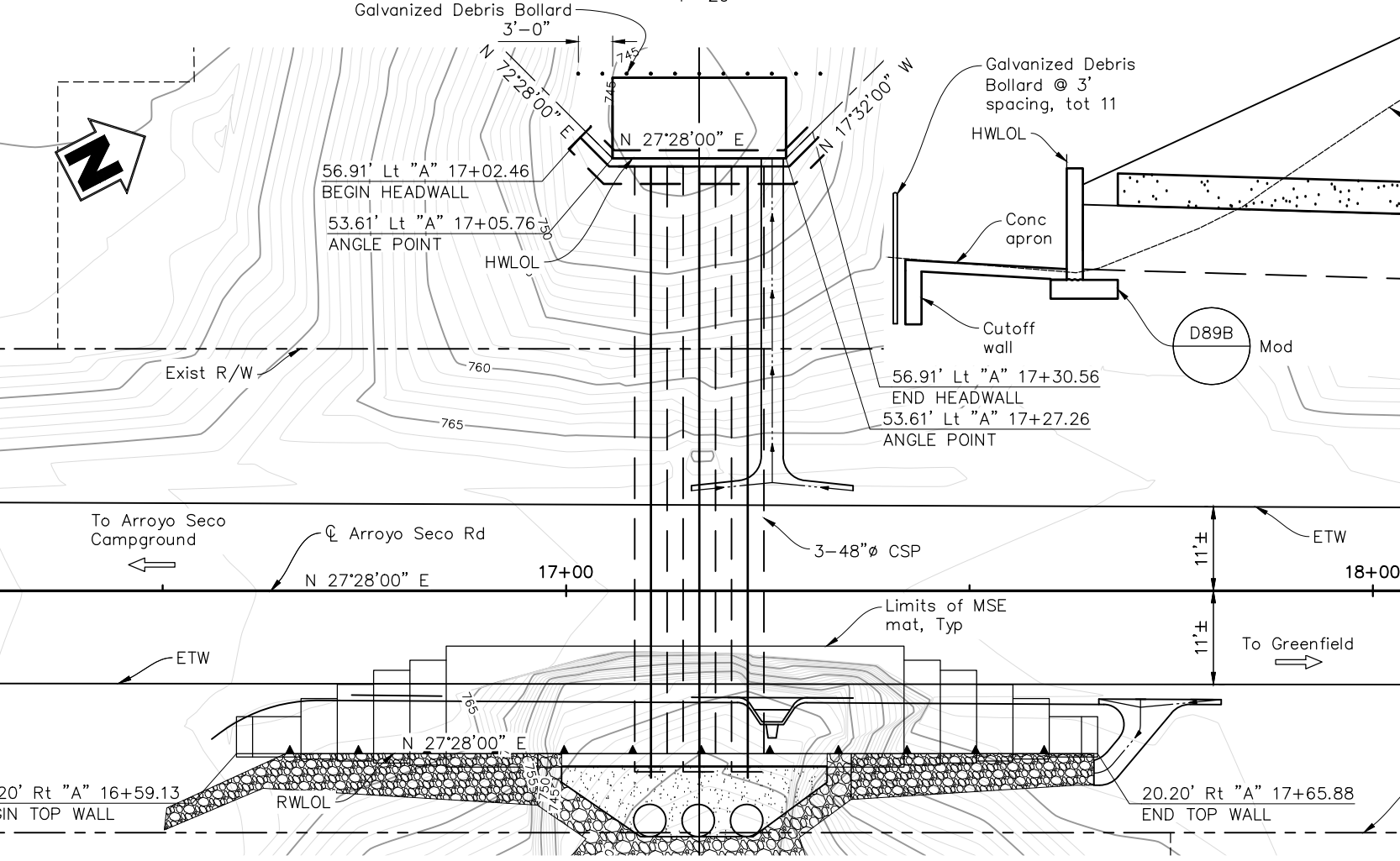
INDEX OF SHEETS	
SHEET NO.	DESCRIPTION
18	General Plan
19	MSE Wall Detail No. 1
20	MSE Wall Detail No. 2
21	Headwall Details No. 1



ELEVATION
1"=20'



TYPICAL SECTION
1"=10'



PLAN
1"=20'

NOTES:

1. Locate underdrain behind bottom level of welded wire mats at bottom step only

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	CHKD BY: I. Kotsyubuk
DESIGN BY: T. Truchement	CHKD BY: I. Kotsyubuk
DRAWN BY: T. Truchement	CHKD BY: A. Hanson
SPECIFICATIONS WRITTEN BY: J. Wilson	
Approval Recommended by: Chief of Public Works and Facilities	

consor
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RANCHO CORDOVA, CA 95670
P: 916.368.9181

REGISTERED PROFESSIONAL ENGINEER
Thomas Truchement
No. 95151
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STATE OF CALIFORNIA

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

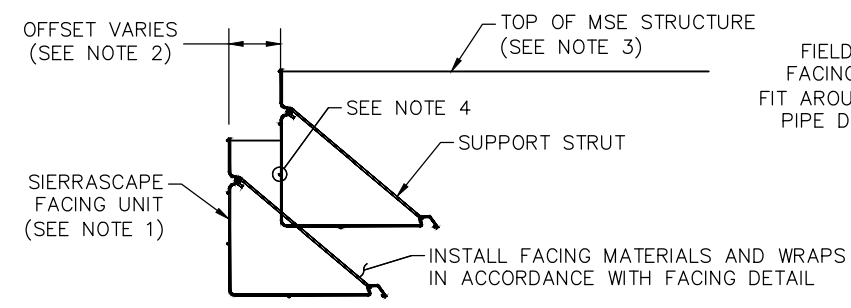


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ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT GENERAL PLAN			
DATE: 8/24/23	FILE: 21-9302_A-GP01.DWG	PROJECT NO.: 723205	SHEET: 18
SCALE: HORIZ: 1"=20'	SCALE: VERT: NTS	CONTRACT NO.: CONTRACT	OF 21 SHEETS

