




verizon
15505 SAND CANYON AVE.
BLDG. D 1ST FLOOR
IRVINE, CA 92618

J5 INFRASTRUCTURE PARTNERS
AZ - CA - CO - ID - NM - NV - TX - UT

SITE NAME:
ROLLING HILLS
MC G3

SITE ADDRESS:

[illegible]A circular professional engineer seal for Jose Carlos Fajal. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "STATE OF CALIFORNIA" at the bottom, separated by two stars. The inner circle contains the name "JOSE CARLOS FAJAL" at the top, the license number "S 6550" in the center, and the expiration date "EXP:03/31/21" below it. The word "STRUCTURAL" is written in an arc below the expiration date. A red signature is written across the seal.

SIGNED:01/28/21

SHEET TITLE

SHEET NUMBER

VICINITY MAP

THIS PROJECT CONSISTS OF THE INSTALLATION OF ANTENNAS AND ASSOCIATED EQUIPMENT FOR VERIZON WIRELESS' WIRELESS TELECOMMUNICATIONS NETWORK.

1. VERIZON CONTRACTOR TO REMOVE (2) EXISTING PANEL ANTENNAS AND ALLEY ARM ASSEMBLY, AND INSTALL (1) NEW CANISTER ANTENNA WITH SHROUD ON NEW ARM ASSEMBLY, ON EXISTIG 50' WOOD UTILITY POLE 4842621E.
2. VERIZON CONTRACTOR TO INSTALL (2) RRUS, (4) PSU, (2) DIPLEXERS, (4) SPLITTERS AND (1) FIBER DISTRIBUTION BOX. MOUNTED TO POLE 4842621E.
3. VERIZON CONTRACTOR TO RELOCATE EXISTING PRISM UNIT TO EXISTING 50' WOOD UTILITY POLE 4842621E.
4. VERIZON CONTRACTOR TO RELOCATE EXISTING LINES AND MESSENGER CABLES ONTO EXISTING 50' WOOD UTILITY POLE 4842621E.
5. VERIZON CONTRACTOR TO REMOVE AND REPLACE (2) EXISTING RISERS WITH NEW RISERS ON EXISTING 50' WOOD UTILITY POLE 4842621E.
6. VERIZON CONTRACTOR TO INSTALL (1) AC LOAD CENTER ON THE POLE, NEAR RADIOS.
7. VERIZON CONTRACTOR TO REMOVE TOPPED-OFF POLE 00034PTC ONCE FACILITIES HAVE BEEN TRANSFERRED.
8. VERIZON CONTRACTOR TO INSTALL NEW POLE MOUNTED WTR FUSE PANEL WITH DISCONNECT.
9. VERIZON CONTRACTOR TO STEP POLE AT 9:00 AND 12:00
10. SOUTHERN CALIFORNIA EDISON TO RELOCATE EXISTING OVERHEAD SECONDARY DROP TO NEW REPLACEMENT POLE

<u>SITE ADDRESS:</u>	½ MILE NE OF 27301 HAWTHORNE BLVD ROLLING HILLS ESTATES, CA 90274	<u>APPLICANT:</u>	VERIZON WIRELESS 15505 SAND CANYON AVE. IRVINE, CA 92618
<u>PROPERTY OWNER/LESSOR:</u>	JPA/SCF 1400S S BENSON AVE., CHINO CA 91710	<u>SITE ACQ / ZONING CONTACT:</u>	PATRICK GRIFFIN J5 INFRASTRUCTURE PARTNERS PGRIFFIN@J5IP.COM (310) 880-3135
<u>JURISDICTION:</u>	CITY OF ROLLING HILLS	<u>PROJECT MANAGER:</u>	TAMI PRITCHARD J5 INFRASTRUCTURE PARTNERS TPRITCHARD@J5IP.COM (949) 201-9240
<u>LATITUDE:</u>	33°46' 48.53" N / 33.780147	<u>A&E MANAGER:</u>	JASON OFFINEER J5 INFRASTRUCTURE PARTNERS JOFFINEER@J5IP.COM (858) 370-4859
<u>LONGITUDE:</u>	118° 22' 11.73" W / -118.369925	<u>RF ENGINEER:</u>	CHARAKA WIJWEERA VERIZON WIRELESS CHARAKA.WIJEWEERA@VERIZONWIRELESS.COM (817) 703-2925
<u>PROPOSED USE:</u>	TELECOMMUNICATION FACILITY	<u>CONSTRUCTION MANAGER:</u>	JOHN DOAK VERIZON WIRELESS JOHN.DOAK2@VERIZONWIRELESS.COM (951) 579-0340
<u>ACCESSIBILITY REQUIREMENTS:</u>	THE FACILITY IS UNMANNED AND NOT FOR CONTINUOUS HUMAN HABITATION. DISABLED/CHALLENGED ACCESS IS NOT REQUIRED PER CBC 2016, SECTION 11B-203.4 (LIMITED ACCESS SPACE)		



48 HOURS BEFORE YOU DIG

PART 7 - VACANT
 PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
 PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2018
 INTERNATIONAL FIRE CODE
 PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON
 THE 2018 INTERNATIONAL EXISTING BUILDING CODE
 PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE
 (ALSO KNOWN AS CALGREEN)
 PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
 2. ANSI/TIA-222 (REV H)
 3. 2018 NFPA 101, LIFE SAFETY CODE
 4. 2019 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
 5. 2019 NFPA 13, STANDARD FOR THE INSTALLATION OF
 SPRINKLER SYSTEMS

PROPRIETARY INFORMATION: THE INFORMATION CONTAINED WITHIN THIS SET OF DRAWINGS IS PROPRIETARY TO VERIZON. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON IS STRICTLY PROHIBITED.

1. FOR THE PURPOSE OF THIS CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION) AND ANY LOWER TIER SUBCONTRACTORS.
ENGINEER - J5 INFRASTRUCTURE PARTNERS
OWNER - VERIZON WIRELESS
2. CONTRACTOR SHALL VISIT THE CELL SITE PRIOR TO THE SUBMISSION OF BIDS TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY, CONFLICT, OR OMISSION FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR RESOLUTION, PRIOR TO BID SUBMISSION & PRIOR TO COMMENCEMENT OF ANY WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS, OMISSIONS, OR DISCREPANCIES DISCOVERED AFTER THE COMMENCEMENT OF CONSTRUCTION WHICH HAVE NOT BEEN BROUGHT TO THE ATTENTION OF THE ENGINEER. ANY COSTS INCURRED TO REMEDY THE SITUATION SHALL BE AT THE EXPENSE OF THE CONTRACTOR. THE ENGINEER SHALL APPROVE ALL METHODS USED TO CORRECT THE SITUATION.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.

ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
5. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
6. CONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
7. AT ANY TIME DURING THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
8. AS MAY BE REQUIRED BY THE GOVERNING AGENCY OR PROPERTY OWNER, THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER, WATER, OR TOILET FACILITIES.
9. THE EXISTING CELL SITE IS ASSUMED TO BE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT

MUST BE COORDINATED WITH THE OWNER. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.

3. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS DURING THE ENTIRE CONSTRUCTION PERIOD. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
11. THE CONTRACTOR SHALL NOT USE OR INSTALL ANY MATERIAL CONTAINING ASBESTOS OR LEAD PAINT CONTENT. THE USE OF SUCH MATERIAL IS STRICTLY PROHIBITED.
12. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON PLANS, AND TO AVOID OR PROTECT THEM FROM ANY DAMAGE. ANY COSTS INCURRED TO REPAIR UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE AT THE SOLE COST OF THE CONTRACTOR. TELEPHONE 811 FOR USA DIG ALERT.
13. THE GOVERNING AGENCY MAY REQUIRE A COPY OF THE APPROVED PLANS TO BE KEPT ON SITE AT ALL TIMES. THE CONTRACTOR SHALL MAKE SUCH A SET AVAILABLE FOR INSPECTION AT ALL TIMES. ANY DEVIATIONS FROM THE APPROVED SET SHALL BE DOCUMENTED AND PROVIDED TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL BEAR THE SOLE COST TO CORRECT ANY INSTALLATION WHICH DEVIATES FROM APPROVED PLANS AND IS NOT ACCEPTED BY THE ENGINEER.
14. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS & METHODS, TECHNIQUES, SEQUENCING, AND PROCEDURES REQUIRED TO PERFORM THE WORK. ANY ANALYSIS OF THE STRUCTURE UNDER TEMPORARY CONSTRUCTION LOADING CONDITIONS IS OUTSIDE OF THE SCOPE OF THESE DRAWINGS. THE CONTRACTOR SHOULD EVENLY DISTRIBUTE ANY MATERIAL TO BE STORED ON SITE DURING CONSTRUCTION SO THAT THE LOAD DOES NOT EXCEED THE STRUCTURES DESIGNED LIVE LOAD; OR PROVIDE TEMPORARY SHORING OR BRACING IN THESE AREAS.
15. DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALE.
16. ALL NEW COMPONENTS ADD TO THE EXTERIOR OF THE STRUCTURE, WHICH ARE VISIBLE FROM PUBLIC VIEW, SHALL BE PAINTED TO MATCH THE EXISTING CONDITIONS.
17. ALL DETAILS AND NOTES INDICATED IN THESE PLANS ARE THE MINIMUM REQUIREMENTS.
18. IT MAY BE NECESSARY TO TEMPORARILY RELOCATE, REMOVE, REPLACE, OR WORK AROUND VARIOUS ARCHITECTURAL FEATURES, PIPES, FIXTURES, CABLING, OR OTHER NON-STRUCTURAL ITEMS IN ORDER TO COMPLETE THE PROPOSED WORK. CONTRACTOR SHALL RESTORE THESE ITEMS TO THEIR ORIGINAL CONDITION AT THEIR EXPENSE UNLESS OTHERWISE NOTED IN THESE PLANS.

GENERAL NOTES

1

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MEANS AND METHODS TO COMPLETE ALL UPGRADES AS INDICATED IN THIS DOCUMENT.
2. ALL DIMENSIONS, SECTIONS AND DETAILS OF THE EXISTING STRUCTURE ARE INCLUDED FOR INFORMATION PURPOSES ONLY, THE CONTRACTOR SHALL VERIFY ALL RELEVANT INFORMATION PRIOR TO CONSTRUCTION OR FABRICATION. NOTIFY THE ENGINEER-OF-RECORD IMMEDIATELY OF ANY DISCREPANCIES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS.
3. CONTRACTOR IS RESPONSIBLE FOR ERECTING TEMPORARY BARRICADES AND/OR FENCING TO PROTECT THE SAFETY OF THE PUBLIC DURING CONSTRUCTION. THE CONTRACTOR SHALL REMOVE ALL TEMPORARY BARRIERS AND REPAIR ALL DAMAGE TO PROPERTY ON THE SITE CAUSED BY THIS CONSTRUCTION. THE COST OF REPAIR IS THE CONTRACTOR'S RESPONSIBILITY.
4. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS.
5. COORDINATE WORK INDICATED ON THESE DRAWINGS WITH THE NEW EQUIPMENT, EXISTING EQUIPMENT, WAVEGUIDE ETC.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE PRIOR TO ORDERING ANY MATERIALS OR CONDUCTING ANY WORK.
7. ALL DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION.
8. CONTRACTOR SHALL COLD-GALVANIZE ALL RAW STEEL AS REQUIRED DURING CONSTRUCTION PROCESS.

GENERAL UPGRADE NOTES

2

1A CERTIFICATION

3



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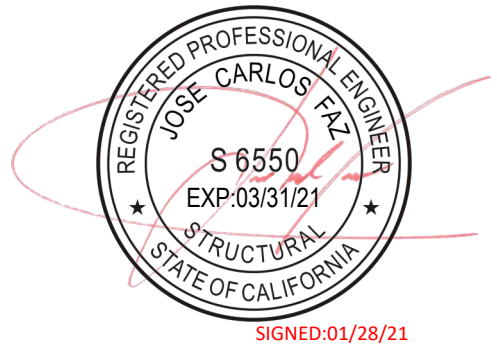
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

SITE NAME:
ROLLING HILLS
MC G3

POLE# 4842621E**SITE ADDRESS:**

½ MILE NE OF 27301 HAWTHORNE BLVD
ROLLING HILLS ESTATES, CA 90274

D	01/19/2021	90% CD (FINAL POWER)	PS
C	11/11/2020	90% CD	JO
B	10/27/2020	90% CD	JO
A	10/26/2020	90% CD	JO
REV	DATE	DESCRIPTION	



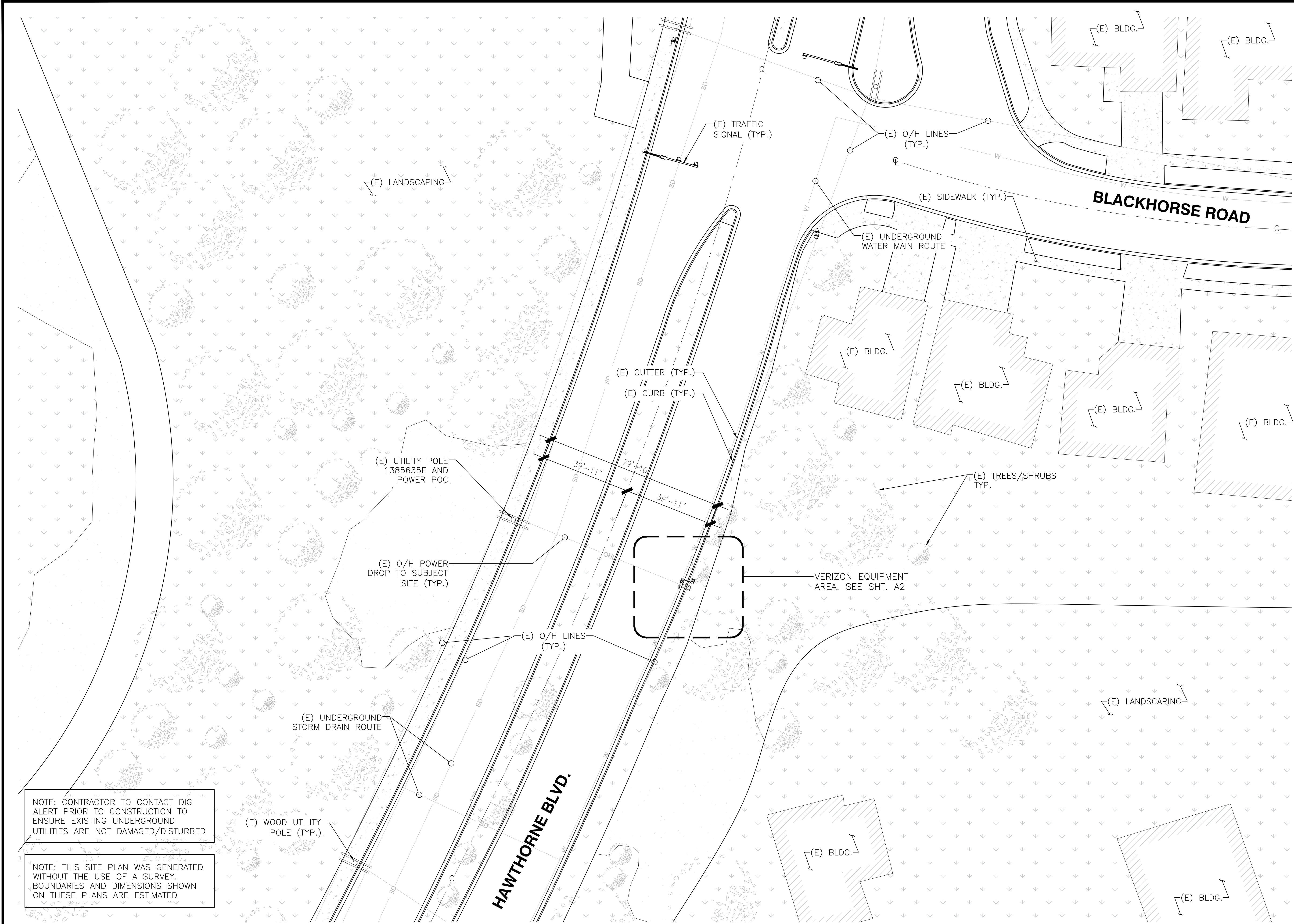
IT IS A VIOLATION OF LAW FOR ANY PERSON,
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TO ALTER THIS DOCUMENT.

