



# at&t

SITE ID:  
SITE ADDRESS:

CRAN\_RSFR\_LOSAO\_11  
130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

PM#:  
SITE TYPE:  
POLE OWNER:  
FA LOCATION:  
USID:

TBD  
PG&E POLE #TBD  
PG&E  
14818955  
204379



AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

## SITE INFORMATION

APPLICANT: AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

AGENT: SURESITE  
36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

APN: ADJCT TO 167-35-054

SITE ADDRESS: 130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

COUNTY: SANTA CLARA

LATITUDE: 37° 23' 1.40" N (37.383722) NAD 83

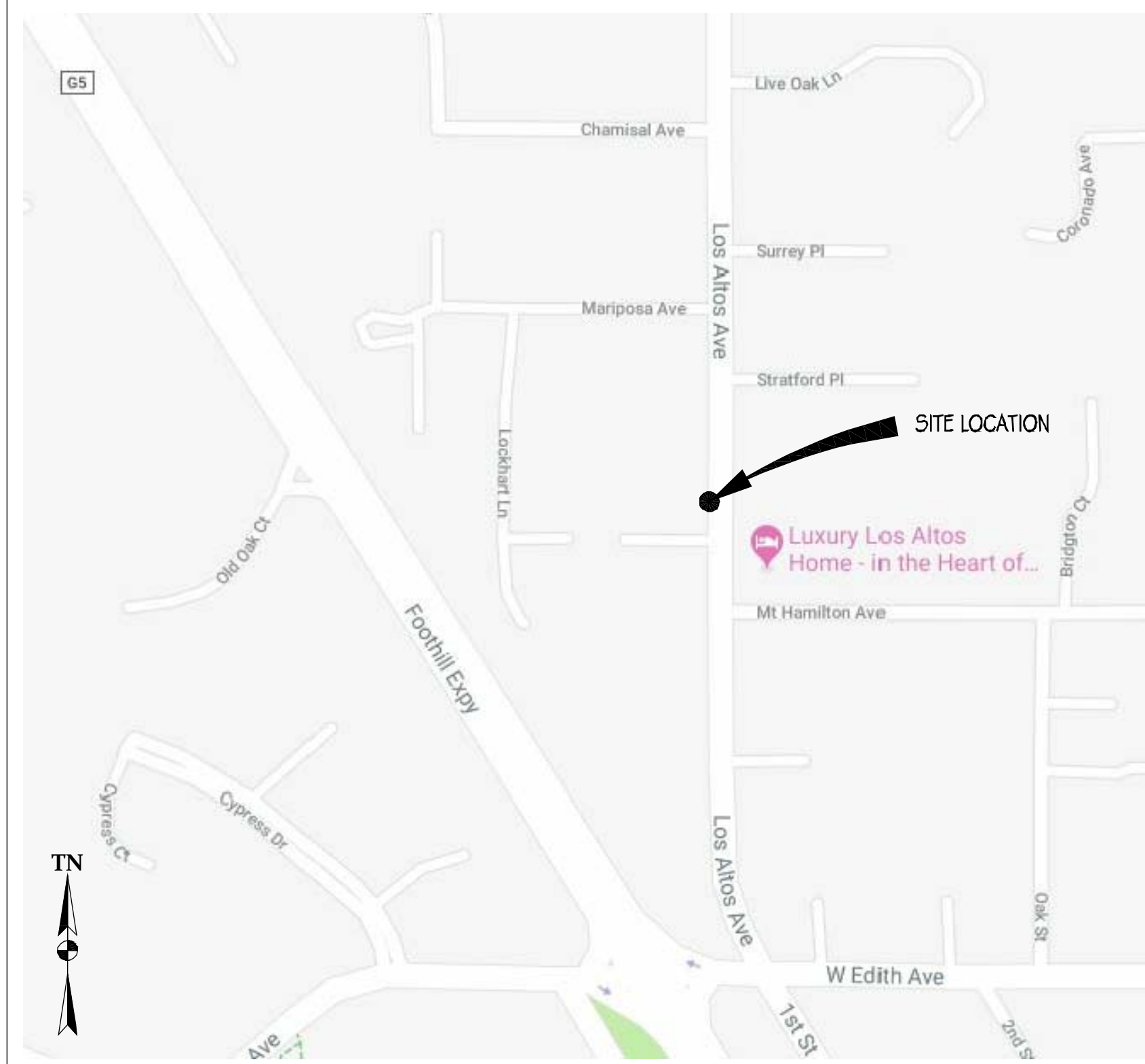
LONGITUDE: 122° 07' 15.13" W (-122.120869) NAD 83

GROUND ELEVATION: ± 167.1' AMSL

ZONING: PUBLIC ROW

ZONING JURISDICTION: CITY OF LOS ALTOS

## VICINITY MAP



## PROJECT TEAM

AGENT:  
SURESITE  
2033 GATEWAY PLACE, 6TH FLOOR  
SAN JOSE, CA 95110  
(949) 278-2962  
L.MEINERS@SURE-SITE.COM

PROJECT MANAGERS:  
CHRIS JOHNSON  
ERICSSON  
6140 STONERIDGE MALL RD, SUITE 350  
PLEASANTON, CA 94588  
(408) 796-8443  
CHRISTOPHER\_JOHNSON@ERICSSON.COM

ARCHITECT/ENGINEER OF RECORD:  
BRET McCOMB  
PRECISION DESIGN & DRAFTING, INC  
11768 ATWOOD ROAD, SUITE #20  
AUBURN, CA 95603  
(530) 823-6546  
BRET@PDND.COM

CONSTRUCTION MANAGER:  
DELBERT BUTCHER  
ERICSSON  
6140 STONERIDGE MALL ROAD, SUITE 350  
PLEASANTON, CA 94588  
(720) 317-7282

## PROJECT DESCRIPTION

THIS IS AN UNMANNED TELECOMMUNICATIONS FACILITY FOR AT&T WIRELESS CONSISTING OF THE INSTALLATION & OPERATION OF ANTENNAS & ASSOCIATED EQUIPMENT ON AN (E) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY.

SCOPE OF WORK:

- INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON AN (E) PG&E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON G095 COMPLIANT STANDOFF BRACKET & CONSISTS OF (1) ELECTRICAL METER, (1) LOAD CENTER/AC DISCONNECT, (1) CONCEALMENT BOX CONTAINING (1) RRUS-4415 & (1) RRUS-11 W/ PSU UNITS, (2) DIPLEXERS, & (1) KMW FX-OM2L1OH2-0GT CYLINDRICAL ANTENNA.
- ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL.
- UTILITY LINES BETWEEN (E) POINT OF CONNECTION & POLE TO BE UNDERGROUND AND/OR OVERHEAD.
- FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

## DRAWING INDEX

SHEET NO:	SHEET TITLE
T-1	TITLE SHEET
T-2	GENERAL NOTES, LEGEND, & ABBREVIATIONS
A-1	SITE PLAN
A-2	EQUIPMENT PLAN & ANTENNA PLANS
A-3	ELEVATIONS
A-4	ELEVATIONS
A-5	DETAILS
A-6	DETAILS
E-1	SINGLE-LINE DIAGRAM & DETAILS
E-2	GROUNDING DIAGRAMS

## CODE COMPLIANCE

- CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE & LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:
- 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 & 25)
  - 2016 CALIFORNIA BUILDING CODE
  - 2016 CALIFORNIA ELECTRICAL CODE
  - 2016 CALIFORNIA MECHANICAL CODE
  - 2016 CALIFORNIA PLUMBING CODE
  - 2016 CALIFORNIA FIRE CODE
  - LOCAL BUILDING CODES
  - CITY/COUNTY ORDINANCES
  - ANSI/EIA-TIA-222-G

## HANDICAP REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE ADMINISTRATIVE CODE, TITLE 24 PART 2, SECTION 1105B.3.4.2, EXCEPTION 1

## DRIVING DIRECTIONS

DIRECTIONS FROM AT&T WIRELESS WALNUT CREEK OFFICE

FROM: 5001 EXECUTIVE PARKWAY, SAN RAMON, CA 94583  
TO: 290 MT HAMILTON AVE, LOS ALTOS, CA 94022

- HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR 256 FT
- TURN RIGHT ONTO SUNSET DR 0.1 MI
- USE THE RIGHT 2 LANES TO TURN RIGHT ONTO BOLLINGER CANYON RD 0.3 MI
- USE THE RIGHT LANE TO MERGE ONTO I-680 S VIA THE RAMP TO SAN JOSE 0.3 MI
- MERGE ONTO I-680 S 21.5 MI
- TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD I-880 0.2 MI
- FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262 S/MISSION BLVD 0.3 MI
- MERGE ONTO CA-262 S/MISSION BLVD 0.6 MI
- USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE 0.9 MI
- MERGE ONTO I-880 S 3.1 MI
- USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW 0.9 MI
- KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY 8.9 MI
- TURN RIGHT ONTO EL CAMINO REAL 1.4 MI
- USE THE LEFT 2 LANES TO TURN LEFT ONTO EL MONTE AVE 266 FT
- USE ANY LANE TO TURN LEFT TO STAY ON EL MONTE AVE 0.3 MI
- TURN RIGHT ONTO N EL MONTE AVE 0.1 MI
- TURN RIGHT ONTO ALMOND AVE 0.9 MI
- TURN LEFT ONTO N SAN ANTONIO RD 0.1 MI
- TURN RIGHT AT THE 1ST CROSS STREET ONTO MT HAMILTON AVE 0.3 MI

END AT: 290 MT HAMILTON AVE, LOS ALTOS, CA 94022

ESTIMATED TIME: 52 MINS ESTIMATED DISTANCE: 40.5 MI

At all services & grounding trenches, provide "WARNING" tape at 12" below grade.

**CALL**  
"CALL BEFORE YOU DIG"  
811/800-227-2600  
NATIONWIDE UNDERGROUND SERVICE ALERT

## ADMINISTRATIVE REQUIREMENTS

CONTRACTOR SHALL VERIFY ALL PLANS & (E) DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME IF USING 11" X 17" PLOT, DRAWINGS WILL BE HALF SCALE.

PRECISION DESIGN & DRAFTING, INC.  
Phone: (530) 823-6546 www.pdnd.com  
11768 Atwood Rd, Suite 20 Auburn, CA 95603



CRAN\_RSFR\_LOSAO\_11

130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

## ISSUE STATUS

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/24/19

SHEET TITLE:

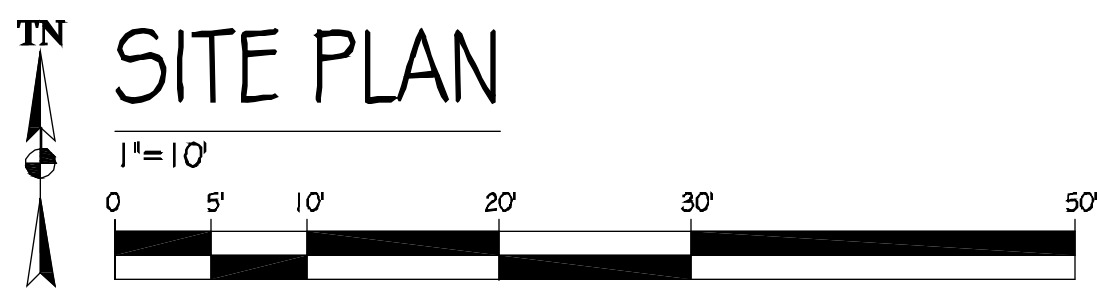
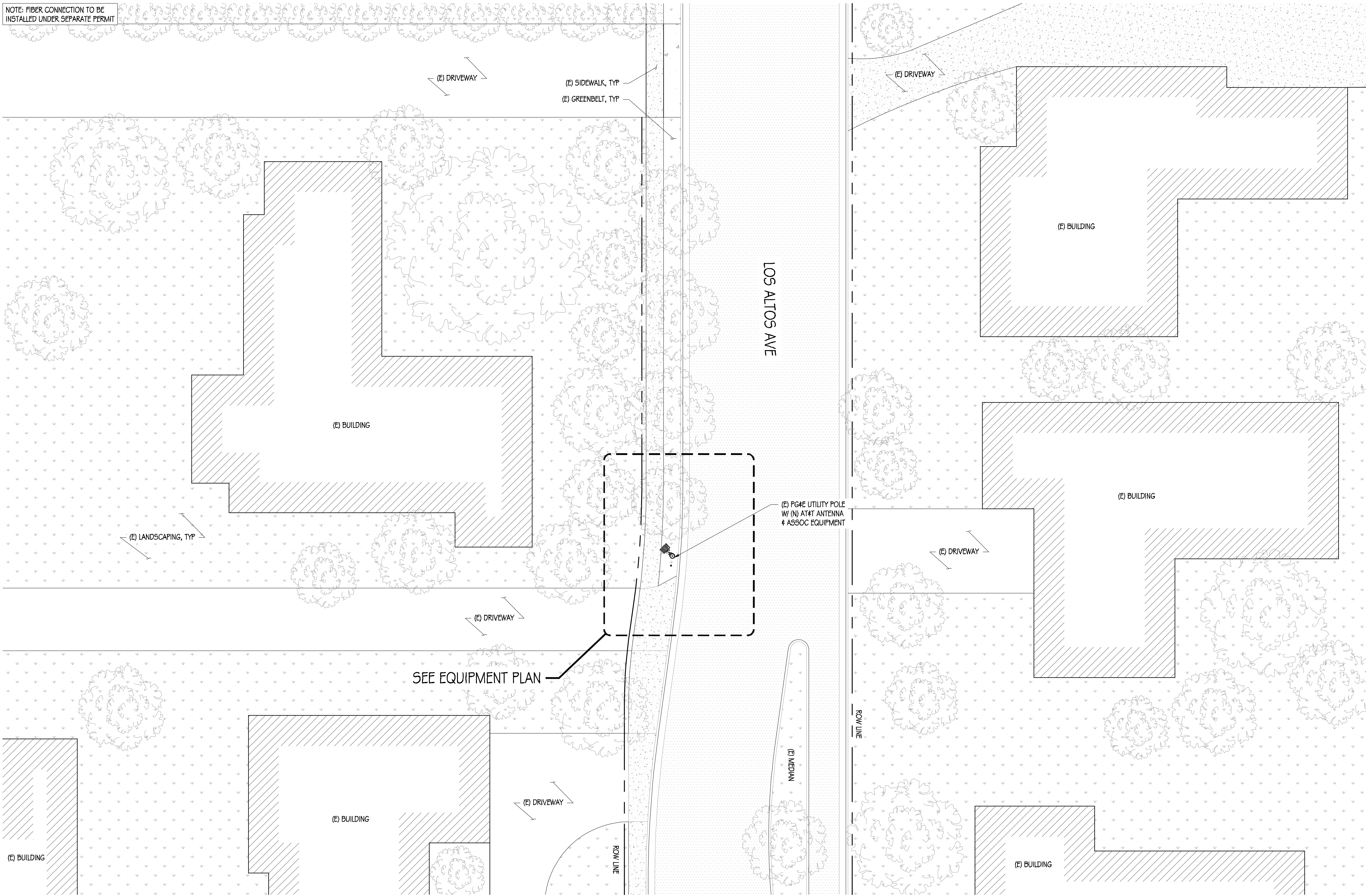
TITLE SHEET

SHEET NUMBER

T-1



NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



AT&T MOBILITY  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614

**PRECISION DESIGN & Drafting, INC.**  
 Phone: (530) 823-6546 www.pdrnd.com  
 11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE OUR SOLE PROPERTY AND SHALL REMAIN THE PROPERTY OF OUR COMPANY. THESE PLANS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR COMPANY WITHOUT OUR WRITTEN CONSENT. COPYRIGHT © 2011, PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN\_RSFR\_LOSAO\_11

130 LOS ALTOS AVE  
 LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES  
 CHECKED BY: T. DICARLO  
 APPROVED BY: B. McCOMB  
 DATE: 07/24/19

