

**RADIO VAULT SPACE APPLICATION****Non-State Users****TD 312 (Rev. 10/13)****TD-312: GENERAL INFORMATION & INSTRUCTIONS**

The State of California owns and or operates telecommunications facilities at numerous locations throughout the State for use by State agencies requiring radio communications. Space at these facilities is made available to other than State of California users when it is surplus to the State's requirements

The State must review, manage and engineer any proposed installations. Once a new, renewal or modification TD-312 application has been received by CAL FIRE and is reviewed administratively, it is forwarded to the Public Safety Communications Office (PSCO) for technical analysis. A study will be performed to determine the impact of the application on the existing users at the site. Based on the study, the technical analysis will include specific recommendations to CAL FIRE. If serious technical difficulties are found and cannot be remedied, -PSCO will recommend to CAL FIRE to cancel the TD-312 application. Should this occur, CAL FIRE will compare the amount of work performed by the state to the application fee paid. If warranted, state will issue a partial refund.

In cooperation with the applicant, the State will attempt to meet all users' operational requirements.

**Any subsequent labor time or material costs required for site engineering, antenna or combining system upgrades, or technician labor will be borne by the applicant at the PSCO current rates.**

Applicants will be notified by CAL FIRE of the amount due prior to work being performed. No further processing of the application will take place until a written approval of these expenses, and payment, is received from the applicant.

**NOTE:** Modification of site-master antenna or combining systems may NOT be done by a tenant. Such modifications must be designed by -PSCO engineering and installed by PSCO-approved technician resources.

**PRIOR TO ADDITION OR DELETION** of any transmitting or receiving frequencies, antennas or equipment, submittal of this application and all related fees is required for **ALL** non-State users (*including new, pending, previous and current tenancy/occupancy*). Approval is required by CAL FIRE **prior** to the proposed changes taking place in the facility

After filling out the attached application, sign the form on Page 6, and include the appropriate application fee. The following checklist will assist you in submitting all required items:

**COMPLETE AND SIGNED APPLICATION**

- Applicant SIGNATURE on Page 7  
(page 8 is the first page of the technical application, pages 1-5 contain instructions and restrictions)
- Pages 6 – 7, Request and Contact Info
- Pages 8 – 10, Technical Data sheets
- Attach additional information sheets as needed

**REQUIRED FEES** technical analysis fee is required with TD-312 submittal.

- CATEGORY: 2-way RF, Telemetry**  \$2,500 Technical Analysis
- CATEGORY: Commercial Cellular, Wireless Internet, Broadcasters, Microwave**  \$5,000 Technical Analysis

**LEASE SERVICES REQUIRED**

- New Lease
- Renewal
- Amendment

**LEASE DOCUMENT REQUESTED**

- Tower and Vault
- Tower
- Vault
- Ground Lease
- Other \_\_\_\_\_

**TRANSMITTAL**

Deliver **completed and signed** application with application fee to:

California Department of Forestry and Fire Protection  
Technical Services Section, Towers and Vaults Unit  
Attn: LORINA PISI  
P.O. Box 944246  
Sacramento, CA 94244-2460

Make checks payable to:  
California Department of Forestry and Fire Protection

All requested information must be supplied to have this application processed. Failure to do so will result in the application being returned for resubmission, complete with an additional non-refundable application fee. Processing time will also be delayed accordingly.

Please attach separate sheets for any remarks or special comments required.

### **CAL FIRE TELECOMMUNICATION LEASING POLICY**

#### **Space Availability**

As space is often limited at these facilities, State of California agencies are always given first priority. Non-state applicants will be considered in the following order:

1. Public Emergency Services Providers
2. Non-state governmental entities
3. Public utilities
4. Private sector

#### **Application Fees**

Application fees for standard processing costs appear in the checklist on page 1 for each type of user. If any unusual additional costs are identified, such as the need for on-site testing, pre-payment will be required.

#### **Lease Rates**

The California Constitution prohibits the gift of state funds, therefore, unless a radio vault lease is for public emergency services, lease rates will be established based on current market rates determined by the Real Property Services Section (RPSS) of the California Department of General Services (DGS). The lease format will be the RPSS/CAL FIRE standard telecommunication lease.

#### **Facility Upgrades**

It shall be understood by all applicants that the State is NOT obligated to upgrade any facility to accommodate any lessee. Any improvement required prior to the entry shall be the sole financial responsibility of the lessee. The lessee shall be notified in writing of the upgrades required to accommodate their installation, and payment for these upgrades must be arranged prior to the installation of any such equipment. Any said improvements, including the installation or modification of site-master antenna, combining or power systems, shall remain the property of the State agency unless otherwise stipulated in the lease. **NOTE:** This excludes the actual radio transmitting and receiving equipment, as well as individual antennas installed for the sole use of the lessee and not part of a master-site arrangement.

The TD-312 application consists of "Application" sheets and "Technical Data" sheets. Please complete, sign, and return the Application and Technical Data sheets to make a formal application. Please note for **New Applicants** that the information on the "Technical Data Sheets" shall reflect what the applicant desires to install at the facility. For **Existing Tenants**, that the information on the "Technical Data Sheets" shall reflect the tenants installed equipment and equipment changes (new installations, removals, etc.). Upon completion of engineering analysis of the application, the tenant's actual installation requirements may require some design changes to ensure the integrity of the State's telecommunications operational requirements. This required design criteria will be outlined in writing and incorporated as a condition of the lease agreement.

**TECHNICAL REQUIREMENTS FOR STATE-CONTROLLED SITES**

The following are the maximum radio frequency power outputs for radio equipment in State-controlled facilities:

<b>RADIO SERVICE</b>	<b>FREQUENCY RANGE</b>	<b>MAXIMUM TRANSMITTER POWER OUTPUT TO ANTENNA</b>
<b>FM Broadcast</b>	88-108 MHz	500 watts
<b>Television Broadcast</b>	54-72 MHz, 76-88 MHz, 174-216 MHz, 470-806 MHz	500 watts
<b>AM Broadcast</b>	535-1705 kHz	10 watts
<b>VHF Low Band</b>	28-54 MHz	120 watts
<b>VHF Mid Band</b>	72-76 MHz	50 watts
<b>VHF High Band</b>	136-174 MHz	150 watts
<b>UHF Band</b>	406-512 MHz	150 watts
<b>800/900 Band</b>	806-952 MHz	125 watts
<b>Microwave</b>	952-960 MHz	20 watts
<b>Microwave</b>	1850-6875 MHz	20 watts
<b>Microwave</b>	6875-40,000 MHz	10 watts

The following additional standards must be adhered to for any installation at a State-controlled site:

1. Each transmitter at the site must be identified with an approved and completed "FCC ID tag" along with the name and phone number of the person responsible for the operation of that transmitter.
2. Control stations and "inverted pairs" on FCC-designated repeater channels will generally not be allowed at a site.
3. Only FCC type-accepted transmitters, designed for use in a high-RF, multi-user environment will be allowed to be installed at a site. All equipment shall be installed and operated in accordance with the site lessor's authorization and approval.
4. Transmitters and receivers will be combined and/or multi-coupled to the maximum extent possible, consistent with the specific system performance requirements of the lessee. A one-time "site assessment" cost may be incurred.
5. All systems NOT connected to the lessor's combining network must be installed to comply with site standards, require lessor's prior engineering approval and meet the following minimum requirements:
  - a) Each transmitter shall have a protective isolator, harmonic filter and band-pass cavity (BPC) which meets the minimum attenuation levels listed in Table I. The isolator and harmonic filter shall precede the BPC in the transmit path;
  - b) Notch-type duplexers must include a BPC meeting the requirements in Table I in the transmit leg prior to the duplexer input port;
  - c) Additional filters, BPC's, isolators and other hardware may be required at the lessee's expense to correct site problems as a result of the lessee's installation;
  - d) RF cabling between pieces of equipment within a rack shall be of double-shielded or solid outer conductor variety, such as RG-214, RG-142 or RG-400 cables. NOTE: In general, cabling supplied within a manufacturer's piece of equipment is sufficient to meet this requirement. In some circumstances, however, it may become necessary to modify the equipment to meet the special needs of the site;



- e) RF cabling between racks of equipment in a vault, including cables to and from combining equipment and antenna feedthrough ports, shall be of the solid outer conductor variety. In general, all receive lines within the vault shall be 1/4" diameter, such as Andrews FSJ1-50B or equivalent; all transmit lines within the vault shall be 1/2" diameter, such as Andrews FSJ4-50B or equivalent. All feedlines outside the vault, such as between the antenna pigtail and the lightning arrestor plate, shall be at least 1/2" diameter solid-shield cable equivalent to Andrews LDF4-50A HELIAX;
- f) RF connectors on transmit cables shall be Type "N" wherever possible unless the particular piece of manufacturer's equipment has another type of connector installed. RF connectors on receive cables MAY be Type "BNC", although Type "N" is highly recommended. Again, if the manufacturer's equipment has another type of connector installed, this type of connector is acceptable for that junction;
- g) Tiewraps designed for external use, such as the Panduit "76" series TEFZEL cable tie, or another insulated clamp or strap shall be used to secure transmission lines to towers and/or cable ladders. Rubber "donut"-type hangers such as those manufactured by Microflect are also acceptable to be used to secure transmission lines. **Metal clamps, "wraplock", "Band-It" ties, or similar metal strapping for attaching feedlines to a mounting structure is prohibited at State facilities.** If the facility has a wood-pole structure for mounting antennas, the use of utility pipe clamps or conduit clamps is permitted for fastening the feedline to the structure;
- h) State telecommunications facilities are generally designed to accommodate equipment housed in 7'6" tall open frame relay racks, such as the Chatsworth model 46050-505 rack. Racks shall be fastened to the floor with an approved anchor, and connected to an overhead cable tray via an approved method, such as via a length of Chatsworth 11450-001 framing channel and using "J-bolt" kits. A rack elevation diagram is attached to illustrate how equipment will be housed in the 7'6" rack. Complete/return this diagram with the application form;
- i) Most State telecommunications sites have extensive lightning and surge protection systems installed, including lightning arrestor mounting panels. All transmission lines must enter and exit the vault via one of these entry panels using the approved method outlined in the technical requirements of the lease document;
- j) All equipment installed in a State telecommunication site must be connected to the site's ground system. Generally, a ground pigtail will be supplied in the cable tray above the equipment rack. All connections to the ground system must be made via compression fittings or bolted joints. "Split-bolt" connectors are unacceptable as junctions;
- k) All antenna mounts shall be hot-dip-galvanized, and all mounting hardware shall be either hot-dip-galvanized or stainless-steel. Electro-galvanized or plated material for mounting of antennas is not permissible. The use of aluminum for mounting cross-arms or cross-over plates is allowed. At sites where wood pole structures are used, it is not permitted to drill holes through the poles to mount antennas or cross-arms. The only acceptable method of mounting an antenna to such a structure is via a "collar" that clamps around the entire circumference of the pole, sandwiching the pole inside. Such a collar must also be hot-dip-galvanized in construction and use galvanized or stainless-steel hardware.

**TABLE ONE**

<b>FREQUENCY BAND</b>	<b>ISOLATOR REVERSE ISOLATION</b>	<b>BPC ATTENUATION AT FREQUENCY FROM CARRIER</b>
<b>28-54 MHz</b>	15 dB	20 dB at $\pm$ 500 kHz
<b>72-76 MHz</b>	25 dB	20 dB at $\pm$ 600 kHz
<b>136-174 MHz</b>	50 dB	25 dB at $\pm$ 200 kHz
<b>406-470 MHz</b>	50 dB	15 dB at $\pm$ 1 MHz
<b>806-952 MHz</b>	50 dB	20 dB at $\pm$ 2 MHz

Application Sheets are used to gather the appropriate administrative information to process the TD-312. These sheets must be completed, signed and accompanied with the Technical Data Sheets.

