

CRAN RSFR LOSAO 05 SITE ID:

49 SAN JUAN CT SITE ADDRESS:

LOS ALTOS, CA 94022

114474352 PM#:

SITE TYPE: BRAND NEW PG&E POLE #TBD

POLE OWNER: PG&E

14816594 FA LOCATION:

198295 USID:

## SITE INFORMATION

SAN RAMON, CA 94583

APPLICANT: AT#T MOBILITY 5001 EXECUTIVE PARKWAY

> SURESITE 36 EXECUTIVE PARK, SUITE 210

> > IRVINE, CA 92614

49 SAN JUAN CT

SANTA CLARA

ADJCT TO 170-13-045

AGENT:

SITE ADDRESS:

COUNTY:

LOS ALTOS, CA 94022

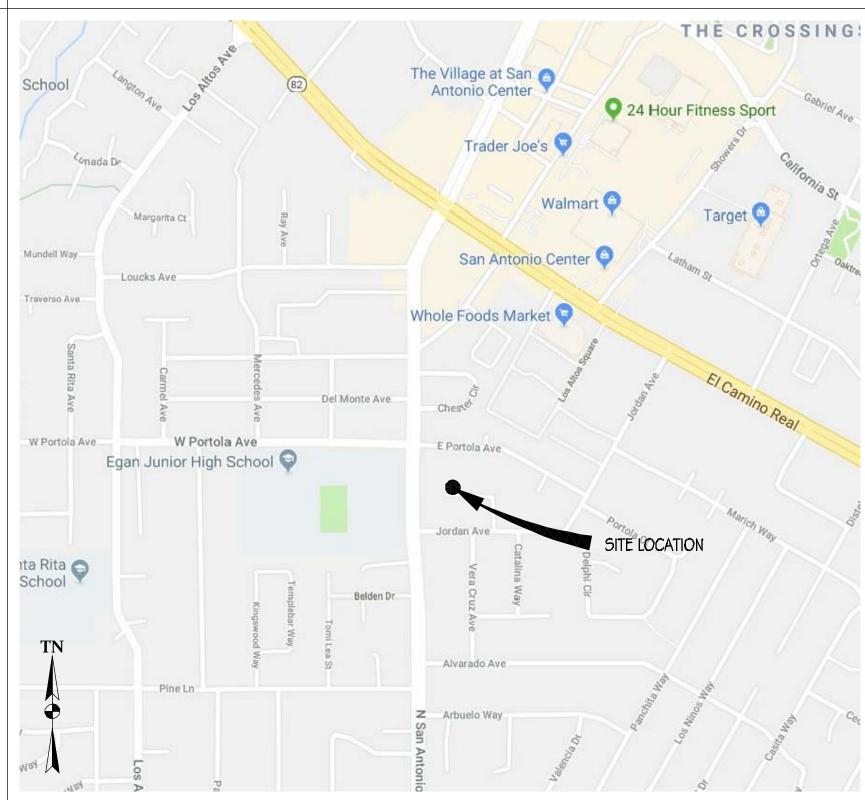
37° 23' 45.20" N (37.3958889) NAD 83 LATITUDE:

LONGITUDE: 122° 06' 47.63" W (-122.1132306) NAD 83

**GROUND ELEVATION:** ±94.9' AM5L ZONING: **PUBLIC ROW ZONING JURISDICTION:** CITY OF LOS ALTOS

PG¢E SAP ID: 100508817 LOCAL STREET CLASSIFICATION:

## VICINITY MAP



## CODE COMPLIANCE

CONSTRUCTION WORKS & MATERIALS MUST COMPLY WITH ALL APPLICABLE NATIONAL, STATE \$ LOCAL CODES AS ADOPTED BY LOCAL JURISDICTION, INCLUDING BUT NOT LIMITED TO:

- 1. 2016 CALIFORNIA ADMINISTRATIVE CODE (INCL. TITLES 24 \$ 25)
- 2. 2016 CALIFORNIA BUILDING CODE
- 3. 2016 CALIFORNIA ELECTRICAL CODE
- 4. 2016 CALIFORNIA MECHANICAL CODE
- 5. 2016 CALIFORNIA PLUMBING CODE
- 6. 2016 CALIFORNIA FIRE CODE
- 7. LOCAL BUILDING CODES
- 8. CITY/COUNTY ORDINANCES
- 9. 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

500 I EXECUTIVE PARKWAY, SAN RAMON, CA 94583 49 SAN JUAN CT, LOS ALTOS, CA 94022

1.	HEAD NORTHEAST ON BISHOP DR TOWARD SUNSET DR	256	FT
2.	TURN RIGHT ONTO SUNSET DR	Q.I	MI
3.	USE THE MIDDLE LANE TO TURN RIGHT ONTO BOLLINGER CANYON RD	0.3	MI
4.	USE THE RIGHT LANE TO MERGE ONTO 1-680 S VIA THE RAMP TO SAN JOSE	0.3	MI
5.	MERGE ONTO 1-680 5	21.5	Μl
6.	TAKE EXIT 12 FOR MISSION BLVD/STATE ROUTE 262 TOWARD 1-880	0.2	MI
7.	KEEP RIGHT AT THE FORK, FOLLOW SIGNS FOR MISSION BLVD W AND MERGE ONTO CA-262		
	S/MISSION BLVD	0.3	Ml
8.	MERGE ONTO CA-262 S/MISSION BLVD	0.6	MI
9.	USE THE LEFT 2 LANES TO TAKE THE EXIT TOWARD INTERSTATE 880 S/SAN JOSE	0.9	Μl
10.	MERGE ONTO 1-880 S	3.1	MI
11.	USE THE RIGHT 2 LANES TO TAKE THE CA-237 W EXIT TOWARD MTN VIEW	0.9	MI
12.	CONTINUE ONTO CA-237 W	8.4	MI
13.	KEEP LEFT TO CONTINUE ON CA-237 W/SOUTHBAY FWY	0.5	MI
14.	TURN RIGHT ONTO EL CAMINO REAL	2.3	MI
15.	TURN LEFT ONTO JORDAN AVE	0.4	MI
16.	TURN RIGHT ONTO SAN JUAN CT	469	FT

END AT: 49 SAN JUAN CT, LOS ALTOS, CA 94022

ESTIMATED TIME: 50 MINS ESTIMATED DISTANCE: 39.9 MI

### PROJECT TEAM

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 A (N) PG&E UTILITY POLE IN THE PUBLIC RIGHT OF WAY,

#### SCOPE OF WORK:

- . INSTALL (N) TELECOMMUNICATIONS EQUIPMENT BOXES ON A (N) PG#E UTILITY POLE. EQUIPMENT IS TO BE INSTALLED ON GO95 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-OM2L10H2-O6T CYLINDRICAL ANTENNA
- 2. ALL EQUIPMENT, EQUIPMENT MOUNTING, CONDUITS, AND APPURTENANCES TO BE PAINTED TO MEET JURISDICTION APPROVAL 3. UTILITY LINES BETWEEN (E) POINT OF CONNECTION \$ POLE TO BE UNDERGROUND AND/OR OVERHEAD.
- 4. FIBER CONNECTION TO BE SECURE UNDER SEPARATE ENCROACHMENT PERMIT.