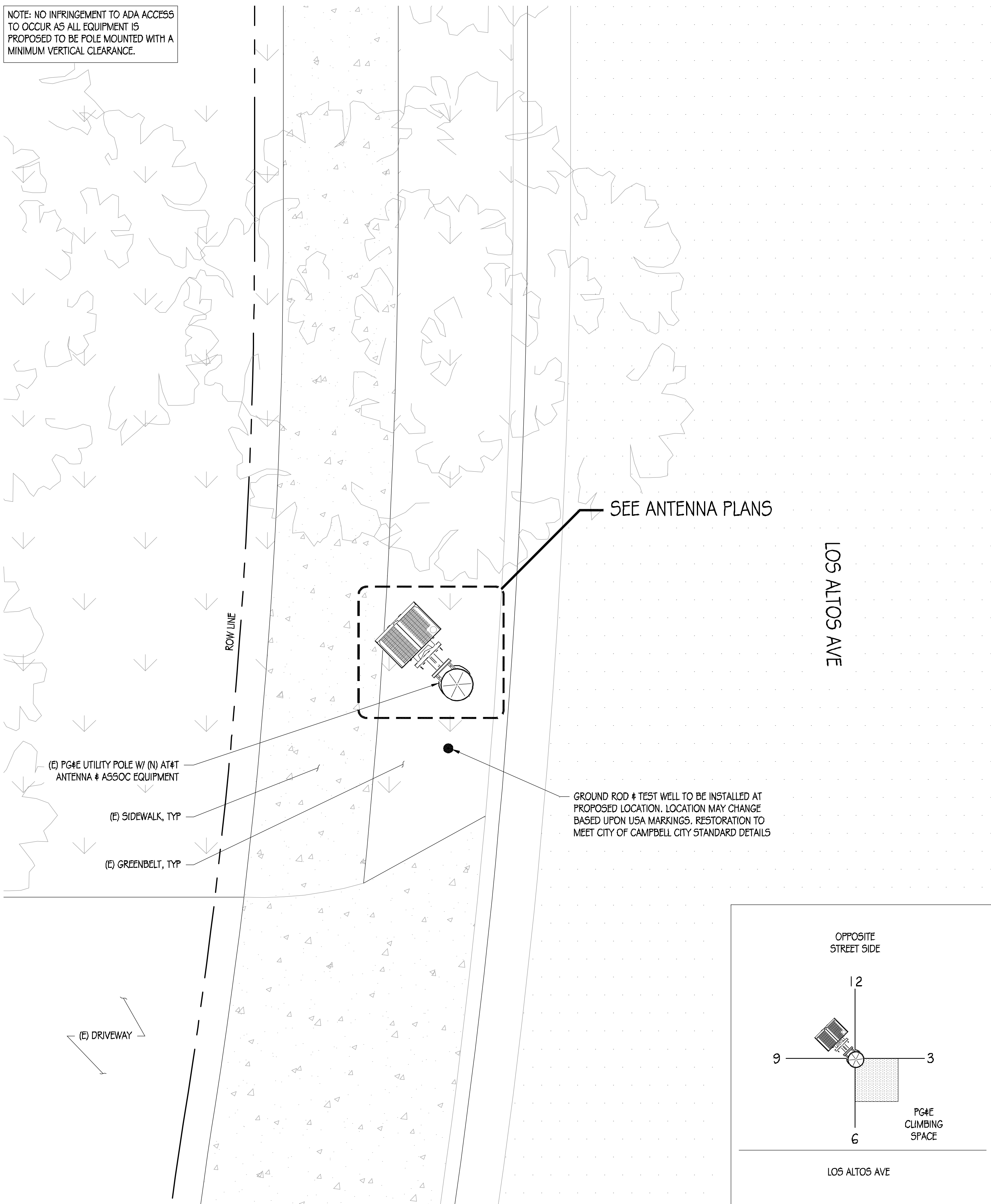
SHEET TITLE:

SITE PLAN

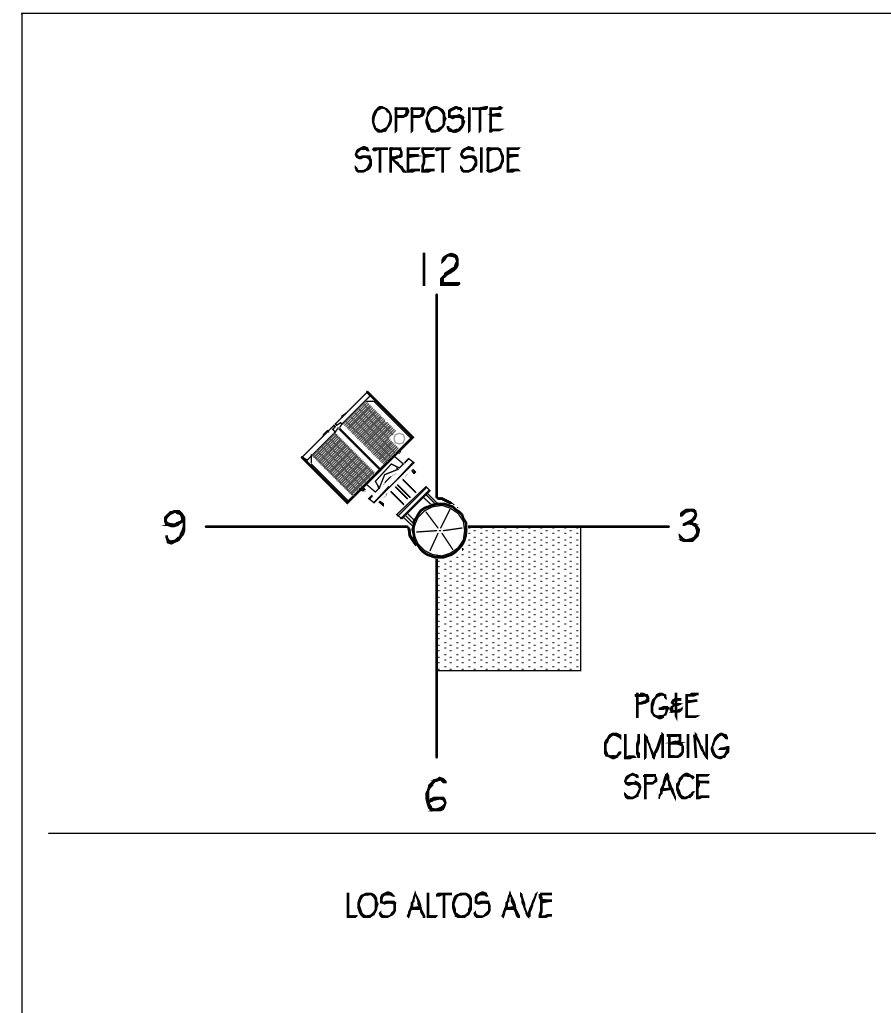
SHEET NUMBER

**A-1**

NOTE: NO INFRINGEMENT TO ADA ACCESS TO OCCUR AS ALL EQUIPMENT IS PROPOSED TO BE POLE MOUNTED WITH A MINIMUM VERTICAL CLEARANCE.



**EQUIPMENT PLAN**  
1/2"=1'

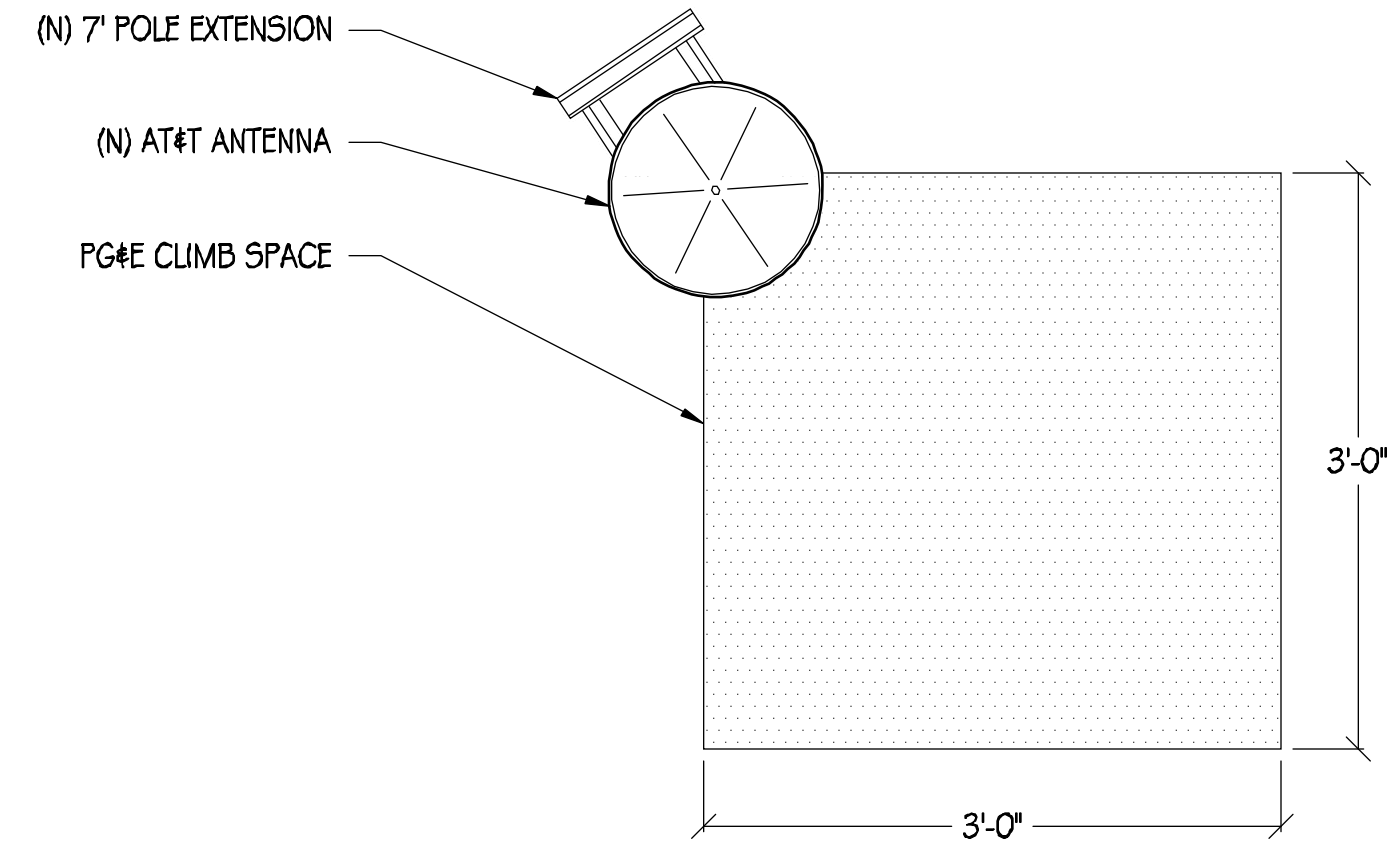


LOS ALTOS AVE

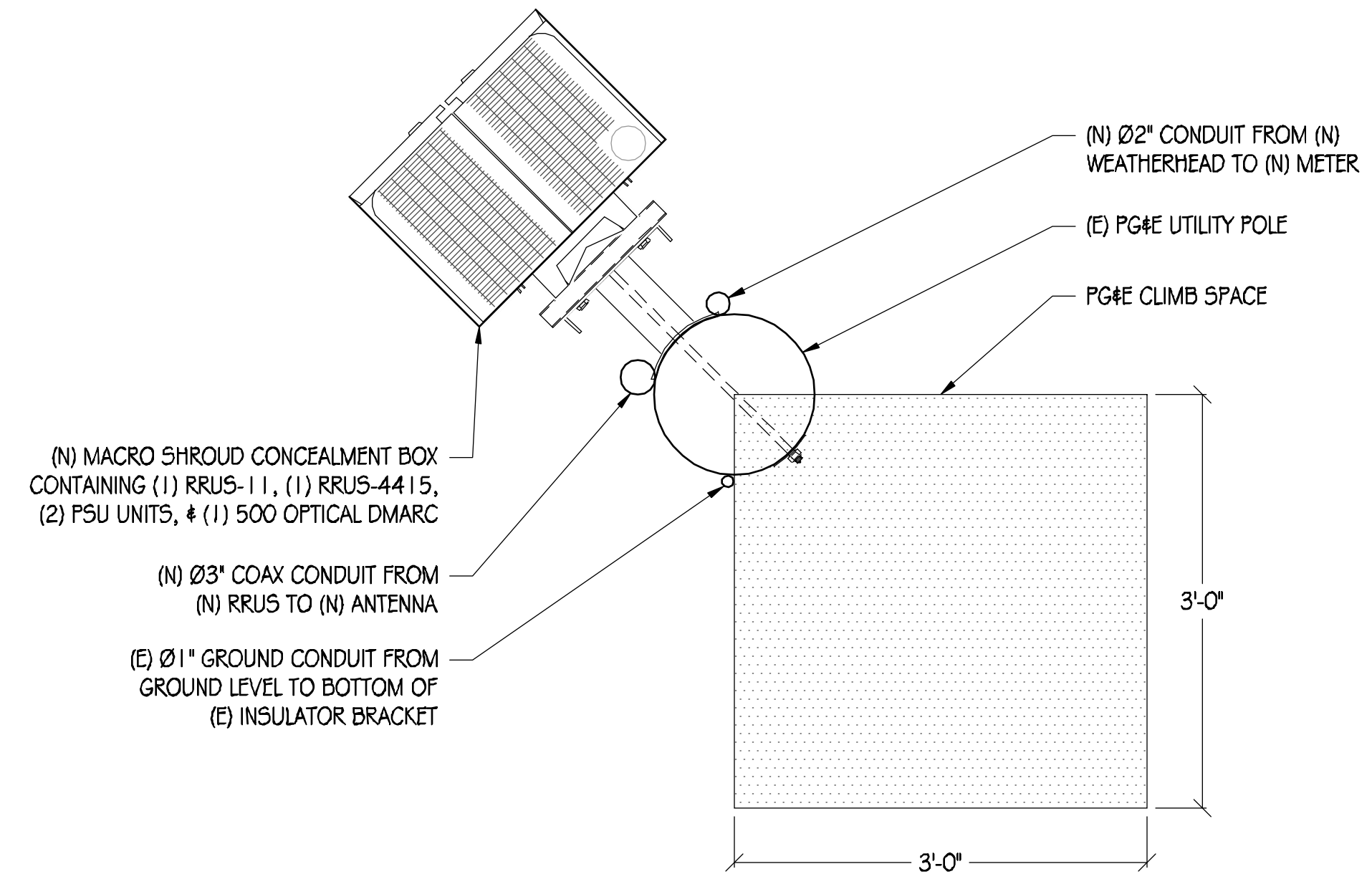
SEE ANTENNA PLANS

GROUND ROD & TEST WELL TO BE INSTALLED AT PROPOSED LOCATION. LOCATION MAY CHANGE BASED UPON USA MARKINGS. RESTORATION TO MEET CITY OF CAMPBELL CITY STANDARD DETAILS