SHEET TITLE

GENERAL NOTES & 1A
CERTIFICATION

SHEET NUMBER

T2



SITE PLAN

24"x36" SCALE: 1" = 20'-0"
11"x17" SCALE: 1" = 40'-0"
20' 10' 0' 20'



1

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15505 SAND CANYON AVE.
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INFRASTRUCTURE
P A R T N E R S
AZ - CA - CO - ID - NM - NV - TX - UT

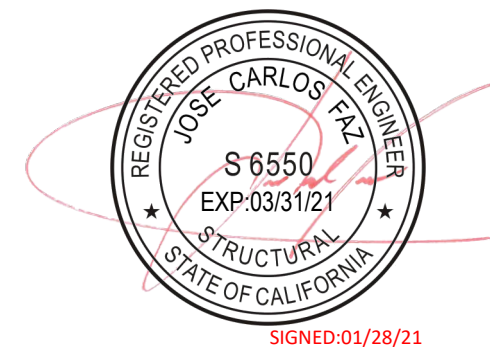
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

SITE NAME:
ROLLING HILLS
MC G3

POLE# 4842621E

SITE ADDRESS:
½ MILE NE OF 27301 HAWTHORNE BLVD
ROLLING HILLS ESTATES, CA 90274

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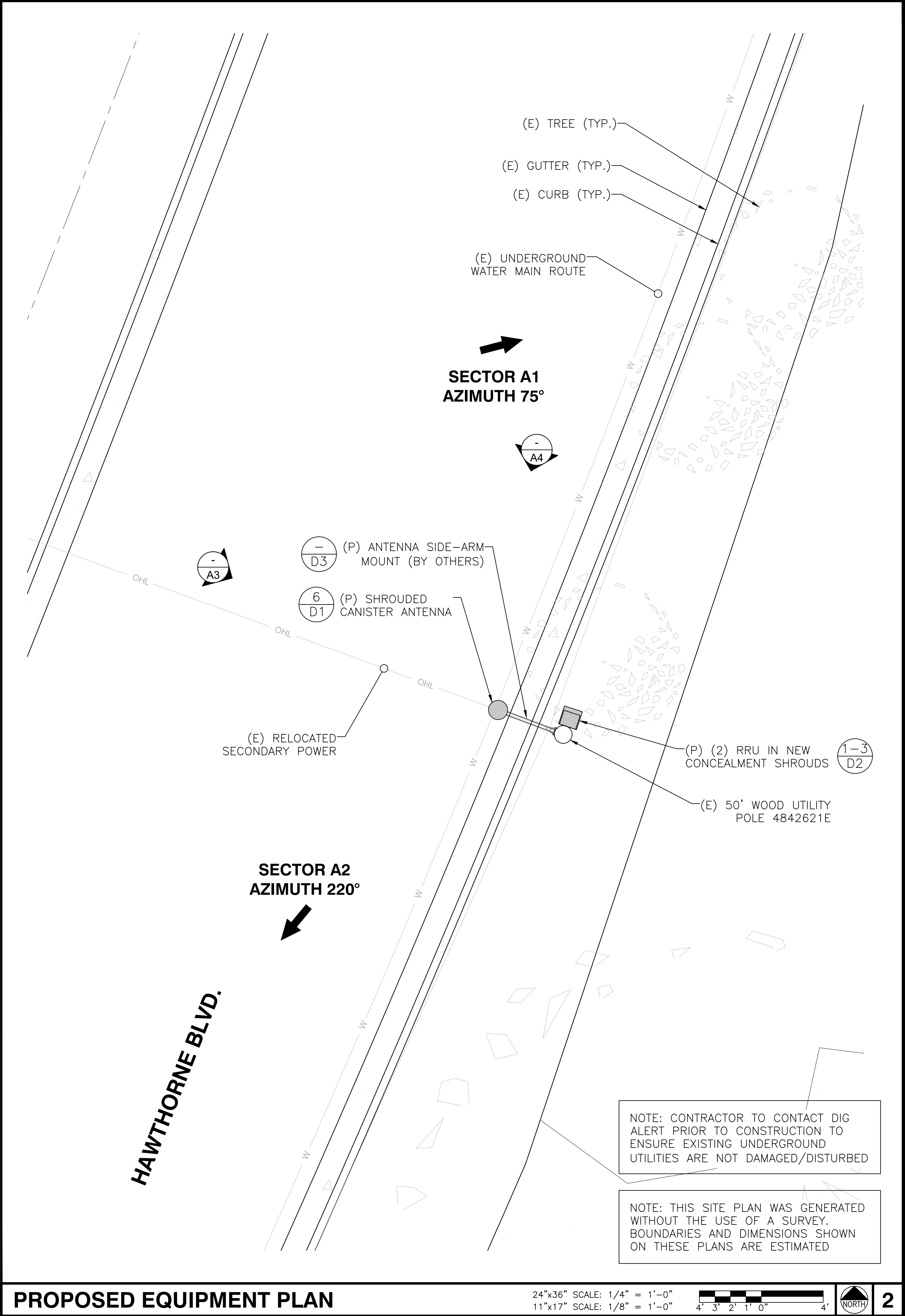
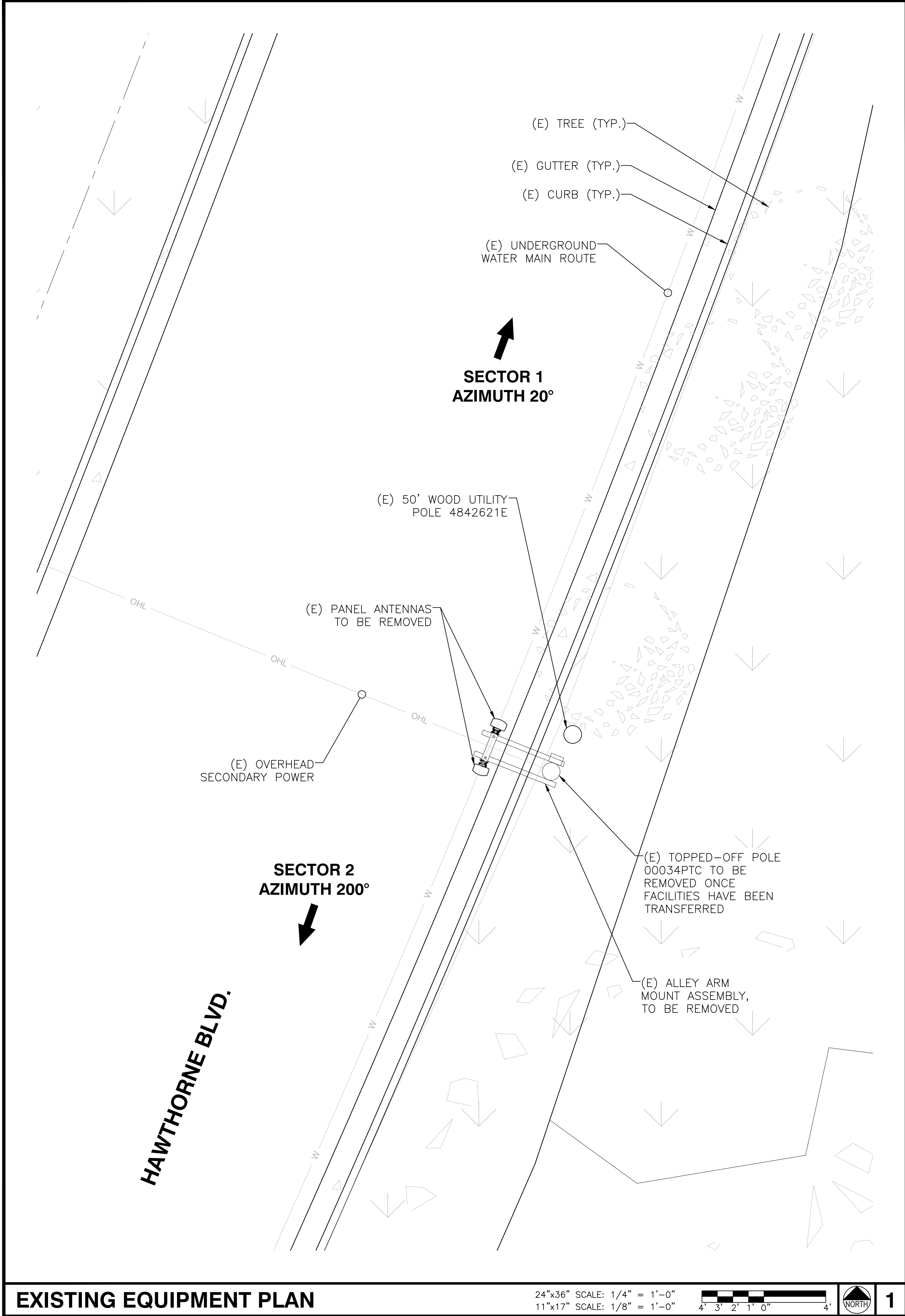
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SHEET TITLE

SITE PLAN

SHEET NUMBER

A1



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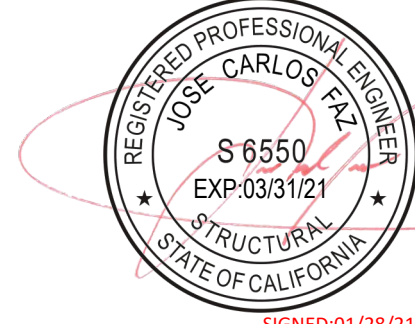
AZ - CA - CO - ID - NM - NV - TX - UT
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

SITE NAME:
ROLLING HILLS
MC G3

POLE# 4842621E

SITE ADDRESS:
1/2 MILE NE OF 27301 HAWTHORNE BLVD
ROLLING HILLS ESTATES, CA 90274

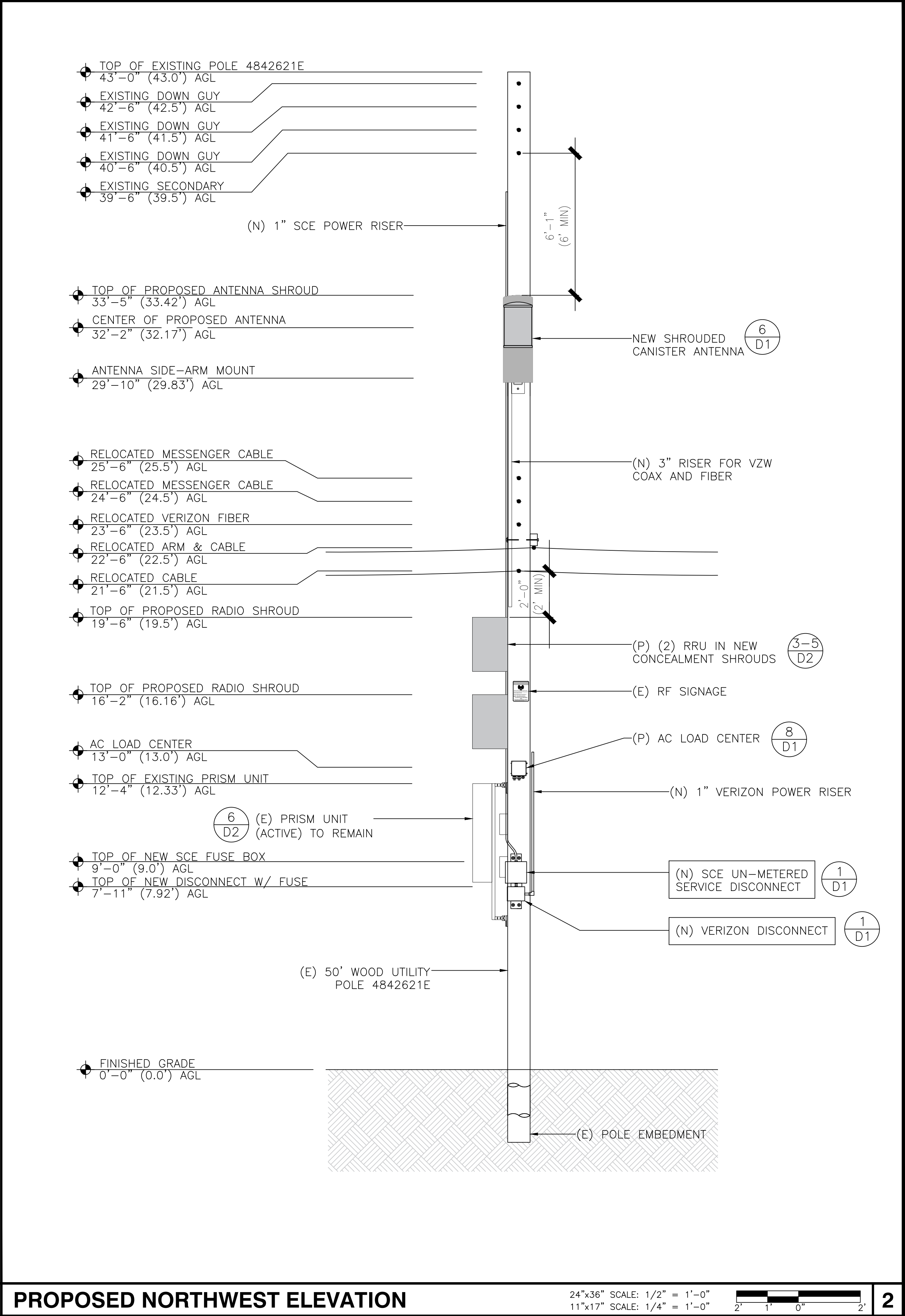
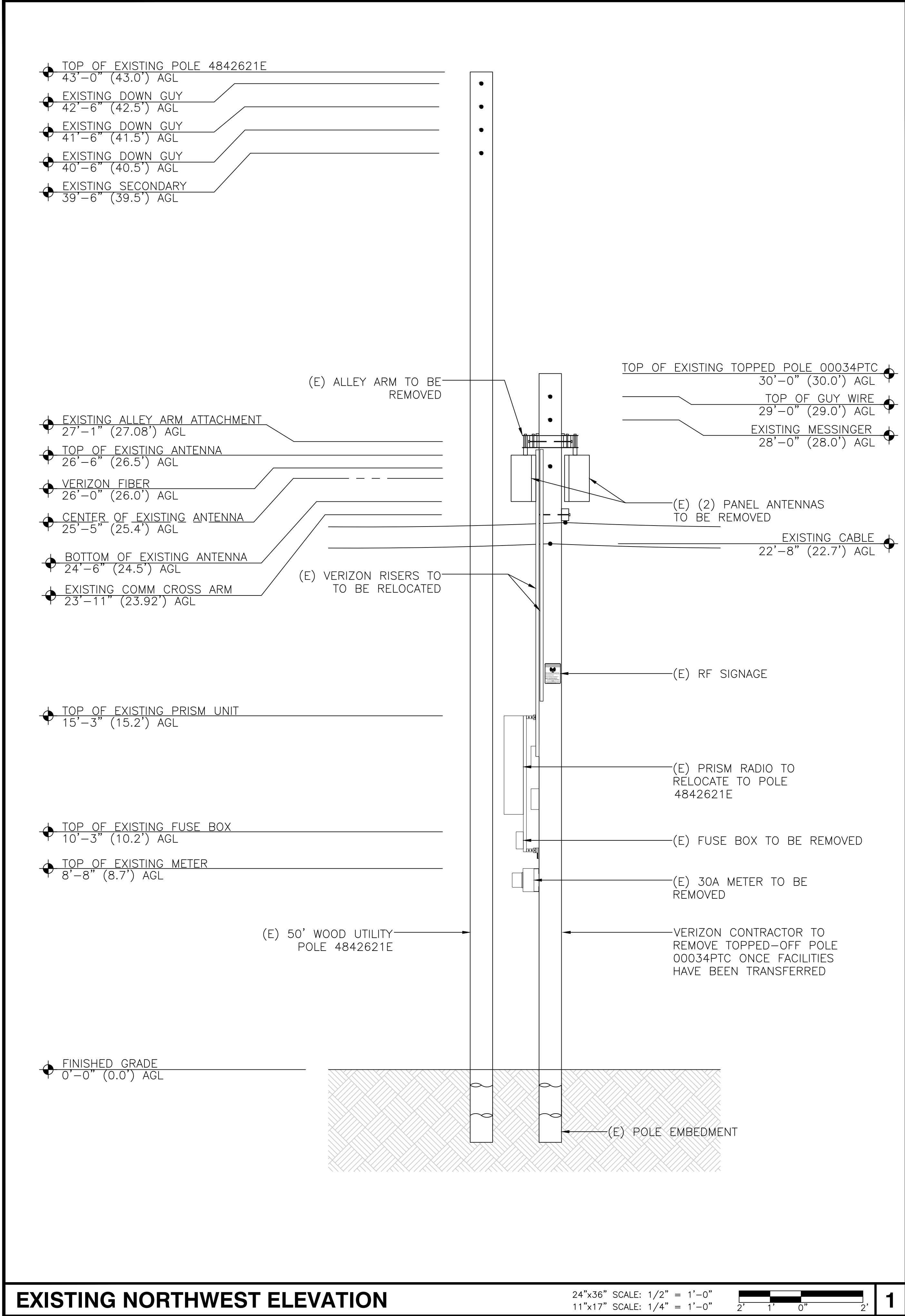
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B	10/27/2020	90% CD
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SHEET TITLE
ENLARGED PLAN

SHEET NUMBER
A2



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IRVINE, CA 92618

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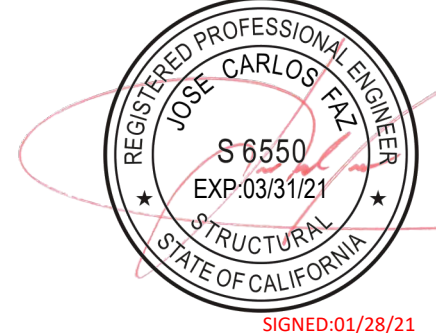
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

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MC G3

POLE# 4842621E

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SHEET TITLE

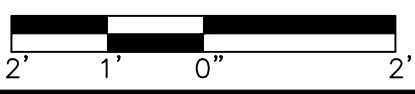
NORTHWEST
ELEVATIONS

SHEET NUMBER

A3

EXISTING NORTHWEST ELEVATION

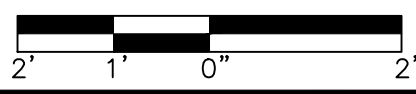
24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