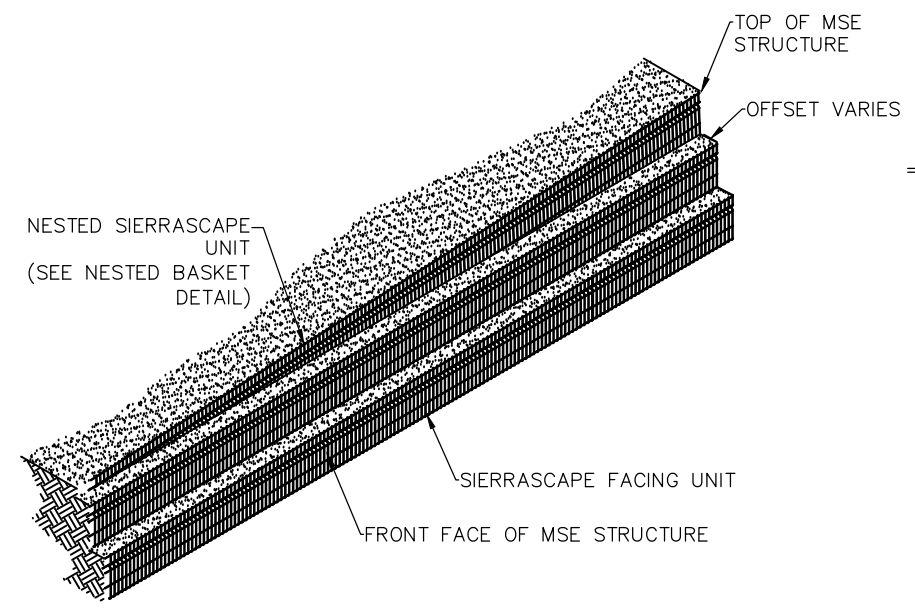
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S1



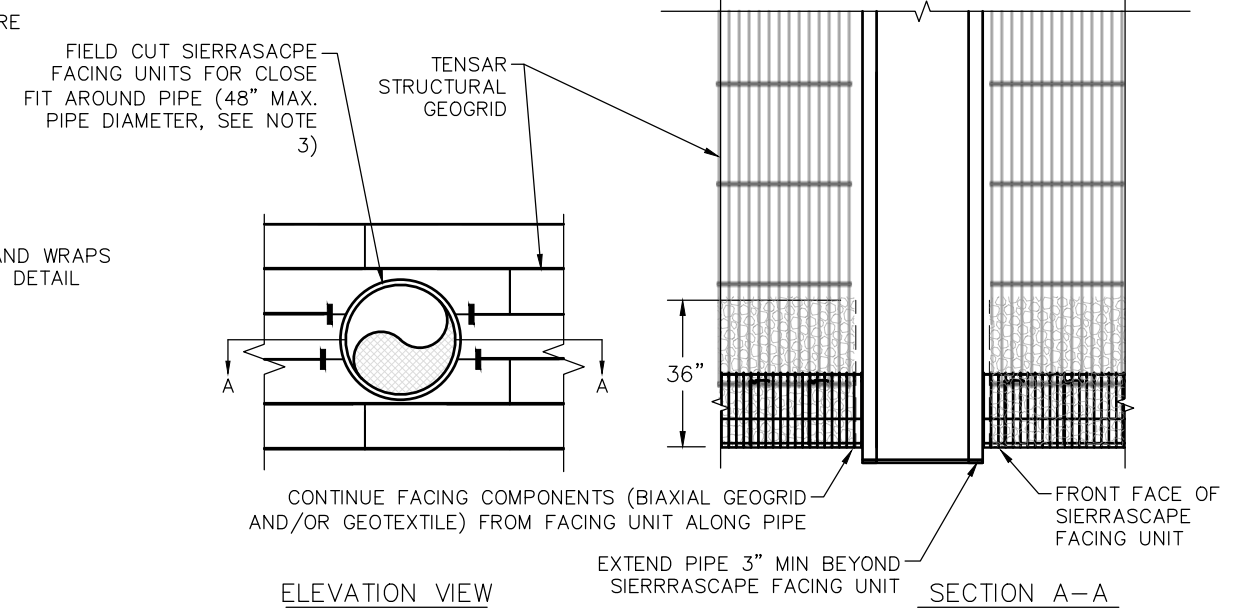
- NOTES:**
- SEE SIERRASCAPE FACING DETAIL FOR FACING MATERIALS AND DIMENSIONS.
 - OFFSET AS NEEDED TO ACHIEVE OVERALL BATTER AS SHOWN IN THE TYPICAL SECTION.
 - SET TOPMOST SIERRASCAPE FACING UNIT INSIDE SIERRASCAPE FACING UNIT BELOW TO FOLLOW GRADE.
 - HORIZONTAL WIRES OF TOPMOST SIERRASCAPE FACING UNIT MAY BE CUT TO ALLOW INSTALLATION OVER STRUTS OF SIERRASCAPE FACING UNIT BELOW.