Applicant: **County of Monterey**  
 (organization name)  
**1590 Moffett Street**  
 (address)  
**Salinas, CA, 93905**  
 (city, state, zip)  
**831-796-1463**  
 (telephone number)  
**PaxtonS@co.monterey.ca.us**  
 (email address)

In accordance with the attached Technical Data Sheet(s), application is hereby made to:

- Establish New Lease
- Modify/Amend Lease (describe specific changes):  
 (attach additional sheet if more space is required)

Upgrade existing Microwave system to King City. Replace existing rectifier and battery bank. Install new Microwave system to Pinball. Obtain rack space #23 for site monitoring equipment \_\_\_\_\_

- Renew lease with modification as stated:  
 (attach additional sheet if more space is required)

\_\_\_\_\_

- Renew lease (no changes, technical sheets must be completed)
- Lease \_\_\_\_\_ square feet

For vault space and related antenna space at **Calandra Lookout Monterey County (Williams)**

\_\_\_\_\_ (site name)

Power requirements for operations of communications equipment are:

- Commercial and emergency power
- Commercial power only
- No power required.

**NOTE:** Some radio vault facilities provide commercial and emergency power to each rack space without exception, and the tenant will be charged accordingly.

**Person responsible for lease negotiations and submission of this application:**

**Steve Paxton**

(name)

**1590 Moffett Street**

(address)

**Salinas, CA, 93905**

(city, state, zip)

**831-796-1463**

(telephone number)

**PaxtonS@co.monterey.ca.us**

(email address)

**Billing Information:**

Applicant: **Kathy Wells, ITD Finance Manager**

(name)

**1590 Moffett Street**

(address)

**Salinas, CA, 93905**

(city, state, zip)

**831-796-1490**

(telephone number)

**wellska@co.monterey.ca.us**

(email address)

It is understood that if any subsequent on-site testing is required, it will be charged to the lessee at the current rate determined by the State. In addition, any required engineering or technician labor charges or parts procurement expenses, plus a program management fee, will be re-billed to the lessee at the current rates being charged by the State. Prior to these charges being incurred, a written estimate and acceptance document will be forwarded to the applicant for review and signature.

Applicant: \_\_\_\_\_  
By: \_\_\_\_\_  
Title: \_\_\_\_\_  
Date: \_\_\_\_\_

Receipt of a non-refundable application fee in the amount of \$\_\_\_\_\_ is hereby acknowledged.

STATE OF CALIFORNIA

\_\_\_\_\_  
By: \_\_\_\_\_  
Date: \_\_\_\_\_

NOTE: A fee will be required when this agreement is renewed for a new term or when changes are made to an existing agreement and the preparation of a new lease agreement is required.

**TECHNICAL DATA SHEETS**

Data submitted on the Technical Data Sheets is used by the PSCO engineers to perform a study to determine the impact of the application on the existing users at the site. Please complete these sheets in its entirety and provide required information. Existing tenants must reflect the tenants installed equipment and equipment changes (new installations, removals, etc.).

Site Name: Calandra Lookout  
 County: Monterey

Date: February 16, 2021

The following technical data is submitted in conjunction with a request for vault space.

**If this is a land lease application for Cellular, applicant must provide plot plans, construction drawings and a written description of proposed land use.**

Person responsible for technical operation of this station (person who can provide technical details):

**Brian Landacre**  
 (name)  
**855 East Laurel Drive Building D**  
 (address)  
**Salinas, CA, 93905**  
 (city, state, zip)  
**831-796-1262**  
 (telephone number)

Date equipment desired to be in operation: **June 1, 2021**

(It should be noted that, due to engineering priorities, this application may require up to one (1) full year to process.)

Equipment is to operate in the **Part 101** Radio Service.

FCC callsign of this installation: **WQNP858**. (Include a copy of the FCC license)

Type of operation:  Base Station  Mobile Relay  Microwave Station  
 Other

Amount of rack space required to house equipment (in inches): **84 inches or 1 rack**

**(NOTE: Unless otherwise authorized, all electronic equipment is to be mounted in 7'6" aluminum open-frame relay racks and fastened to the site's earthquake bracing and cable ladder system. One rack occupies 2' by 2' of floor space.)**

Additional space desired to mount cavities, duplexers, batteries, etc.:

Wall Space  Floor Space \_\_\_\_\_ (HxWxD, inches)  
 Rack Space  Additional space not required

Space for battery facilities required, if any, including charger:

Wall Space  Floor Space \_\_\_\_\_ (HxWxD, inches)  
 Radio Rack  Not required

Maximum power consumption: TRANSMIT: 600 Watts RECEIVE: 400 Watts at

Voltage:  110 Volts AC  12 volts DC  48 volts DC  
 Other **Add 3- 30 amp circuits AC panel AM**



**EQUIPMENT DATA**

New Tenant: Provide data for each piece of equipment to be installed in each vault space and identify as **New (N)**.

Existing Tenant: Provide data for each piece of equipment currently installed and identify as **Existing (E)**. If adding or removing equipment; identify the appropriate action **New (N)**, **Removing (R)**.

**FREQUENCY INFORMATION: CELLULAR APPLICANTS MUST PROVIDE SPECIFIC CHANNELS TO BE USED (NOT THE BAND). IF SPECIFIC FREQUENCIES HAVE NOT BEEN PROVIDED THE APPLICATION WILL BE RETURNED.**

Be sure to include a system block diagram on the page furnished for that purpose. Duplicate this page as required to show all equipment desired to be installed:

**TRANSMITTER #1**                      **Power output 500 W**

Frequency(s) 770.11875	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 1 700 MHz System</b>	E

**RECEIVER #1**

Frequency(s) 800.11875	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 1 700 MHz System</b>	E

**TRANSMITTER #2**                      **Power output 500 W**

Frequency(s) 771.13125	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 2 700 MHz System</b>	E

**RECEIVER #2**

Frequency(s) 801.13125	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 2 700 MHz System</b>	E

**TRANSMITTER #3**                      **Power output 500 W**

Frequency(s) 771.83125	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 3 700 MHz System</b>	E

**RECEIVER #3**

Frequency(s) 801.83125	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 3 700 MHz System</b>	E

**TRANSMITTER #4**                      **Power output 500 W**

Frequency(s) 773.68125	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 4 700 MHz System</b>	E

**RECEIVER #4**

Frequency(s) 803.68125	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master V Chan 4 700 MHz System</b>	E

**TRANSMITTER #5**                      **Power output 50 W**

Frequency(s) <b>859.9625</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Tait TB8100 Data Channel 800 MHz system</b>	E

**RECEIVER #5**

Frequency(s) <b>814.9625</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Tait TB8100 Data Channel 800 MHz system</b>	E

**TRANSMITTER #6**                      **Power output 50 W**

Frequency(s) <b>857.5125</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola Quantar Voice Channel 800 MHz System</b>	E

**RECEIVER #6**

Frequency(s) <b>812.5125</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola Quantar Voice Channel 800 MHz System</b>	E

**TRANSMITTER #7**                      **Power output 10 W**

Frequency(s) <b>453.2375</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III Link to Table Mountain</b>	E

**RECEIVER #7**

Frequency(s) <b>458.2375</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III Link to Table Mountain</b>	E

**TRANSMITTER #8**                      **Power output 10 W**

Frequency(s) <b>453.1000</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III Link to Anderson Peak</b>	E

**RECEIVER #8**

Frequency(s) <b>458.1000</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III Link to Anderson Peak</b>	E

**TRANSMITTER #9**                      **Power output 100 W**

Frequency(s) <b>154.0250</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III VHF Law Analog Channel</b>	E

**RECEIVER #9**

Frequency(s) <b>159.0900</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III VHF Law Analog Channel</b>	E

**TRANSMITTER #10**                      **Power output 100 W**

Frequency(s) <b>155.6250</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III VHF Fire Analog Channel</b>	E

**RECEIVER #10**

Frequency(s) <b>158.8500</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Harris Master III VHF Fire Analog Channel</b>	E

**TRANSMITTER #11**                      **Power output 100 W**

Frequency(s) <b>150.9950</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola Quantar Public Works</b>	E

**RECEIVER #11**

Frequency(s) <b>155.2950</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola Quantar Public Works</b>	E

**TRANSMITTER #12**                      **Power output 100 W**

Frequency(s) <b>463.1000</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola Quantar Med 5 Channel</b>	E

**RECEIVER #12**

Frequency(s) <b>468.1000</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola Quantar Med 5 Channel</b>	E

**TRANSMITTER #13**                      **Power output 113 W**

Frequency(s) <b>170.2625</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>High Sierra MCWRA Alert 2 Rain Data System</b>	E

**RECEIVER #13**

Frequency(s) <b>170.2625</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>High Sierra MCWRA Alert 2 Rain Data System</b>	E

**TRANSMITTER #14**                      **Power output 10 W**

Frequency(s) <b>453.6375</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola MTR3000 RF link to Pinball</b>	E

**RECEIVER #14**

Frequency(s) <b>458.6375</b>	Existing (E) Removing (R) New (N)
Make and Model: <b>Motorola MTR3000 RF link to Pinball</b>	E

**TRANSMITTER #15**                      **Power output 10 mW**

Frequency(s) 6625.0000	Existing (E) Removing (R) New (N)
Make and Model: <b>Aviat IRU600 Microwave to King City</b>	R

**RECEIVER #15**

Frequency(s) 6725.0000	Existing (E) Removing (R) New (N)
Make and Model: <b>Aviat IRU600 Microwave to King City</b>	R

**TRANSMITTER #16**                      **Power output 7 W**

Frequency(s) 6625.0000	Existing (E) Removing (R) New (N)
Make and Model: <b>Aviat IRU600 Microwave to King City</b>	N

**RECEIVER #16**

Frequency(s) 6785.0000	Existing (E) Removing (R) New (N)
Make and Model: <b>Aviat IRU600 Microwave to King City</b>	N

**TRANSMITTER #17**                      **Power output 1 W**

Frequency(s) 10895.0000	Existing (E) Removing (R) New (N)
Make and Model: <b>Aviat IRU600 Microwave to Pinball</b>	N

**RECEIVER #17**

Frequency(s) 11385.0000	Existing (E) Removing (R) New (N)
Make and Model: <b>Aviat IRU600 Microwave to Pinball</b>	N

**ANTENNA DATA**

New Tenant: Provide data for each antenna to be installed at this vault facility and identify as **New (N)**.

Existing Tenant: Provide data for each antenna currently installed and identify as **Existing (E)**. If adding or removing an antenna; identify the appropriate action **New (N)**, **Removing (R)**.

Antenna number	Make and Model	Length or M/W dish size	Gain (dBd) (dBi for M/W)	Azimuth (relative to true north)	*Height desired (feet)	Existing (E) Removing (R) New (N)
42	Andrew UHP6-59WB (Position 65-1)	6'	39.9 dBd	339.163	65'	R
41	Andrew PAR6-65B (Position 30-1)	6'	38.8 dBd	339.163	30'	R
43	Sinclair SD235-HF2PALDF(DO2) (Position 40-3.5)	17'	5.5 dBd	360	40'	E
14	Sinclair SRL310C8 (Position 100-4)	10'	11 dBd	330	100'	E
8	DBSpectra DS7E12F36U-D (Position 80-4)	24'	12 dBd	360	80'	E
44	Andrew DB810E-PS (Position 19-4)	14.7'	12 dBd	360	19'	E
13	Telewave ANT850F6 (Position 100-3)	4.7'	6 dBd	360	100'	E
12	Telewave ANT850F6 (Position 20-3)	4.7'	6 dBd	360	20'	E
1	Laird Y4503 Directional Yagi (Position 20-1.5)	1.2'	7.1 dBd	92	20'	E
1	Laird Y4503 Directional Yagi (Position 20-2.5)	1.2'	7.1 dBd	158	20'	E
1	Laird Y4503 Directional Yagi (Position 20-4.5)	1.2'	7.1 dBd	294	20'	E
1	SC-476-HL PIM (Position ICE-BRIDGE)	2.1'	7.1 dBd	360	ICE-BRIDGE	E
N42	Commscope USX6-6W (Position 70-1)	6'	38.8 dBd	339.091	70'	N
N5	Commscope USX6-11W (Position 57-2)	6'	43.6 dBd	158.95	57'	N

\* For VHF antennas, show desired height to base of antenna support. For microwave dishes, show desired height to center of radiating element.