## DRAWING INDEX

#### SHEET NO: SHEET TITLE

TITLE SHEET

GENERAL NOTES, LEGEND, \$ ABBREVIATIONS

SITE PLAN A-1

EQUIPMENT PLAN & ANTENNA PLANS

**ELEVATIONS ELEVATIONS** 

DETAILS

DETAILS

SINGLE-LINE DIAGRAM & DETAILS GROUNDING DIAGRAMS

TRAFFIC CONTROL PLAN

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

"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







CRAN RSFR LOSAO 05

49 SAN JUAN CT LO5 ALTO5, CA 94022

ISSUE	STATUS
DATE	DESCRIPTION

				D 2001 (11011	
		10/30/18	3	CD 90%	
		07/25/19	9	CD 100%	
	DRAWN BY: CHECKED BY: APPROVED BY:		1	. JONES	
			1	. DICARLO	
			E	В. МсСОМВ	
	DATE:		C	7/25/19	

TITLE SHEET

SHEET TITLE:

SHEET NUMBER

#### GENERAL CONSTRUCTION NOTES

- 1. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC/UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- 6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE, THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYORS MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT/ENGINEER PRIOR TO PROCEEDING WITH THE WORK IS ANY DISCREPANCY IS FOUND BETWEEN THE CARJOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT/ ENGINEER.
- 7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- 8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
- 9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION, CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- 10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION, ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT. ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PREFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE,
- 1.1. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- 12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED/ DISRUPTED DURING CONSTRUCTION SHALL BE RETURNED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT/ ENGINEER AT COMPLETION OF PROJECT.
- 13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC, SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- 14. INCLUDE MISC ITEMS PER AT&T WIRELESS SPECIFICATIONS.

SYMBOLS LEGEND

- 15. ALL EQUIPMENT LOGOS, OTHER THAN THOSE REQUIRED BY REGULATION (E.G. NODE IDENTIFICATION OR SHTUDOWN SIGNAGE) OR PG&E REGULATIONS SHALL BE PAINTED OVER OR REMOVED. RAISED/DEPRESSED LOGOS OR TEXT ON EQUIPMENT (E.G. RRUS), IF PRESENT, TO BE SANDED OFF OR COVERED WITH STICKER, & THEN PAINTED OVER.
- 16, FONDATED RF WAC MARNING SIGNAGE SHALL FACE OUT TO STREET WHEN PLACED IN FRONT OF OR NEAR A WINDOW. SIGNAGE SHALL FACE TOWARD THE BUILDING IF THERE IS NO WINDOW.
- 17. ALL EQUIPMENT, INCLUDING ANTENNAS, MOUNTING/STANDOFF BRACKETS, POLE EXTENSIONS, CONDUIT, METER, AND RADIOS SHALL BE PAINTED 'MESA BROWN' USING A DURABLE OUTDOOR PAINT.

GROUT OR PLASTER

(E) BRICK

(E) MASONRY

CONCRETE

EARTH

PLYWOOD

WOOD CONT.

WOOD BLOCKING

PROPERTY/LEASE LINE

GROUND CONDUCTOR

OVERHEAD SERVICE

CHAIN LINK FENCING

OVERHEAD TELEPHONE/OVERHEAD

OVERHEAD TELEPHONE LINE

OVERHEAD POWER LINE

POWER RUN

SAND

STEEL

CENTERLINE

MATCH LINE

WORK POINT

\_\_\_\_\_

\_\_\_\_

——OHT/OHP——

——— OHT ———

—— P ——

—— C□AX —— COAXIAL CABLE

- 18. CABLING SHALL BE MESA BROWN IN COLOR AND SHALL BE INSTALLED IN A TIDY MANNER WITHOUT EXCESS CABLE LOOPS, \$ SHALL BE HIDDEN FROM VIEW TO THE MAXIMUM EXTENT POSSIBLE.
- 19. SUPPORT EQUIPMENT (E.G. METERS, DISCONNECT SWITCH, ETC) TO BE CLUSTERED VERTICALLY AS CLOSE AS TECHNICALLY FEASIBLE ON POLE.

#### GENERAL NOTES FOR EXISTING CELL SITES

- PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING CONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
- CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. CONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY CONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- SINCE THE CELL SITE IS ACTIVE, ALL SAPETY 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 ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND TI CABLES, GROUNDING CABLES AS SHOWN ON THE POWER AND GROUNDING PLAN DRAWING. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY, CONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
- 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.