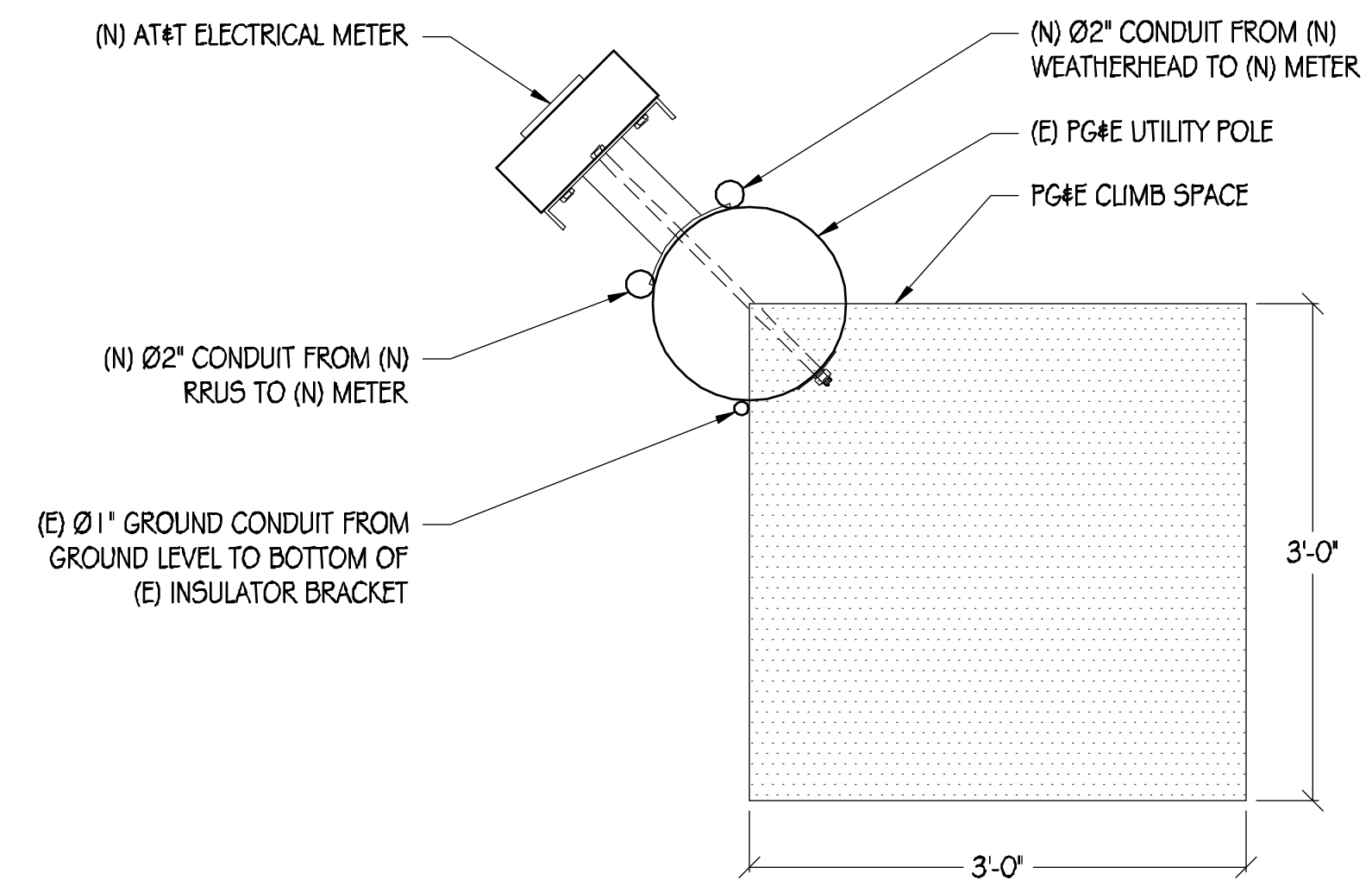
NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



**ANTENNA PLAN**  
1"=1'



**RRU PLAN**  
1"=1'



**ELECTRICAL METER PLAN**  
1"=1'



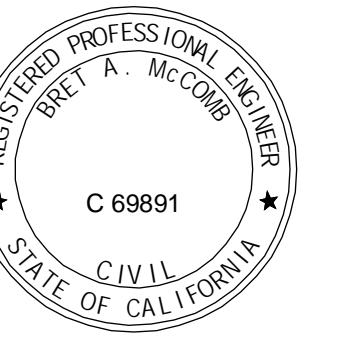
AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

PRECISION DESIGN  
*Drafting, Inc.*

Phone: (530) 823-6546 www.pdnd.com  
11768 Alwood Rd, Suite 20 Auburn, CA 95603



CRAN\_RSFR\_LOSAAO\_11

130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

ISSUE STATUS

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

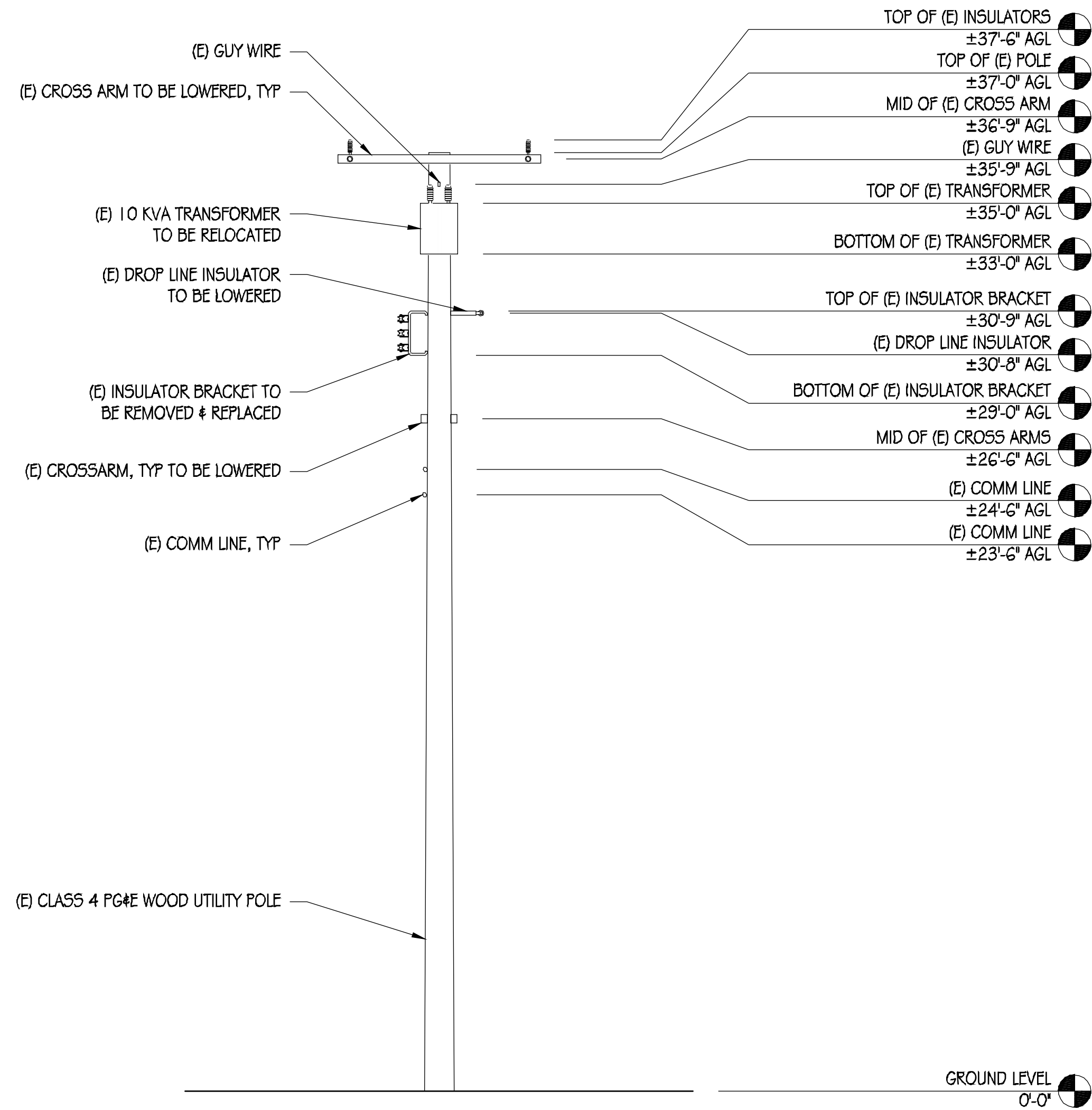
DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/24/19

SHEET TITLE:  
EQUIPMENT PLAN & ANTENNA PLANS

SHEET NUMBER

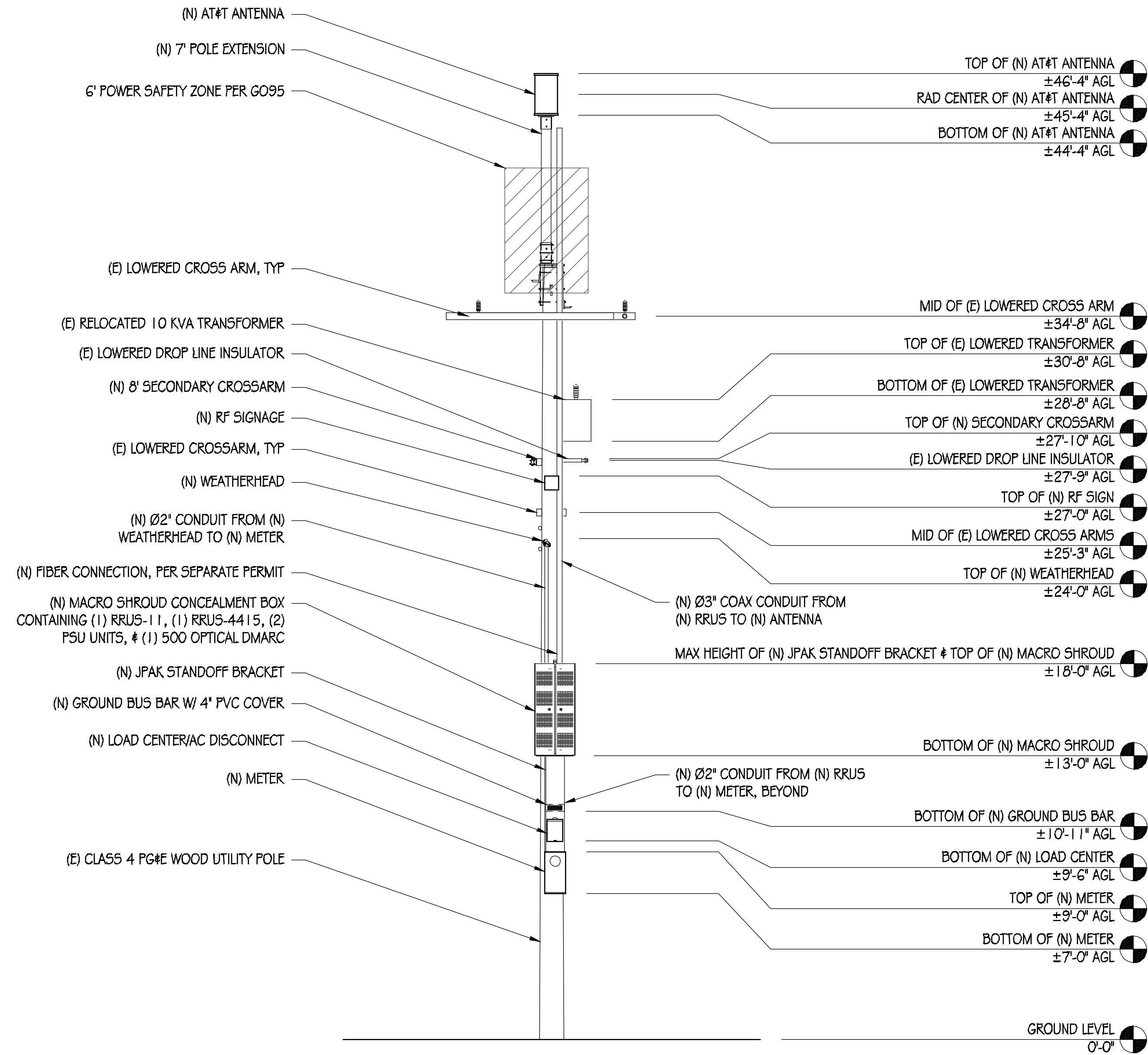
A-2

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING NORTHEAST ELEVATION

1/4" = 1'-0"



### NEW NORTHEAST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583

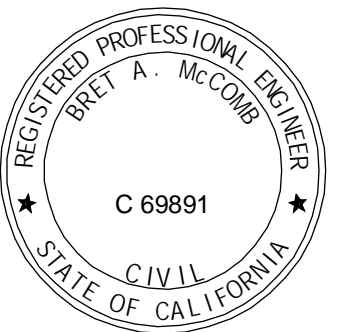


36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

PRECISION DESIGN  
Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com  
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THIS DRAWING AND SPECIFICATIONS ARE HEREBY OFFERED TO THE CLIENT AS A PROFESSIONAL SERVICE. THE CLIENT AGREES TO HOLD THE DESIGNER HARMLESS FROM AND AGAINST ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING REASONABLE ATTORNEY'S FEES, ARISING OUT OF OR RESULTING FROM THE USE OF THIS DRAWING AND SPECIFICATIONS, WHETHER OR NOT SUCH CLAIMS, DAMAGES, LOSSES AND EXPENSES ARE CAUSED IN WHOLE OR IN PART BY THE NEGLIGENCE OF THE DESIGNER.



CRAN\_RSFR\_LOSAO\_11

130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

#### ISSUE STATUS

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/24/19

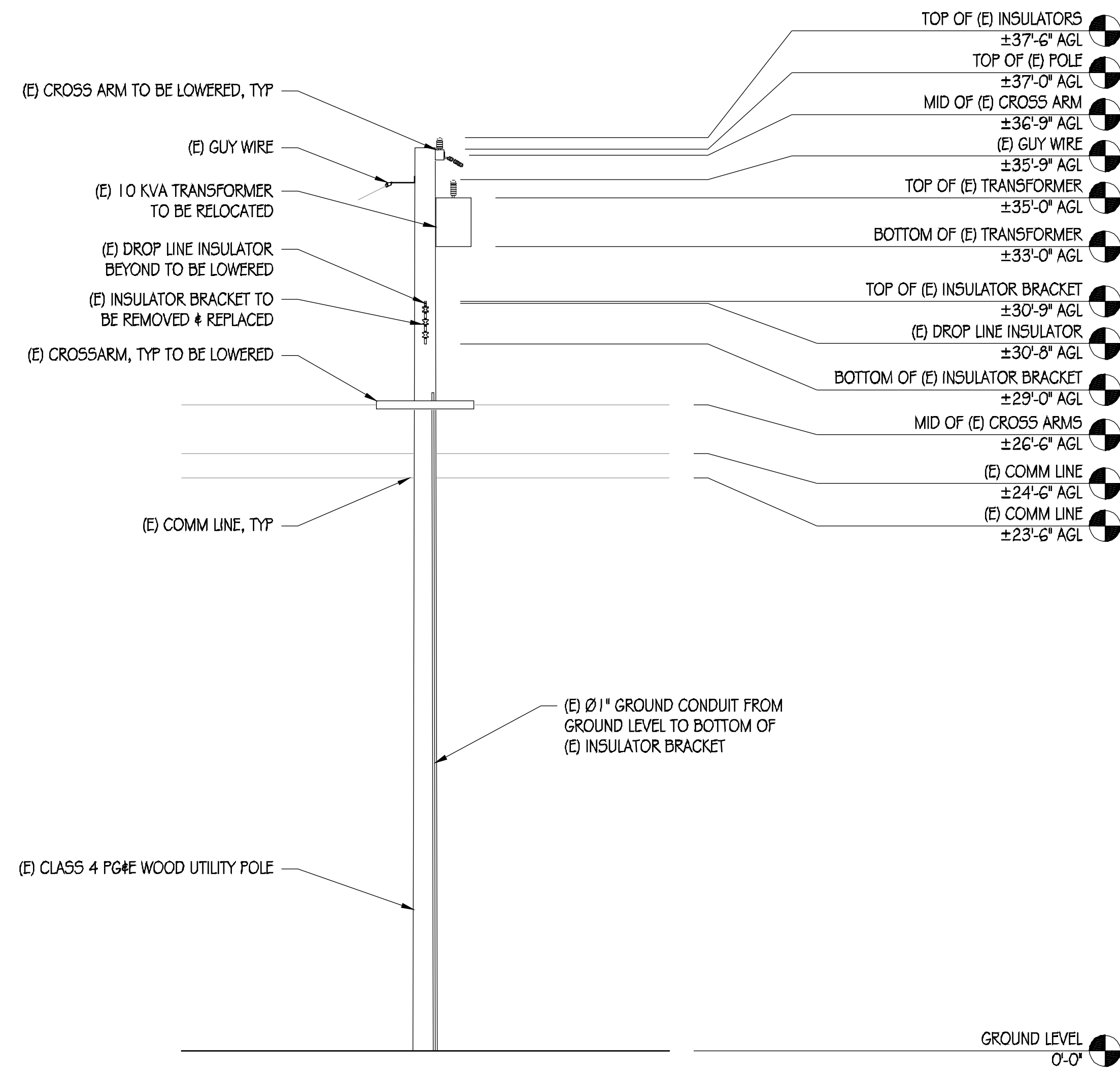
SHEET TITLE:

ELEVATIONS

SHEET NUMBER

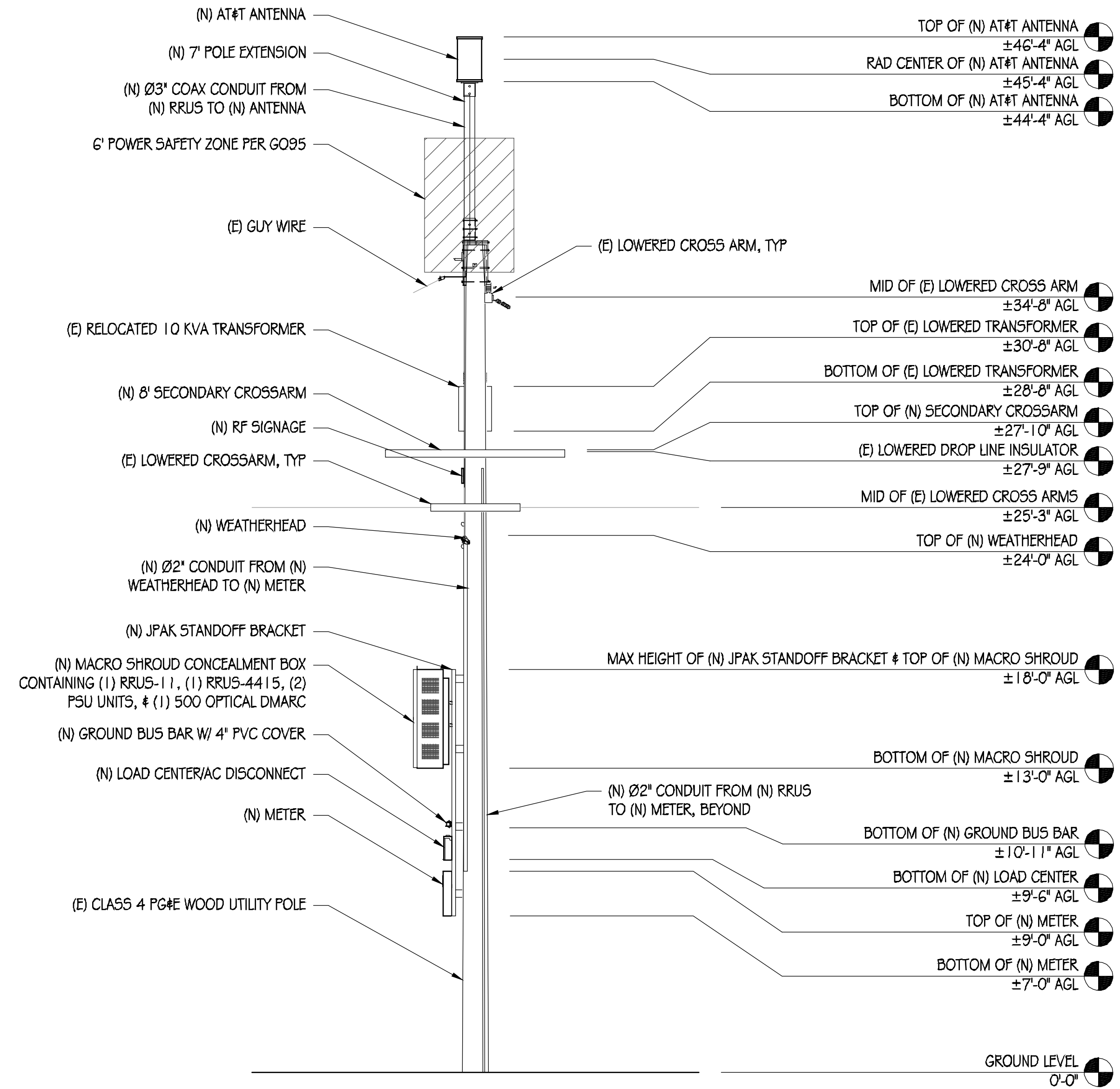
A-3

NOTE: FIBER CONNECTION TO BE INSTALLED UNDER SEPARATE PERMIT



### EXISTING SOUTHEAST ELEVATION

1/4" = 1'-0"



### NEW SOUTHEAST ELEVATION

1/4" = 1'-0"



AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

PRECISION DESIGN & DRAFTING, INC.  
Phone: (530) 823-6546 www.pdnd.com  
11768 Alwood Rd, Suite 20 Auburn, CA 95603



CRAN\_RSFR\_LOSAO\_11

130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

#### ISSUE STATUS

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/24/19

SHEET TITLE:

ELEVATIONS

SHEET NUMBER

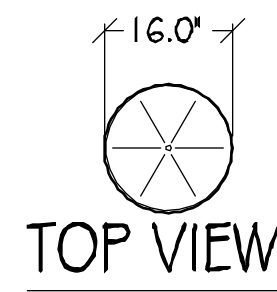
A-4

**POLE-TOP EXTENSION NOTES:**

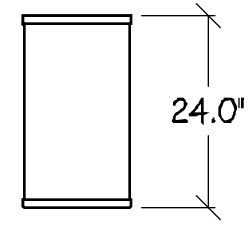
1. THIS UNIT MEETS GENERAL ORDER (G.O.) 95 REQUIREMENTS FOR STRENGTH IN CLASS 6 POLES AND THEREFORE MAY BE USED TO SUPPORT EQUIPMENT ON THESE CLASSES OF POLES. IT MAY BE USED ON LARGER CLASS POLES, BUT MAY NOT BE USED TO SUPPORT EQUIPMENT ON THEM.
2. THE UNIT MAY BE GUYED.
3. THE BRACKET IS MADE TO FIT POLES WITH DIAMETERS OF 8"-11". THEREFORE, DEPENDING UPON THE ACTUAL POLE-TOP DIAMETER, TO FIT POLES OF CLASS 3 AND SMALLER, A BRACKET ADAPTER MAY BE REQUIRED.
4. UNITS ARE SUPPLIED WITH THE WOOD BAYONET ASSEMBLED.
5. A POLE STEP KIT IS REQUIRED.
6. ATTACH THE BRACKET ASSEMBLY ACROSS THE LINE DIRECTION WITH THE CROSS ARM.
7. ALL DETAILS SHOWN ON THIS PAGE ARE FOR REFERENCE ONLY. THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEMS ARE PER UTILITY COMPANY STANDARDS AND ARE SUBJECT TO CHANGE AT THEIR DISCRETION. BOTH THE POLE-TOP EXTENSION AND ANTENNA MOUNTING SYSTEM SHALL BE INSTALLED BY THE UTILITY COMPANY.

**KMW FX-OM2L10H2-06T**

WIND AREA: 2.67 SQ FT  
 WEIGHT: 34.2 LBS  
 DIMENSIONS: Ø 16.0" X 24.0" TALL  
 RF CONNECTORS: (12) 4.3-10 FEMALE



TOP VIEW

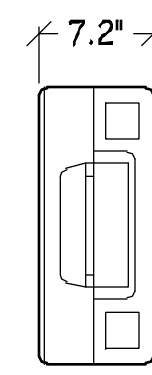


FRONT VIEW

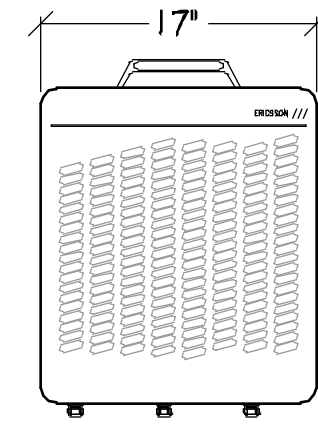
1 ANTENNA  
1/2"=1"

**ERICSSON RRUS-11**

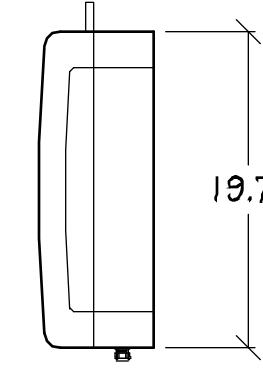
TOTAL WEIGHT: 55 LBS  
 DIMENSIONS: 19.7" TALL X 17" WIDE X 7.2" DEEP



TOP VIEW



FRONT VIEW

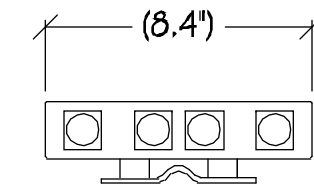


SIDE VIEW

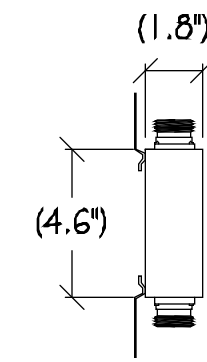
2 RRUS-11 DETAIL  
1"=1"

**COMMSCOPE  
CBC1923T-4310/  
E11F13P06**

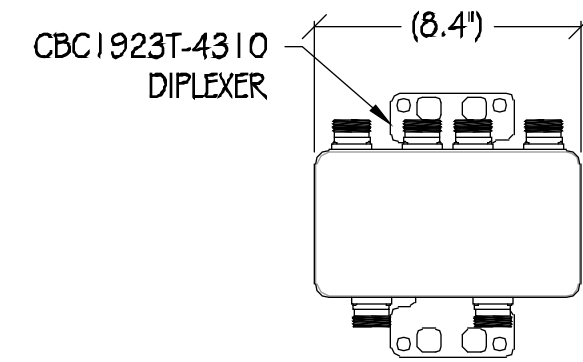
COLOR: GRAY  
 TOTAL WEIGHT: +/- 4.4 LB  
 DIMENSIONS: 8.3" TALL X 4.6" WIDE X 1.8" DEEP



TOP VIEW

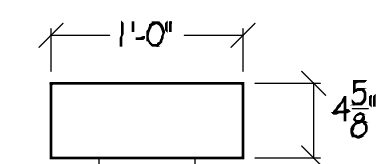


SIDE VIEW

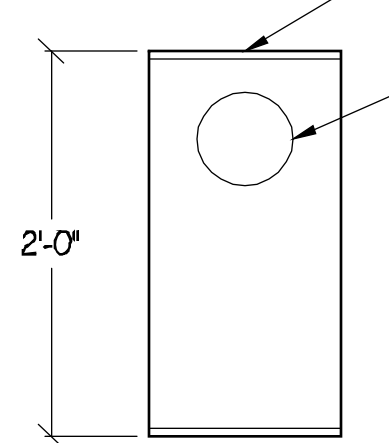


FRONT VIEW

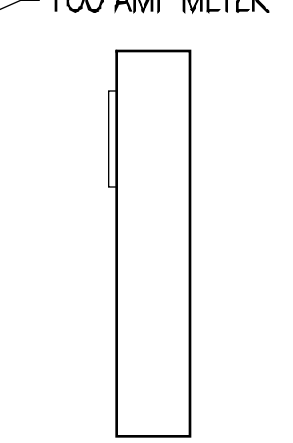
3 DIPLEXER DETAIL  
1"=6"



TOP VIEW



FRONT VIEW

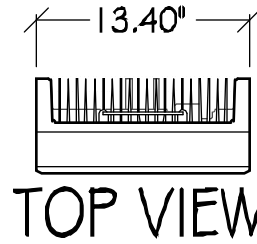


SIDE VIEW

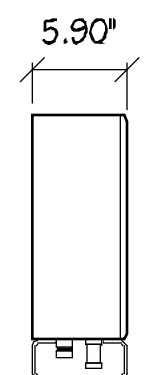
4 METER DETAIL  
1"=1"

**ERICSSON RRUS-4415**

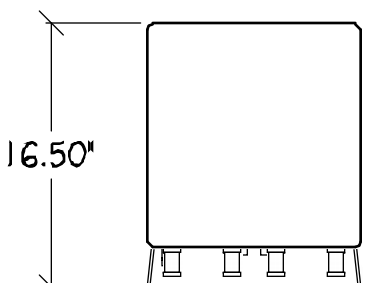
TOTAL WEIGHT: UNDER 46 LBS  
 DIMENSIONS: 16.5" X 13.4" X 5.9"



TOP VIEW



SIDE VIEW

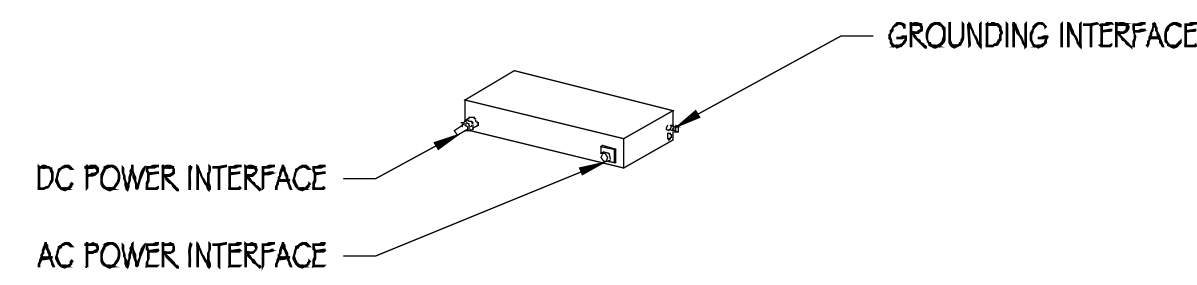


FRONT VIEW

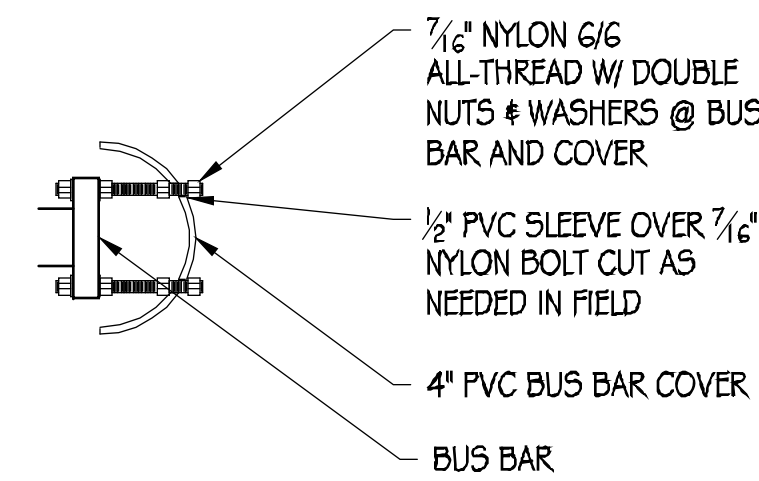
5 RRUS-4415 DETAIL  
1"=1"

**ERICSSON PSU AC 08**

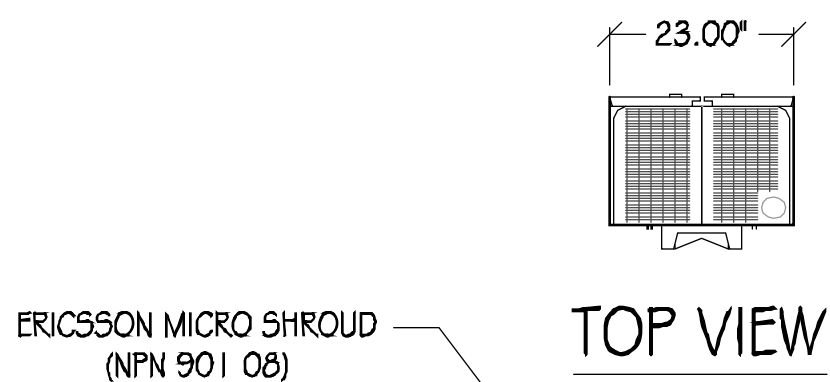
DIMENSIONS: 2.72" X 10.79" X 7.09"  
 WEIGHT: 11.46 LBS