**AUXILIARY EQUIPMENT DATA**

For each transmitter, receiver, or combination, supply the following:

Make and model of cavity(s), filter(s), isolator(s), duplexer(s), etc., desired to be installed at this site. Please indicate the desired location where these items are to be mounted in the vault. Be sure to include these elements on the system block diagram on the page provided for that purpose.



RACK #11 (NO CHANGE)	
EXISTING - SINCLAIR MDL#TJ4234 TX COMBINER WITH HIGH Q BANDPASS CAVITY FILTERS WITH DUAL LOW-LOSS ISOLATORS	MST 800 MHZ RACK MOUNT TRANSMIT COMBINING MOUNTED IN RACK #11. SEE RACK ELEVATIONS SHEET T-4
EXISTING - EMR CORP RECEIVE MULTICOUPLER MDL#26108-1/P-5C	MST 800 MHZ RACK MOUNT RECEIVE DISTRIBUTION MOUNTED IN RACK #11. SEE RACK ELEVATIONS SHEET T-4

RACK #12 (NO CHANGE)	
EXISTING - DBSPECTRA MDL#DSCC75-07D CERAMIC TRANSMIT COMBINER	NGEN 700 MHZ RACK MOUNT TRANSMIT COMBINING MOUNTED IN RACK #12. SEE RACK ELEVATIONS SHEET T-4
EXISTING - DBSPECTRA MDL#DBSMCP RX MULTICOUPLER W/TTA ATS7TMD30-R	NGEN 700 MHZ RACK MOUNT RECEIVE DISTRIBUTION MOUNTED IN RACK #12. SEE RACK ELEVATIONS SHEET T-4

RACK #13 (NO CHANGE)	
EXISTING - RFS MDL#663-6A-1 UHF DUPLEXER	UHF LINK RADIO TO ANDERSON PEAK. SEE RACK ELEVATIONS SHEET T-3
EXISTING - RFS MDL#663-6A-1 UHF DUPLEXER	UHF LINK RADIO TO TABLE MOUNTAIN. SEE RACK ELEVATIONS SHEET T-3
EXISTING - RFS MDL#663-6A-1 UHF DUPLEXER	UHF LINK RADIO TO PINBALL. SEE RACK ELEVATIONS SHEET T-3
EXISTING - EMR CORP RX MULTICOUPLER MDL# 24108-1/P-5	NGEN ANALOG OVERLAY RX DISTRIBUTION. THIS SYSTEM IS FED OFF A PORT ON THE STATE'S RECEIVE DISTRIBUTION SYSTEM. SEE RACK ELEVATIONS SHEET T-3

RACK #14 (1/2 RACK) (NO CHANGE)	
EXISTING - SINCLAIR MDL#TJ2214 TX COMBINER CAVITY-FERRITE TYPE WITH DUAL ISOLATORS	NGEN ANALOG OVERLAY RACK MOUNTED TX COMBINING. OCCUPIES HALF OF RACK #14. SEE RACK ELEVATIONS SHEET T-3

RACK #21 (PROPOSED CHANGES)	
EXISTING - AVIAT IRU600 6 GHZ MICROWAVE	PROPOSED TO BE UPGRADED. SEE PROPOSED RACK ELEVATIONS SHEET T-5
EXISTING - ADTRAN TSU600	T1 MUX TO DSO - NO CHANGES. SEE PROPOSED RACK ELEVATIONS SHEET T-5
PROPOSED - AVIAT IRU600 11GHZ MICROWAVE	PROPOSED NEW LINK TO PINBALL. SEE PROPOSED RACK ELEVATIONS SHEET T-5
EXISTING - AVIAT POWER SUPPLY AND BATTERY BANK	PROPOSED TO BE UPGRADED. SEE PROPOSED RACK ELEVATIONS SHEET T-5
EXISTING - MRWPCA RAIN DATA	PROPOSED NEW LOCATION IN RACK #23. SEE PROPOSED RACK ELEVATIONS SHEET T-5
EXISTING - MED 5 QUANTAR	PROPOSED NEW LOCATION IN RACK #23. SEE PROPOSED RACK ELEVATIONS SHEET T-5
EXISTING - PUBLIC WORKS QUANTAR	PROPOSED NEW LOCATION IN RACK #23. SEE PROPOSED RACK ELEVATIONS SHEET T-5

RACK #23 (PROPOSED CHANGES)	
PROPOSED - ICT POWER DISTRIBUTION UNIT	PROPOSED NEW PDU. SEE PROPOSED RACK ELEVATIONS SHEET T-5
PROPOSED - ASENTRIA SITEBOSS S550	PROPOSED NEW SITE MONITORING UNIT. SEE PROPOSED RACK ELEVATIONS SHEET T-5
LOREX CAMERA SYSTEM	PROPOSED NEW CAMERA SYSTEM. SEE PROPOSED RACK ELEVATIONS SHEET T-5
POWER CONVERTERS	PROPOSED NEW POWER CONVERTERS. SEE PROPOSED RACK ELEVATIONS SHEET T-5
MRWPCA RAIN DATA	PROPOSED NEW LOCATION (FROM RACK #21). SEE PROPOSED RACK ELEVATIONS SHEET T-5
MED 5 QUANTAR	PROPOSED NEW LOCATION (FROM RACK #21). SEE PROPOSED RACK ELEVATIONS SHEET T-5
PUBLIC WORKS QUANTAR	PROPOSED NEW LOCATION (FROM RACK #21). SEE PROPOSED RACK ELEVATIONS SHEET T-5

**SYSTEM BLOCK DIAGRAM:**

Please provide a block diagram of the proposed installation at this radio vault facility. Be sure to include all elements of the system, including transmitters, receivers, power sources, antennas, protective devices, telephone lines, multiplex circuits, etc. Use additional sheets if necessary. Refer to the attached example if desired. Please be sure to label the operating frequency of each piece of equipment in the system, as appropriate.

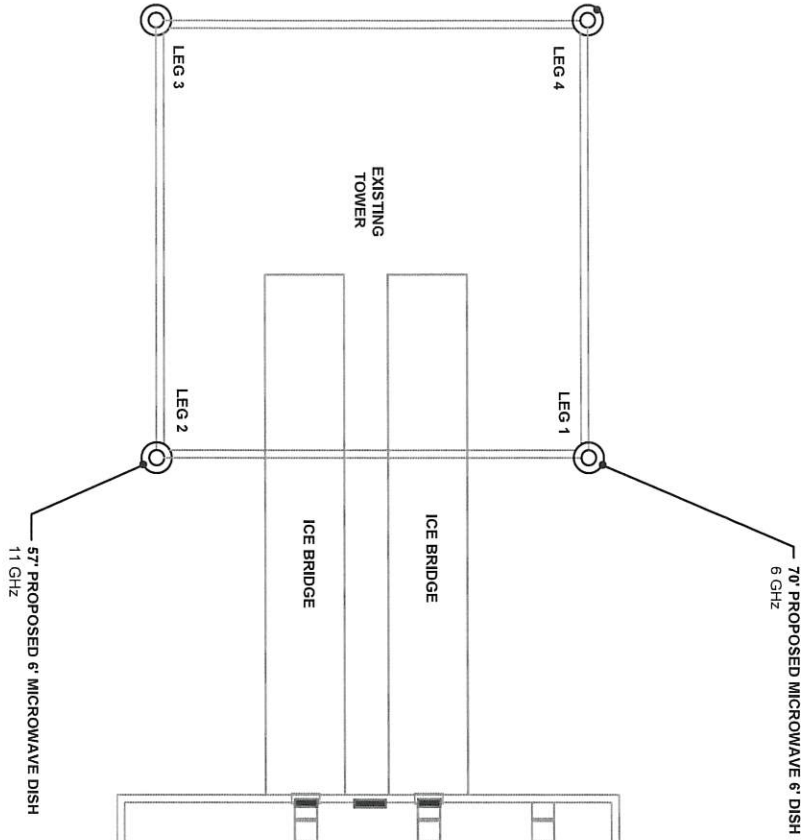
DWG LOCALE: I:\Countywide\Radio Comm\Williams Hill...

THIS DRAWING IS NOT FOR CONSTRUCTION. IT IS INTENDED FOR CONCEPTUAL SCHEMATIC DESIGN PURPOSES ONLY.



**PROPOSED ANTENNA MODIFICATIONS:  
ONLY MODIFICATIONS TO COUNTY ANTENNAS  
ARE SHOWN ON THIS SITE PLAN**

**FOR INTERNAL  
USE ONLY**



**DRAWINGS INDEX**

- SHEET T-1 SITE PLAN & PROPOSED MICROWAVE DISH PLACEMENT
- SHEET T-2 PROPOSED FLOOR PLAN
- SHEET T-3 EXISTING COUNTY RACK ELEVATIONS
- SHEET T-4 EXISTING COUNTY RACK ELEVATIONS DETAILS
- SHEET T-5 PROPOSED COUNTY RACK ELEVATIONS
- SHEET T-6 PROPOSED TOWER ELEVATIONS
- SHEET T-7 EXISTING CABLING SCHEMATIC FOR 700MHz & 800MHz SYSTEM
- SHEET T-8 ANALOG OVERLAY SYSTEM
- SHEET T-9 EXISTING EQUIPMENT - PUBLIC WORKS
- SHEET T-10 EXISTING EQUIPMENT - MED-5
- SHEET T-11 RAIN DATA REPEATER SYSTEM
- SHEET T-12 EXISTING UHF LINK TO ANDERSON
- SHEET T-13 PROPOSED UHF LINK TO PINBALL
- SHEET T-14 EXISTING UHF LINK TO TABLE MOUNTAIN
- SHEET T-15 EXISTING AVIAT MICROWAVE DETAIL (TO BE UPGRADED)



**INFORMATION TECHNOLOGY  
COMMUNICATIONS ENGINEERING**  
1580 AVENUE 41, SUITE 100  
MONTEREY, CA 93940  
P: (831) 756-4433  
F: (831) 756-4910

DWG No.: 08-04-04-03-1231.2-04  
DRAWN BY: D. TOMASINI  
CHECKED BY: B. LANDSCRE  
TYPE: TD312 DOCS  
SCALE: #4.11 NO SCALE

REV.	DATE	DESCRIPTION
1	4/24/12	ISSUE FOR SUBMITTAL
2	10/12/12	ADDED FREQ. TO DIGITAL SYSTEM FROM VHF TO UHF (800MHz)
3	12/27/18	VHF REPEATER SWAP (VHF LINK INSTALL TO LAWES & ANDERSON)
4	10/23/21	MICROWAVE UPGRADE

PROJECT TITLE  
**MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS**

PROJECT SITE  
**WILLIAMS HILL  
[CALABRA]  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY**

SHEET TITLE  
**PROPOSED MICROWAVE  
DISH PLACEMENT**

SHEET NUMBER  
**T-1**



DWG LOCALE: \\Countywide\Radio Comm\Williams Hill\...



THIS DRAWING IS NOT FOR CONSTRUCTION. IT IS INTENDED FOR CONCEPTUAL SCHEMATIC DESIGN PURPOSES ONLY.