NESTED BASKET DETAIL (OFFSET)
NOT TO SCALE



ISOMETRIC VIEW - NESTED BASKET AT TOP OF MSE STRUCTURE DETAIL (OFFSET)
NOT TO SCALE

- NOTES:**
- SEE SIERRASCAPE FACING UNIT DETAIL FOR FACING MATERIALS AND DIMENSIONS.
 - CONTRACTOR IS RESPONSIBLE TO COORDINATE THE PLACEMENT OF THE GEOGRID TO AVOID CONFLICT WITH THE CONTRACT PAVEMENT/OBSTRUCTION SECTION. GEOGRID MUST BE SEPARATED FROM THE PAVEMENT/OBSTRUCTION SECTION BY A MINIMUM OF 3".

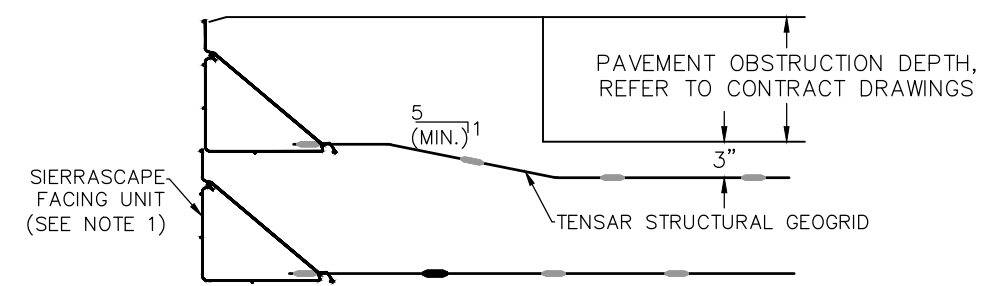


ELEVATION VIEW

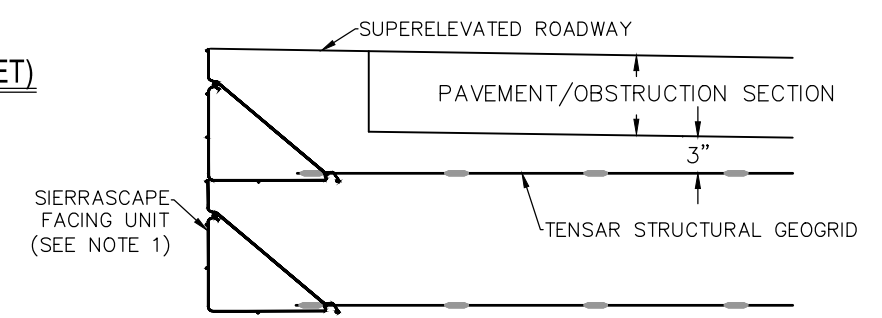
NOTES:

- SEE SIERRASCAPE FACING UNIT DETAIL FOR FACING MATERIALS AND DIMENSIONS.
- SEE ELEVATION VIEW FOR GEOGRID TYPE, LOCATION, AND DIMENSIONS.
- TERMINATE GEOGRIDS NO MORE THAN 3" FROM PIPE.
- CONTRACTOR RESPONSIBLE TO INSTALL PIPE WITH LEAK-PROOF JOINTS.

PIPE PENETRATION DETAIL AT SIERRASCAPE WALL SCOPE
NOT TO SCALE



HORIZONTAL PAVEMENT/OBSTRUCTION STRUCTURE



SUPERELEVATED PAVEMENT/OBSTRUCTION STRUCTURE

GENERAL NOTES
LOAD AND RESISTANCE FACTOR DESIGN

- DESIGN:** AASHTO LRFD Bridge Design Specifications, 8th edition and the Caltrans Amendments.
- SEISMIC DESIGN:** Caltrans Seismic Design Criteria (SDC), version 2.0, dated April 2019.
- DEAD LOAD:** Self-weight of Mechanically Stabilized Earth
- LIVE LOADING:** Traffic Surcharge = 2' of 120 PCF soil.
- SEISMIC LOADING:** Soil profile $V_{30} = 410$ m/s
Moment Magnitude $M_{max} = 6.74$
Peak Ground Acceleration = 0.42 g
 $K_h = 0.14$
- CONCRETE:** $f_y = 60,000$ psi
 $f'_c = 3,600$ psi
 $n = 8$

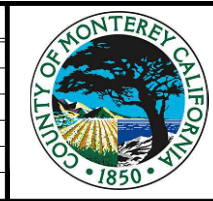
SOIL PROPERTIES AND STABILITY

- SOIL PROPERTIES:**
- Reinforced Engineered Fill:
Friction Angle, $\phi = 34^\circ$
Cohesion, $c' = 0$ psf
Unit Weight = 120 pcf
Sliding Resistance Friction Angle, $\phi_u = 38^\circ$
- Sliding resistance shall be considered at the face of the engineered fill and the reinforcements.
- Retained Fill:
Friction Angle, $\phi = 34^\circ$
Unit Weight = 120 pcf
Cohesion, $c' = 0$ psf
 $K_h = 0.14$
- Foundation:
Friction Angle, $\phi = 38^\circ$
- REQUIRED FACTORS OF SAFETY FOR REINFORCED SOIL SLOPE:**
- Surficial static slope stability = 1.3
Deep-seated landsliding = 1.5
Seismic = 1.1
- Surficial and internal stability to be designed by MSE Manufacturer.