#### APPLICABLE CODES, REGULATIONS, AND STANDARDS

- CONTRACTORS WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- CONTRACTORS WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
  - -AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE -AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION -TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-F. STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES -INSTITUTION FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT
  - -IEEE CG2.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- TIA GO7 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS AND TELCORDIA GR-G3 NETWORK EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- ANY AND ALL OTHER LOCAL \$ STATE LAWS AND REGULATIONS

T TELCO RUN

----- G ----- GROUNDING CONDUCTOR

——— — — GROUNDING CONDUCTOR

--- CONDUIT UNDERGROUND

FUSE, SIZE AND TYPE AS INDICATED.

NEMA 3R ENCLOSURE

#WSW232T

ENCLOSURE, SQ D CATALOG NO. H222NRB

SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NEMA 3R

MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE,

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W,

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W,

LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL

EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG

LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL

5/8" X 10'-0", CU. GND ROD 18" MIN. BELOW GRADE,

LIGHTING FIXTURE, 1/175W. METAL HALIDE, HUBBELL CAT #MIC-0175H-336

EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING,

MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307

OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121

W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB

COMBINATION, EXIT SIGN & EMERGENCY LIGHTING,

LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG

HUBBELL LIGHTING CATALOG #PRC

#HEG-50-2-R91

#BRH-100-06-1

LIGHTING CATALOG #QL-505

SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG

TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

5/8" X 10'-0" ,CU. GND ROD IN TEST WELL 18" MIN.

BELOW GRADE.

CHEMICAL GROUND ROD

CADWELD CONNECTION

MECHANICAL CONNECTION

HALO GROUND CONNECTION

CIRCUIT BREAKER

UTILITY METER BASE

STEP-DOWN TRANSFORMER

RECEPTACLE, 2P-3W-125V-15A, DUPLEX,

TOGGLE SWITCH, IP-125V-15A,

HUBBELL CATALOG #HBL 1201CN

(N) POLE MOUNTED XFMER

(E) POLE MOUNTED XFMR

(N) PAD MOUNTED XFMER

(E) PAD MOUNTED XFMER

TOGGLE SWITCH, IP-120V-15A, "WP"

IONIZATION SMOKE DETECTOR WALARM HORN \$

AUXILIARY CONTACT, 120 VAC, GENTEX PART NO.

GROUND TYPE, HUBBELL CATALOG #5362

TRANSFORMER

POLE

(XIT GROUND ROD)

#### GENERAL TRENCHING NOTES

- MAINTAIN 40" MINIMUM COVER FOR ALL ELECTRICAL CONDUITS.
- MAINTAIN 30" MINIMUM COVER FOR ALL TELECOMMUNICATIONS CONDUITS.
- MINIMUM I " SAND SHADING BELOW CONDUITS, AND 6" COVERING ON TOP OF CONDUITS REQUIRED. ALL ELECTRICAL CONDUITS FROM POWER COMPANY FROM ANY POLE, TRANSFORMER OR OTHER LOCATIONS WILL BE SLURRY BACKFILLED,
- IN STREET SLURRY TO GRADE AND MILL DOWN 1-1/2" FOR AC CAP.
- IN DIRT SLURRY 18" FROM GRADE AND FILL 95% COMPACTION NATIVE SOIL FOR BALANCE
- WARNING TAPE TO BE PLACED IN TRENCH 12" ABOVE ALL CONDUITS AND #18 WARNING TAPE ABOVE RING.

#### GENERAL GROUNDING NOTES

- 5/8" x 10' ROD, CAD WELD BELOW GRADE
- GROUND TESTED AT 5 OHMS OR LESS.
- #2 GROUND AND BOND WIRE. GROUND 2' MIN FROM POLE,
- PLACE 3 #10 GA WIRES FROM TESCO BREAKER TO PBMD OR STRONG BOX.
- WOOD MOULDING, STAPLED EVERY 3' AND AT EACH END, UNLESS OTHERWISE NOTED.