SHEET NUMBER  
**T-2**

SHEET TITLE  
**PROPOSED FLOOR PLAN**

PROJECT SITE  
WILLIAMS HILL  
ICALANDRAI  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY

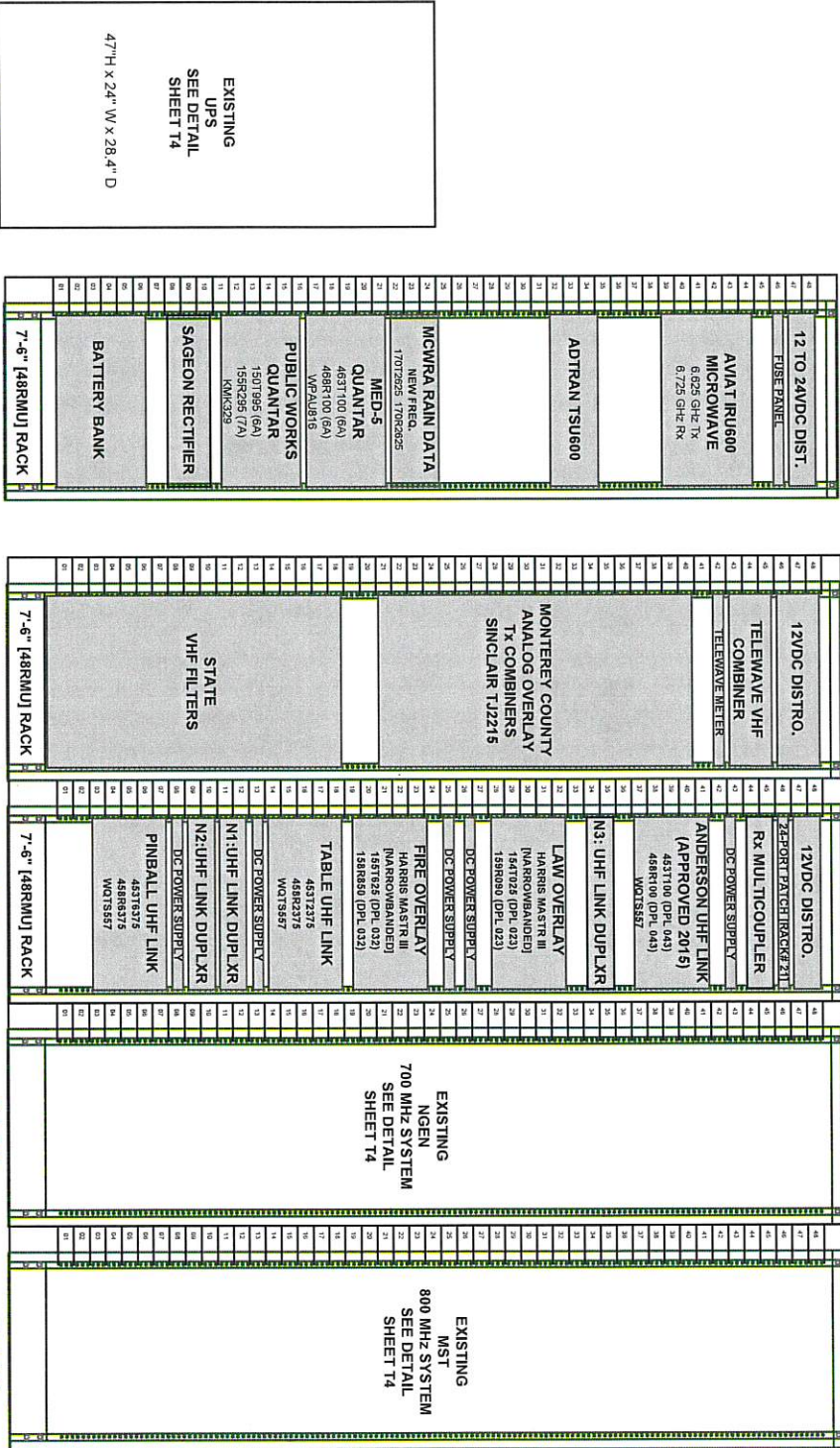
PROJECT TITLE  
MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS

REV	DATE	DESCRIPTION
-	-	SEE SHEET FOR DESCRIPTION OF REVISIONS

DWG No.: 0056-AMIS-TD12\_R4  
DRAWN BY: D. TOMASINI  
CHECKED BY: B. LANDACRE  
TYPE: T0312 DOCS  
SCALE: 8" x 11" 1/4" = 1'-0"

INFORMATION TECHNOLOGY  
COMMUNICATIONS ENGINEERING  
SALINAS, CA 95305  
P: (831) 756-4433  
F: (831) 756-8910

EXISTING MONTEREY COUNTY RACK ELEVATIONS AT WILLIAMS HILL



LEGEND:  
 [Grey Box] EXISTING EQUIPMENT (NO WORK)  
 [White Box] EXISTING EQUIPMENT (NO WORK)

CURRENT STATE

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INFORMATION TECHNOLOGY  
 COMMUNICATIONS ENGINEERING  
 1700 MONTEREY AVENUE  
 SALINAS, CA 93905  
 P: (831) 756-4433  
 F: (831) 756-9910

DWG NO.: 004-KMG-10312\_R4  
 DRAWN BY: O. TOMASINI  
 CHECKED BY: B. LANDACHE  
 TYPE: 10312 DOCS  
 SCALE: 1/4" = 1'-0"

REV	DATE	DESCRIPTION

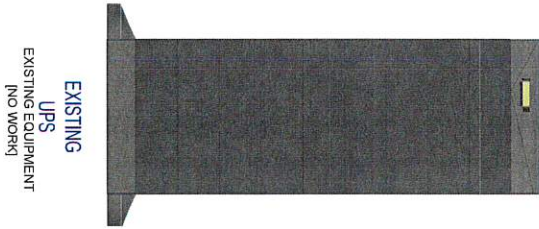
PROJECT TITLE  
 MONTEREY COUNTY  
 MICROWAVE UPGRADE  
 AND SITE READINESS  
 PROJECTS

PROJECT SITE  
 WILLIAMS HILL  
 ICA LANRAI  
 20 MILE SOUTH-EAST  
 OF KING CITY, CA  
 MONTEREY COUNTY

SHEET TITLE  
 EXISTING  
 COUNTY  
 RACK ELEVATIONS  
 SHEET NUMBER  
**T-3**



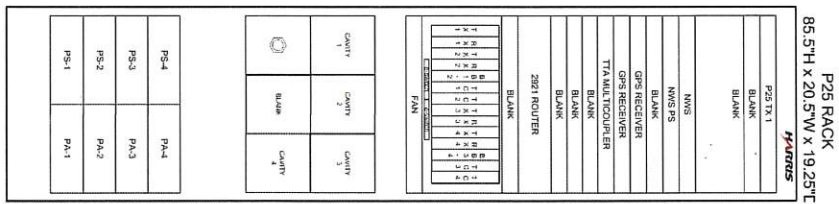
DWG LOCALE: ICountywideRadio CommiWilliams Hill.....



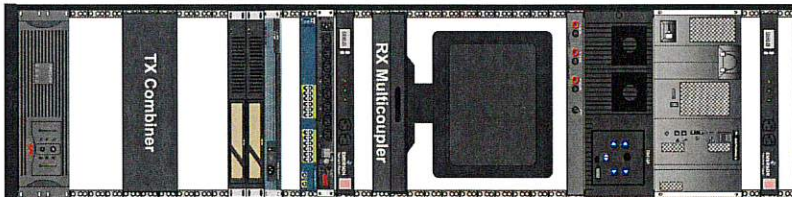
**EXISTING**  
UPS  
EXISTING EQUIPMENT  
(NO WORK)

**DISPECTRA**  
DBSMCP MULTICOUPLER  
WITH TOWER TOP AMP (TTA)  
dbSPECTRA AT57MD30-R

**DISPECTRA**  
DSCCT/5-07D CERAMIC  
COMBINER



**Rack #12**  
EXISTING EQUIPMENT  
(NO WORK)



**Rack #11**  
EXISTING EQUIPMENT  
(NO WORK)

- 44 → 7P Two-Port Equipment Rack
- 43 → 20A Surge Suppressor
- 42 → Quantar Voice Repetitor/Base Station
- 41 → 18A100 Data Base Station
- 40 → Trapazee Test & Interface Panel
- 39 → 17" Flat Panel LCD Monitor
- 38 → Keyboard & Mouse Tray
- 37 → RX Multicoupler TBD
- 36 → 20A Surge Suppressor
- 35 → APC Switched PDU
- 34 → Cisco Switch
- 33 → Cisco Router
- 32 → Radio Network Controller (RNC)
- 31 → Radio Network Controller (RNC)
- 30 → TX Combiner TBD
- 29 → APC Smart UPS

FOR INTERNAL USE ONLY

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**INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING**  
1590 KOPPEL STREET  
SALINAS, CA 93905  
P (831) 758-5930  
F (831) 758-5910

DWG No.: 0018 WLAB T0312.rvt  
DRAWN BY: D. TOMASINI  
CHECKED BY: B. LANDACRE  
TYPE: T0312 DOCS  
SCALE: 8" x 11" NO SCALE

REV.	DATE	DESCRIPTION
-	-	SEE SHIT FOR CHANGES

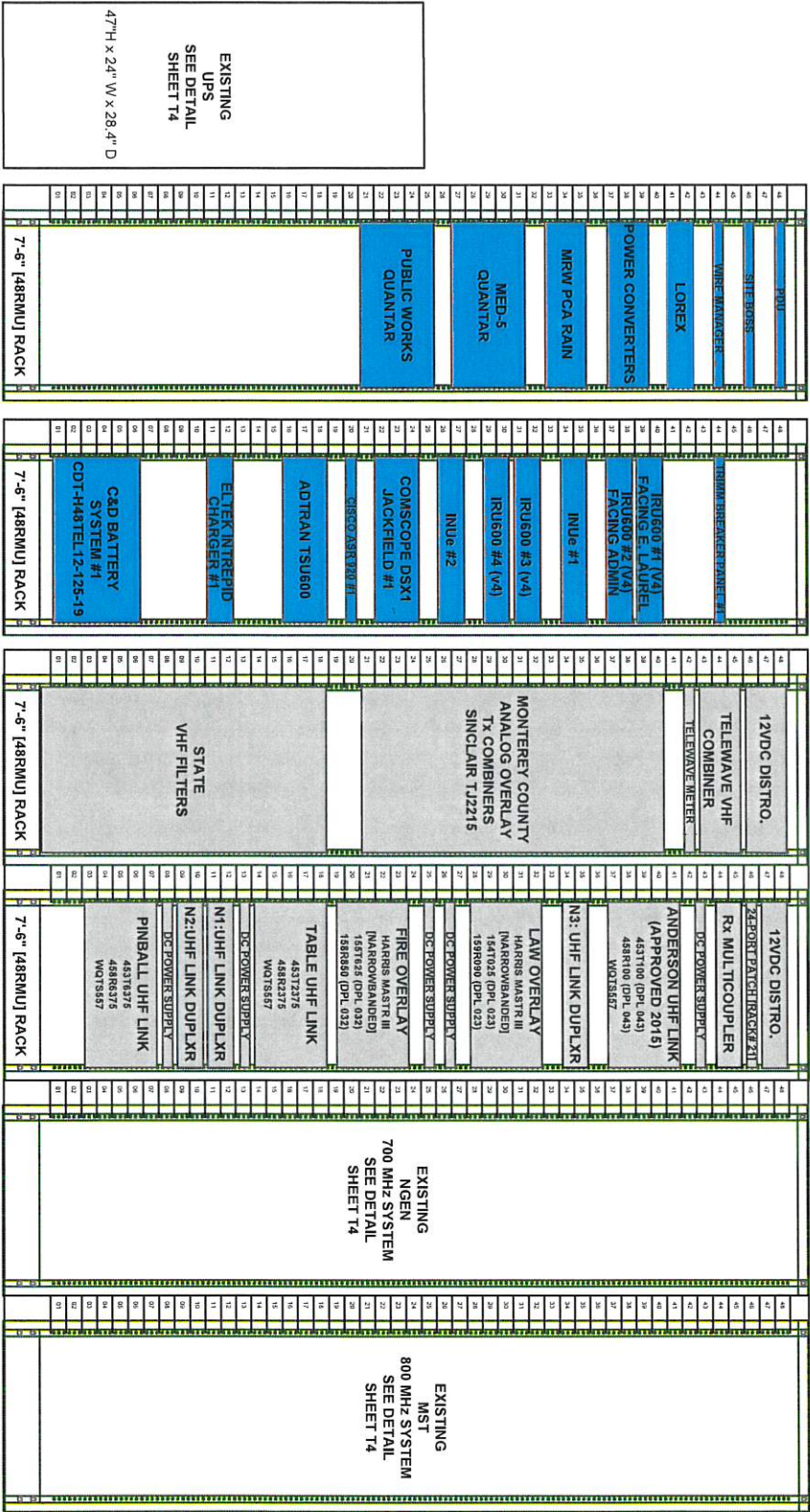
**PROJECT TITLE**  
MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS

**PROJECT SITE**  
WILLIAMS HILL  
(CALANDRA)  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY

**SHEET TITLE**  
EXISTING  
COUNTY  
RACK ELEVATIONS  
DETAILS

**SHEET NUMBER**  
**T-4**

DWG LOCAL: C:\Countywide\Radio Comm\Williams Hill...