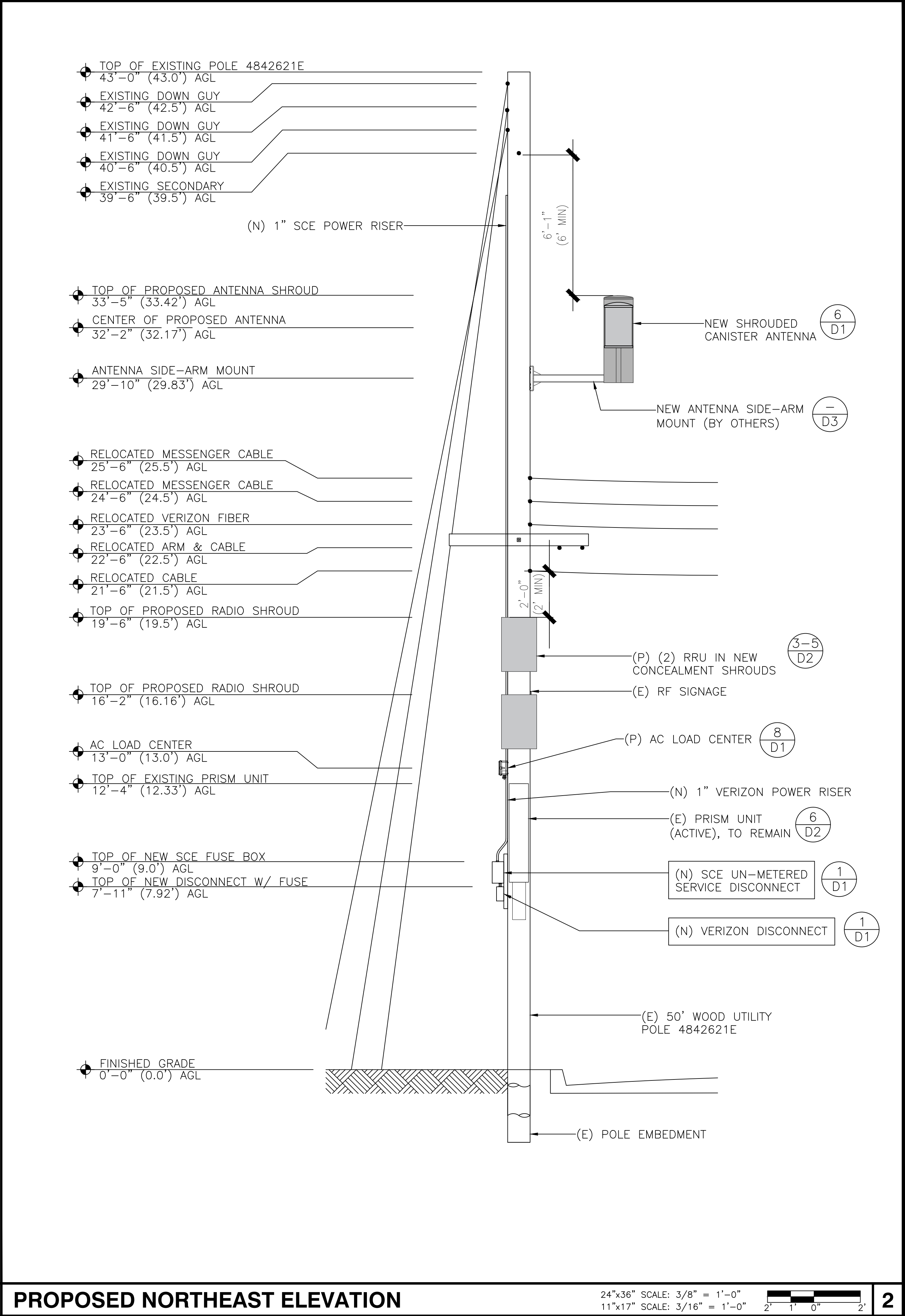
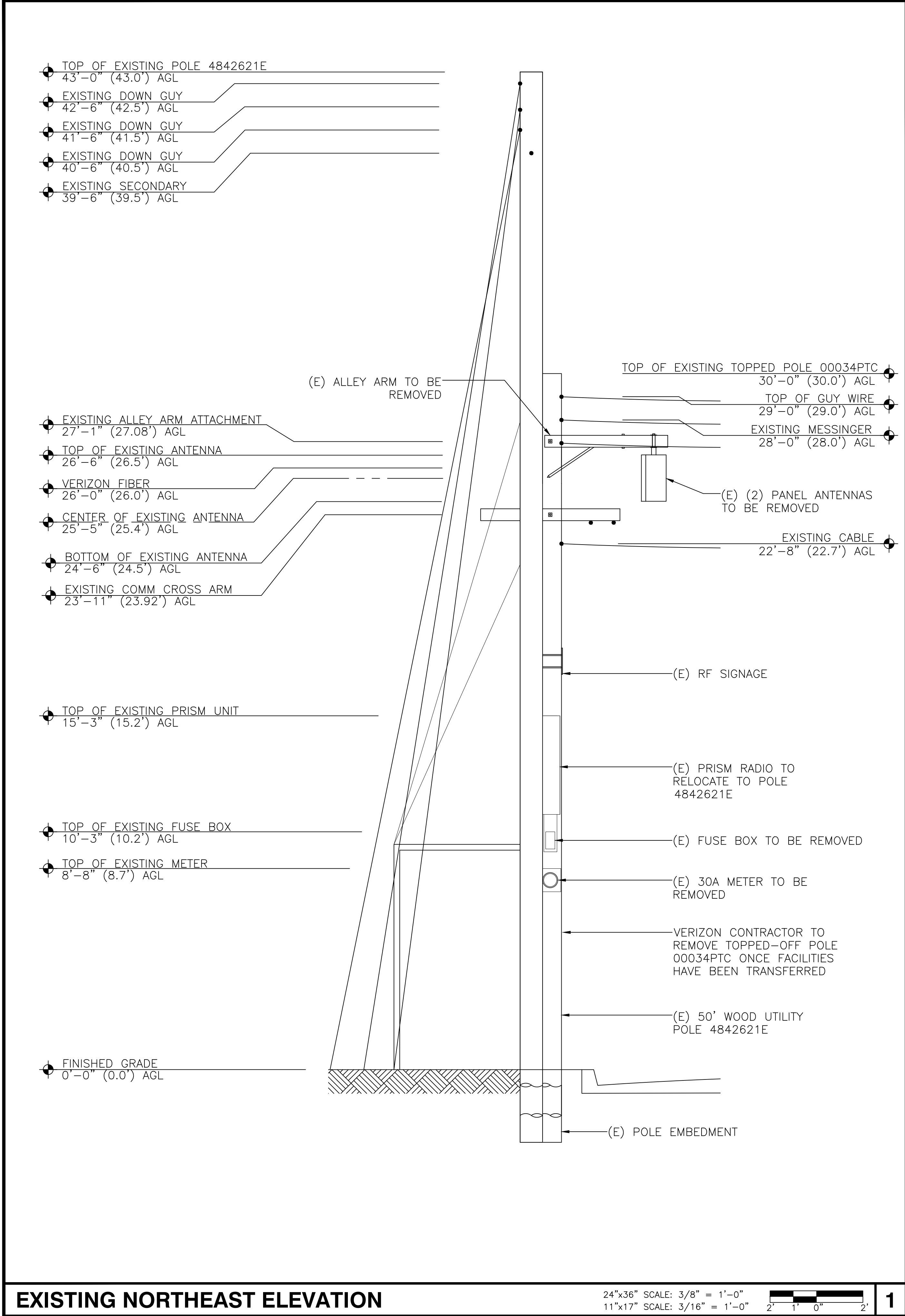
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PROPOSED NORTHWEST ELEVATION

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



2



15505 SAND CANYON AVE.
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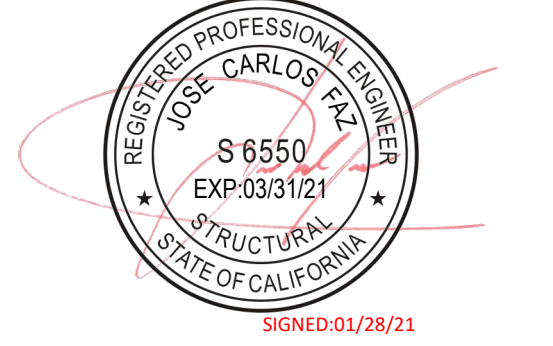
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SHEET TITLE

NORTHEAST
ELEVATIONS

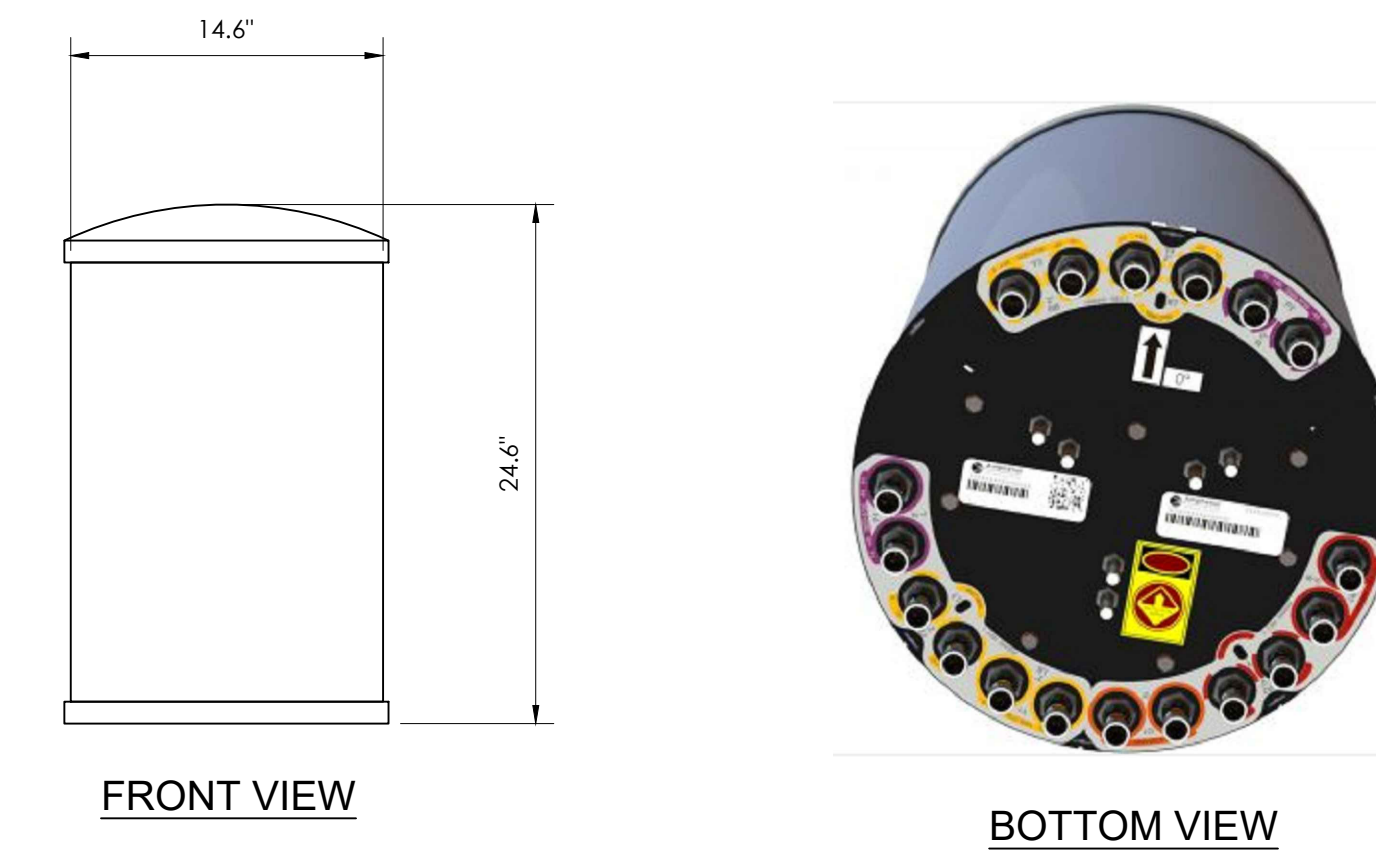
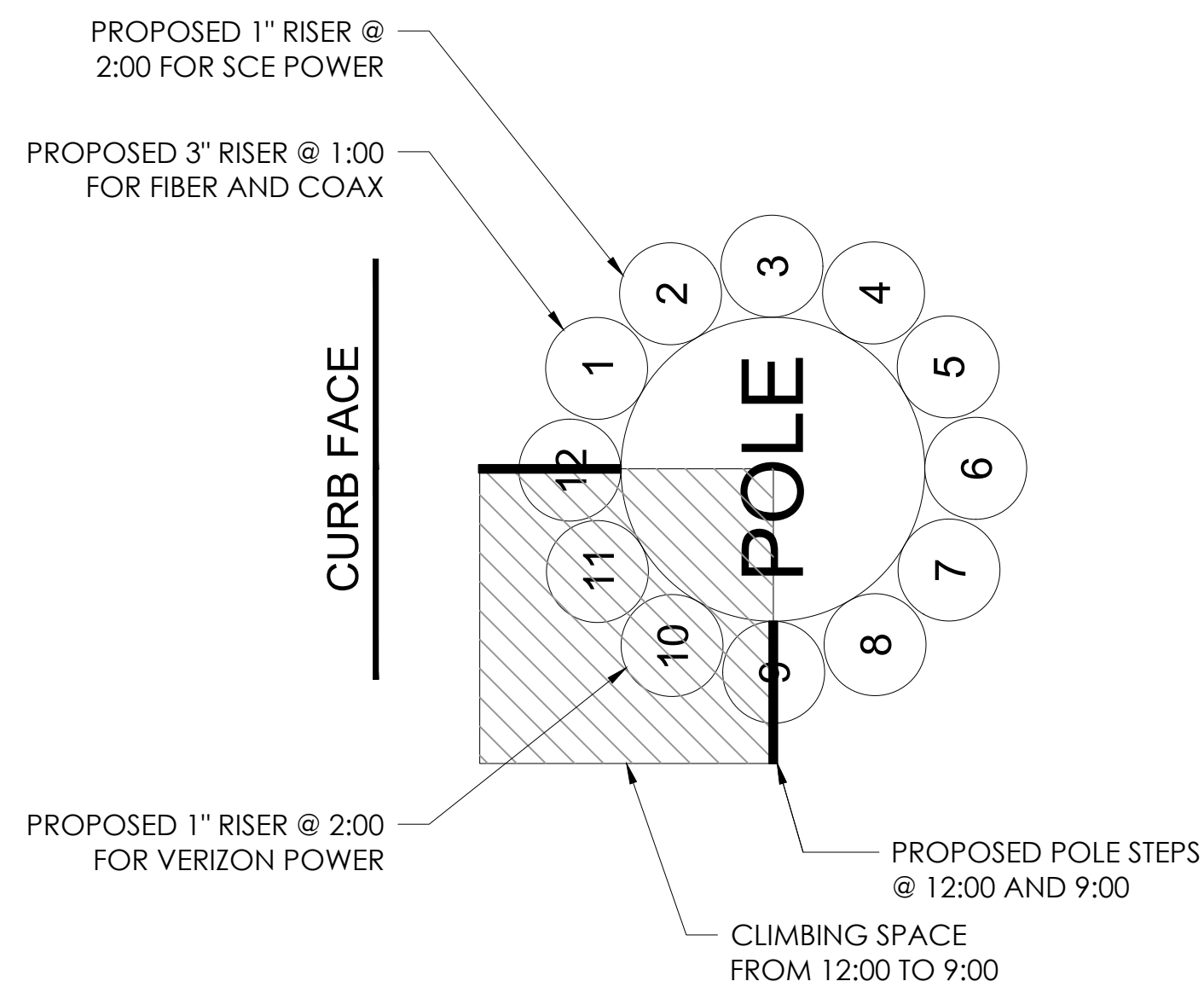
SHEET NUMBER