#### GENERAL CONDUIT NOTES

- ALL CONDUITS WILL BE MANDRELED AND EQUIPPED WITH 3/8" PULL ROPE.
- SCHEDULE 40 CONDUIT FOR UNDERGROUND USE.
- SCHEDULE 80 CONDUIT FOR RISER USE.
- 2" GALVANIZED STEEL CONDUIT FOR ANY CONDUIT UNDER 3", STUB UP 10" THEN CONVERT TO SCHEDULE 80.
- CONVERT 4" CONDUIT TO 3" AT BASE OF POLE.
- CONTRACTOR TO STUB UP POLE 10" w/ 3" POWER CONDUIT. POWER COMPANY TO CONVERT FROM 3" STUB SCHEDULE 80 TO 2" SCHEDULE 80 FROM TOP OF STUB UP.

#### TYPICAL R.O.W. POLE CONSTRUCTION NOTES

- CABLE NOT TO IMPEDE 15" CLEAR SPACE OFF POLE FACE.
- ALL CLIMB STEPS NEXT TO CONDUIT SHALL HAVE EXTENDED STEPS.
- NO BOLT THREADS TO PROTRUDE MORE THAN 1-1/2"
- ALL HOLES IN POLE LEFT FROM REARRANGEMENT OF CLIMBERS TO BE FILLED.
- 90° SHORT SWEEPS UNDER ANTENNA ARM, ALL CABLES MUST TRANSITION ON THE INSIDE OR BOTTOM OF THE ARM (NO CABLE ON TOP OF ARM).
- USE 90° CONNECTOR AT CABLE CONNECTION FOR OMNI DOWN ANTENNAS.
- USE CABLE CLAMPS TO SECURE CAB;LE TO ARMS, PLACE 2" T-MOBILE CABLE I.D. TAGS ON BOTH SIDES OF ARMS.
- USE 1/2" DIA. CABLE ON ANTENNAS UNLESS OTHERWISE SPECIFIED.
- FILL VOID AROUND CABLES AT CONDUIT OPENING WITH FOAM SEALANT TO PREVENT WATER INTRUSION.