Drawing name: S:\Client\Monterey\21-9302_B-WALLD02.dwg - cad File: 21-9302_B-WALLD02.dwg Layout: Tab: MSE WALL DETAIL NO. 2 Aug 24 2023 10:29am Mason, Domboscher

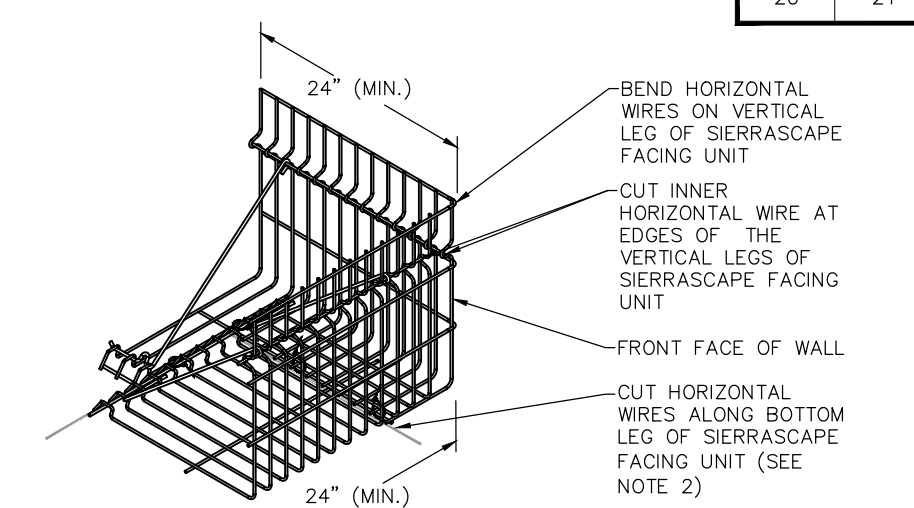
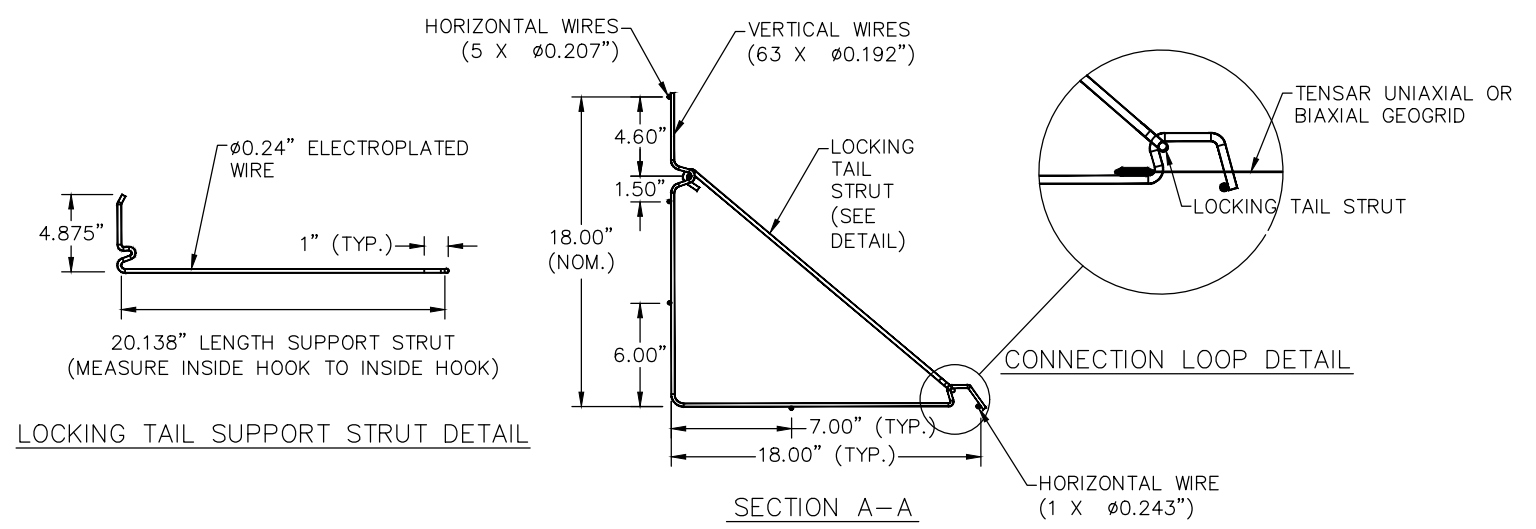
Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: T. TRUCHEMENT	CHKD BY: I. Kotsyubuk
DRAWN BY: T. TRUCHEMENT	CHKD BY: I. Kotsyubuk
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: A. Hanson
Approval Recommended by: Chief of Public Works and Facilities	

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	



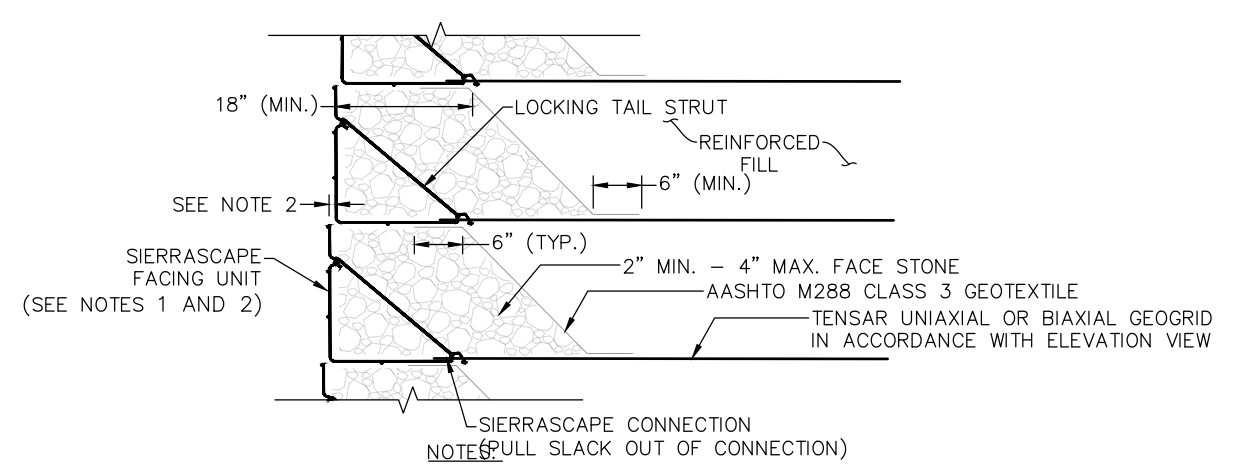
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ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT MSE WALL DETAILS NO. 1			
DATE: 8/24/23	FILE: 21-9302_B-WALLD02.DWG	PROJECT NO.: 723205	SHEET: 19
SCALE: HORIZ. SCALE		CONTRACT NO.:	OF 21 SHEETS
VERT. VERTISCALE		CONTRACT:	