A4

EXISTING NORTHEAST ELEVATION

PROPOSED NORTHEAST ELEVATION

PROPOSED NORTHEAST ELEVATION



verizon[✓]
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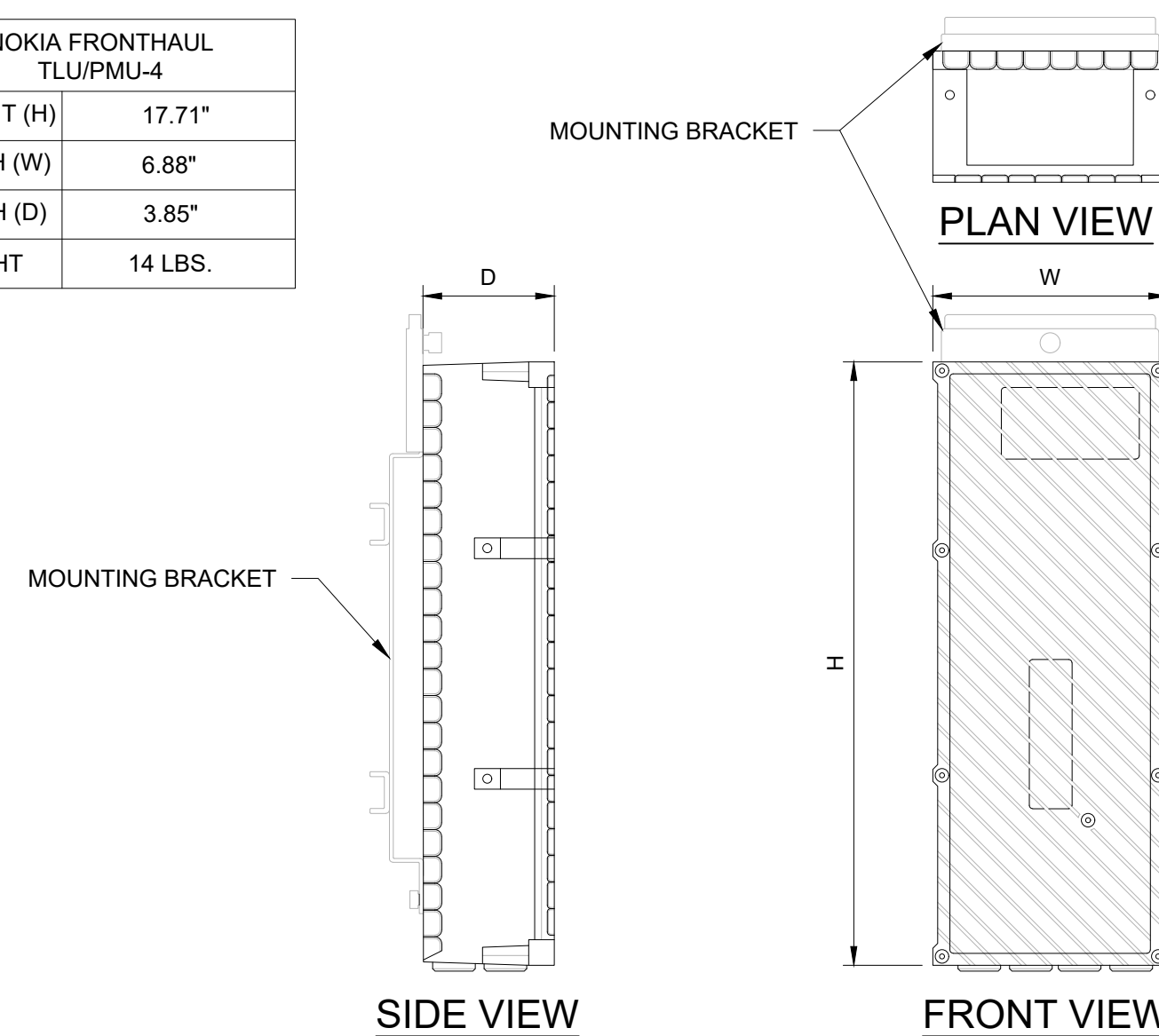
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IS INFRASTRUCTURE
P A R T N E R S
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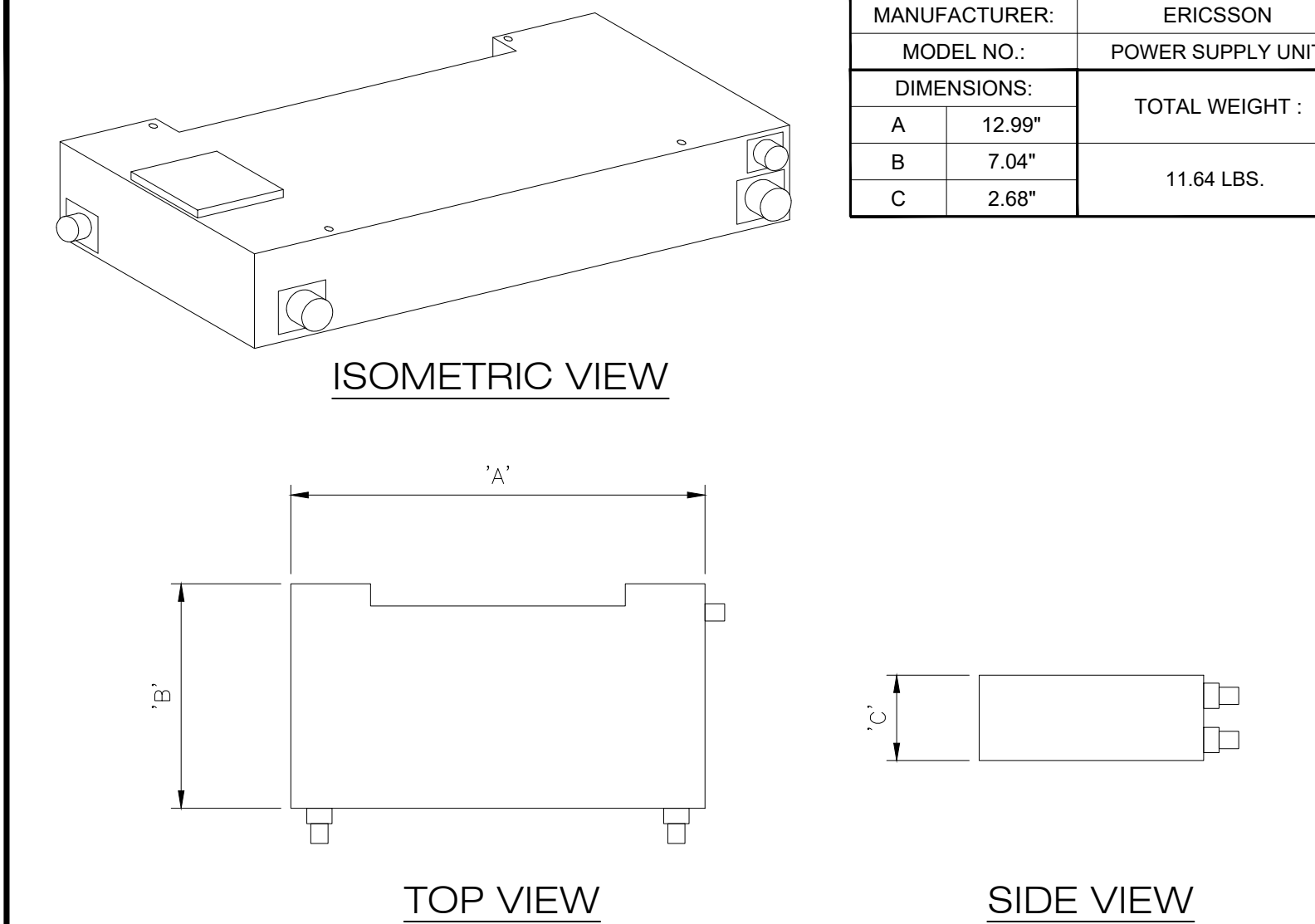
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

RISER DIAGRAM

NOKIA FRONTHAUL TLU/PMU-4	
HEIGHT (H)	17.71"
WIDTH (W)	6.88"
DEPTH (D)	3.85"
WEIGHT	14 LBS.

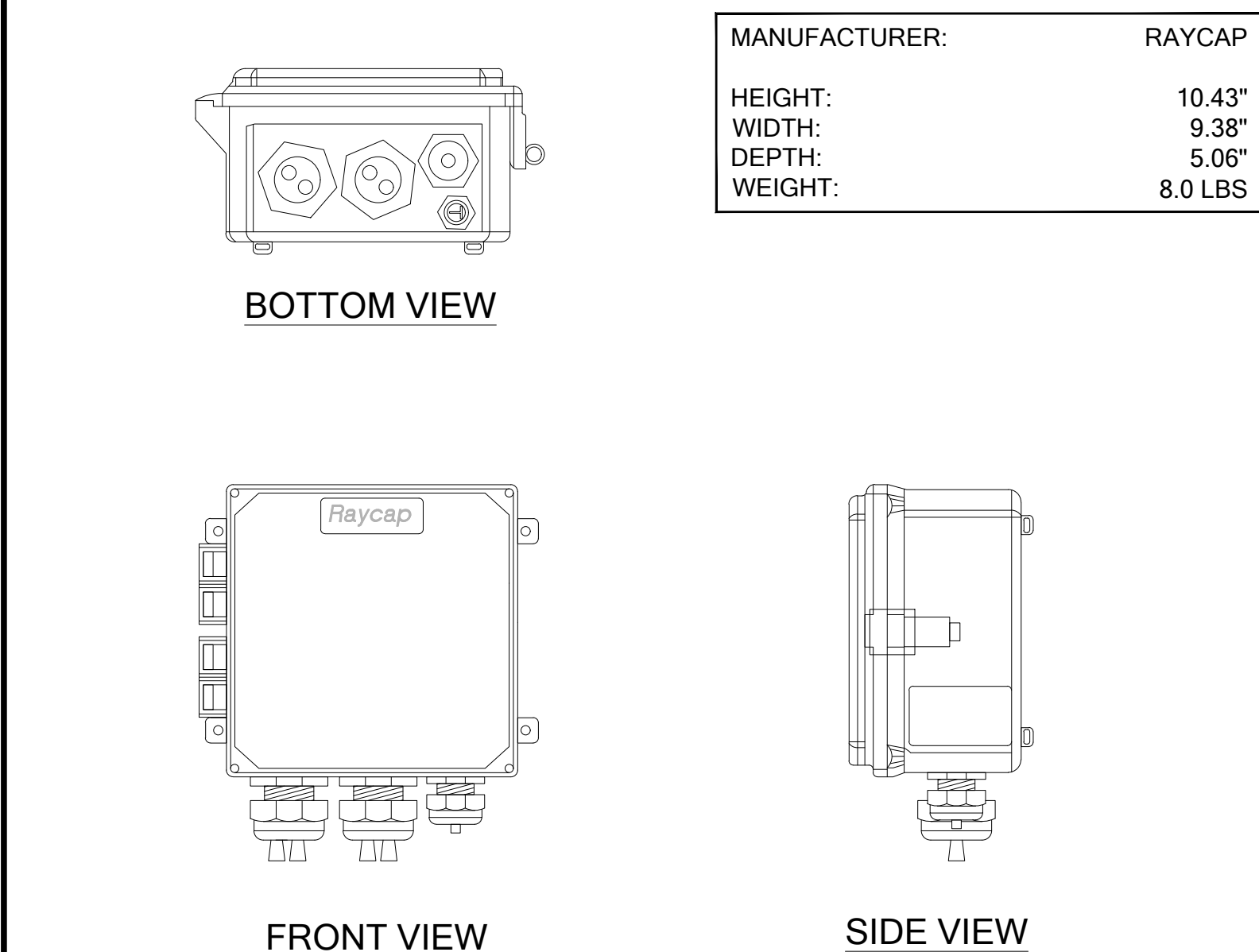


3	ANTENNA
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NOT USED

NOKIA FRONTHAUL TLU/PMU-4



NOT USED

NOT USED

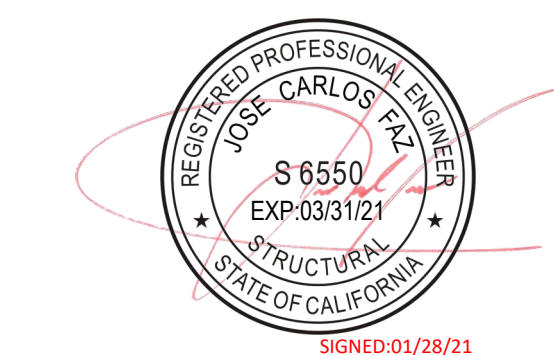
5	AC LOAD CENTER
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SITE NAME:
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POLE# 4842621E

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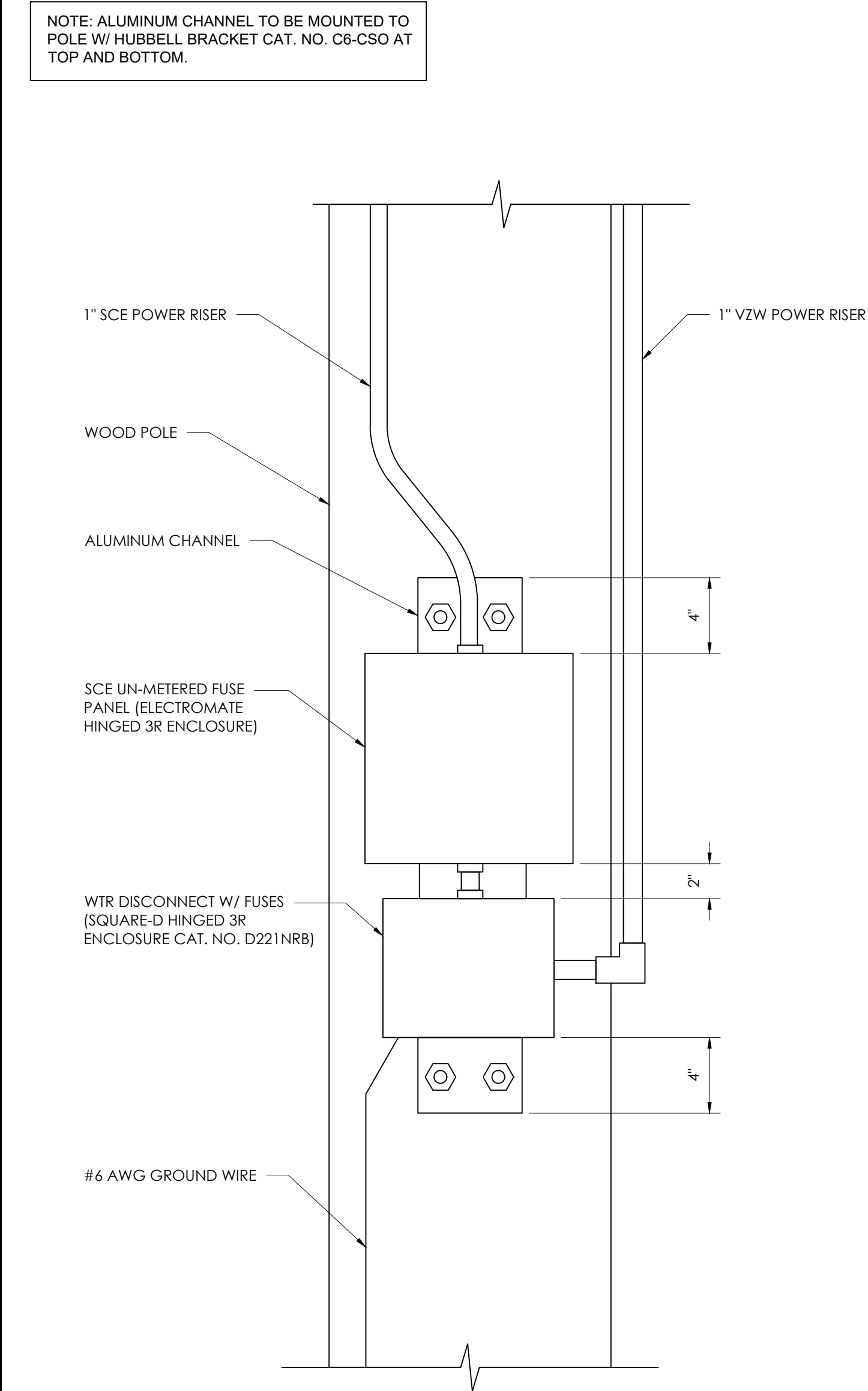
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SHEET TITLE

DETAILS

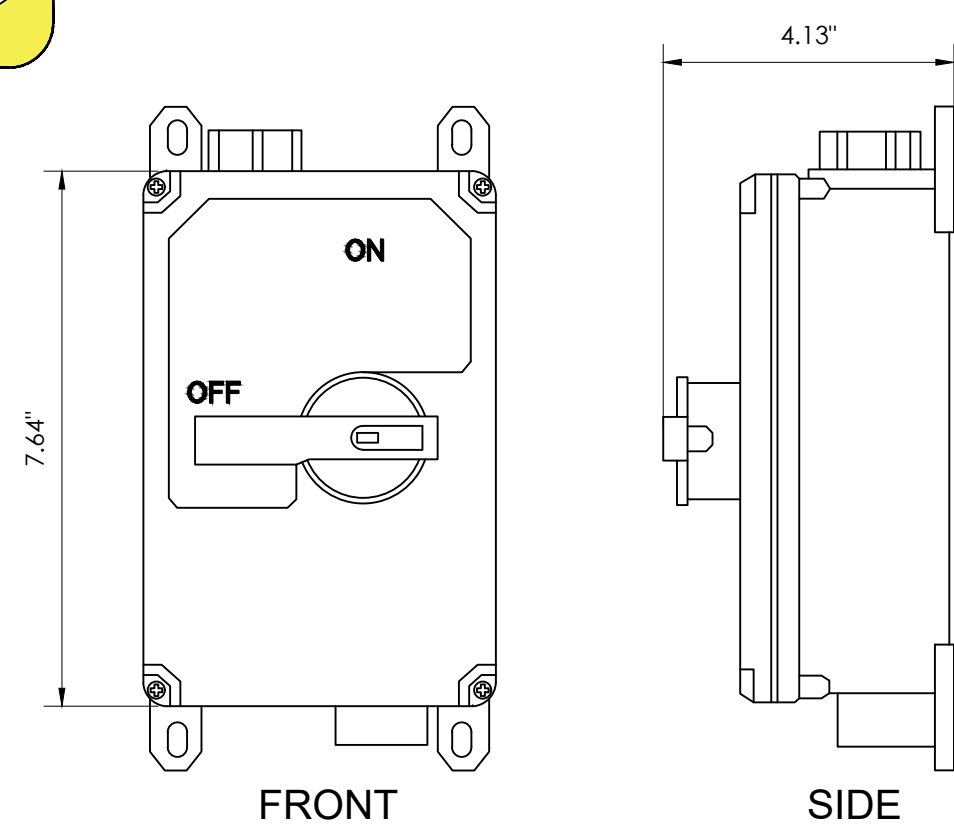
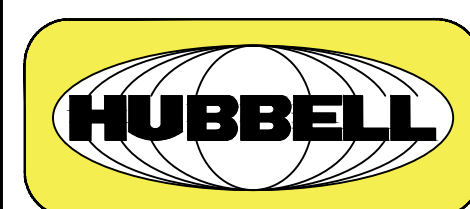
SHEET NUMBER