#### ABBREVIATIONS

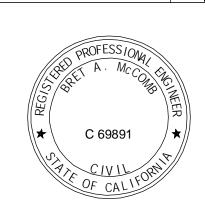
HANGER

HIGH PRESSURE SODIUM

## APOUT A CAME COVER ADDROUGH ## APOUT A CAME COVER ADDROUGH ## APOUT RABBORD FOLGE ## APO	A <sub>D</sub>	AMPERE	НТ	HEIGHT
ACTION   A	AB ABV	ANCHOR BOLT ABOVE	ICGB	ISOLATED COPPER GROUND BUSS
DECEMBER   1997   199	ACCA			
## APOVE PROBEINS COMPANY  LIN	ADD'L	ADDITIONAL		POUND(S)
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LIM ALIMINUM L DIORIGIDINAL DE DIORIGIDINAL DE PRESONE SOCIUM DE P	AFG			
THE ALTERNATE UPS DUPPETSORE SOULMAN  ACCOUNTS THE PROPERTY OF	ALUM		LITI	
## APERAN MECH MECH MECH MECH MECH MECH MECH MECH	ALT		irs	
APO-INTECRIBAN   MG   MACHINE DICT	ant	Antenna	MAS	
APPER TIPE	APPROX			
MECHANIST CAUSE  MECHANIST CONTROL  DETER  MICHANIST CONTROL  DETER  MICHANIST CONTROL  M	ARCH AT			
### BATTERY MIN MINIMALAY  1015 DAMPS  1016 DAMPS  1016 DAMPS  1017 DAMPS  1018 DAMPS  1019 DAMPS  101	AWG			
DO BOUNDS  OF BOUNDS  IX BUCKS  IX B	BATT			
DEC   DILIDING	BD			
BOOTHS	BLDG		MLO	MAIN LUGS ONLY
BEAM				
DOUBLAFF WILDING	BM			
SARKET   N	BN	BOUNDARY NAILING		
COM	BR			
13	BRKR			
DITTOM OF POOTING  10	BTS			
Description	BOF			
COMBUTE	B/U	BACK-UP CABINET		
ASINCE CARRIET  AND CARRIET  AND CARRIET  BY COUNT PERSERR P.C. PRESST CONCRETE  P POLIT  BY COUNT PERSERR P.C. PRESST CONCRETE  P POLIT  BY COUNT PERSERR P.C. PRESST CONCRETE  P PESCONAL COMMUNICATION SERVICES  BY PESCONAL COMMUNICATION SERVICES  BY PRESST CONCRETE  PESCONAL COMMUNICATION SERVICES  BY PRESST CONCRETE  PRESST PERSONAL COMMUNICATION SERVICES  BY PRESST CONCRETE  PRESST PESCONAL COMMUNICATION SERVICES  BY PRESST CONCRETE  PRESST PESCONAL COMMUNICATION SERVICES  BY PRESCONAL COMMUNICATION SERVICES  BY PRESCONAL COMMUNICAT	С		ΟC	ON CENTER
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CECUING	CIP		1/C PCa	
LIS CELING  18. CLEAR	ckt	CIRCUIT		
RE CLEAK	CLG		PLY	PLYWOOD
DICC   CONCRETE   PRC   PRIMARY RADIO CABINET	CLR			
ONN COMMETCON(OR) PRI PRIMARY ONST CONTRUCTION ONT CONTRUCTION PSF POLIDAGE PRESIDENCE TRATED POLIDAGE PRESIDENCE TRATED POLIDAGE PRESIDENCE TRATED POLIDAGE PRIMARY ONT CONTRUCTION ON CONTRUCTION				
ONST CONSTRUCTION ONT CONTROLLOS ONT CONTROLLOS ONT CONTROLLOS PONT (AULLS) PONT (A	CONN			
ONI	CONST	CONSTRUCTION	PSF	
DUBLÉ   PUR	CONT		P <del>S</del> I	POUNDS PER SQUARE INCH
DEMAND	d DB(			
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DOUGLAS FIR   RCFT   RECETTACLE	DEPT			
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M.   DIMENSION   REQUIRED	DIA		REF	
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Sch	DWL			
ELYATION	EA			
EC ELECTRICAL EV ELECTRICAL EV ELECTRICAL METALLIC TUBING MT SOLUTION MINUTE MG PROPER	egr			