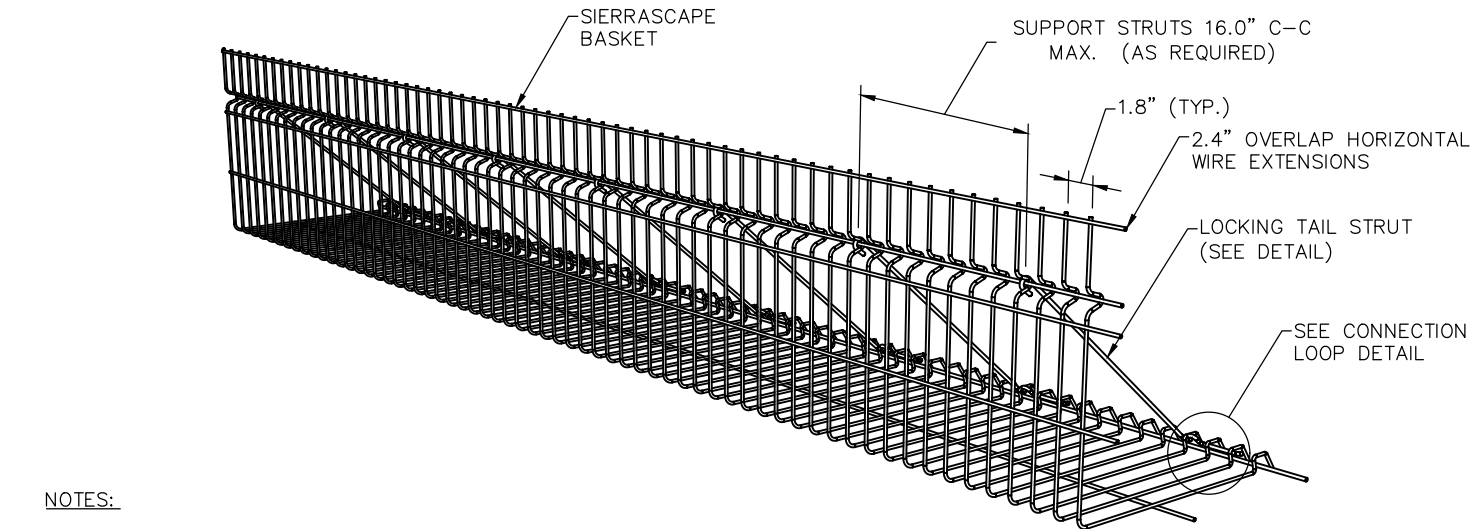
- NOTE:
- SEE SIERRASCAPE FACING UNIT DETAIL FOR FACING MATERIALS AND DIMENSIONS.
 - CUT BOTTOM LEG FROM CONNECTION LOOPS TO SECOND HORIZONTAL WIRE TO ALLOW UNCUT LEG TO OVERLAP WHEN BENDING. SECURE WITH HOG WIRE OR ZIP TIE.

SIERRASCAPE OUTSIDE CORNER UNIT
NOT TO SCALE

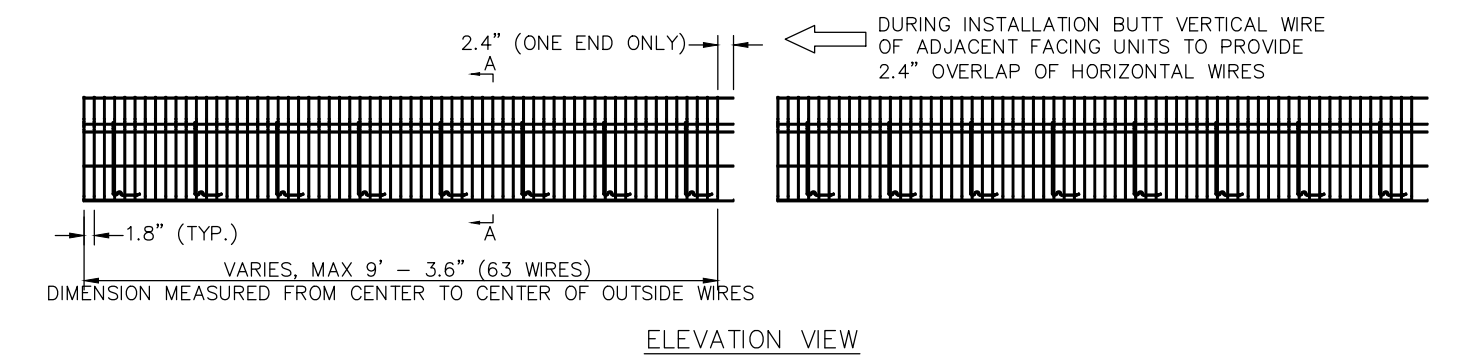


- NOTE: (PULL SLACK OUT OF CONNECTION)
- SEE SIERRASCAPE FACING UNIT DETAIL FOR FACING MATERIAL AND DIMENSIONS.
 - OFFSET AS NEEDED TO ACHIEVE OVERALL BATTER AS SHOWN IN THE TYPICAL SECTION.
 - OPTIONAL - A THIN LAYER (2" MIN.) OF FINER STONE (1/4"-1") MAY BE PLACED AT THE TOP OF EACH UNIT TO PROVIDE A LEVEL SURFACE FOR THE UNIT ABOVE.