D1



SCE WTR U/G FUSE BOX

1

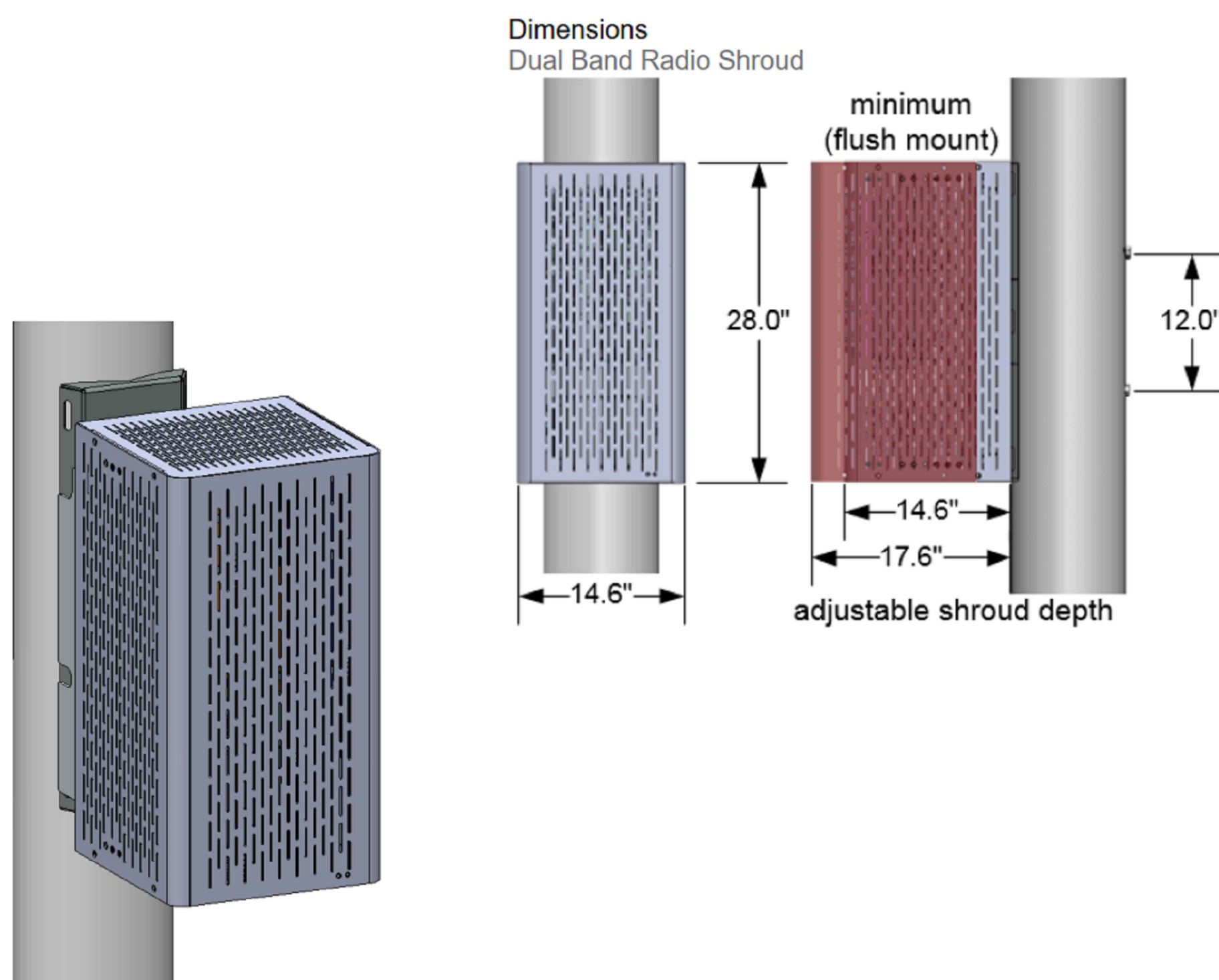


MANUFACTURER:	HUBBELL
MODEL NO.:	HBLDS3
DIMENSIONS:	7.64"x5.11"x4.13"

DISCONNECT SWITCH

2

DUAL BAND RADIO SHROUD



Pole Mounting Kits			
5-inch Stand-Off	3-inch Stand-Off	Flush Mount	
SXK 125 4600	SXK 125 4601	SXK 125 4602	grey
SXK 125 4600/A	SXK 125 4601/A	SXK 125 4602/A	black
SXK 125 4600/B	SXK 125 4601/B	SXK 125 4602/B	brown

TECHNICAL SPECIFICATIONS

PRODUCT NAME	PRODUCT NUMBER			WEIGHT	
	Grey:	Black:	Brown:	lbs.	kg.
Dual Band Radio Shroud (Base Shroud Kit)	SXK 125 4244	SXK 125 4244/A	SXK 125 4244/B	27.8	12.6
Add-On Bracket Kit	SXK 125 4550	SXK 125 4550/A	SXK 125 4550/B	12.8	5.8
Pole Mounting Kit with 5-inch Stand-Off Arms	SXK 125 4600	SXK 125 4600/A	SXK 125 4600/B	20.5	9.3
Pole Mounting Kit with 3-inch Stand-Off Arms	SXK 125 4601	SXK 125 4601/A	SXK 125 4601/B	19.4	8.8
Pole Mounting Kit, Flush Mount	SXK 125 4602	SXK 125 4602/A	SXK 125 4602/B	17.9	8.1

MOUNTING OPTIONS	SIZE
Anchor Bands (around metal or wooden poles)	up to 1-1/2" wide
Machine Bolts (through wooden utility poles)	up to 1/2" diameter
Mounting Arms (short)	flush mounted with pole (no PSU)
Mounting Arms (medium)	3" offset from pole
Mounting Arms (long)	5" offset from pole
Top & Bottom Covers (CAUTION: to avoid overheating, do not use with Radio 4449/8843)	14.6" x 14.6" fastened to shroud

MECHANICAL SPECIFICATIONS	MATERIAL
Shroud	0.13" Welded Aluminum Alloy 5052-H32
Pole Mounting Bracket	10 gauge Hot Rolled Steel FZV
Fasteners	316 Stainless Steel
Ground Bus Bar (2-hole lugs, 10 positions)	0.19" thick Copper with Stainless Steel KEPS nuts

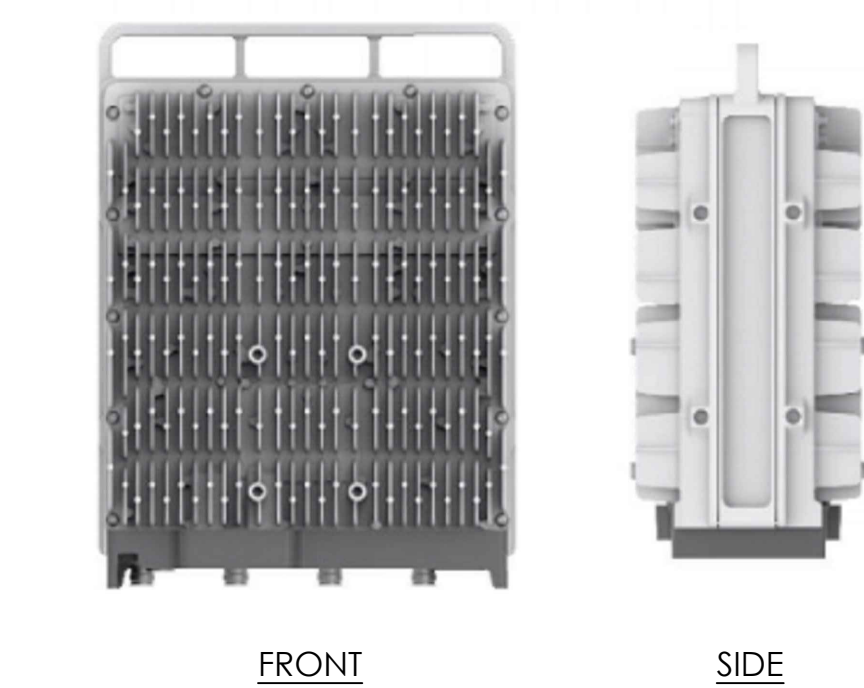
CONCEALMENT OPTIONS	MAX QUANTITY
Dual Band Radio 4449	1
Dual Band Radio 8843	1
1x ERS Macro Radio (Width ≤ 13.5")	1 (front-facing on 180mm Rail)
2x Radio 2212	2 (bookshelf mounted)
6x Radio 220x on 3x Dual Support Units	6 (3x Dual Support Units bookshelf mounted on 300mm Rail)
2x Radio 2217 + 1x Radio 220x + Power 6302	2+1+1 (requires Add-On Bracket Kit SXK 125 4550)
PSU AC 08 Rectifier Unit	2 (mounted behind shroud back plate)
RF Twin Diplexer with 4.3-10 connectors	2 (stacked on mounting bracket)
Fiber Distribution Box max 9" x 7" x 2" (230x180x50mm)	1 (holes drilled through mounting bracket)

PERFORMANCE	TEST
Maximum Equipped Weight	800 lbs. (363 kg)
Maximum Wind Speed	150 mph (240 km/h, 67 m/s)
Earthquake Resistance	Zone 4
Maximum Ambient Temperature	46°C (115°F)

REGULATORY COMPLIANCE	STANDARD
Telcordia	GR-487-CORE i5 (Class 4 Environment)
European Union	RoHS Directive 2011/65/EU

RADIO SHROUD DETAIL

3

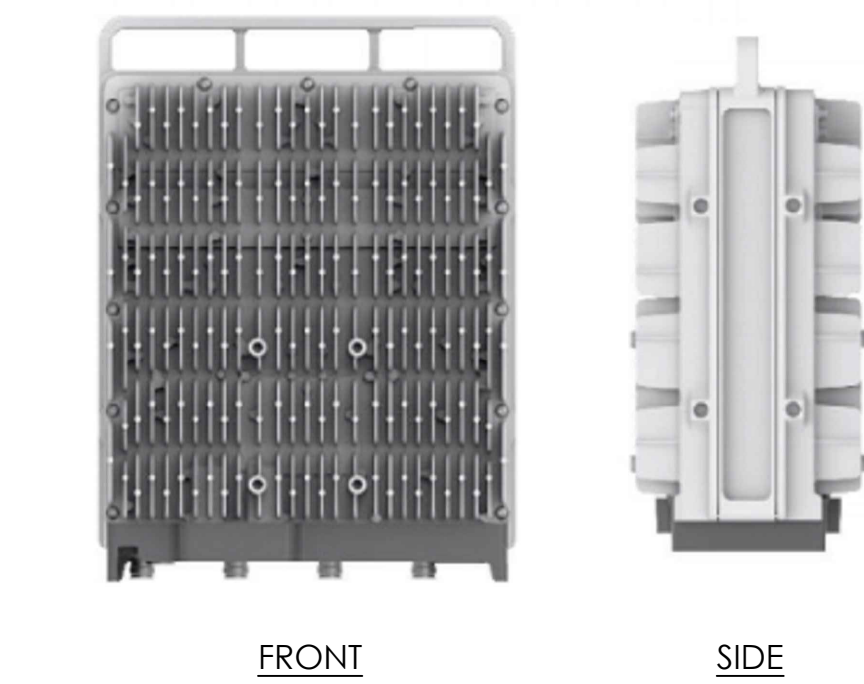


ERICSSON RADIO 8843 B2+B66A			
	HEIGHT	WIDTH	DEPTH
W/O PROTUDING ITEMS	15 IN.	13.2 IN.	11.1 IN.
W PROTUDING ITEMS	18 IN.	13.2 IN.	11.3 IN.

WEIGHT: 75 LBS

ERICSSON RRUS 8843

4

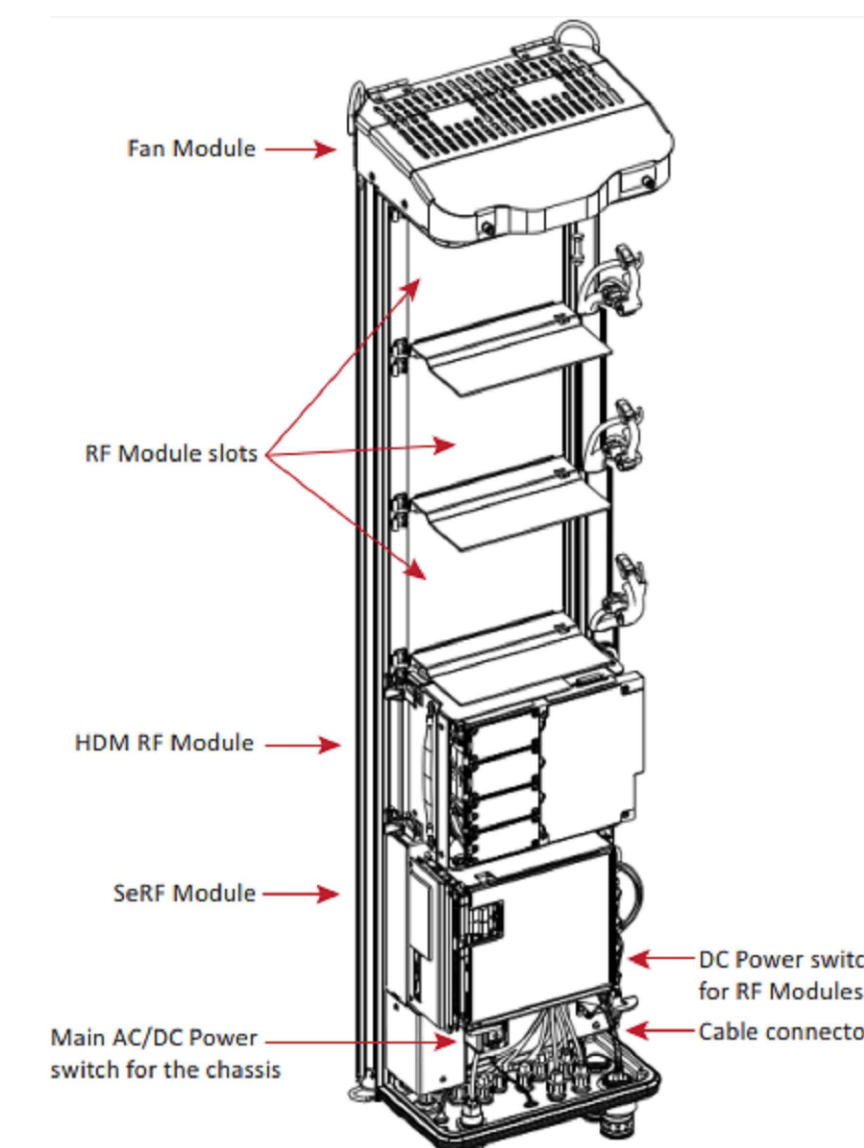


ERICSSON RADIO 4449 B13+B5			
	HEIGHT	WIDTH	DEPTH
W/O PROTUDING ITEMS	15 IN.	13.2 IN.	9.3 IN.
W PROTUDING ITEMS	18 IN.	13.2 IN.	9.4 IN.

WEIGHT: 70 LBS

ERICSSON RRUS 4449

5



PRISM RADIO UNIT			
PRU MODEL	HEIGHT	WIDTH	DEPTH
QUAD-BAY	52.4 IN.	12.2 IN.	11.2 IN.

MAX WEIGHT: 188 LBS.

Sound Pressure Level with Muffler (A-weighted)

Condition	Fan Speed	Measured Sound Pressure Level @ 5'			
		SPL (ref. 20µPa) dB A-weighted			
		Front	Left	Back	Right
Muffler Shroud	Low	48	46	47	47
Muffler Shroud	Medium	52	51	52	51
Muffler Shroud	High	59	57	58	58
Standard Shroud	Low	50	49	52	50
Standard Shroud	Medium	54	54	56	54
Standard Shroud	High	61	60	63	60

NOTE: MAXIMUM SOUND LEVEL FOR PRISM UNIT HIGHLIGHTED IN THE ABOVE TABLE.