EY ELVATOR  WIT ELECTRICAL METALLIC TUBING N EDCE NAIL STEC SPECIFICATION(S) NCL BIOLOGURE SG SGUARE SGUAR	elec Elec			
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GOUAL   STANDARD   S	ENGL ENG			
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RY EXPANSION (I EXTERIOR AD FABRICATION(OR) AC FACTOR TEL TELEPHONE A FIRE ALARM FIRE ALARM FIRE ALARM FIRE ALARM FINISH (FADE FINISH (	EXST, (E)	EXISTING		
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JUOR FLUORESCENT  IN FOUNDATION  FOUNDATION  FOUNDATION  FOUNDATION  FACE OF MASONRY  DM FACE OF MASONRY  DM FACE OF MASONRY  DM FACE OF WALL  DW WALT OR WALL  DW WITH STEPPINFIELD  R GROUND  R GROWTH (CABINET)  A GAUGE  B GALVANIZE(D)  FOI GROUND FALL CIRCUIT INTERRUPTER  WW WATT OR WIRE  ALV GALVANIZE(D)  FOI GROUND  WP WEATHERNATING CORRENT  WW WATT OR WIRE  ALV GALVANIZE(D)  FOI GROUND FALL CIRCUIT INTERRUPTER  WW WO WOOD  LB GLUE LAMINATED BEAM  WP WEATHERNACH  FOR GROUND  WF WEATHERNACH  FOR GROUND  FOR GROUND  WF WEATHERNACH  FOR GROUND  WF WEATHERNACH  FOR GROUND  FOR GROUND  FOR GROUND  WF WEATHERNACH  FOR GROUND  WF WEATHERNACH  FOR GROUND  FOR GROUND  FOR GROUND  WF WEATHERNACH  FOR GROUND  FOR GROUND  FOR GROUND  WF WEATHERNACH  FOR GROUND  FOR GRO	FIN FLR	T INICITILLY) FI COR		
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DC FACE OF CONCRETE  DM FACE OF MADDNRY  DW FACE OF MADDNRY  DW FACE OF WALL  DW WINDER GROUND  DW UNDER GROUND  UND UNDERWRITERS LABORATORY INC.  UND UNICESS NOTED OTHERWISE  V VOLT  FUSE  WOUTH (CABINET)  R GROWTH (CABINET)  R GROWTH (CABINET)  A GAUGE  WW WATT OR WIRE  EN GENERATOR  EN GENERATOR  WW WITHOUT  CROUND FALL CIRCUIT INTERRUPTER  WW WOOD  UND WOOD  UND WITHOUT  WO WOOD  UND WOOD  UND WITHOUT  WO WOOD  UND WITHOUT  WO WOOD  UND WITHOUT  WO WOOD  UND WITHOUT  WEIGHT  XFER TRANSFER  RND GROUND  WART TRANSFER  TRANSFORMER  TRANSFERIME  TRAN	FDN	FOUNDATION		
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Finish Surface  I, (*) Foot (Feet)  IG Footing  J Fuse  Ground  Growth (Cabinet)  A Gauge  En Generator  En Generator  Alv Galvanize(d)  Folic Ground  Folic Ground  Folic Ground  Alv Galvanized  Folic Ground Fault circuit interrupter  B Glue Laminated Beam  ND Ground  G	FO <del>S</del> FOW			
T, (1) FOOT (FEET) TIG FOOTING  J FUSE J FUSE GROUND R GROWTH (CABINET) A GAUGE EN GENERATOR ALV GALVANIZE(D) FCI GROUND FAULT CIRCUIT INTERRUPTER LB GLUE LAMINATED BEAM ND GROUND R GROUND FOI GROUND FOU GROUND FOI GROUN	F5			
FOOTING J FUSE GROUND R GROUND R GROWTH (CABINET) A GAUGE EN GENERATOR ALV GALVANIZE(D) FCI GROUND FAULT CIRCUIT INTERRUPTER B GLUE LAMINATED BEAM ND GROUND FS GLOBAL POSITIONING SYSTEM RND GROUND R	FT, (¹)	FOOT (FEET)		