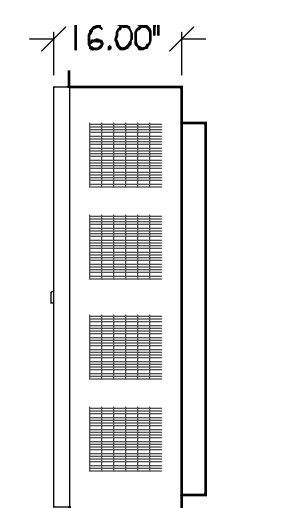
6 AC POWER MODULE  
NTS



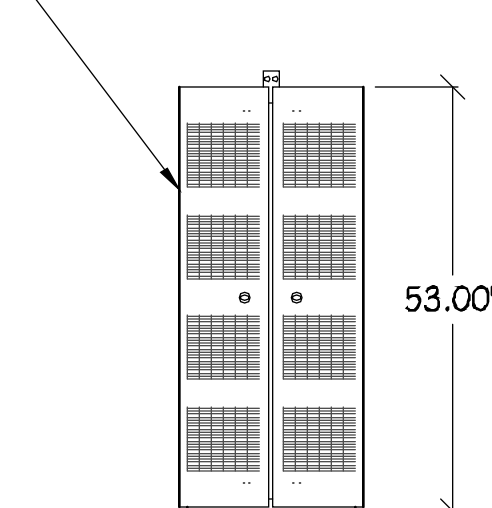
7 BUS BAR COVER  
6"=1"



TOP VIEW

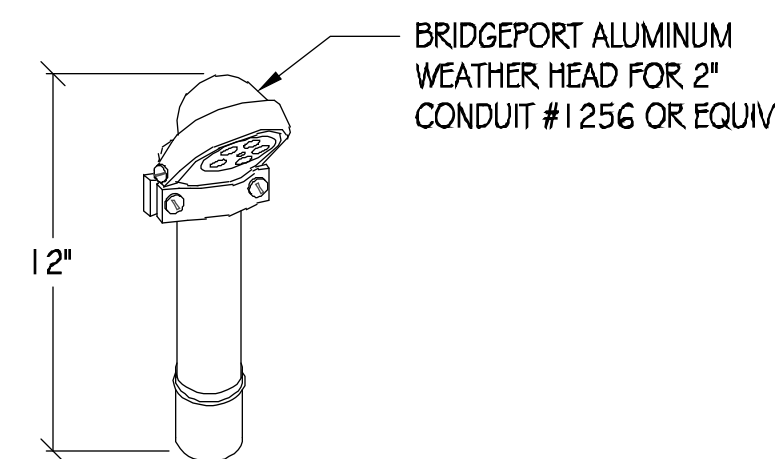


SIDE VIEW



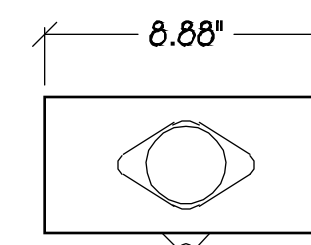
FRONT VIEW

8 MICRO SHROUD CONCEALMENT  
1/2"=1"

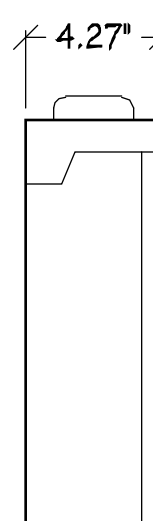


9 WEATHER HEAD  
NTS

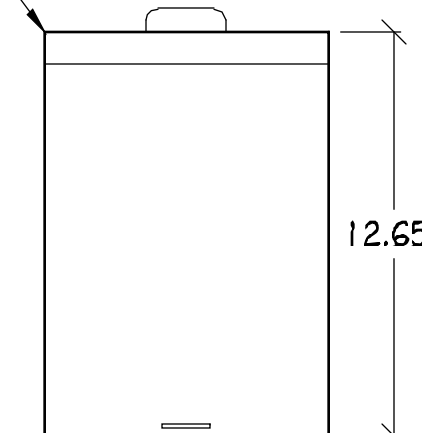
SCHNEIDER ELECTRIC  
Q0612L100RB



TOP VIEW

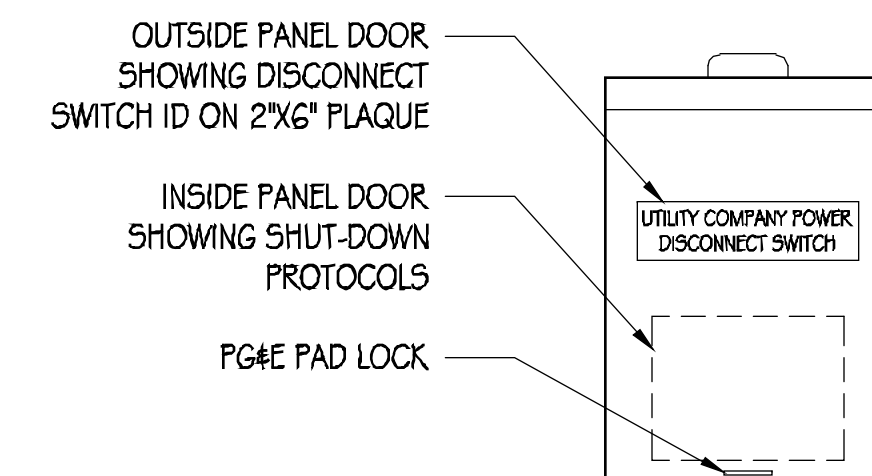


SIDE VIEW



FRONT VIEW

10 LOAD CENTER/AC DISCONNECT  
1"=6"



11 DISCONNECT SIGNAGE  
3"=1"

**SHUTDOWN DISCONNECT**

**NORMAL SHUT-DOWN PROTOCOLS**

1. CALL 800-638-2822 24HRS PRIOR TO SCHEDULE A SHUT-DOWN DAY AND TIME.
2. GIVE NOC THE NODE NUMBER.
3. ON SCHEDULE DAY OF SHUT-DOWN, PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN WORK IS COMPLETED.

**EMERGENCY SHUT-DOWN PROTOCOLS**

1. CALL 800-638-2822 NOC.
2. GIVE NOC THE NODE NUMBER.
3. PULL THE DISCONNECT HANDLE TO THE "OFF" POSITION.
4. CALL NOC WHEN THE WORK IS COMPLETED.

SHUT-DOWN PROTOCOL ON 9\"/>



AT&T MOBILITY  
 5001 EXECUTIVE PARKWAY  
 SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
 IRVINE, CA 92614

PRECISION DESIGN  
 Drafting, INC.  
 Phone: (530) 823-6546 www.pdnd.com  
 11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN THE CLIENT FOR ANY PROJECT OTHER THAN THAT SPECIFICALLY IDENTIFIED IN THE CONTRACT. PRECISION DESIGN DRAFTING, INC. IS NOT RESPONSIBLE FOR ANY REUSE OF THESE DRAWINGS OR SPECIFICATIONS FOR ANY OTHER PROJECT.



CRAN\_RSFR\_LOSAB\_11

130 LOS ALTOS AVE  
 LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

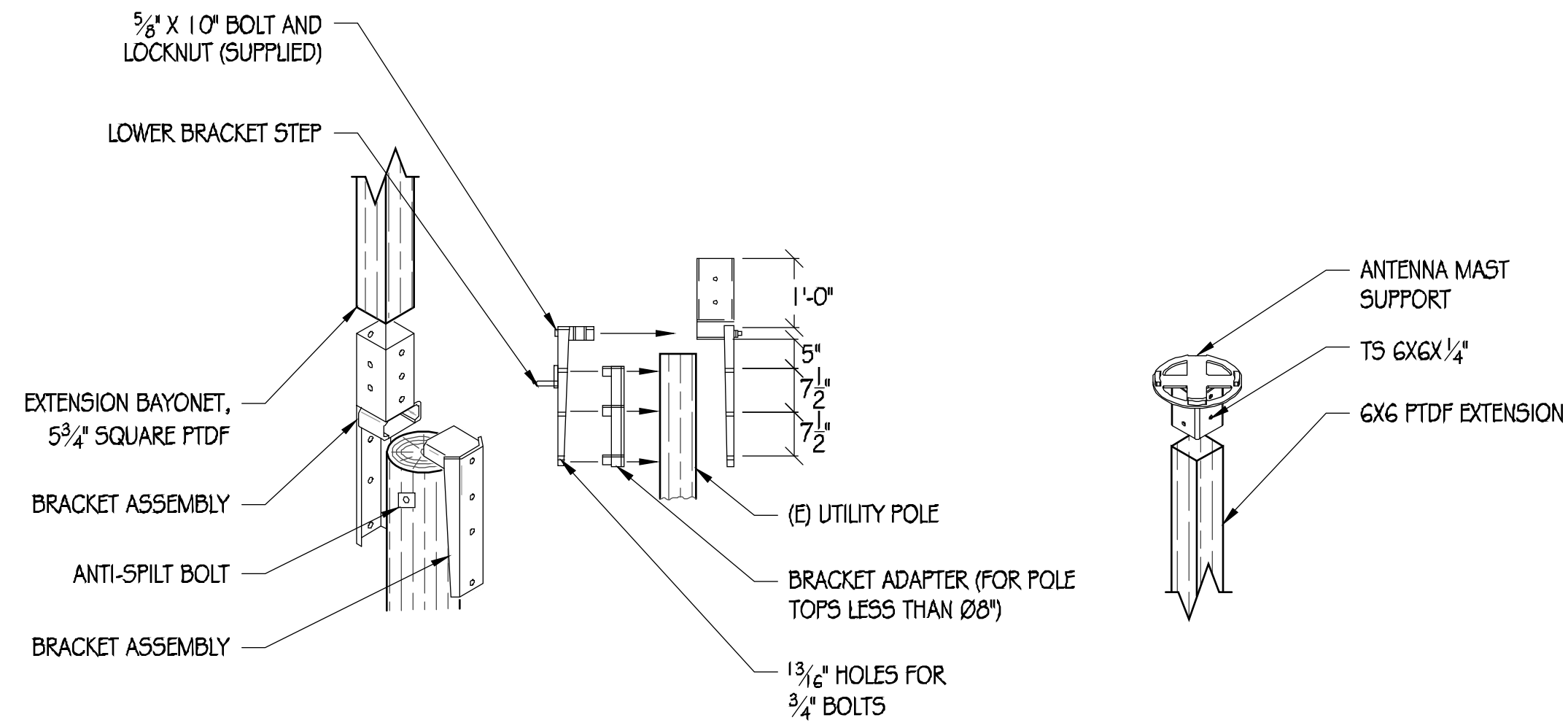
DRAWN BY: T. JONES  
 CHECKED BY: T. DICARLO  
 APPROVED BY: B. McCOMB  
 DATE: 07/24/19

SHEET TITLE:  
 DETAILS  
 SHEET NUMBER

A-5

**STRUCTURAL STEEL NOTES:**

- ALL STEEL CONSTRUCTION INCLUDING FABRICATION, ERECTION AND MATERIALS SHALL COMPLY WITH ALL REQUIREMENTS OF THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND THE 2016 CBC.
- ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE) # WT (TEF) SHAPES TO BE ASTM A992 (F<sub>y</sub>=50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HS5) SHALL BE ASTM A500 GRADE B (F<sub>y</sub>=46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR S, GRADE B (F<sub>y</sub>=35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC # AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC SPECIFICATION. PAINTED SURFACES SHALL BE TOUCHED UP.
- ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- BOLTS SHALL BE GALVANIZED ASTM A325 MINIMUM. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS. SPECIAL INSPECTION NOT REQUIRED U.O.N.
- THREADED RODS SHALL BE ASTM F593 CW 304/316 STAINLESS STEEL. BOLTED CONNECTIONS SHALL BE BEARING TYPE. SEE PLANS FOR LOCATION, NUMBER, # SIZE OF BOLTS.
- ALL HOLES FOR BOLTED CONNECTIONS SHALL BE 1/16" LARGER THAN THE NOMINAL BOLT DIAMETER. USE STANDARD AISC GAGE AND PITCH FOR BOLTS EXCEPT AS NOTED OTHERWISE. HOLES FOR ANCHOR BOLTS IN BASE PLATES MAY BE AISC "OVERSIZE" HOLES WHERE ACCOMPANIED BY OVERSIZED HARDENED HDG WASHERS.
- ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A123 AFTER FABRICATION # PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED # PAINTED PER PLAN.
- ALL FIELD FABRICATED GALVANIZED STEEL THAT IS CUT, GROUND, DRILLED, WELDED OR DAMAGED SHALL BE TREATED WITH "ZINC RICH" COLD GALVANIZING SPRAY OR COATING. NO RAW STEEL SHALL BE EXPOSED.
- AT ALL WEB STIFFENER PLATES LEAVE 3/4" (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.



**1 POLE TOP EXTENSION ASSEMBLY**  
1/2" = 1'

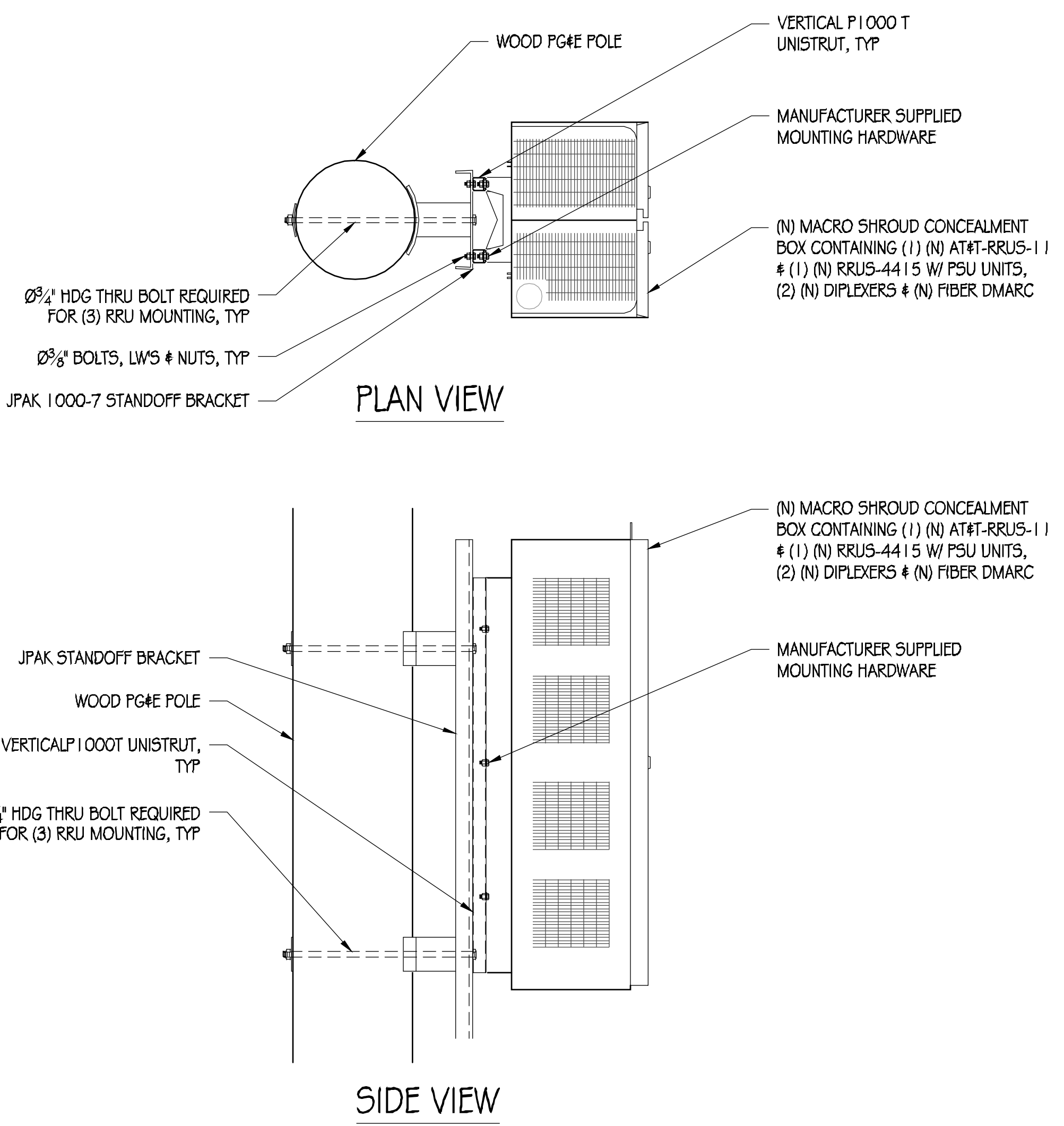
**NOTICE**

AT&T operates antennas at this structure. Above this point you are entering an area where radio frequency fields may exceed the FCC General Population Exposure Limits. Follow safety guidelines for working in an RF environment. Keep 9' feet away from the fronts of the antennas. Contact AT&T at 800-638-2822 and follow their instructions prior to performing any maintenance or repairs above this point. This is AT&T Site USID \_\_\_\_\_