SIERRASCAPE STONE FACING DETAIL
NOT TO SCALE



- NOTES:
- ALL FACING UNITS SHALL BE GALVANIZED PER ASTM A123 AFTER BENDING
 - OVERALL LENGTH OF WIRE FORMS IS 9' - 6 1/2" (114.5"). EFFECTIVE CONSTRUCTION WIDTH IS 9' - 3.6" WITH 2.4" OVERLAPPING AT ENDS.



SIERRASCAPE FACING UNIT
NOT TO SCALE

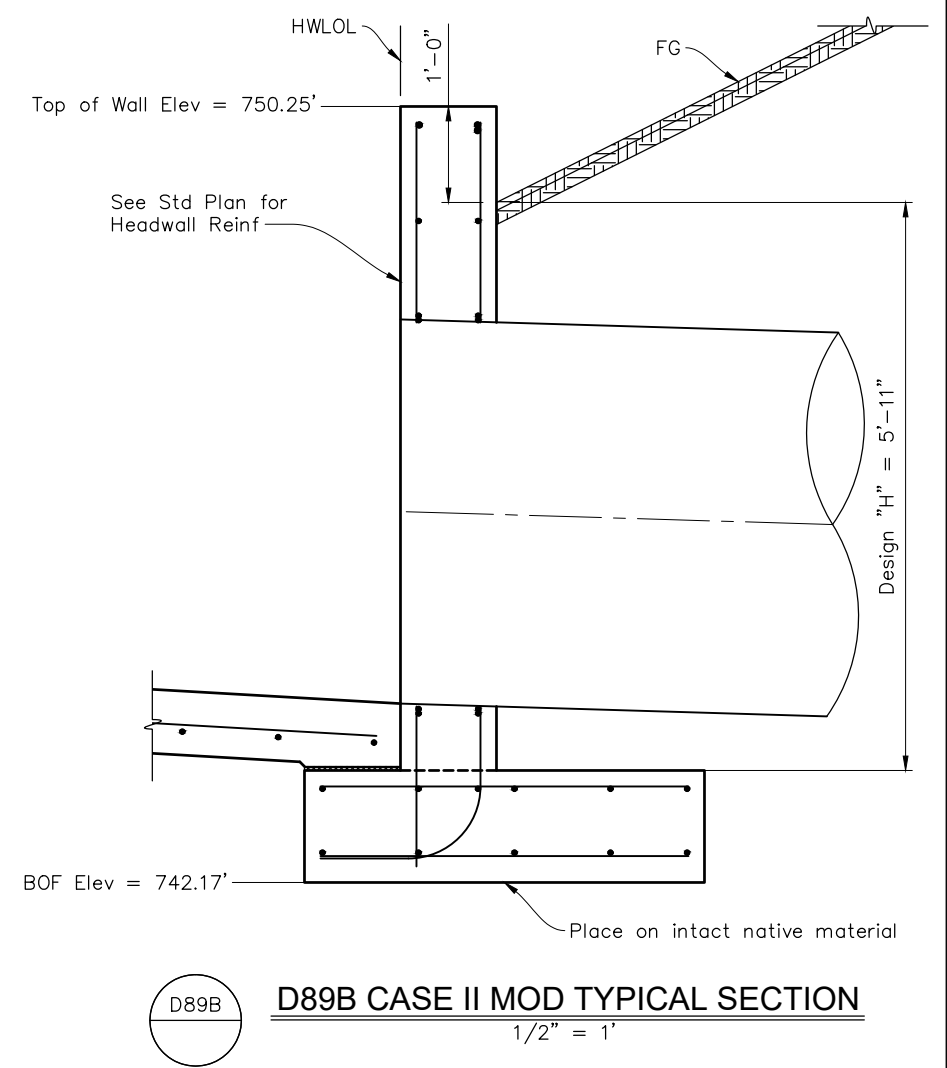
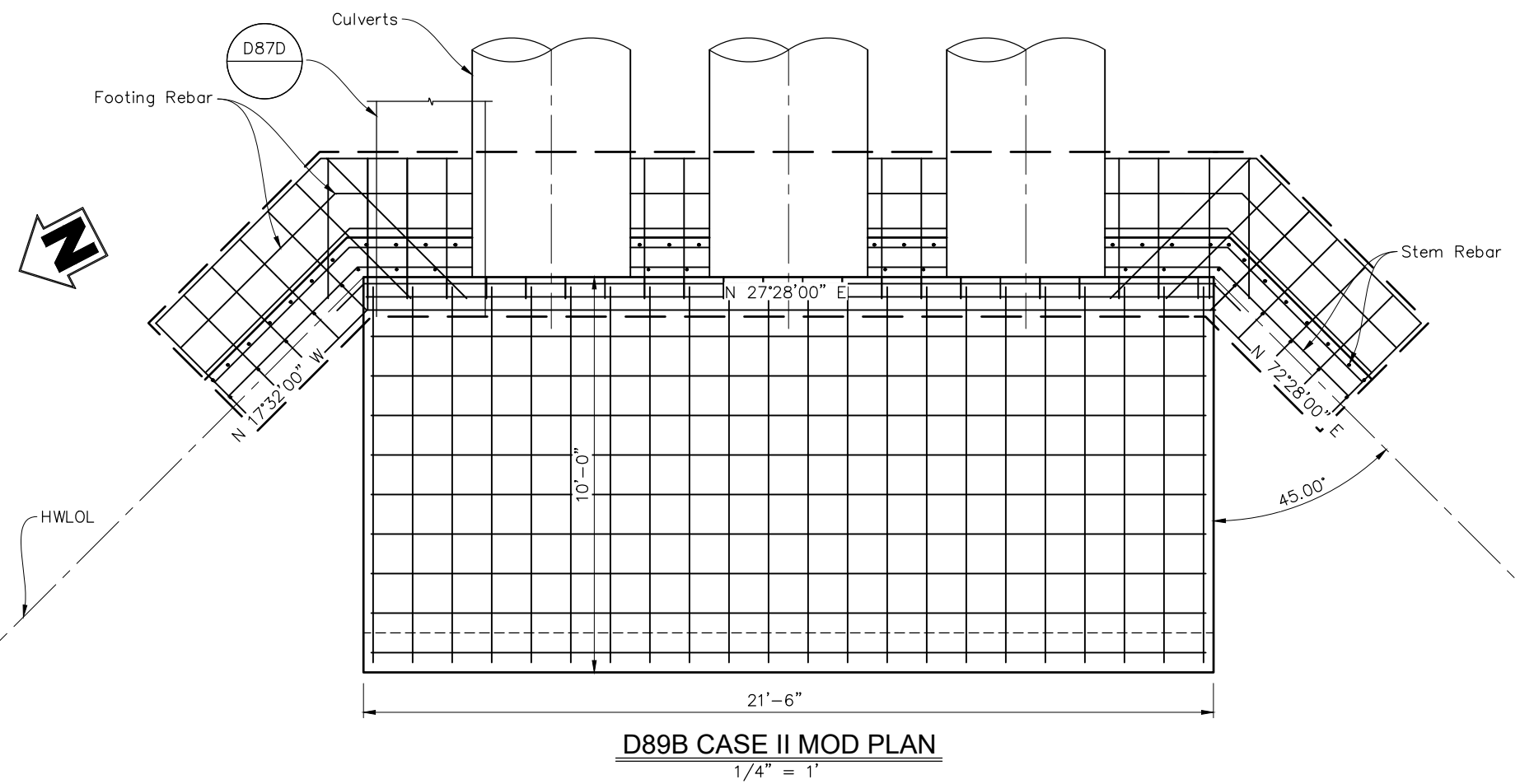