EXISTING PRISM UNIT

6



15505 SAND CANYON AVE.
BLDG. D 1ST FLOOR
IRVINE, CA 92618

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2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

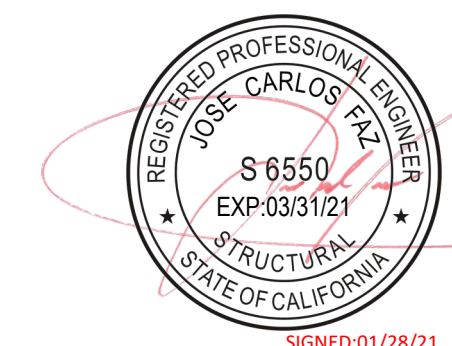
SITE NAME:
ROLLING HILLS
MC G3

POLE# 4842621E

SITE ADDRESS:

1/2 MILE NE OF 27301 HAWTHORNE BLVD
ROLLING HILLS ESTATES, CA 90274

REV	DATE	DESCRIPTION	
D	01/19/2021	90% CD (FINAL POWER)	PS
C	11/11/2020	90% CD	JO
B	10/27/2020	90% CD	JO
A	10/26/2020	90% CD	JO



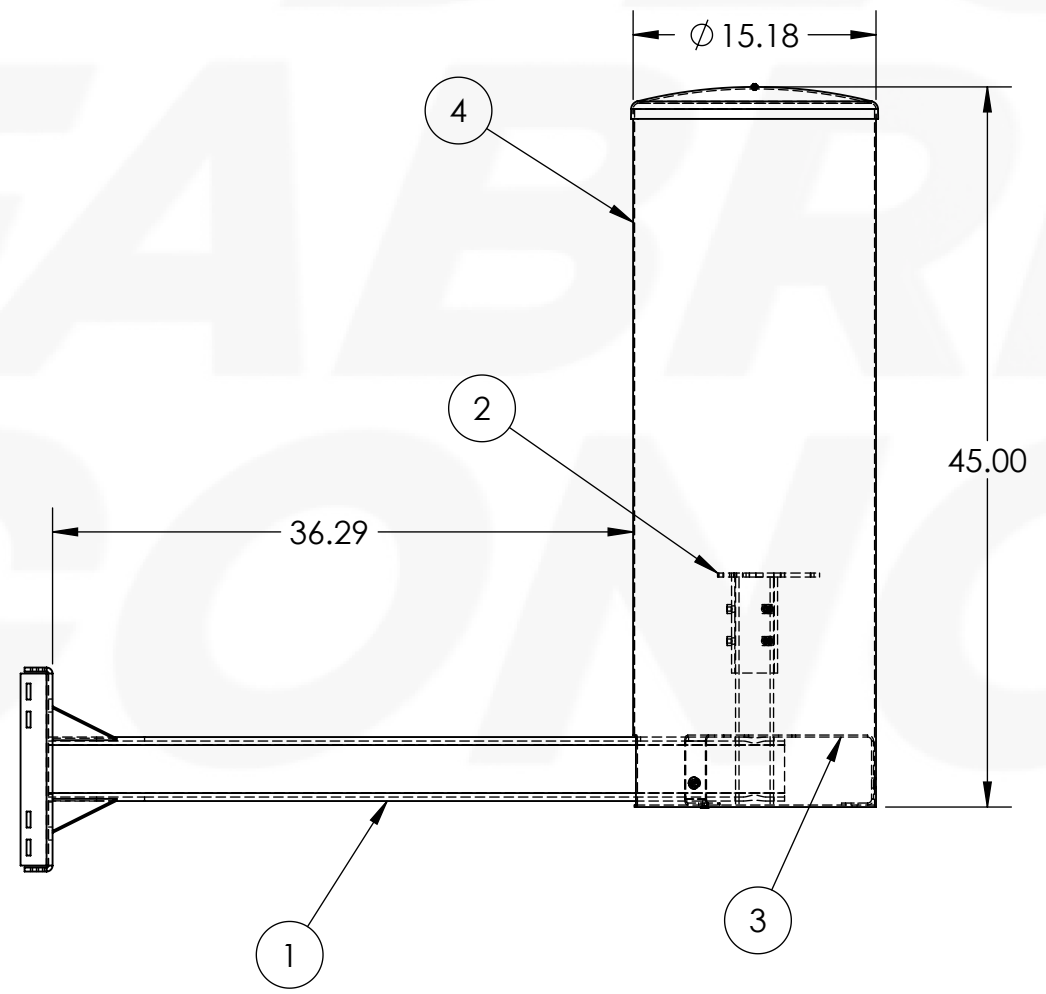
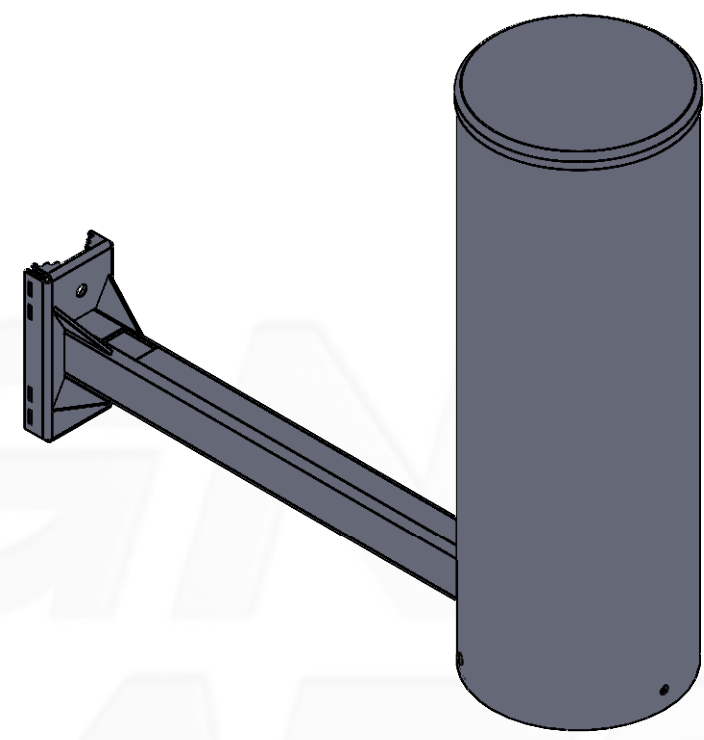
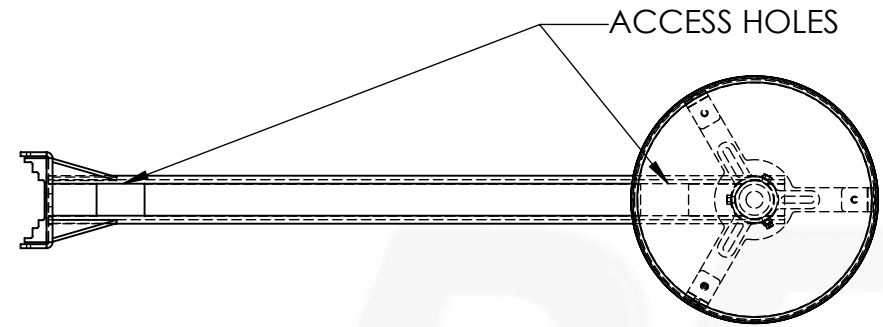
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SHEET TITLE

DETAILS

SHEET NUMBER

D2



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	SIDE ARM POLE MOUNT	STEEL, SEE SHEET 2	1
2	ANTENNA SLEEVE	STEEL, SEE SHEET 3	1
3	RADOME ATTACHMENT	STEEL, SEE SHEET 3	1
4	15ID RADOME ASSEM	ABS PLASTIC, .080" THICK	1

STAMP



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
BEND ±
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
MATERIAL:
FINISH:

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APPROVALS & DATES

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LABELED AS CONSTRUCTION SET

SITE NUMBER

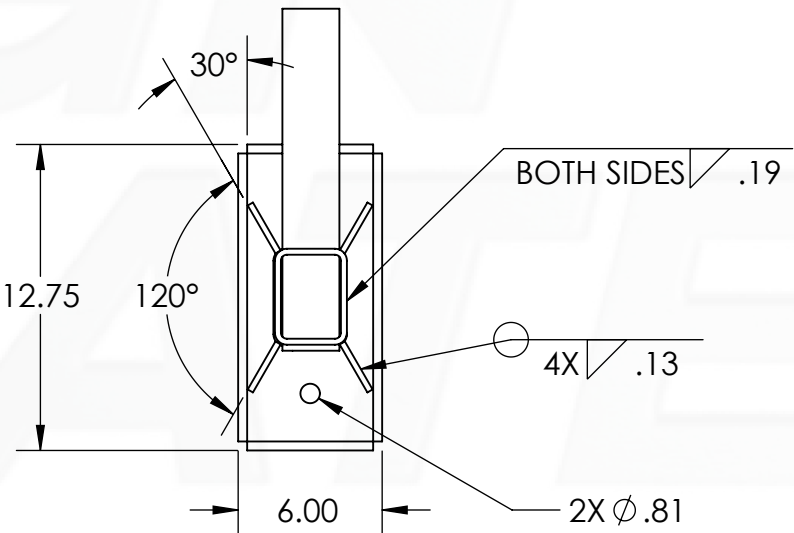
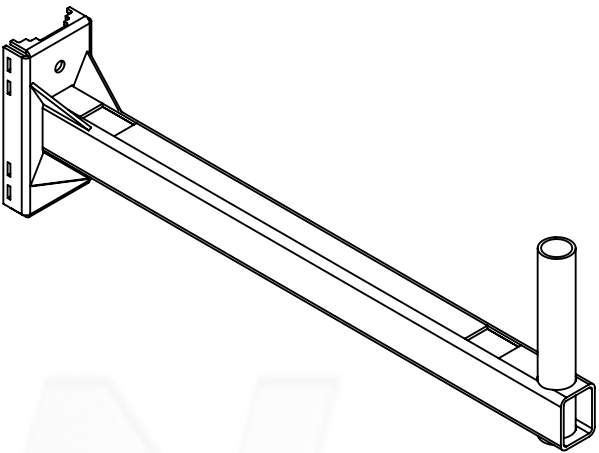
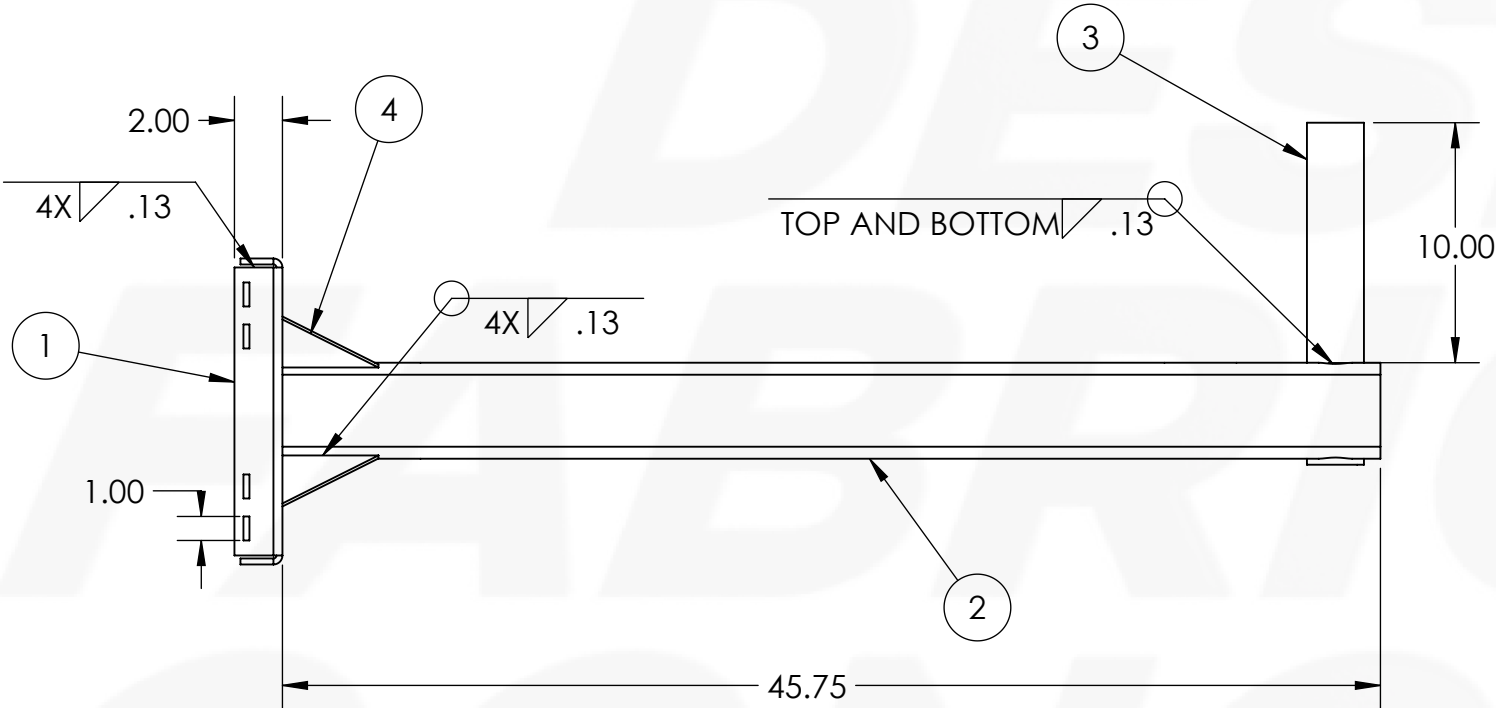
SITE NAME

PRODUCT ID #
SIDE ARM POLE MOUNT DETAILS rev B

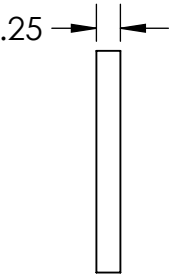
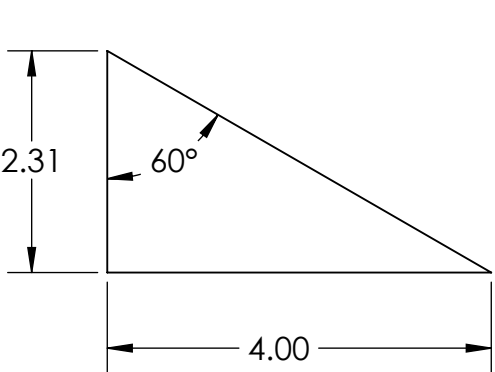
REV	A
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PRODUCT
DESCRIPTION

SIDE ARM POLE MOUNT:



GUSSET:



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	CHANNEL	A36 HOT ROLLED STEEL, .250" THICK	1
2	TUBE ARM	A500 STEEL TUBE 3"X4"X.188"	1
3	2" PIPE	SCHEDULE 40 STEEL PIPE 2" NOMINAL	1
4	GUSSET	A36 HOT ROLLED STEEL, .250" THICK	4

STAMP



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
BEND ±
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005
MATERIAL:
FINISH:

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SITE NUMBER

SITE NAME

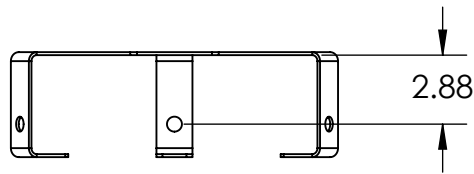
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SIDE ARM POLE MOUNT DETAILS rev B

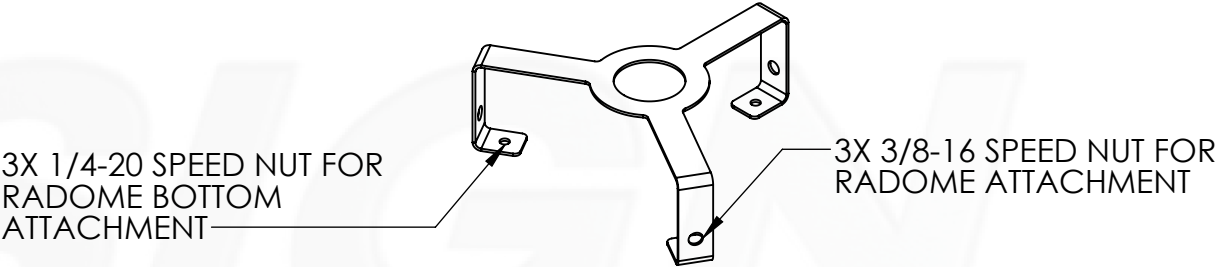
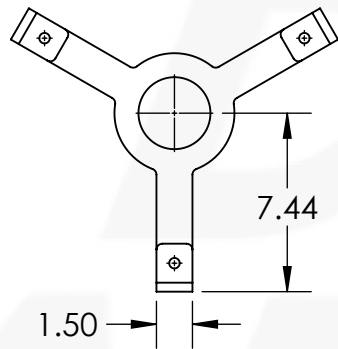
REV A

PRODUCT
DESCRIPTION

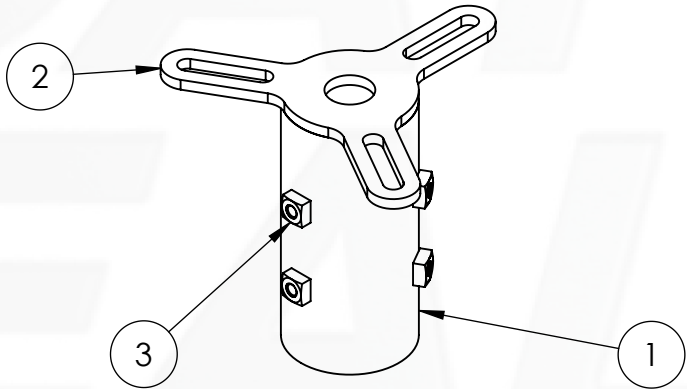
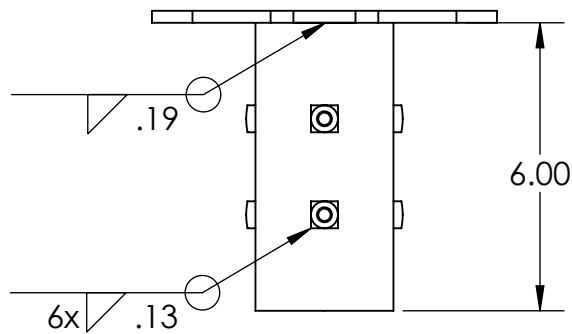
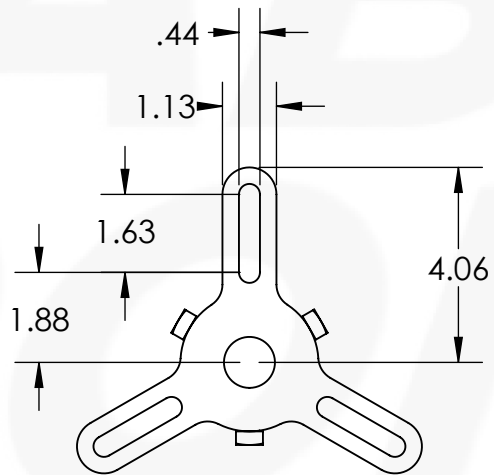
RADOME ATTACHMENT:



MATERIAL: A36 HOT ROLLED STEEL, .125" THICK



ANTENNA SLEEVE:



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	PIPE SLEEVE	SCHEDULE 40 STEEL PIPE 2.5" NOMINAL	1
2	ANTENNA MOUNT PLATE	A36 HOT ROLLED STEEL, .250" THICK	1
3	SQNUT 0.3125-18-S-N		6

STAMP



UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE INCHES
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ±
BEND ±
TWO PLACE DECIMAL ±.010
THREE PLACE DECIMAL ±.005

MATERIAL:
FINISH:

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APPROVALS & DATES

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

SITE NUMBER

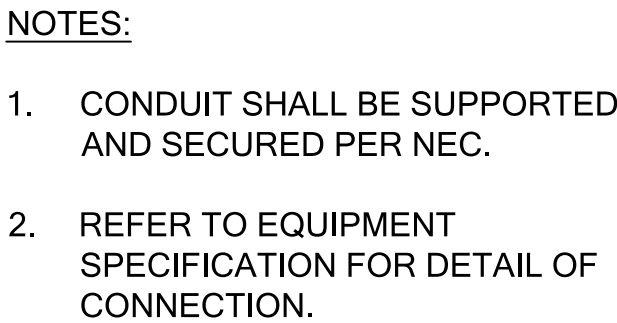
SITE NAME

PRODUCT ID #

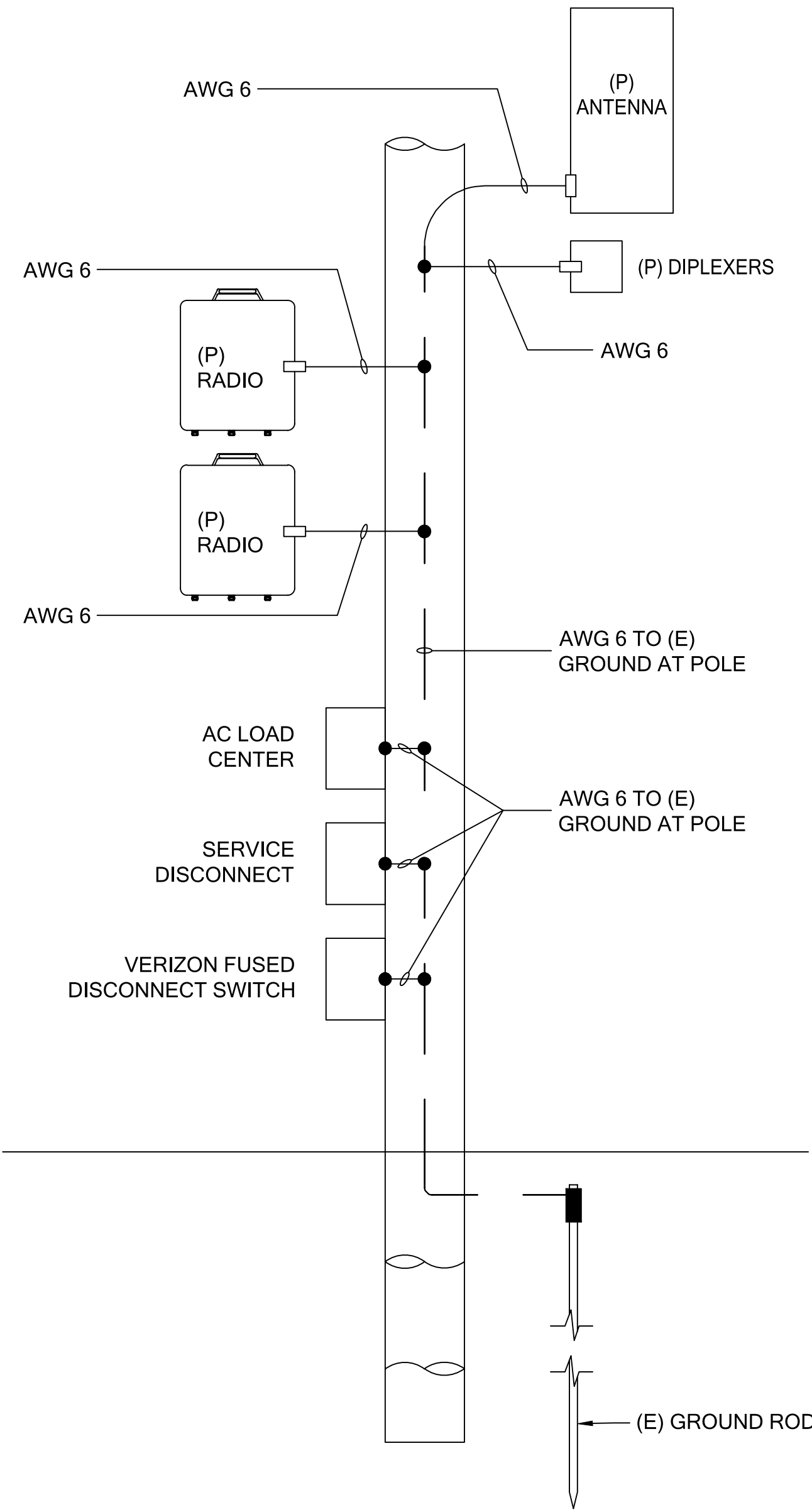
SIDE ARM POLE MOUNT DETAILS rev B

REV A

PRODUCT
DESCRIPTION



E1

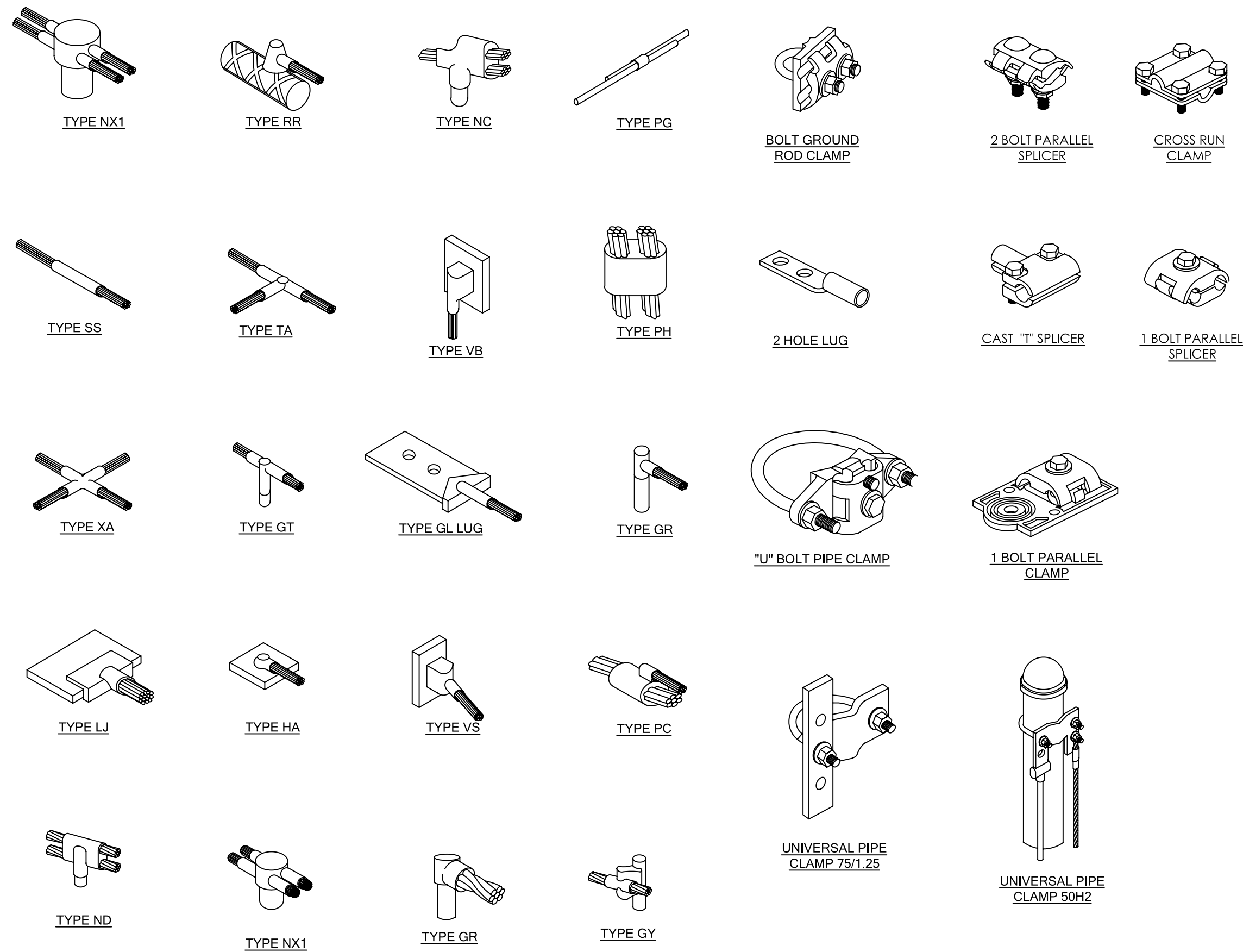


POWER INFORMATION
POWER COMPANY: SCE
SERVICE AMPS: 30
VOLTAGE: 120/240
PHASE: 3
METER NUMBER: N/A (WTR)

- ALL GROUNDING WORK SHALL COMPLY WITH THE LATEST EDITION OF THE CALIFORNIA ELECTRICAL CODE, AS WELL AS WITH ALL LOCAL, STATE, AND NATIONAL CODES, LAWS, AND ORDINANCES APPLICABLE TO GROUNDING WORK.
- EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
- THE CONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATION SO AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION SHALL BE ACCORDING TO SPECIFIC SITE CONDITIONS.
- GROUNDING CONDUCTORS SHALL BE #2 AWG SOLID BARE TINNED COPPER WIRE, UNLESS NOTED OTHERWISE.
- APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- INSTALL GROUND CONDUCTORS AND GROUND ROD A MINIMUM OF 1'-0" FROM CONCRETE SLAB, FOOTING, OR FENCE.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY AN ELECTRICAL CONTRACTOR.
- MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
- METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE AND UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
- GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE HOUSED IN CONDUIT TO MEET CODE REQUIREMENTS OR LOCAL CONDITIONS, NON-METALLIC MATERIAL SUCH AS PVC PLASTIC CONDUIT SHALL BE USED. WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (E.G., NON-METALLIC CONDUIT PROHIBITED BY LOCAL CODE) THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
- CHEMICAL GROUND SHALL BE XIT, CHEM-ROC, OR APPROVED EQUAL, WHEN REQUIRED.
- CONNECTIONS TO THE GROUND BARS SHALL NOT BE DOUBLED UP OR STACKED. BACK-TO-BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BAR ARE PERMITTED.
- NOTIFY PROJECT MANAGER IF THERE ARE DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SOIL CONDITIONS.
- ANY EQUIPMENT, BOX, SKID TO BE GROUNDED AND DOES NOT HAVE A DESIGNATED GROUND CONNECTION SHALL BE DRILLED AS NECESSARY TO CONNECT A GROUND WIRE. REMOVE PAINT IN AREA UNDER LUG. APPLY ANTI-OXIDANT COMPOUND AND CONNECT WITH TWO-HOLE, COMPRESSION LUG.

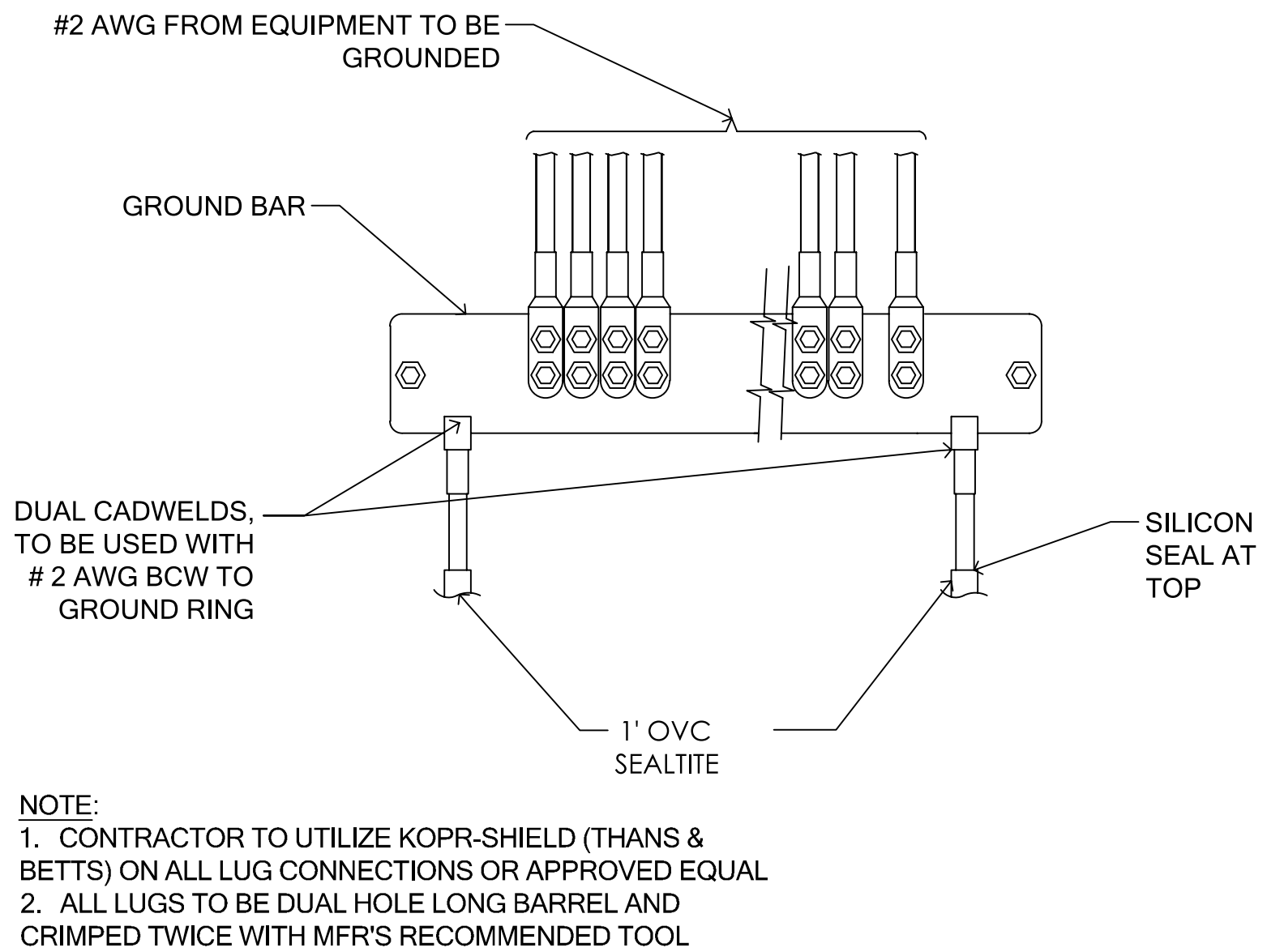
GROUNDING NOTES

N.T.S. 4

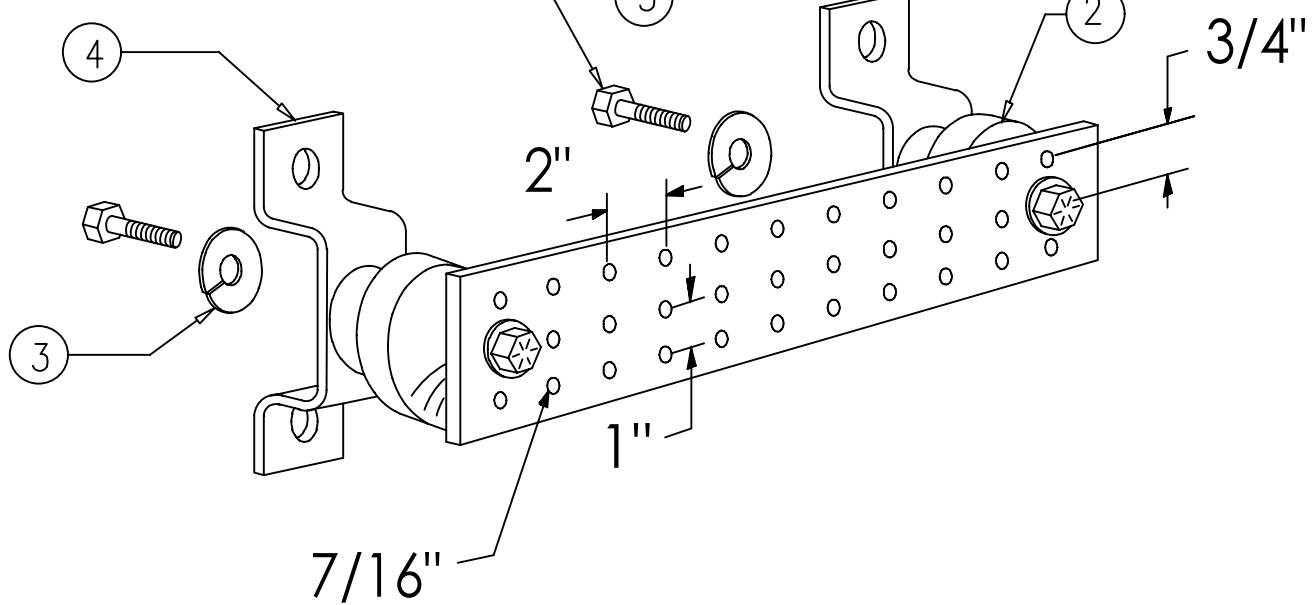


EQUIPMENT GROUNDING

N.T.S. 1



NOTE: ALL HARDWARE SHALL BE STAINLESS STEEL



LEGEND:

- COPPER GROUND BAR, 12"x1/4"x20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH MEMA DOUBLE LUG CONFIGURATION (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3064-4 OR EQUAL
- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUAL
- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT. NO. A-6056 OR EQUAL
- 5/8"-11x1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT. NO. 3012-1 OR EQUAL
- INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPOLE STRUCTURE. CONNECTION TO TOWER/MONOPOLE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

GROUND BAR DETAIL

N.T.S. 2

GROUND BAR DETAIL

N.T.S. 3

TYPICAL GROUND CONNECTIONS

N.T.S. 5

verizon

15505 SAND CANYON AVE.
BLDG. D 1ST FLOOR
IRVINE, CA 92618

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INFRASTRUCTURE
P A R T N E R S

2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

SITE NAME:
ROLLING HILLS
MC G3

POLE# 4842621E

SITE ADDRESS:
BEHIND 5031 SILVER ARROW DR ON
HAWTHORNE BLVD
RANCHO PALOS VERDES, CA 90275

REV	DATE	DESCRIPTION	
E	09/10/2020	90% CD	JO
D	07/22/2020	90% CD	JO
C	06/17/2020	90% CD	PA
B	05/28/2020	90% CD	JO
A	03/04/2020	90% CD	JO



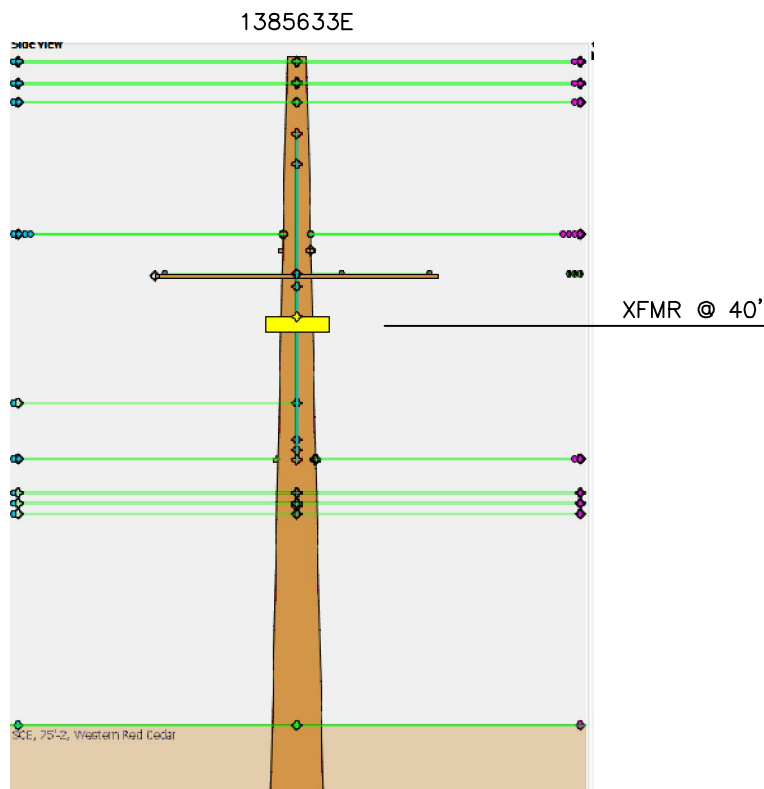
EXP: 06/30/2022

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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER

G1



EX: 653.9-61
EX: 336A-16
EX: 1/0-120

EXISTING

1385633E

1

75'
Class C2
RM: 1- TR OH 5KVA 16KV 120/240 1P
IN: 1- TR OH 25KVA 16KV 120/240 1P
SN: _____
IN: 2- FE CO OPEN 100A 16KV 1-EA
IN: 1- MISC AVIAN TRANS BUSHING COVER 2.89X9.06
IN: 1- GR OH #6 SOL WP SECONDARY W/ROD

BLACKHORSE RD

VD: 1.61%
LOAD: 3.6KW
TIER: 15
AMPS: 30

FINAL DESIGN APPROVED FOR CONSTRUCTION

EX: 1385635E POLE
75'

EXISTING

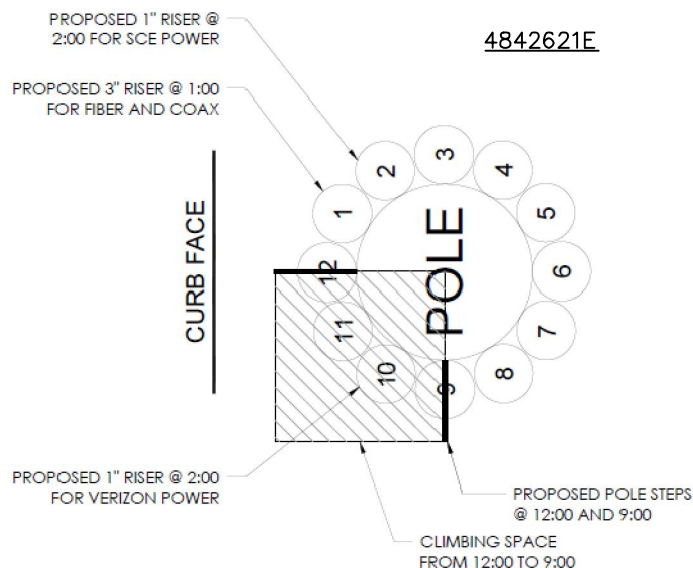
4842621E

2

50'
Class C2
IN: 1- SEC 1" PVC RUN FOR NON-METERED CELLULAR
IN: 20- CBL #8 CU 1/C 600V TW WHITE IN DUCT
IN: 40- CBL #8 CU 1/C TW BLACK IN DUCT

T.L.M. DATA:
SIZE KVA CUST % LOAD
EXIST. 5 5.9 4 118.8%
PROP. 25 10.1 5 40.4 %
VOLTAGE DROP: 1.61%
FLICKER FACTOR: N/A
PRI. CIRCUIT: QUICKSILVER 16KV

CUSTOMER NOTES:
ENERGIZED UNTIL VERIZON REQUESTS
FORMAL REMOVAL THROUGH LOCAL
PLANNING AFTER NEW FUSE BOX IS
INSTALLED



SCE Inspection
Contact SCE 48 Hours in advance
for a Pre-Construction meeting
and/or Inspection.
Email: NDPFCS@SCE.COM

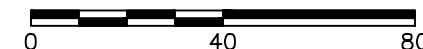
PROJECT REQUIREMENTS (Y/N)

EDISON EASEMENT REQUIRED ☐ N
PWRD 88 REQUIRED ☐ N
UG CIVIL ONLY WORK ORDER ☐ N
PERMIT REQUIRED ☒ Y
PERMIT TYPE: ENCROACHMENT
OUTAGE REQUIRED ☒ Y
OUTAGE DATE: _____ TIME: _____
TRAFFIC CONTROL REQUIRED ☒ Y
PED. TRAFFIC CONTROL REQ'D ☒ Y
CONVEYANCE LETTER REQ'D ☐ N
ENVIRONMENTAL CLEARANCE REQ'D ☐ N
CSD 140 (TLM) REQ'D ☐ N

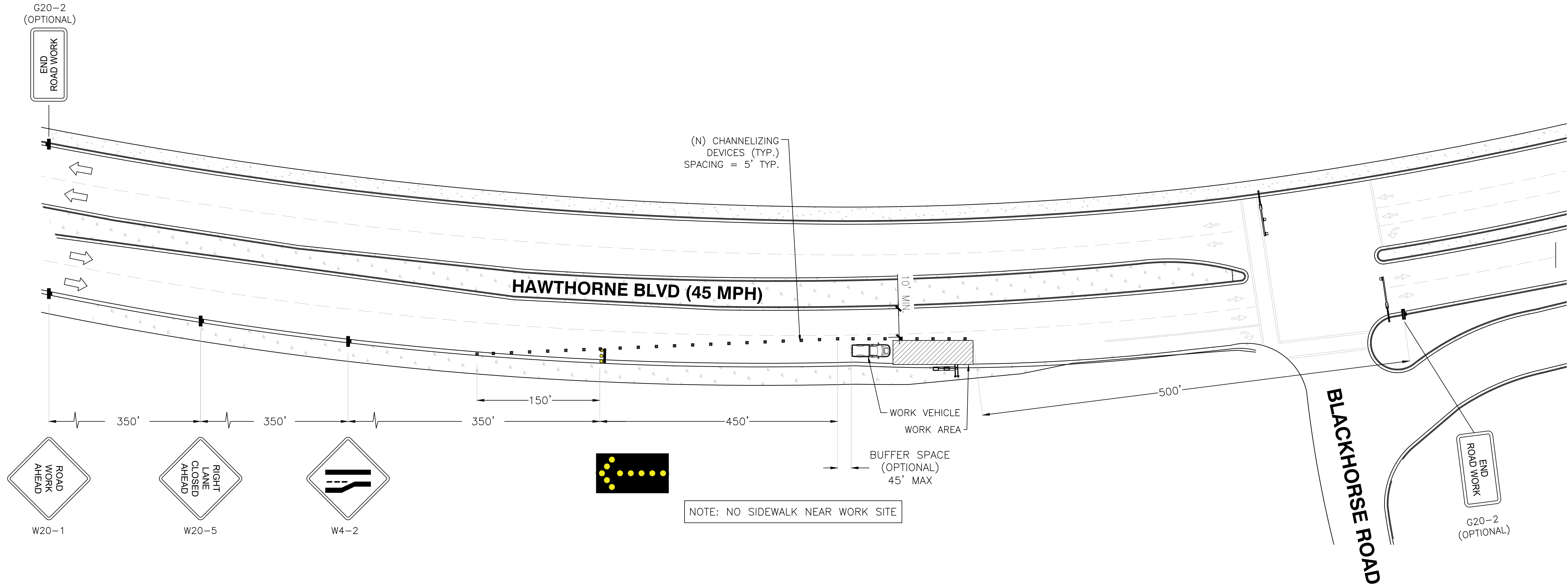
D124: Rev. 02/08/18



SCALE: 1" = 40'



DISTRICT 44 – SOUTH BAY			PROJ. MGR. DAVID LAW PHONE			PLANNER ERIC YOON PHONE 6226–308–6165			DESIGNER ERIC YOON		
PROJECT NO. 2037309		SERVICE REQUEST 2935427		MSR NO.		PRODUCT–1 1759315–NEW METER & SERVICE				ASSOC DESGN 1324430	
CIRCUIT / VOLTAGE QUICKSILVER 16KV				THOMAS GUIDE		PRODUCT–2				ASSOC DESGN	
SUB / PG NO. CREST SUB				CIRCUIT CODE		PRODUCT–3				ASSOC DESGN	
INVENTORY MAP 31–64D				J.P.A. NO.			PROPOSED CONSTRUCTION (LOCATION) VERIZON ROLLING HILLS MC G3 LOT R/O 5031 SILVER ARROW DR RANCHO PALOS VERDES, CA 90275				
F				ERIC YOON	46165						
TYPE	DATE	APPROVED BY	CHECKED BY	DRAWN BY	PAX #	SHEET 1 OF 1			DESIGN\DRWG NO. 1324430 0.01		
Southern California Edison Company											



General Notes:

- All traffic control devices shall conform to the latest edition of the California Manual on Uniform Traffic Control Devices.
- It is the responsibility of the Contractor performing work to install and maintain the traffic control devices as shown herein, as well as any such additional traffic control devices as may be required to ensure the safe movement of vehicular and pedestrian traffic through or around the closure area and provide the maximum protection and safety to workers.
- All traffic control devices shall be kept in their proper position at all times and shall be repaired, replaced, or cleaned as necessary to preserve their appearance and continuity.
- Any revisions to the drawings shall be approved in writing by the City of Rancho Palos Verdes Public Works Department Director, or his authorized representative.
- The City of Rancho Palos Verdes Public Works Department reserves the right to observe the traffic control operations and to make any necessary changes. Any directed changes shall supersede these plans and shall be implemented at the sole expense of the Contractor.
- The Contractor shall remove temporary delineation, signage, and other devices when no longer required, and shall restore areas to original conditions.
- The Contractor shall cover existing signs where they conflict with construction detours and signing.
- Working hours shall be from 9am to 3pm, Monday through Friday, unless otherwise approved by the City. Work is not permitted on weekends or City holidays without prior written consent from the City.
- The Contractor shall notify the City of Rancho Palos Verdes Public Works Department 48 hours in advance of beginning work at 310-544-5252.
- Implementation of traffic control shall be performed by a professional temporary traffic control company and flagger control shall be conducted in accordance with the latest edition of the California Manual on Uniform Traffic Control Devices.
- Temporary No Parking signs shall be installed by the Contractor at least 72 hours in advance of traffic control implementation. Temporary No Parking signs shall be made of weather resistant material and shall be posted so that there is a minimum distance of 3' between the bottom of the sign and the ground surface.
- The Contractor shall provide for access to all adjacent properties during work hours. Construction operations shall be conducted in such a manner as to cause as little inconvenience as possible to abutting property owners/operators.
- The Contractor shall provide for safe pedestrian access at all times.
- The Contractor shall provide flagmen as indicated on the plan, at all times traffic control is in place, to give adequate warning to traffic or to the public of any unexpected conditions to be encountered.
- All open excavation or construction work shall be a minimum of 5' from any operating traffic lanes.
- The Contractor shall post uneven pavement signs, and ramp pavement vertical offset of 1 inch or more with asphalt for smooth transition.
- All signs shall be reflectorized and standard size.
- All flashing arrow signs shall be solar-powered.
- All tubular delineators and cones shall be 28" minimum height, reflectorized, and maintained erect in the indicated position at all times, and shall be repaired, replaced, or cleaned as necessary to preserve their appearance and continuity.
- The Contractor shall maintain, on a continuous basis, all signs, delineators, barricades, etc., to ensure proper flow and safety of traffic during construction.
- The Contractor shall have all signs, delineators, barricades, etc., properly installed prior to commencing construction.
- Remove or turn off signs during non-work hours.
- Metropolitan Transportation Authority (MTA) and Palos Verdes Peninsula Transit Authority (PVPTA) bus stops impacted. Contractor shall notify MTA at (213) 922-4632 and PVPTA at (310) 544-7108 at least 48 hours prior to construction and must be acknowledged by MTA and PVPTA dispatch.
- When work requires the use of steel plates, they shall be of the non-skid type, recessed to be flush with the pavement surface, pinned to be secured in place, and installed in accordance with Caltrans standards. Advance warning signs shall also be implemented for the entire duration of time the steel plates are in place.
- Contractor shall notify the Los Angeles County Fire Department (LACFD) at least 72 hours in advance of starting work. The closest fire station to the construction site shall be contacted at the following locations:
 - Fire Station 53 on 6124 Palos Verdes Dr. South at (310) 377-3333
 - Fire Station 106 on 27413 Indian Peak Rd. at (310) 377-9523
 - Fire Station 83 on 83 Miraleste Plaza at (310) 831-4624 Some areas may be served by more than one fire station. It is the permit applicant's responsibility to notify LACFD when a full street closure occurs.
- It is the applicant's responsibility to notify the following emergency services at least 72 hours in advance of starting work when a full street closure occurs:
 - Mc Cormick Ambulance: dperez@mccormickambulance.com & Mjones@mccormickambulance.com
 - Lomita Sheriff Department on 26123 Narbonne Ave., Lomita CA at (310)539-1661

verizon

15505 SAND CANYON AVE.
BLDG. D 1ST FLOOR
IRVINE, CA 92618

THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO VERIZON WIRELESS ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO VERIZON WIRELESS IS STRICTLY PROHIBITED

INFRASTRUCTURE
P A R T N E R S
AZ - CA - CO - ID - NM - NV - TX - UT

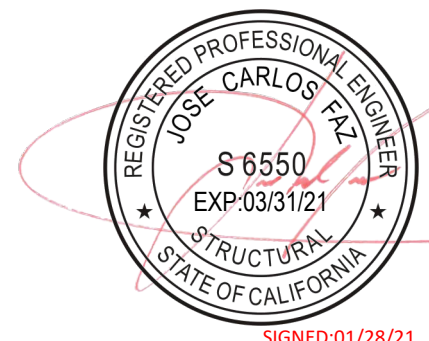
2030 MAIN STREET, SUITE 200
IRVINE, CA 92614

SITE NAME:
ROLLING HILLS
MC G3

POLE# 4842621E

SITE ADDRESS:
½ MILE NE OF 27301 HAWTHORNE BLVD
ROLLING HILLS ESTATES, CA 90274

REV	DATE	DESCRIPTION	
D	01/19/2021	90% CD (FINAL POWER)	PS
C	11/11/2020	90% CD	JO
B	10/27/2020	90% CD	JO
A	10/26/2020	90% CD	JO



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SHEET TITLE
TRAFFIC CONTROL
PLAN

SHEET NUMBER
TC1