# PROPOSED STATE

**LEGEND:**  
 [Blue Box] PROPOSED EQUIPMENT / UPGRADES / FREQUENCY CHANGE AS NOTED  
 [Grey Box] EXISTING EQUIPMENT (NO WORK)

**FOR INTERNAL USE ONLY**

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**INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING**  
 1500 ALVARADO STREET  
 SAN MARINO, CA 91066  
 P. (917) 756-4433  
 F. (917) 756-8910

DWG No.: 00-04-04-03-12\_R4  
 DRAWN BY: D. TOMASINI  
 CHECKED BY: B. LANDSCRE  
 TYPE: 10312 DOCS  
 SCALE: 9/4 11 1/4" = 1'-0"

REV.	DATE	DESCRIPTION
1		SEE SHEET T-5 FOR REVISIONS

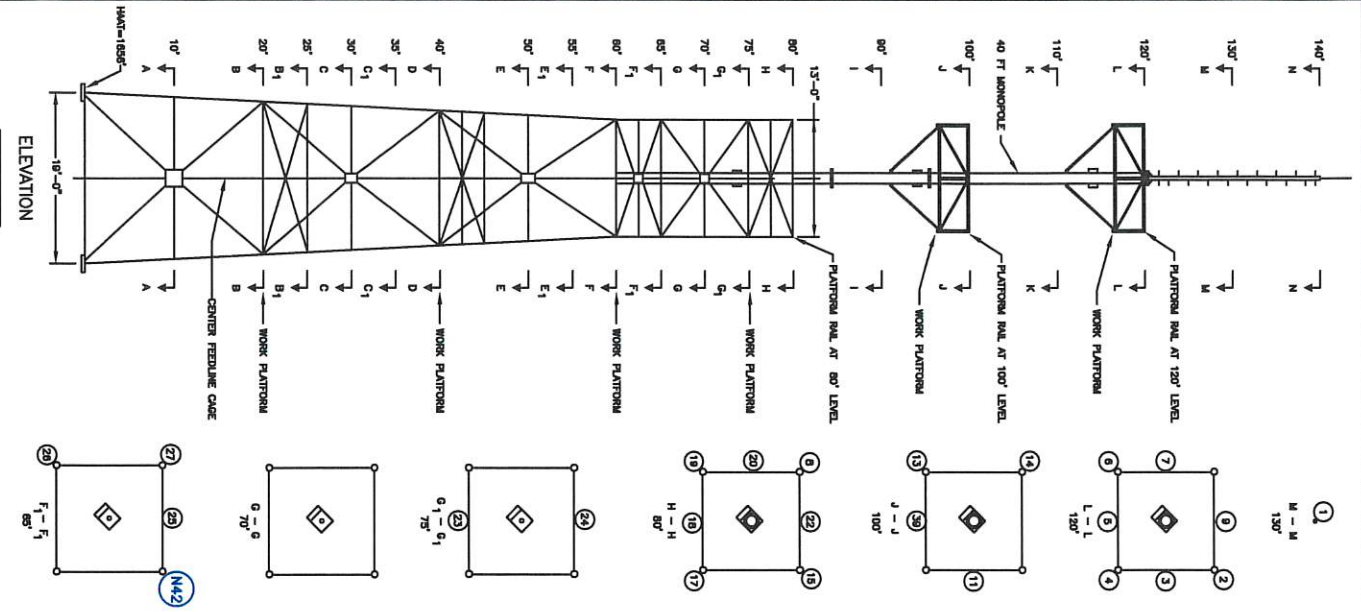
**PROJECT TITLE**  
 MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS

**PROJECT SITE**  
 WILLIAMS HILL (CALANDRA) 20 MILE SOUTH-EAST OF KING CITY, CA MONTEREY COUNTY

**SHEET TITLE**  
 PROPOSED COUNTY RACK ELEVATIONS  
**T-5**  
 SHEET NUMBER



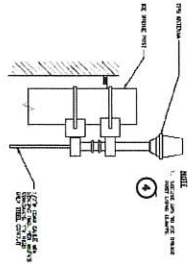
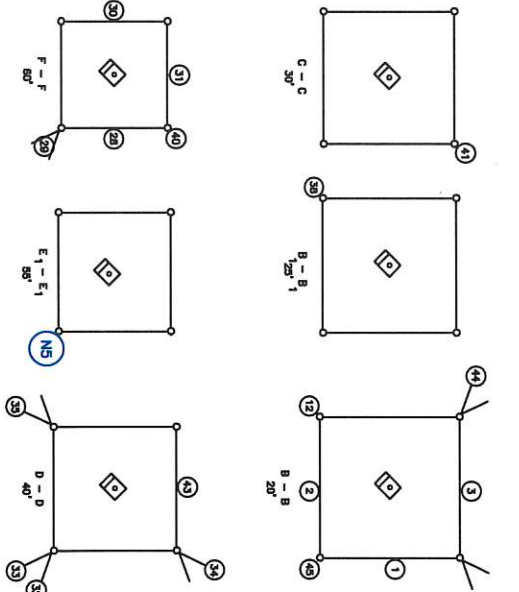
DWG LOCALE: I:\Countywide\Radio Comm\Williams Hill...



Antenna #	Make and Model	Length or M/W dish size	Gain (dBi) (dBi for M/W)	Azimuth (relative to true north)	*Height desired (feet)	Existing (E) Removing (R) New (N)	Description
42	Andrew UHP6-59WB (Position 55-1)	6'	39.3 dBi	339.163	65.0'	2011 (R)	MICROWAVE TO KC
41	Andrew PAR6-65B (Position 30-1)	6'	38.8 dBi	339.163	30.0'	2011 (R)	MICROWAVE TO KC
43	Simlar SD235-HF2PALDF (DO2) (Position 40-3.5)	17'	5.5 dBi	360	40.0'	2012 (E)	OVERLAY TX
14	Simlar SRL310C8 (Position 100-4)	10'	11 dBi	330	100.0'	2001 (E)	MED-CHNL
8	DISPERC D57E1Z138U-D (Position 80-4)	24'	12 dBi	360	80'	2015 (E)	Rx ONLY 700MHz NGEN
44	Andrew DBR10E-PS (Position 19-4)	14.7'	12 dBi	360	19'	2015 (E)	Tx ONLY 700MHz NGEN
13	Telewave ANT850F6 (Position 100-3)	4.7'	6 dBi	360	100'	2015 (E)	Rx ONLY 800MHz MST
12	Telewave ANT850F6 (Position 20-3)	4.7'	6 dBi	360	20'	2015 (E)	Tx ONLY 800MHz MST
1	Laird Y4503 Directional Yagi (Position 20-1.5)	1.2'	7.1 dBi	92	20'	(E)	UHF LINK TBL
2	Laird Y4503 Directional Yagi (Position 20-2.5)	1.2'	7.1 dBi	158	20'	(E)	UHF LINK PNBL
3	Laird Y4503 Directional Yagi (Position 20-4.5)	1.2'	7.1 dBi	294	20'	(E)	UHF LINK ANDN
4	SC-476-HL PIM COMSCOPE USXB-6W (Position ICE-BRIDGE)	2.1'	7.1 dBi	360	ICE-BRIDGE	(E)	GPS ALERT2
N42	COMSCOPE USXB-6W (Position 70-1)	6'	38.8 dBi	339.091	70'	(N)	MICROWAVE TO KCAG
N5	COMSCOPE USXB-6W (Position 57-2)	6'	43.8 dBi	158.95	57'	(N)	MICROWAVE TO PINBALL

**FOR INTERNAL USE ONLY**

**COUNTY OF MONTEREY ANTENNAS**



**PROJECT TITLE**  
WILLIAMS HILL  
ICALANDRAI  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY

**PROJECT TITLE**  
MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS

**PROJECT TITLE**  
PROPOSED  
TOWER ELEVATIONS

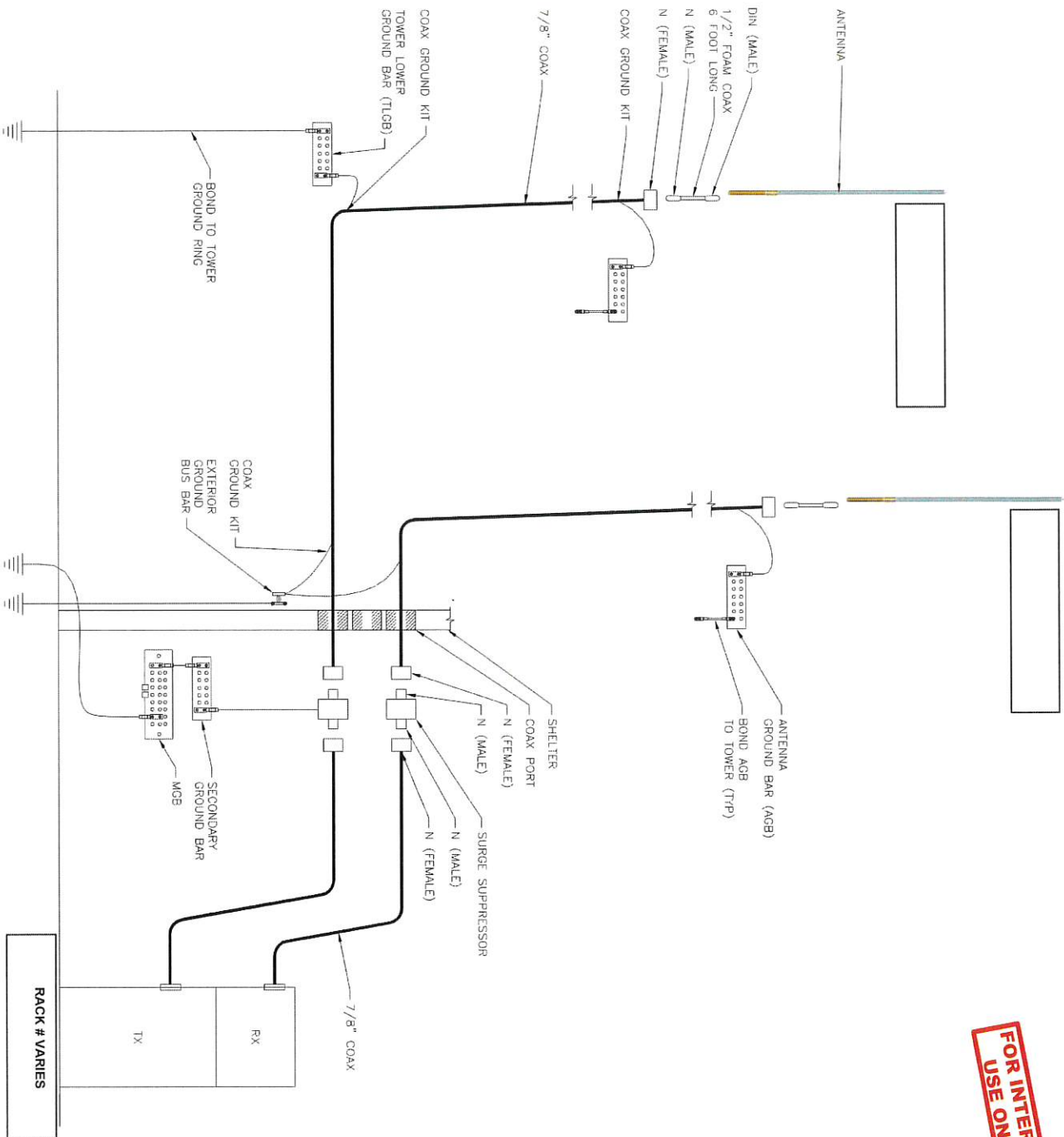
**SHEET NUMBER**  
**T-6**

DWG No.: 08-RAMMS-TD12.R4  
DRAWN BY: D. TOMASINI  
CHECKED BY: B. LANDOLFRE  
TYPE: TD12.DCS  
SCALE: 8"x11 1/4" 1/4"=1'-0"

REV.	DATE	DESCRIPTION

**INFORMATION TECHNOLOGY**  
COMMUNICATIONS ENGINEERING  
1700 CALIFORNIA STREET, SUITE 200  
SALINAS, CA 93905  
P: (831) 756-4433  
F: (831) 756-8010

DWG LOCALE: \Countywide\Radio Comm\Williams Hill...