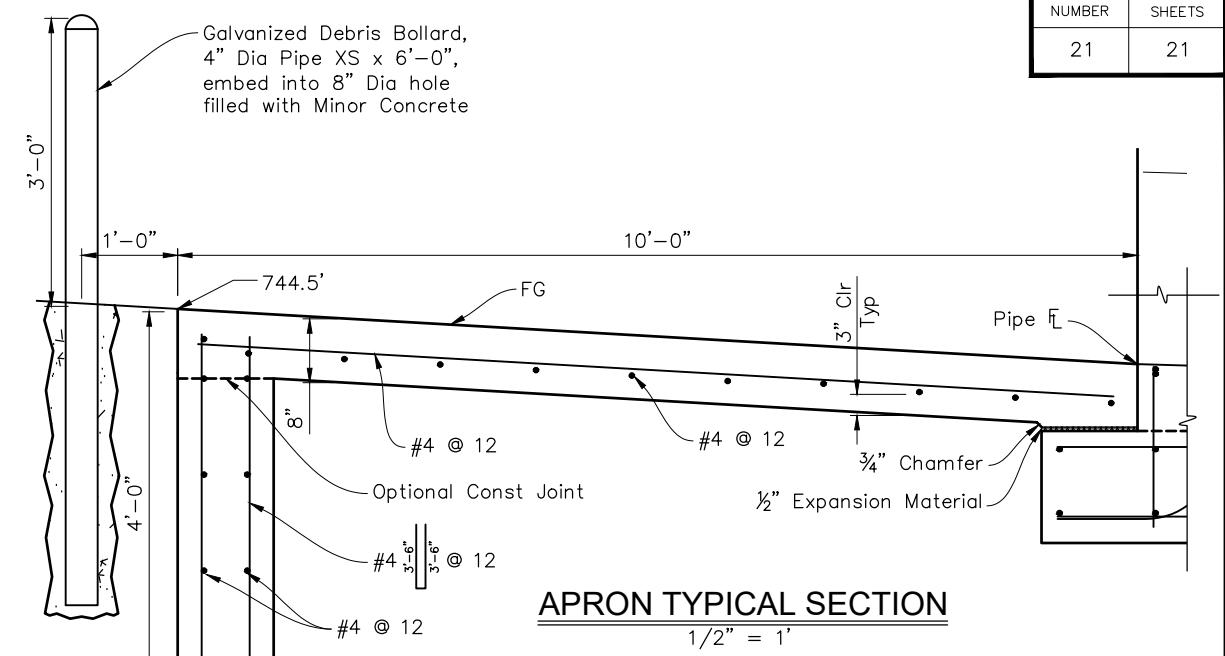
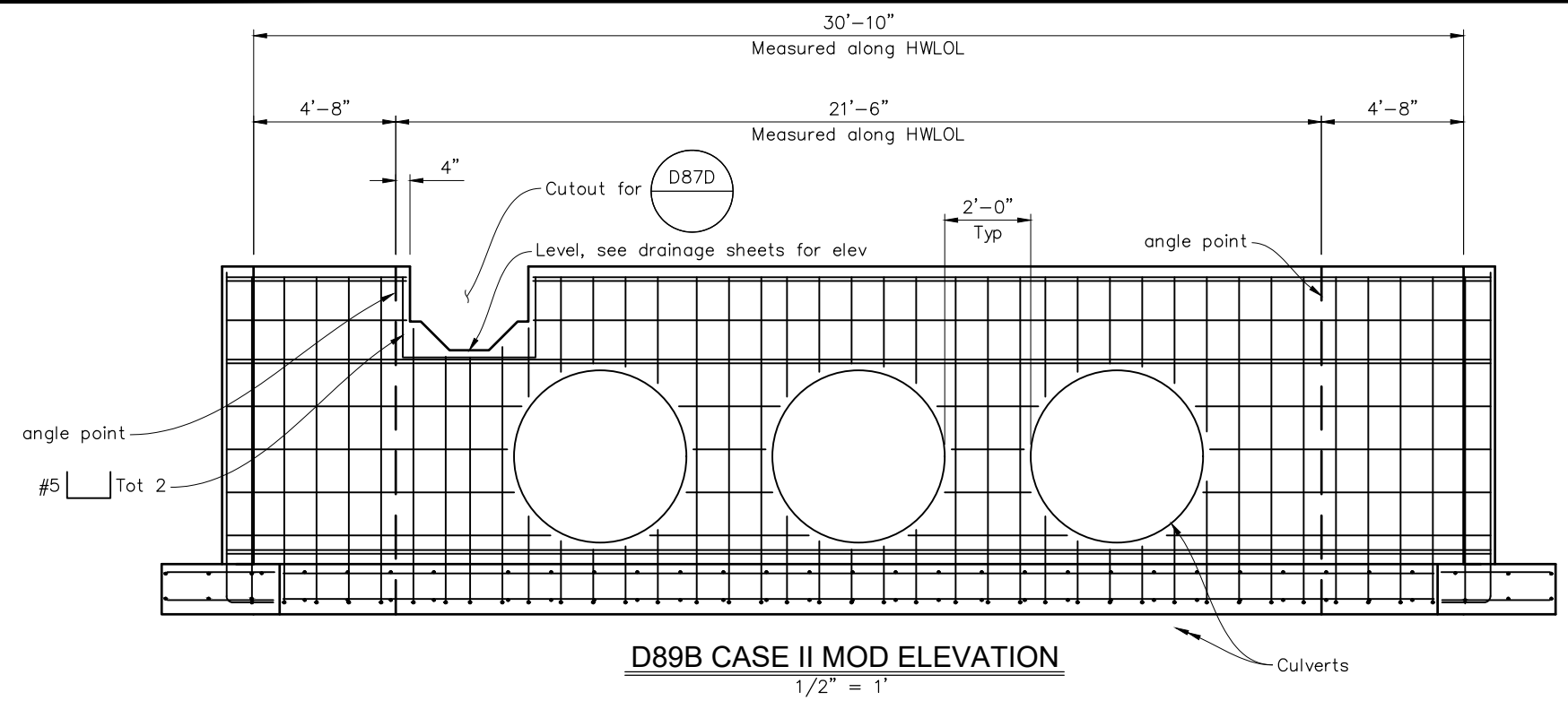
Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: T. TRUCHEMENT	CHKD BY: I. Kotsyubuk
DRAWN BY: T. TRUCHEMENT	CHKD BY: I. Kotsyubuk
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: A. Hanson
Approval Recommended by: Chief of Public Works and Facilities	