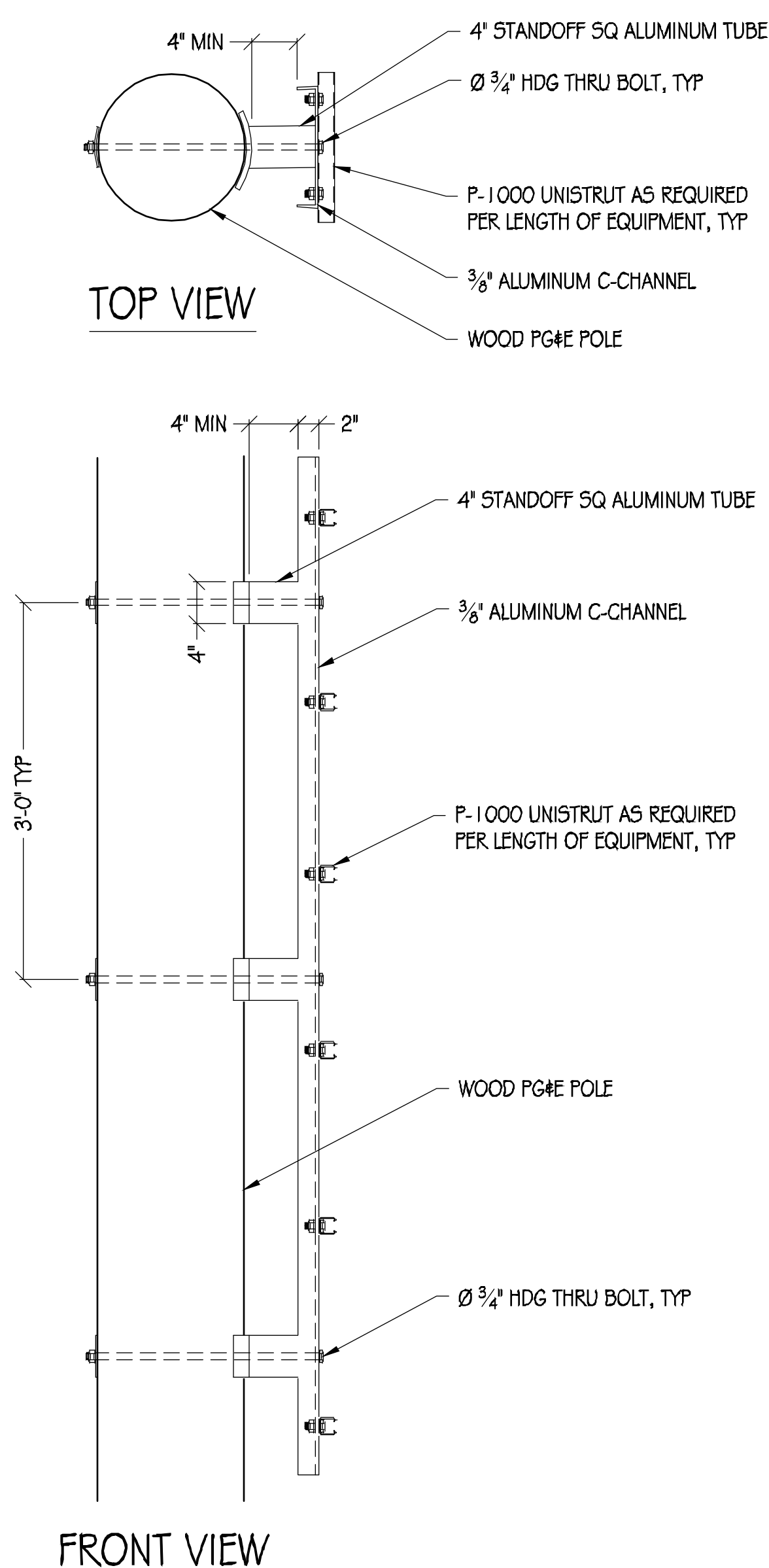
12.25" X 12.25" NOTICE DECAL BLUE DECAL

**2 NOTICE SIGNAGE**  
NTS

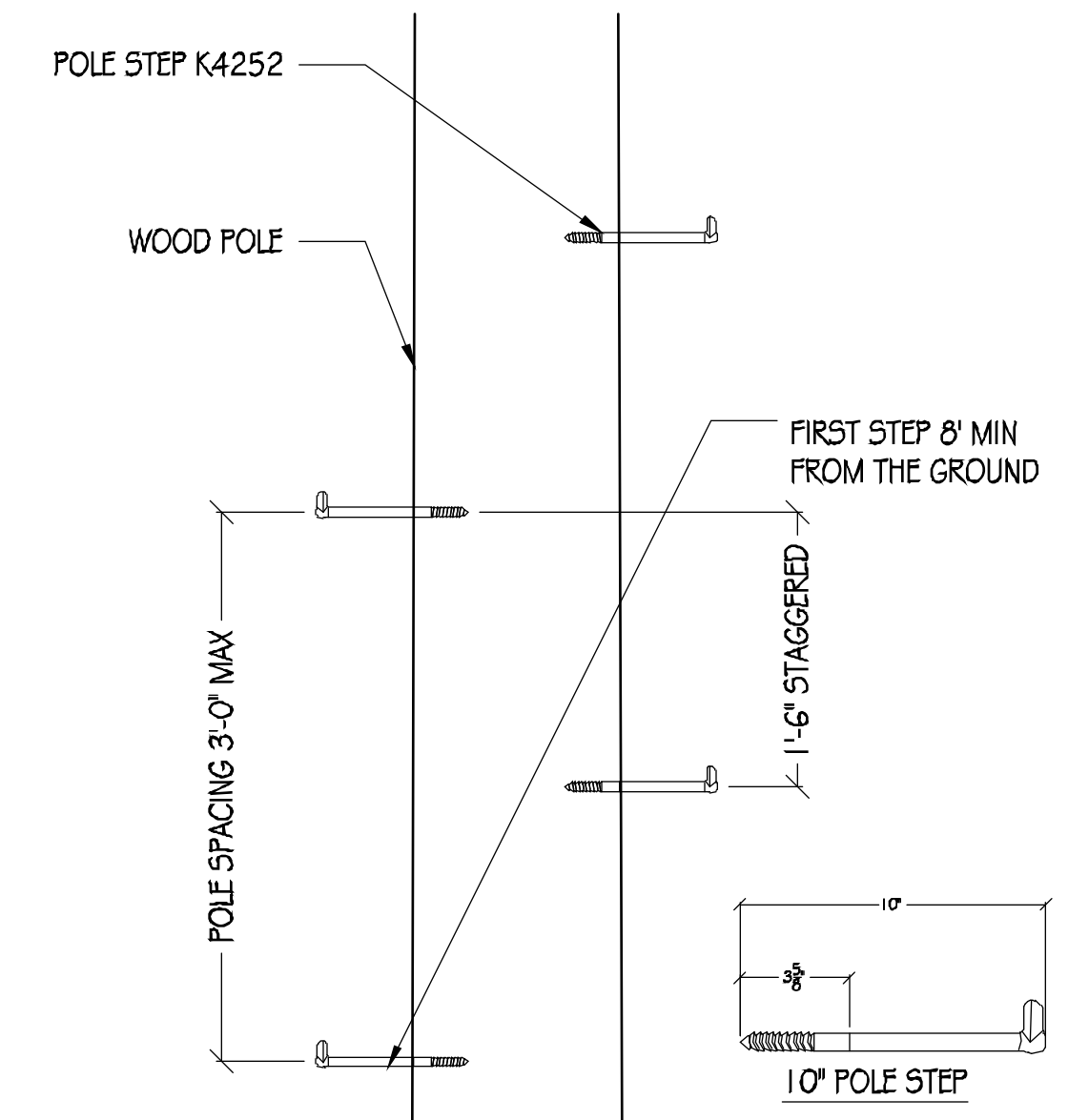
- NOTES:
- SIGNAGE TO BE SCREWED DIRECTLY TO POLE AT ALL FOUR CORNERS.
  - SIGNAGE TO BE PLACED A MINIMUM OF 2'-0" BELOW (N) ANTENNA



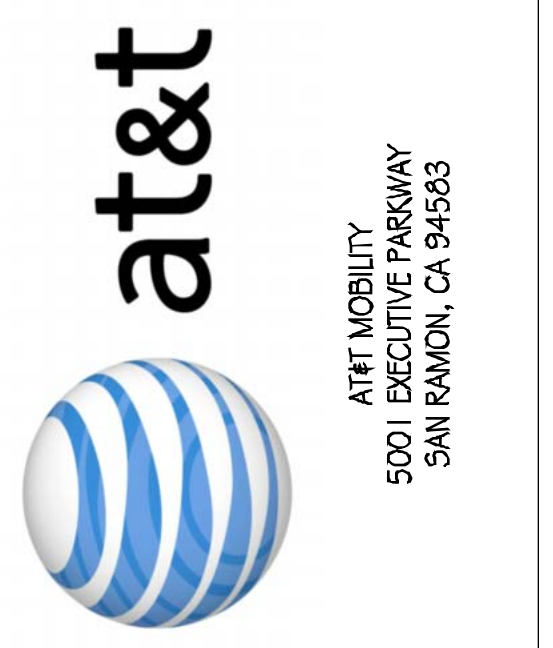
**3 RRU MOUNTING DETAIL**  
1" = 1'



**4 JPAK STANDOFF DETAIL**  
1" = 1'



**5 POLE STEP**  
1" = 1'  
NOTE: POLE STEP TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS



**PRECISION DESIGN & Drafting, INC.**  
Phone: (530) 823-6546 www.pdnd.com  
11768 Alwood Rd, Suite 20 Auburn, CA 95603



**CRAN\_RSFR\_LOSAO\_11**  
130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/24/19  
SHEET TITLE:

DETAILS  
SHEET NUMBER  
**A-6**

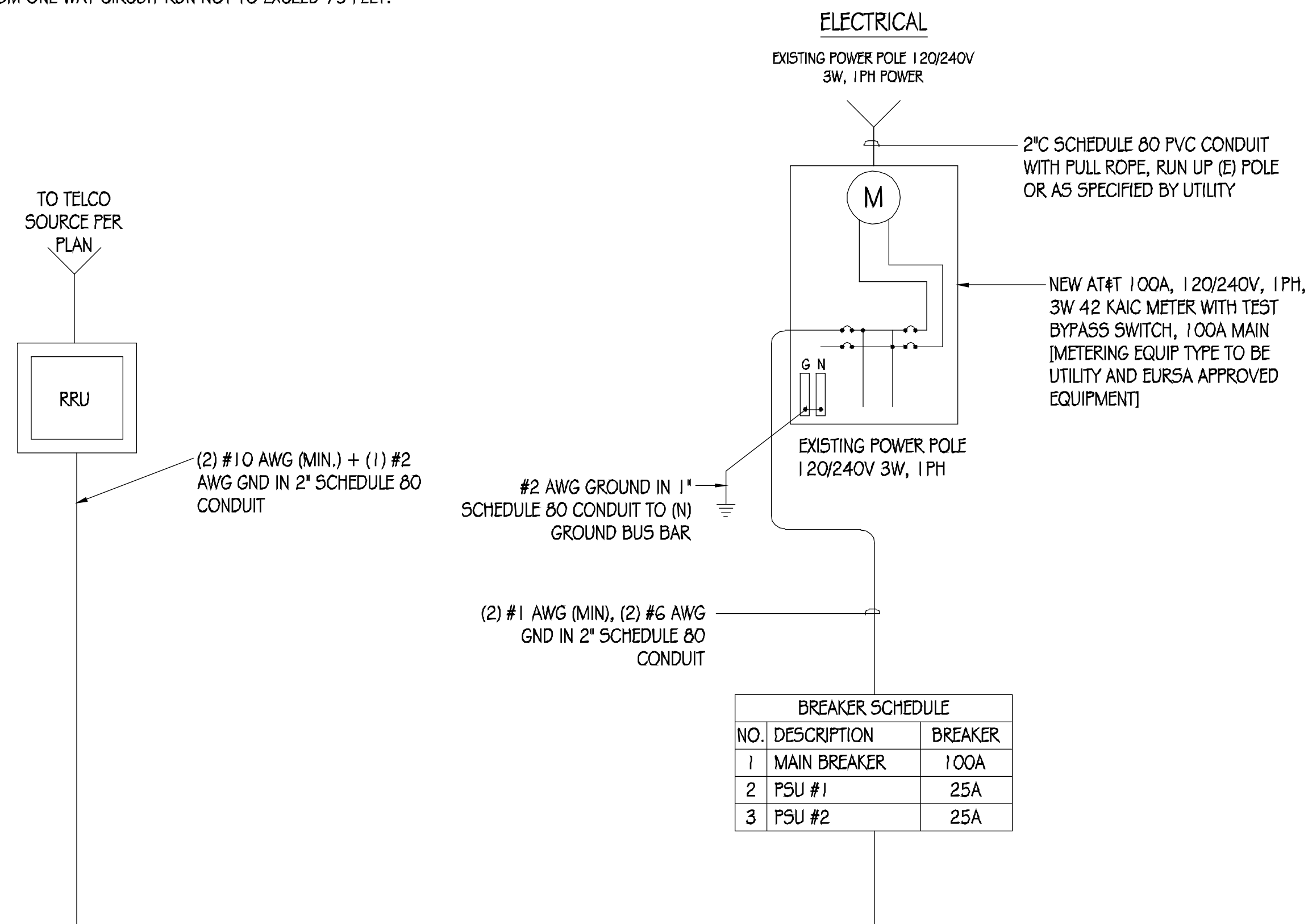


**GENERAL ELECTRICAL NOTES:**

1. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE 24, ALL OTHER APPLICABLE CODES AND ORDINANCES & THE REQUIREMENTS OF THE FIRE MARSHALL. ALL EQUIPMENT & WIRING SHALL BEAR THE APPROVAL STAMP OF UNDERWRITERS LABORATORY (UL) OR AN APPROVED TESTING LABORATORY, PAYMENT FOR ALL INSPECTION FEES AND PERMITS ARE PART OF THIS CONTRACT.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY AND GOOD CONDITION OF ALL MATERIALS & EQUIPMENT FOR THE ENTIRE INSTALLATION & UNIT COMPLETION OF WORK, ERECT & MAINTAIN APPROVED & SUITABLE BARRIERS, PROTECTIVE DEVICES & WARNING SIGNS, BE FULLY RESPONSIBLE FOR ANY LOSS OR INJURY TO PERSONS OR PROPERTY RESULTING FROM NEGLIGENCE AND/OR ENFORCEMENT OF ALL SAFETY PRECAUTIONS & WARNINGS.
4. COORDINATE THE ELECTRICAL INSTALLATION WITH ALL OTHER TRADES.
5. ALL SAW CUTTING, TRENCHING, BACK FILLING & PATCHING SHALL BE RESTORED PER CITY STANDARD DETAILS.
6. FINALIZE ALL ELECTRICAL SERVICE ARRANGEMENTS, INCLUDING VERIFICATION OF LOCATIONS, DETAILS, COORDINATION OF THE INSTALLATION & PAYMENT OF ACCRUED CHARGES WITH LOCAL POWER COMPANY, VERIFY LOCATION FOR FACILITIES & DETAILS WITH POWER UTILITY, IN ADDITION TO THE REQUIREMENTS SHOWN IN THE CONTRACT DOCUMENTS, WORK SHALL COMPLY WITH CONSTRUCTION STANDARDS & SERVICE REQUIREMENTS OF THE RESPECTIVE UTILITIES, INCLUDING ANY SUPPLEMENTAL DWGS ISSUED & SHALL BE SUBJECT TO APPROVAL OF THESE UTILITIES.
7. ALL WIRING SHALL BE COPPER. INSULATION FOR BRANCH CIRCUIT CONDUCTORS SHALL BE TYPE "THWN" CONDUCTORS LARGER AND #6 AWG MAY BE TYPE "THWN" OR "TWN".
8. PROVIDE CONDUIT SEALS FOR ALL CONDUITS PENETRATING WEATHERPROOFING OR WEATHERPROOF ENCLOSURE ENVELOPE. MASTIC SEAL ALL CONDUIT OPENING PENETRATIONS COMPLETELY WATERTIGHT.
9. UNLESS SHOWN OTHERWISE, FUSED DISCONNECT SWITCHES SHALL BE PROVIDED WITH LOW-PEAK, SIDLAL ELEMENT FUSES SIZED TO EQUIPMENT NAMEPLATE FUSE CURRENT RATING. MOTOR STARTERS SHALL BE PROVIDED WITH SIMILARLY SIZED FUSIBLE ELEMENTS, SWITCHES AND OTHER OUTDOOR EQUIPMENT SHALL BE RATED NEMA 3R AND/OR UL LISTED FOR WET ENVIRONMENT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE GROUNDING SYSTEM AND ENSURING A 5 OHM OR LESS GROUNDING PATH, ADDITIONAL GROUND RODS AND/OR CHEMICAL ROD SYSTEM SHALL BE USED TO ACHIEVE THIS REQUIREMENT IF THE GIVEN DESIGN CANNOT BE MADE TO ACHIEVE THIS REQUIREMENT.