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INFORMATION TECHNOLOGY  
COMMUNICATIONS ENGINEERING  
1560 JOFFETT STREET  
MONTEREY, CA 93940  
P: (831) 759-6433  
F: (831) 759-6910

DWG No.: 00-R-ALMS-TD312\_24  
DRAWN BY: O. TOMASINI  
CHECKED BY: B. LANDSCHE  
TYPE: TD312 DOCS  
SCALE: 8"x11" NO SCALE

REV.	DATE	DESCRIPTION
-	-	SEE SHIT FOR REVISION

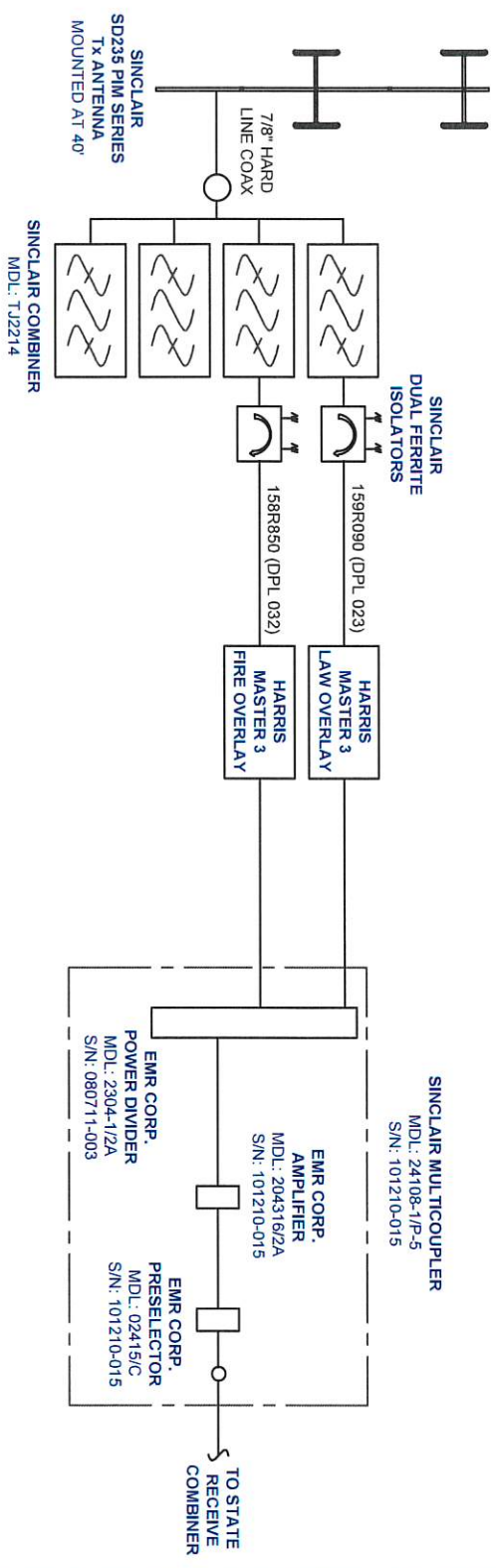
PROJECT TITLE  
MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS

PROJECT SITE  
WILLIAMS HILL  
[CALANDRA]  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY

SHEET TITLE  
EXISTING CABLING  
SCHEMATIC FOR 700MHz  
& 800 MHz SYSTEM

SHEET NUMBER  
**T-7**

DWG LOCAL: \\Countywide\Radio Comm\Williams Hill...



ALL EQUIPMENT SHOWN HERE STILL OPERATIONAL AND EXISTING IN RACK #13

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**FOR INTERNAL USE ONLY**



**INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING**  
 1380 ALVARADO ST., SUITE 200  
 SAN ALVARADO, CA 94586  
 P: (925) 796-4433  
 F: (925) 756-4910

DWG No.: 06-P4MMS-10312\_R4  
 DRAWN BY: D. TOMASINI  
 CHECKED BY: B. LANDRORE  
 TYPE: TD312 DOCS  
 SCALE: 1/4" = 1'-0"

REV.	DATE	DESCRIPTION
-	-	SEE SHEET FOR REVISIONS

PROJECT TITLE  
**MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS**

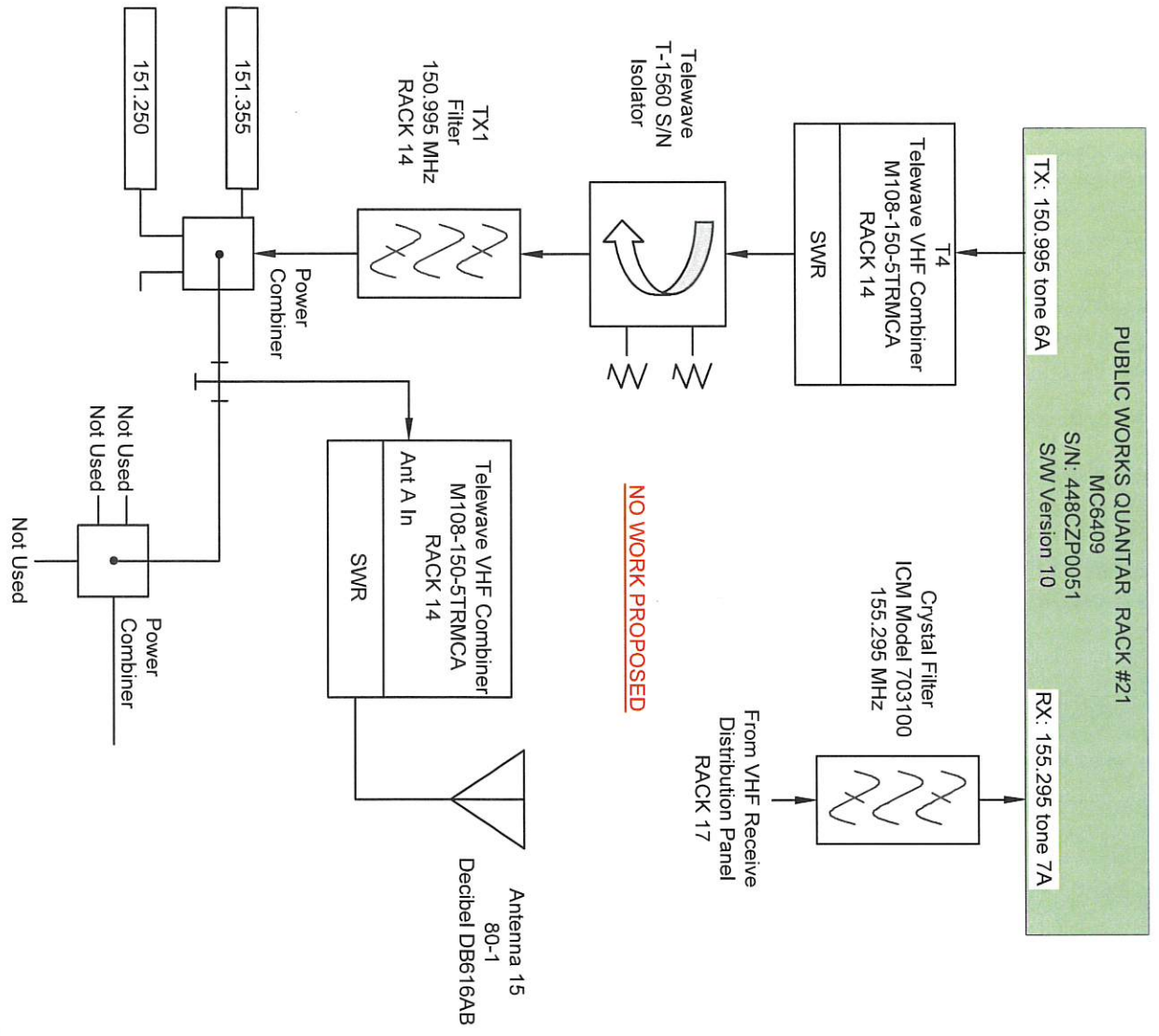
PROJECT SITE  
**WILLIAMS HILL (CALANDRA) 20 MILE SOUTH-EAST OF KING CITY, CA MONTEREY COUNTY**

SHEET TITLE  
**ANALOG OVERLAY SYSTEM**

SHEET NUMBER  
**T-8**



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**INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING**  
 1500 ALBUQUE, CA 95006  
 P: (431) 756-6433  
 F: (431) 756-6910

DWG No.: 009444AC1D12\_24  
 DRAWN BY: D. TOMASINI  
 CHECKED BY: B. LANOCHRE  
 TYPE: T0312 DDCS  
 SCALE: 2"=11' 1/4"=1'-0"

REV.	DATE	DESCRIPTION
-	-	SEE SHEET FOR REVISIONS

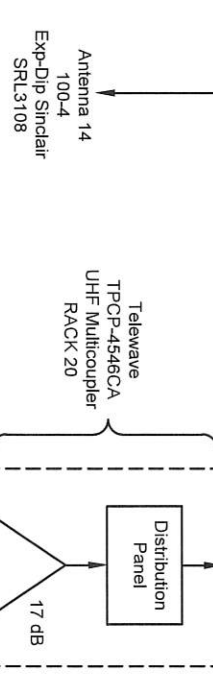
**PROJECT TITLE**  
 MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS

**PROJECT SITE**  
 WILLIAMS HILL (CALANDRA) 20 MILE SOUTH-EAST OF KING CITY, CA MONTEREY COUNTY

**SHEET TITLE**  
 EXISTING EQUIPMENT PUBLIC WORKS

**SHEET NUMBER**  
**T-9**

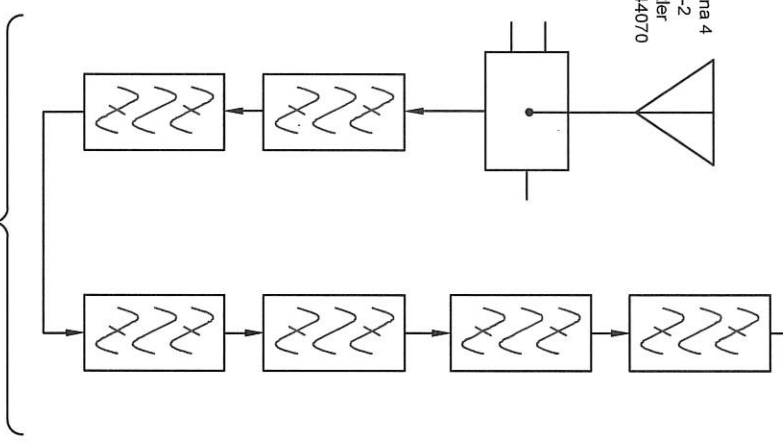
**MED 5 QUANTAR RACK #21**  
 MC221418  
 S/N 44SQZP0047  
 S/W Version 10



Antenna 14  
 100-4  
 Exp-Dip Sinclair  
 SRL3108

Antenna 4  
 120-2  
 Hustler  
 HX10-44070

Power Divider



All Filters in Rack 20

**NO WORK PROPOSED**

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**INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING**  
 1500 AVENUE 17 STREET  
 MONTEREY, CA 93940  
 P: (831) 786-6433  
 F: (831) 786-6910