NO.	DATE	REVISION DESCRIPTION	APPROVED
1	8/18/23	UPDATED QUANTITIES ON SHEET 17	
2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT MSE WALL DETAILS NO. 2			
DATE: 8/24/23	FILE: 21-9302_B-WALLDT01.DWG	PROJECT NO.: 723205	SHEET: 20
SCALE: HORIZ: SCALE		CONTRACT NO.: CONTRACT	OF 21 SHEETS

Drawing name: S:\Client\Monterey\21-9302_B-WALLDT01.dwg Layout Tab: MSE WALL DETAIL NO. 1 Aug 24 2023 10:29am Mason,Dombocher

SHEET NUMBER	TOTAL SHEETS
21	21



Drawing name: S:\Client\Monterey\219302\21-9302-C-DET03.dwg - cad files\21-9302-C-DET03.dwg - Layout Tab: Headwall Details No. 1 - Aug 24, 2023 - 10:30am Mason.Dambacher

Submitted by: Robert Ferguson Project Engineer C.E. No. C77731	
DESIGN BY: T. Truchement	CHKD BY: I. Kotsyubuk
DRAWN BY: T. Truchement	CHKD BY: I. Kotsyubuk
SPECIFICATIONS WRITTEN BY: J. Wilson	CHKD BY: A. Hanson
Approval Recommended by: _____ Chief of Public Works and Facilities	

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REGISTERED PROFESSIONAL ENGINEER
Thomas Truchement
No. 95151
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STATE OF CALIFORNIA

NO.	DATE	REVISION DESCRIPTION	APPROVED
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2	8/23/23	VARIOUS CLOUDED PLAN CHANGES	

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ARROYO SECO ROAD MP 2.5 STORM DAMAGE REPAIR PROJECT HEADWALL DETAILS NO. 1			
DATE 8/24/23	FILE 21-9302_C-DET03.DWG	PROJECT NO. 723205	SHEET 21
SCALE: HORIZ: SCALE VERT: VERTSCALE		CONTRACT NO. CONTRACT	OF 21 SHEETS

S4