**POWER AND TELCO NOTES:**

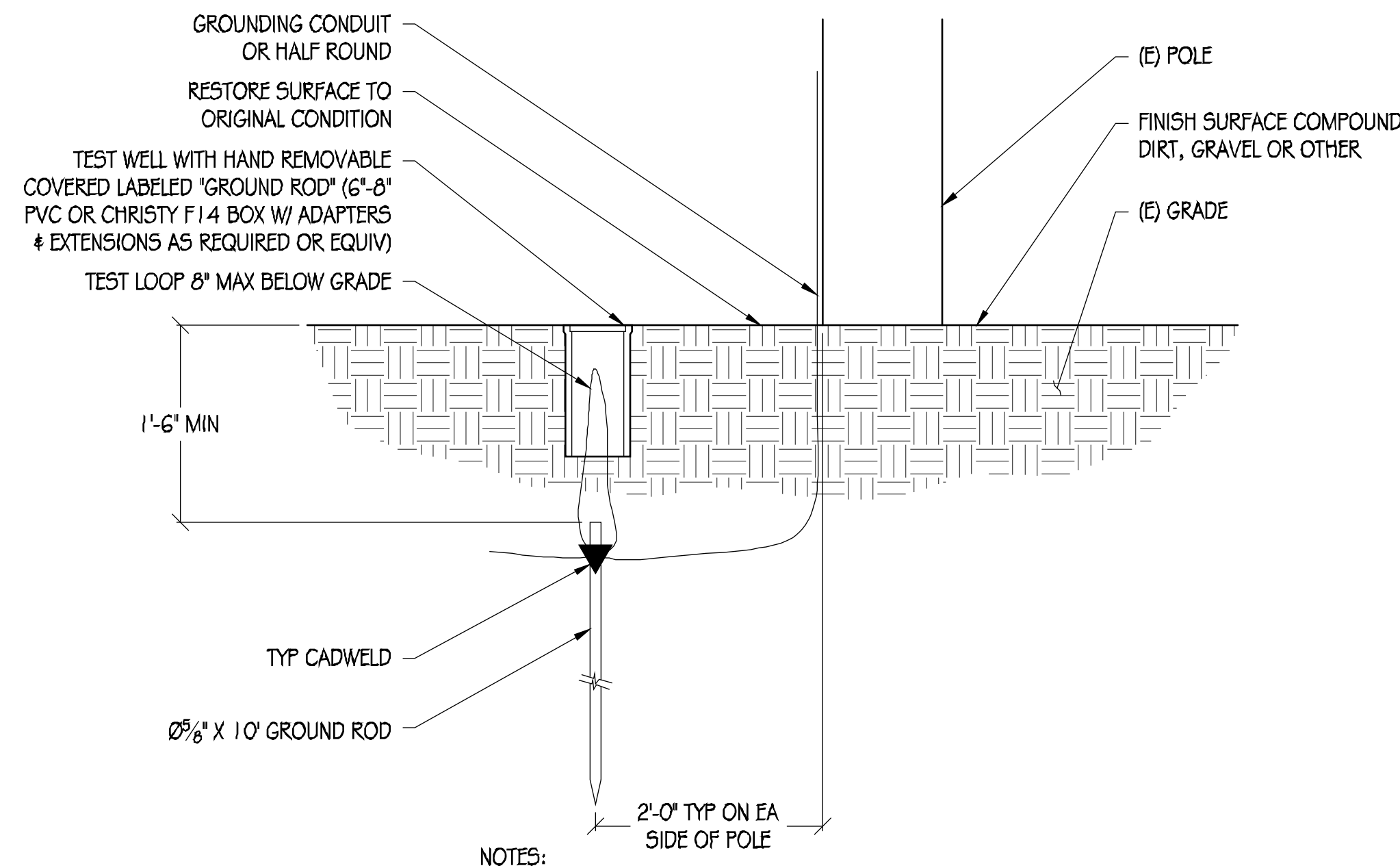
1. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE PER PROJECT SCOPE OF WORK.
3. CONTRACTOR SHALL FURNISH AND INSTALL CONDUIT, PULL WIRES, CABLE PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT, TRANSFORMER PAD, BARRIERS, POLE RISER TRENCHING, BACK FILL, AND UTILITY FEES, AND INCLUDE REQUIREMENTS IN SCOPE.
4. CONTRACTOR SHALL LABEL ALL MAIN DISCONNECT SWITCHES AS REQUIRED BY CODE.
5. CONTRACTOR SHALL PROVIDE METER WITH DIST. PANEL AND BREAKERS FOR POWER TO THE BTS UNITS AND THE BTS/ UTILITY CABINET.
6. ALL SERVICE EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE N.E.C. AND UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
7. CONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE ENTRANCE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
9. MAXIMUM ONE WAY CIRCUIT RUN NOT TO EXCEED 75 FEET.



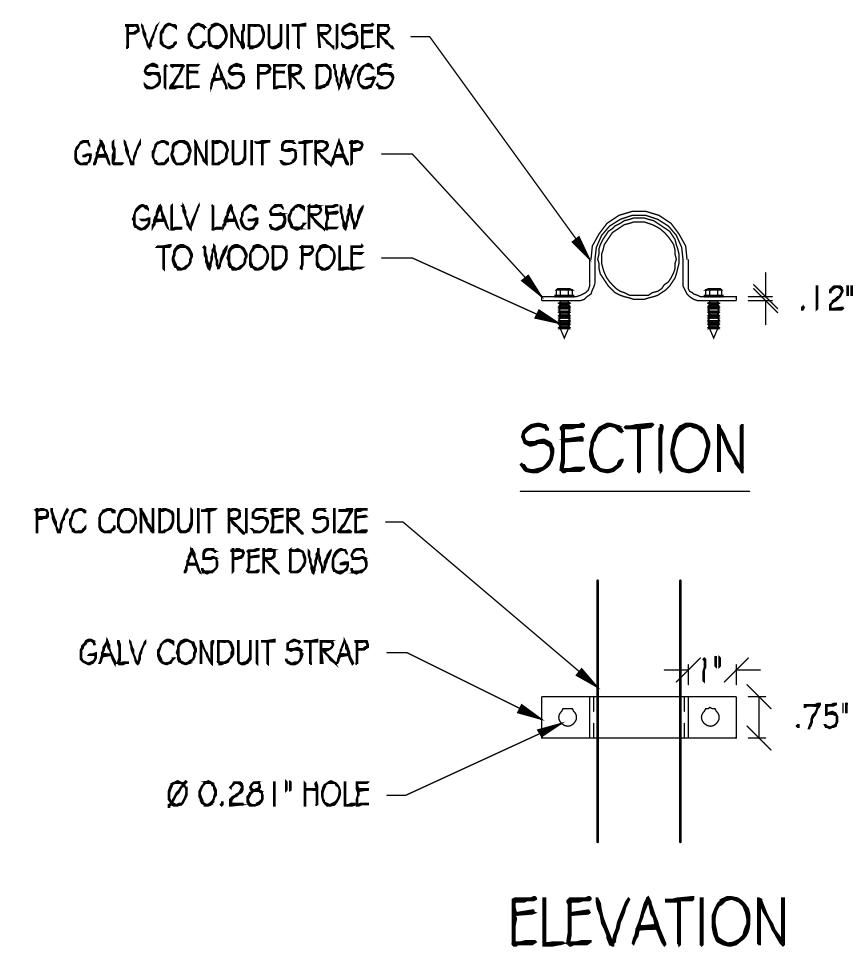
**SINGLE-LINE DIAGRAM**

**LOAD SCHEDULE**

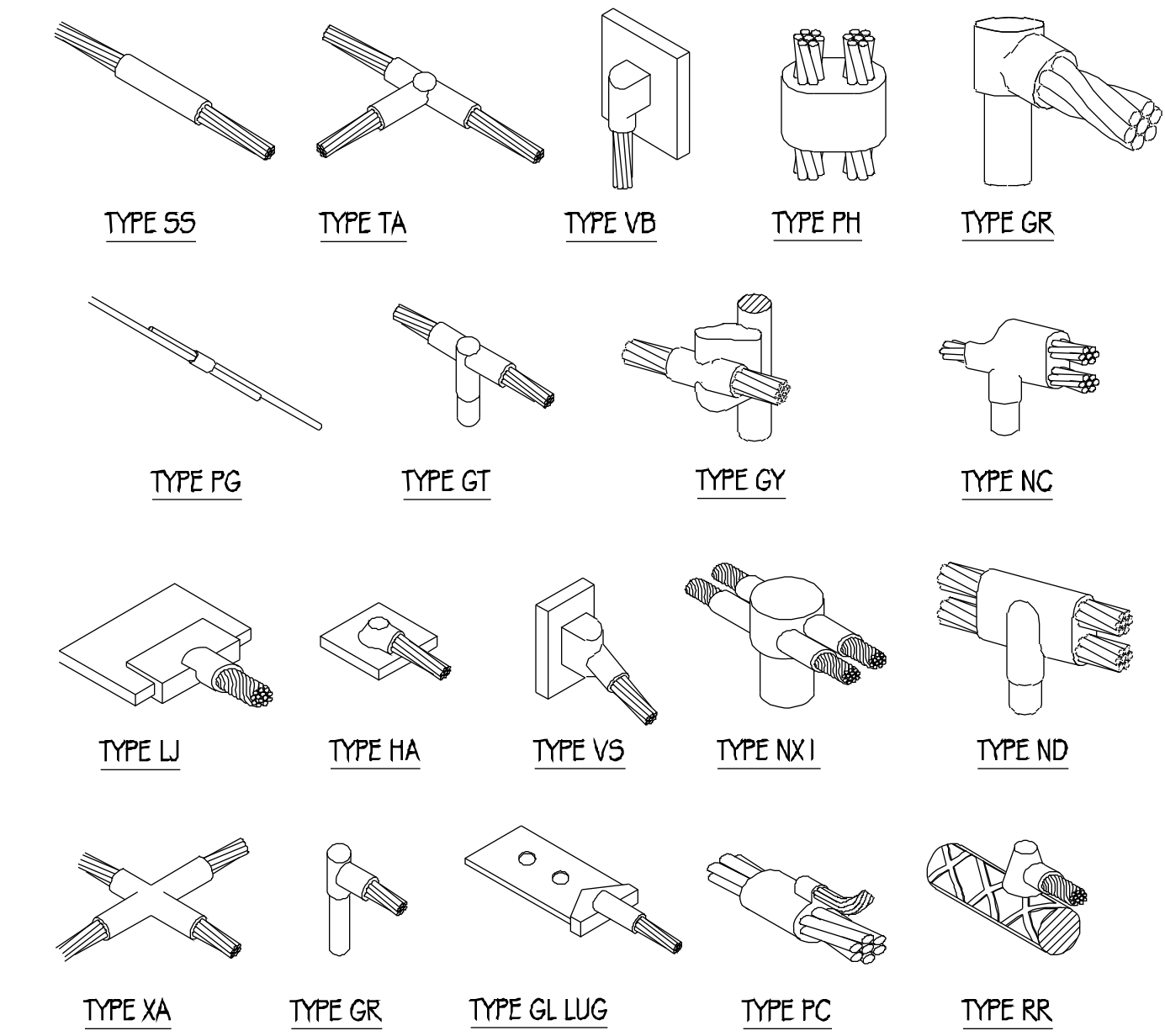
MAKE/MODEL	QUANTITY	DESCRIPTION	DIMENSIONS	WEIGHT	TX/RX	MAX TRANSMIT POWER	W	HV
ERICSSON RRU5-4415	1	RRU5	16.5" X 13.4" X 5.9"	46 LBS	2T/2R	4 X 40W	670	0.67
ERICSSON RRU5-11	1	RRU5	19.7" X 17.0" X 7.2"	55 LBS	2T/2R	2 X 40W	520	0.52
NEMA 3R ENCLOSURE	1	DISCONNECT	12.7" X 8.9" X 4.3"	40 LBS (MAX)	N/A	N/A	N/A	N/A