DWG No.: 00-PRMMS-12012\_R4  
 DRAWN BY: D. TOMASINI  
 CHECKED BY: B. LANDACRE  
 TYPE: TD312 DOCS  
 SCALE: 2"=11' 1/4"=1'-0"

REV.	DATE	DESCRIPTION
-	-	SEE SHEET FOR REVISIONS

**PROJECT TITLE**  
 MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS

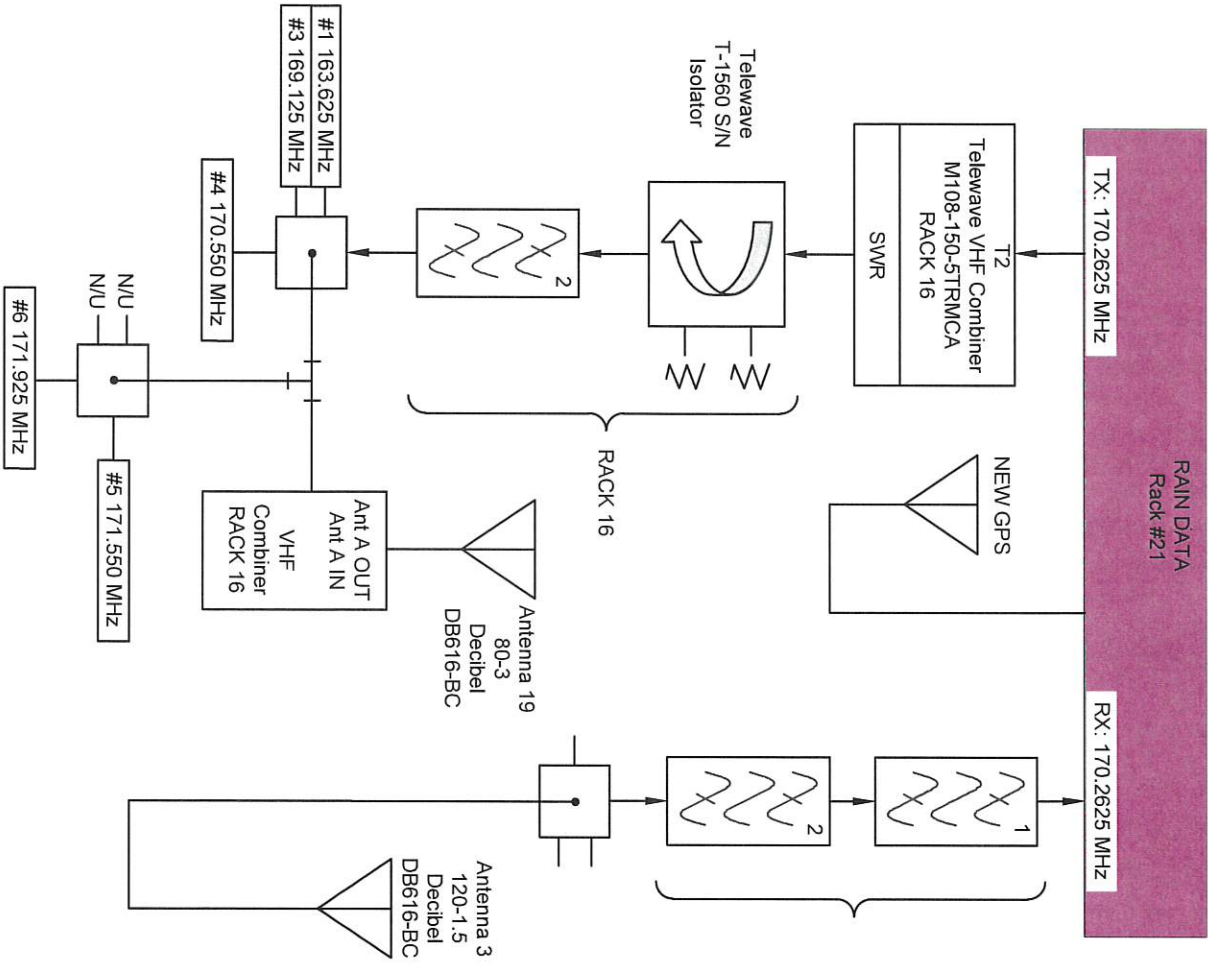
**PROJECT SITE**  
 WILLIAMS HILL (CALANDRA) 20 MILE SOUTH-EAST OF KING CITY, CA MONTEREY COUNTY

**SHEET TITLE**  
 EXISTING EQUIPMENT MED-5

**SHEET NUMBER**  
 T-10

DWG LOCAL: 'Countywide\Radio Comm\Williams Hill....

MONTEREY COUNTY WILLIAMS HILL RAIN DATA CONFIGURATION



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**FOR INTERNAL USE ONLY**



INFORMATION TECHNOLOGY  
COMMUNICATIONS ENGINEERING  
1580 MONTEREY STREET  
MONTEREY, CA 93940  
P: (831) 796-4433  
F: (831) 798-9910

DWG No.: 08-244465-TD312\_R4  
DRAWN BY: D. TOMASINI  
CHECKED BY: B. LANDSCAPE  
TYPE: TD312 DDCS  
SCALE: 3/4" = 1'-0"

REV.	DATE	DESCRIPTION
-	-	SEE SHEET FOR REVISIONS

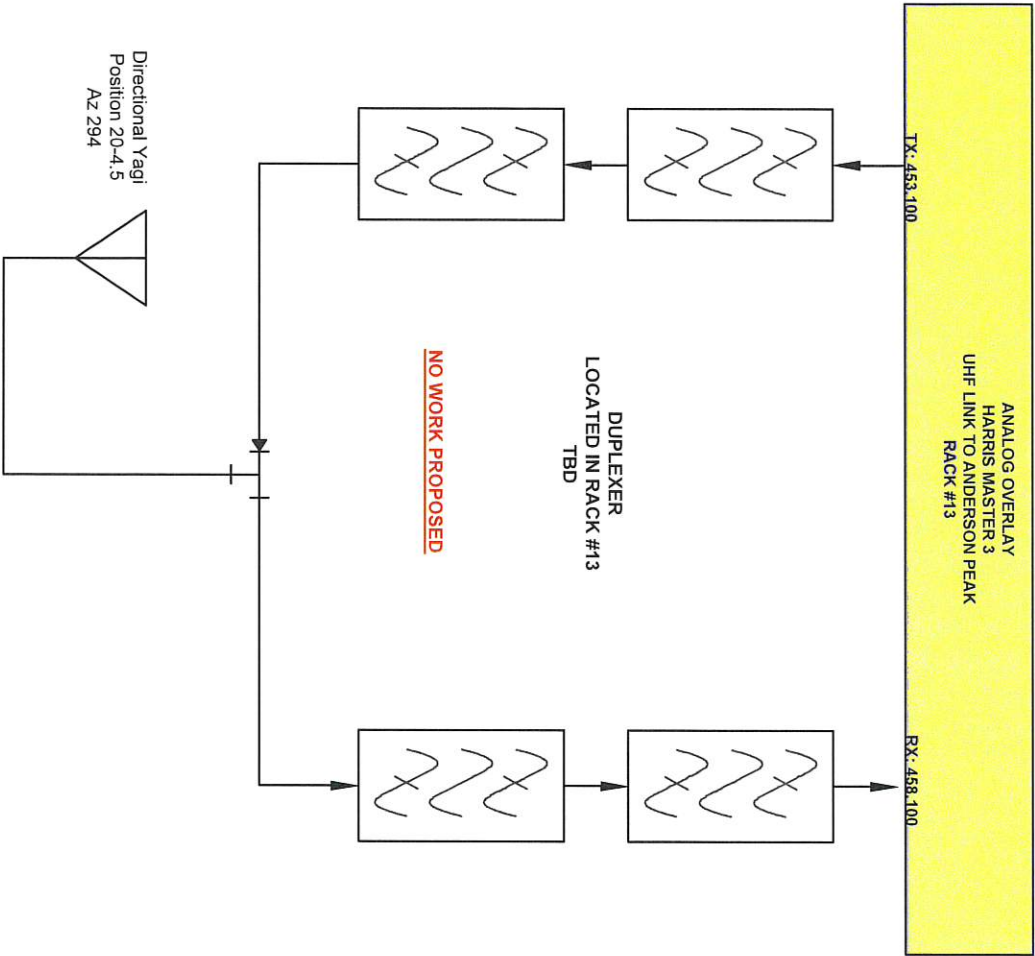

PROJECT TITLE  
MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS

PROJECT SITE  
WILLIAMS HILL  
[CALANDRA]  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY

SHEET TITLE  
RAIN DATA  
REPEATER SYSTEM


SHEET NUMBER  
T-11

DWG LOCAL: \\Countywide\Radio Comm\Williams Hill...



THIS DRAWING IS NOT FOR CONSTRUCTION. IT IS INTENDED FOR CONCEPTUAL SCHEMATIC DESIGN PURPOSES ONLY.

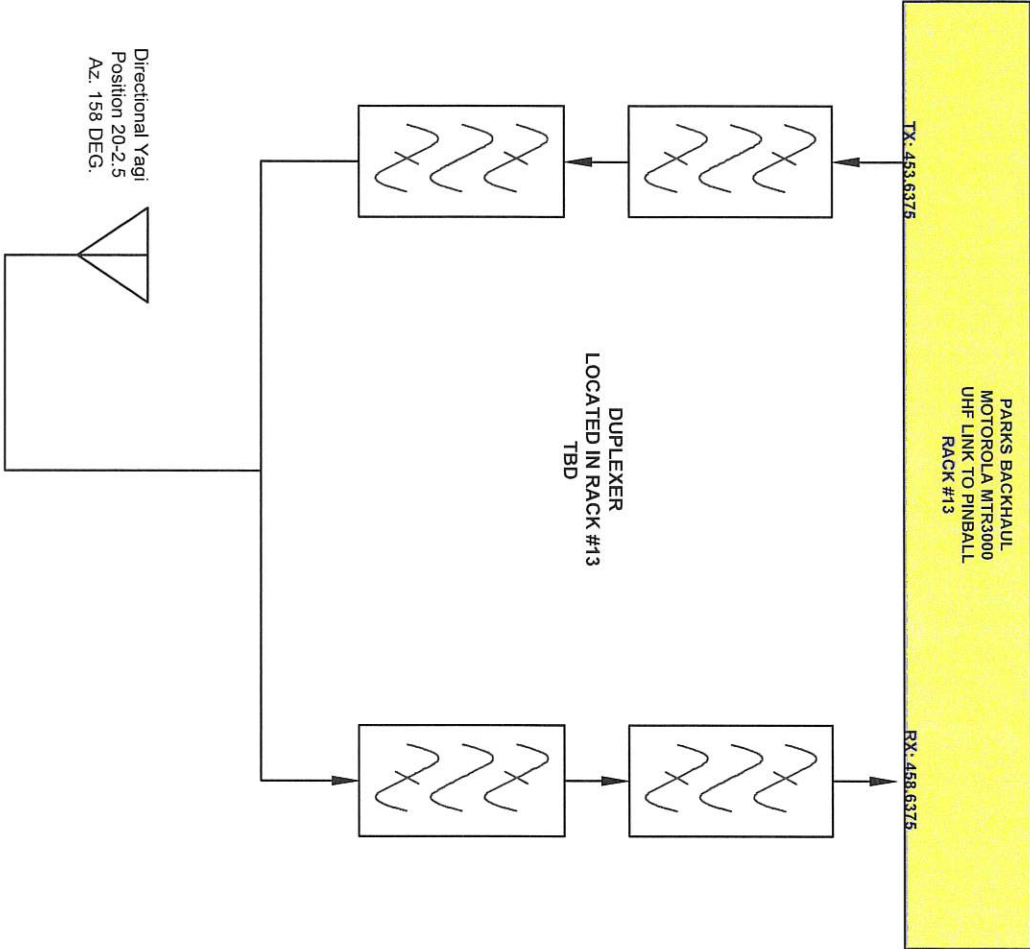
**FOR INTERNAL USE ONLY**

 INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING 1580 MONTEREY STREET MONTEREY, CA 93940 P: (831) 758-6433 F: (831) 758-6910	DWG No.: 00-24-04-03-12_04 DRAWN BY: D. TOMASINI CHECKED BY: B. LANDSCRE TYPE: TD312 DOCS SCALE: 8"=1' 1/8"	<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> <td>SEE SHIT FOR REVISIONS</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DATE	DESCRIPTION	-	-	SEE SHIT FOR REVISIONS																																		PROJECT TITLE MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS	PROJECT SITE WILLIAMS HILL [CALANDRA] 20 MILE SOUTH-EAST OF KING CITY, CA MONTEREY COUNTY	SHEET TITLE EXISTING UHF LINK TO ANDERSON	SHEET NUMBER T-12
REV.	DATE	DESCRIPTION																																											
-	-	SEE SHIT FOR REVISIONS																																											



DWG LOCAL: 'Countywide Radio Comm\Williams Hill....