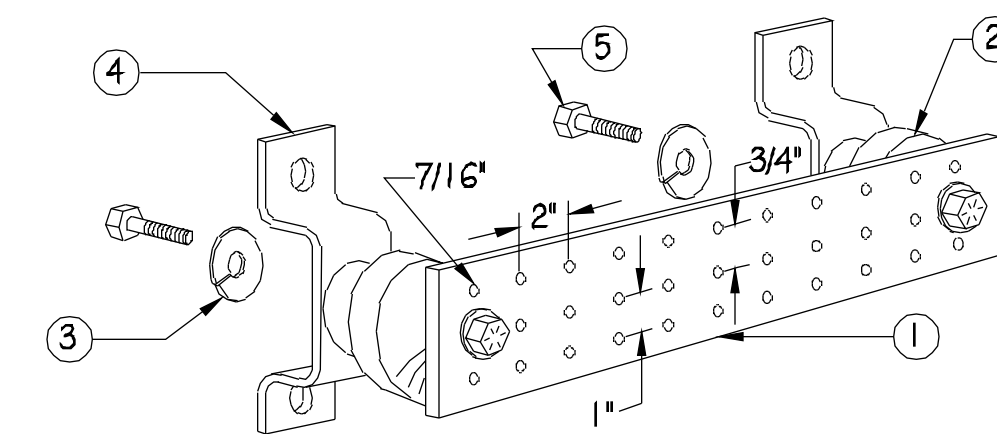
**1 POLE GROUNDING DETAIL**



**2 CONDUIT RISER DETAIL**



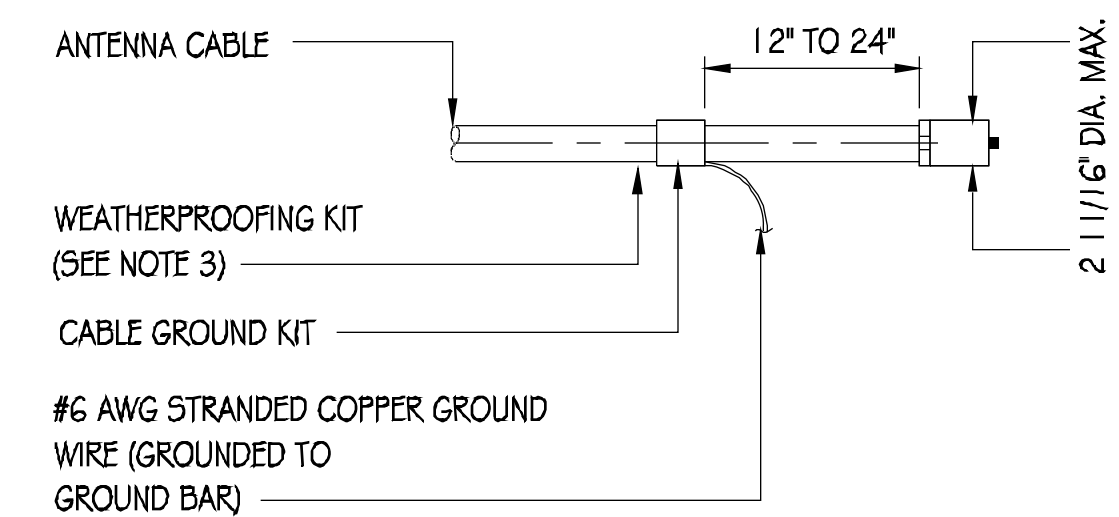
**3 EXOTHERMIC WELD DETAILS**



**NOTES:**

1. GALVANIZED STEEL GROUND BAR, HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION. (ACTUAL GROUND BAR SIZE WILL VARY BASED ON NUMBER OF GROUND CONNECTIONS)
2. INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4 OR APPROVED EQUAL
3. 5/8" LOCK WASHERS, NEWTON INSTRUMENT CO., CAT. NO. 3015-8 OR APPROVED EQUAL
4. WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO., CAT NO. A-6056 OR APPROVED EQUAL
5. 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO., CAT NO. 3012-1 OR APPROVED EQUAL
6. INSULATORS SHALL BE ELIMINATED WHEN BONDING DIRECTLY TO TOWER/MONOPINE STRUCTURE. CONNECTION TO TOWER/MONOPINE STRUCTURE SHALL BE PER MANUFACTURERS RECOMMENDATIONS.

**4 GROUND BAR DETAIL**



**NOTES:**

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
3. WEATHER PROOFING SHALL BE (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)

**5 GND KIT DETAIL**



AT&T MOBILITY  
5001 EXECUTIVE PARKWAY  
SAN RAMON, CA 94583



36 EXECUTIVE PARK, SUITE 210  
IRVINE, CA 92614

**PRECISION DESIGN**  
Drafting, INC.

Phone: (530) 823-6546 www.pdnd.com  
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THIS PLAN AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED BY ANY PERSON OR ENTITY OTHER THAN OUR CLIENTS WITHOUT OUR WRITTEN PERMISSION. COPYRIGHT © 2011 PRECISION DESIGN DRAFTING, INC. ALL RIGHTS RESERVED.



CRAN\_RSFR\_LOSAAO\_11

130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

APPROVED BY: B. McCOMB

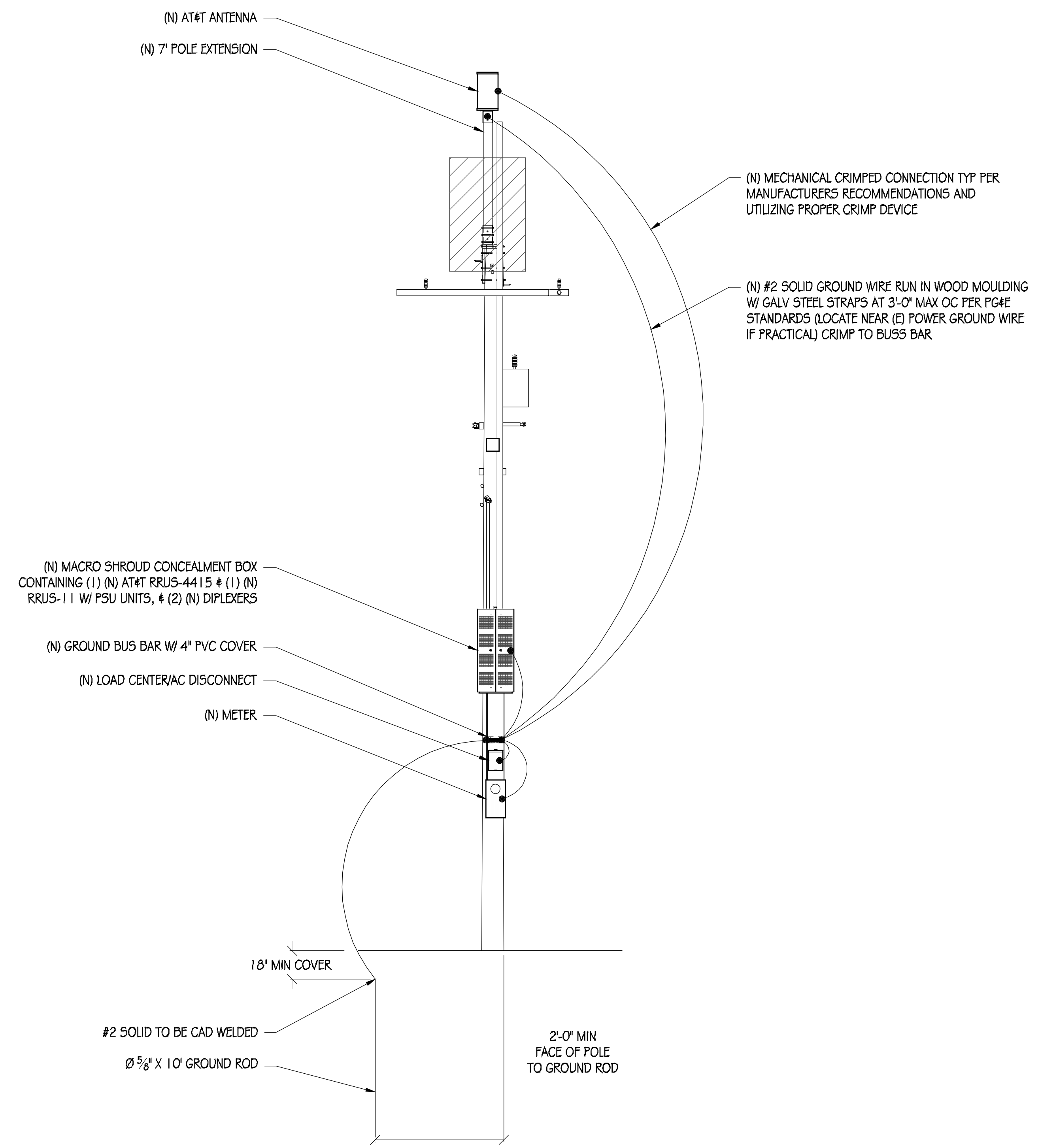
DATE: 07/24/19

SHEET TITLE:

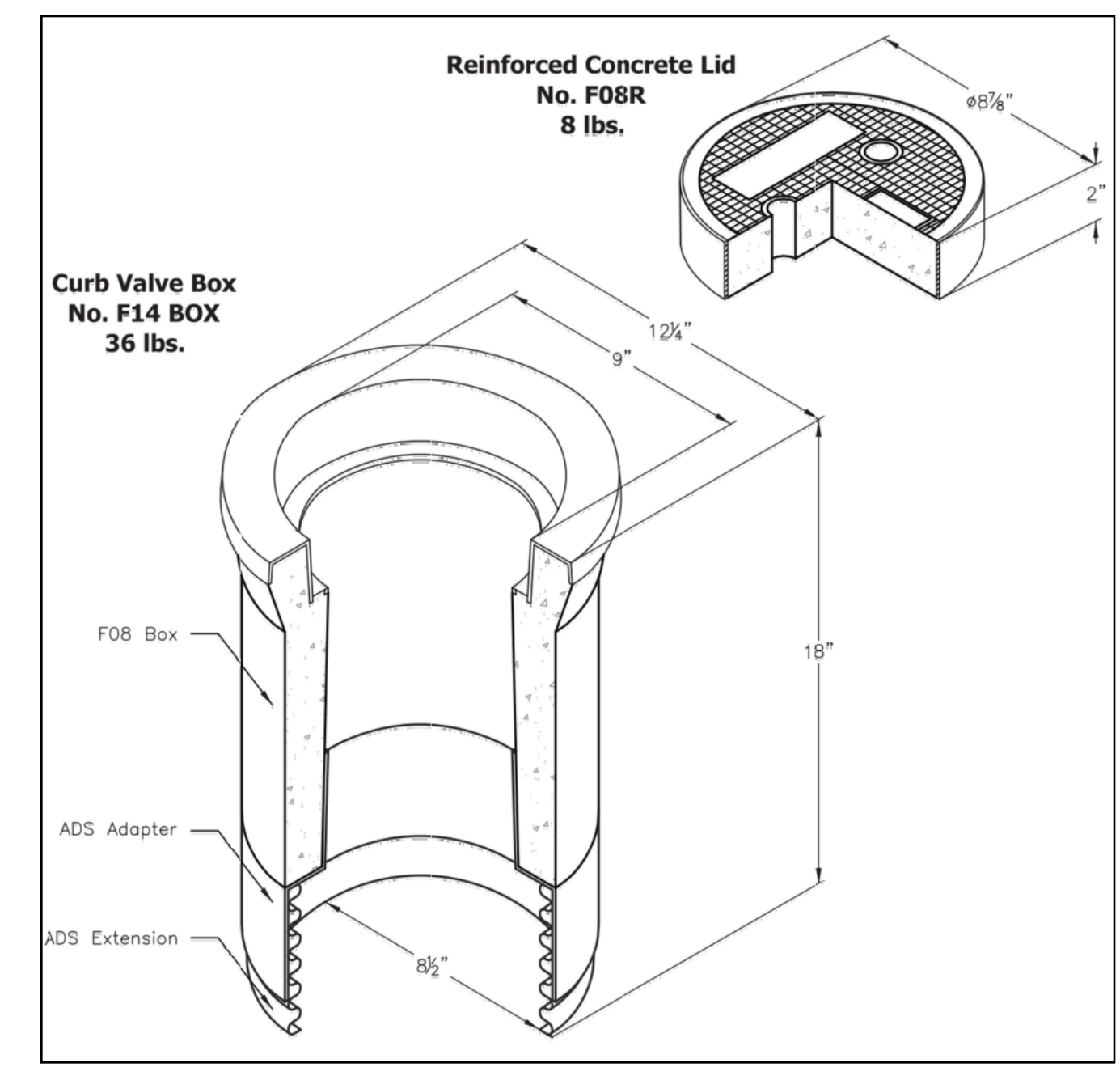
**SINGLE-LINE DIAGRAM & DETAILS**

SHEET NUMBER

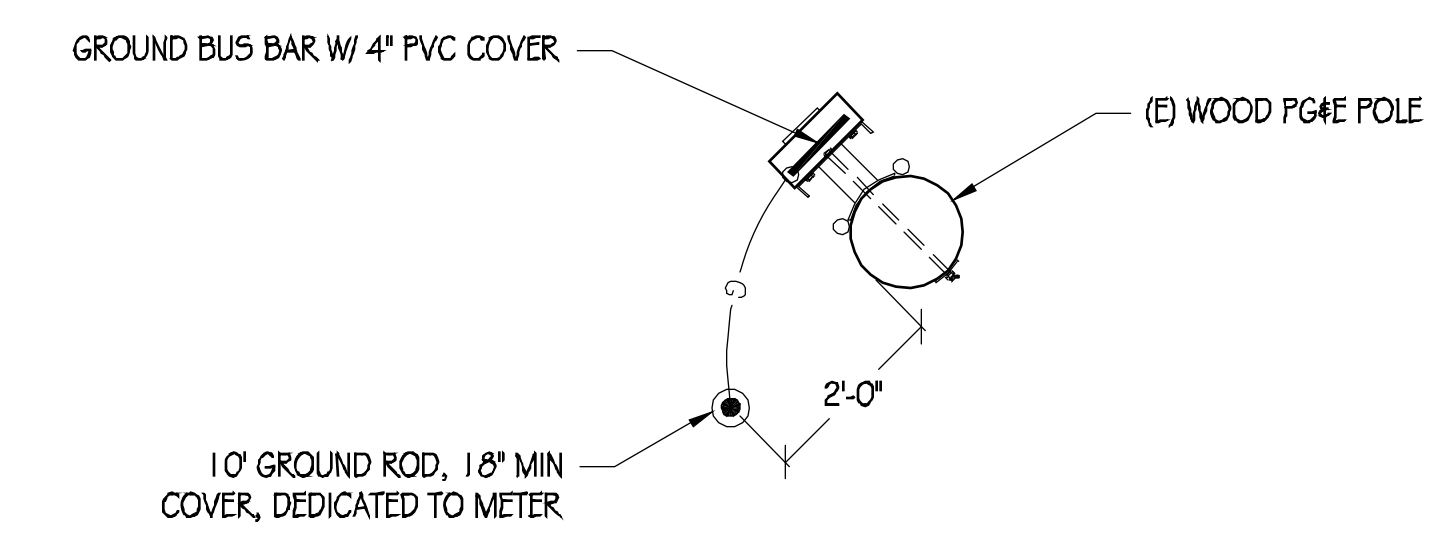
**E-1**



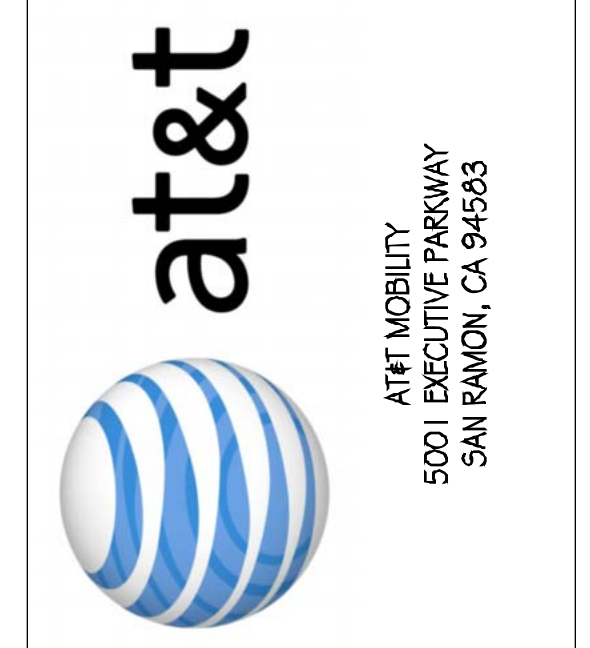
**POLE GROUNDING DIAGRAM**  
NTS



**TEST WELL DETAIL**  
NTS



**GROUNDING PLAN**  
NTS



**PRECISION DESIGN & Drafting, INC.**  
Phone: (530) 823-6546 www.pdrnd.com  
11768 Alwood Rd, Suite 20 Auburn, CA 95603

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF PRECISION DESIGN & DRAFTING, INC. THESE DRAWINGS AND SPECIFICATIONS SHALL NOT BE USED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF PRECISION DESIGN & DRAFTING, INC. ALL RIGHTS RESERVED.



**CRAN\_RSFR\_LOSAO\_11**

130 LOS ALTOS AVE  
LOS ALTOS, CA 94022

**ISSUE STATUS**

△	DATE	DESCRIPTION
	01/30/19	CD 90%
	07/24/19	CD 100%

DRAWN BY: T. JONES  
CHECKED BY: T. DICARLO  
APPROVED BY: B. McCOMB  
DATE: 07/24/19  
SHEET TITLE:

GROUNDING DIAGRAMS  
SHEET NUMBER  
**E-2**