THIS DRAWING IS NOT FOR CONSTRUCTION. IT IS INTENDED FOR CONCEPTUAL SCHEMATIC DESIGN PURPOSES ONLY.



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**INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING**  
 1580 AVENUE G #1100  
 SAN LUIS OBISPO, CA 95060  
 P: (831) 756-4433  
 F: (831) 758-9910

DWG No.: 00-P4M45-TD312\_R4  
 DRAWN BY: D. TOMASINI  
 CHECKED BY: B. LANDSCRE  
 TYPE: TD312 DOCS  
 SCALE: 9:11 1/4"=1'-0"

REV.	DATE	DESCRIPTION
-	-	SEE SHEET FOR REVISIONS

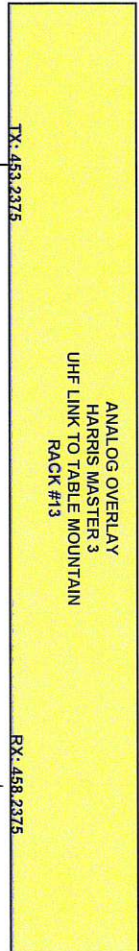
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 MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS

**PROJECT SITE**  
 WILLIAMS HILL (CALANDRA) 20 MILE SOUTH-EAST OF KING CITY, CA MONTEREY COUNTY

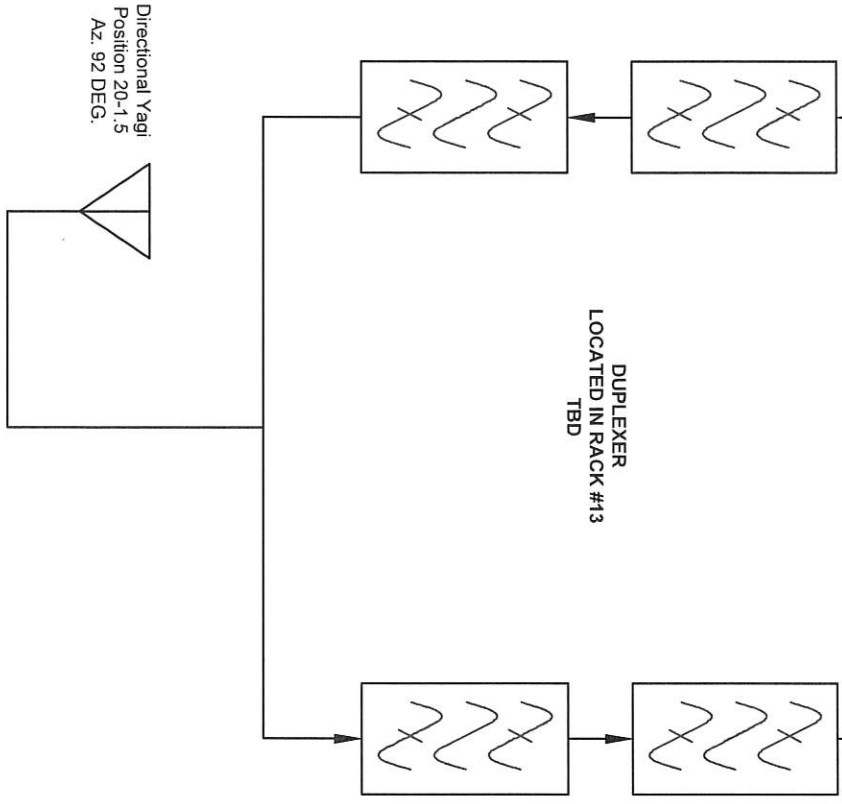
**SHEET TITLE**  
 EXISTING UHF LINK TO PINBALL

**SHEET NUMBER**  
 T-13





DUPLEXER  
LOCATED IN RACK #13  
TBD



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INFORMATION TECHNOLOGY  
COMMUNICATIONS ENGINEERING  
1500 KAPLAN STREET  
SAN JOSE, CA 95128  
P: (408) 758-6433  
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DWG No.: 004RMMAS10D12\_R4  
DRAWN BY: D. TOMASINI  
CHECKED BY: B. LANDACRE  
TYPE: TD312 DOCS  
SCALE: 8"=1' 1/8"

REV.	DATE	DESCRIPTION
-	-	SEE SHIT FOR REVISIONS

PROJECT TITLE  
MONTEREY COUNTY  
MICROWAVE UPGRADE  
AND SITE READINESS  
PROJECTS

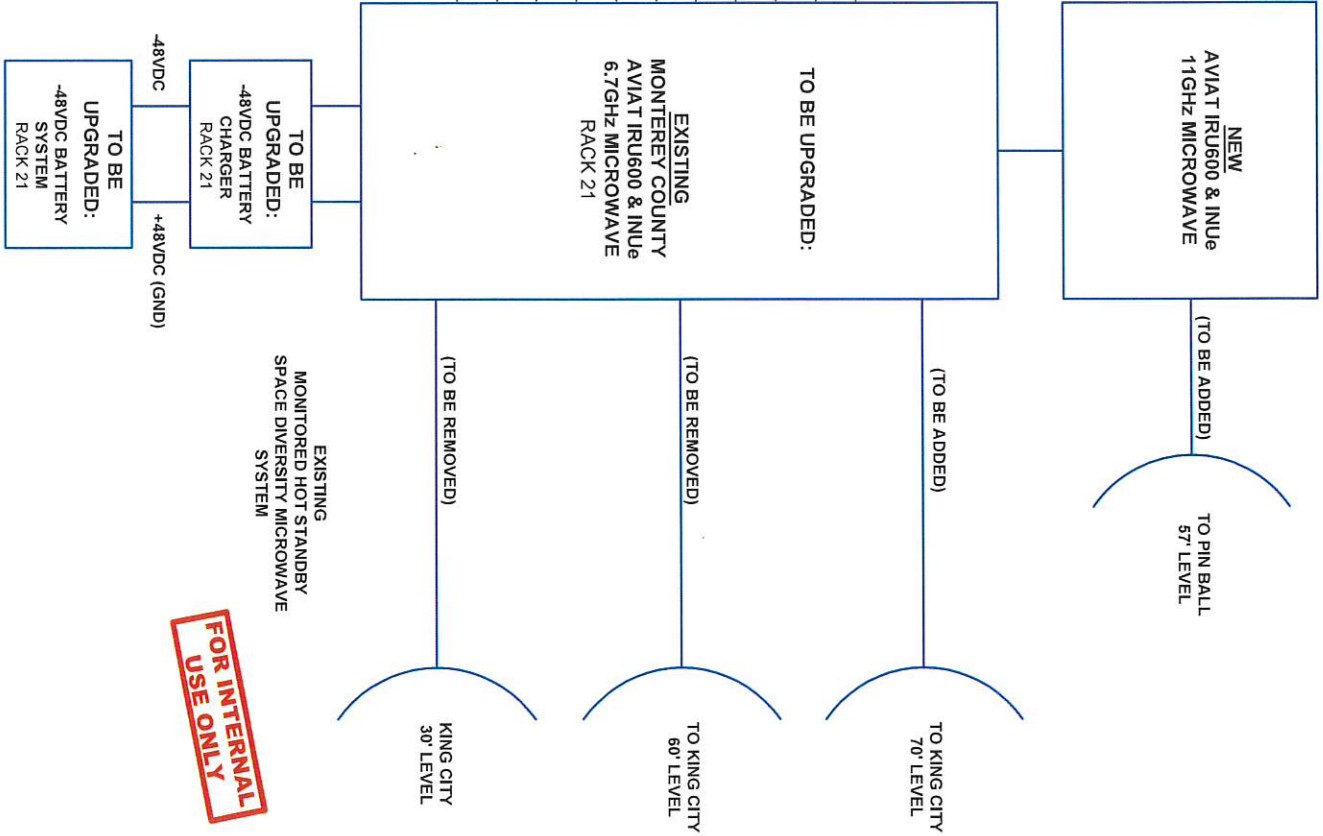
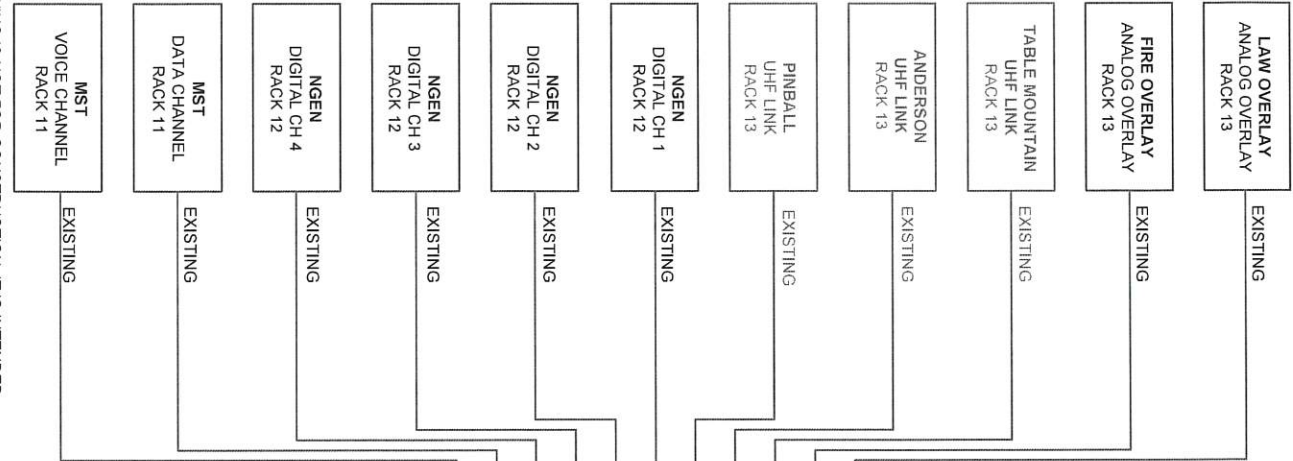
PROJECT SITE  
WILLIAMS HILL  
[CALANDRA]  
20 MILE SOUTH-EAST  
OF KING CITY, CA  
MONTEREY COUNTY

SHEET TITLE  
EXISTING  
UHF LINK TO  
TABLE MOUNTAIN

SHEET NUMBER  
**T-14**

DWG LOCAL: C:\Countywide\Radio Comm\Williams Hill...

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INFORMATION TECHNOLOGY COMMUNICATIONS ENGINEERING  
 1750 CALIFORNIA STREET  
 SALINAS, CA 93905  
 P: (831) 758-6433  
 F: (831) 758-8910

DWG No.: 08-PR-0445-10312\_24  
 DRAWN BY: D. TOMASINI  
 CHECKED BY: B. LANDGRE  
 TYPE: TD312 DOCS  
 SCALE: 1/4" = 1'-0"

REV.	DATE	DESCRIPTION

PROJECT TITLE  
 MONTEREY COUNTY MICROWAVE UPGRADE AND SITE READINESS PROJECTS

PROJECT SITE  
 WILLIAMS HILL (CALANDRA)  
 20 MILE SOUTH-EAST OF KING CITY, CA  
 MONTEREY COUNTY

SHEET TITLE  
 EXISTING AVIAT MICROWAVE DETAIL (TO BE UPGRADED)

SHEET NUMBER  
**T-15**