FUSE GROUND R GROWTH (CABINET) A W WATT OR WIRE WIDE(MITH) WIDE(MITH) WIDE(MITH) WIDE(MITH) WITH WOOD WITHOUT WOOD UB GROUND WP WEATHERPROOF ND GROUND WF WEATHERPROOF ND GROUND WT WEIGHT FRANSFER RND GROUND STEM RND GROUND WT WEIGHT TRANSFER TRAN	FTG			
R GROWTH (CABINET) A GAUGE W WATT OR WIRE A GAUGE WD WIDE(MIDTH) EN GENERATOR ALV GALVANIZE(D) FCI GROUND FAULT CIRCUIT INTERRUPTER WD WOOD LB GLUE LAMINATED BEAM WP WEATHERPROOF ND GROUND PS GLOBAL POSITIONING SYSTEM RND GROUND DBC HARD DRAWN COPPER WIRE DG HOT-DIP GALVANIZE(D)  W WATT OR WIRE WD WIDE(MIDTH) WW WTH WOOD WTHOUT WW WOOD WTHOUT WF WEIGHT WEIGHT TRANSPER TRANSPER TRANSPER TRANSPER TRANSPER TRANSPER TRANSPORMER TRANSPORMER	FU G		VAC	VOLT ALTERNATING CURRENT
A GAUGE  EN GENERATOR  ALV GALVANIZE(D)  FCI GROUND FAULT CIRCUIT INTERRUPTER  B GLUE LAMINATED BEAM  ND GROUND  PS GLOBAL POSITIONING SYSTEM  RND GROUND  RND GROUND  RND GROUND  RND GROUND  BODC HARD DRAWN COPPER WIRE  DG HOT-DIP GALVANIZE(D)  WD WITHOUT  WO WITHOUT  WO WOOD  WEATHERPROOF  WI WEIGHT  TRANSFER  TRANSFER  TRANSFER  TRANSFORMER  LPE CROSS-LINK POLYETHYLENE  C CANTERLINE	G GR			
EN GENERATOR  ALV GALVANIZE(D)  FCI GROUND FAULT CIRCUIT INTERRUPTER  B GLUE LAMINATED BEAM  ND GROUND  PS GLOBAL POSITIONING SYSTEM  RND GROUND  RND GROUND  RND GROUND  RND GROUND  SYSTEM  RND GROUND  RND GROUND  RND GROUND  RND GROUND  RND GROUND  SYSTEM  SYST	GA	GAUGE		
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ND GROUND WE HER ROOF PS GLOBAL POSITIONING SYSTEM WT WEIGHT RND GROUND XFER TRANSFER DBC HARD DRAWN COPPER WIRE XPMR TRANSFORMER DG HOT-DIP GALVANIZE(D) C CROSS-LINK POLYETHYLENE	GFCI SLB		₩D	WOOD
PS GLOBAL POSITIONING SYSTEM YEER TRANSFER RND GROUND YPMR TRANSFORMER DBC HARD DRAWN COPPER WIRE YPM CROSS-LINK POLYETHYLENE DG HOT-DIP GALVANIZE(D) C CROSS-LINK POLYETHYLENE	GND			
RND GROUND  SPMR TRANSFORMER  DBC HARD DRAWN COPPER WIRE  DG HOT-DIP GALVANIZE(D)  CONTENT IN THE CONTENT IN TH	GP <del>S</del>			
DBC HARD DRAWN COPPER WIRE XLPE CROSS-LINK POLYETHYLENE DG HOT-DIP GALVANIZE(D) C CENTER INF	GRND	GROUND		
UG NOI-DIE GALVANIZE(U) Q CENTERINE	HDBC	HARD DRAWN COPPER WIRE		
DR HEADER P GATE	HDG HDR	HOT-DIP GALVANIZE(D) HEADER	<u>Č</u> .	CENTERLINE







CRAN RSFR LOSAO 05

49 SAN JUAN CT LO5 ALTO5, CA 94022

ISSUE STATUS					
△ DATE DESCRIPTION					
	10/30/18	CD 90%			
	07/25/19	CD 100%			
PRAWN BY: T. JONES					
CHECKED BY: T. DICARLO					
PPROVED BY:		В. МсСОМВ			
PATE:		07/25/1 <del>9</del>			
SHEET TITLE:					

GENERAL NOTES, LEGEND, **♯ ABBREVIATIONS** 

SHEET NUMBER

NEW ANTENNA

GROUND ROD

EXISTING ANTENNA

GROUND BUSS BAR

MECHANICAL GRND, CONN.

GROUND ACCESS WELL

ELECTRIC BOX

TELEPHONE BOX

FND. MONUMENT

SPOT ELEVATION

GRID REFERENCE

DETAIL REFERENCE

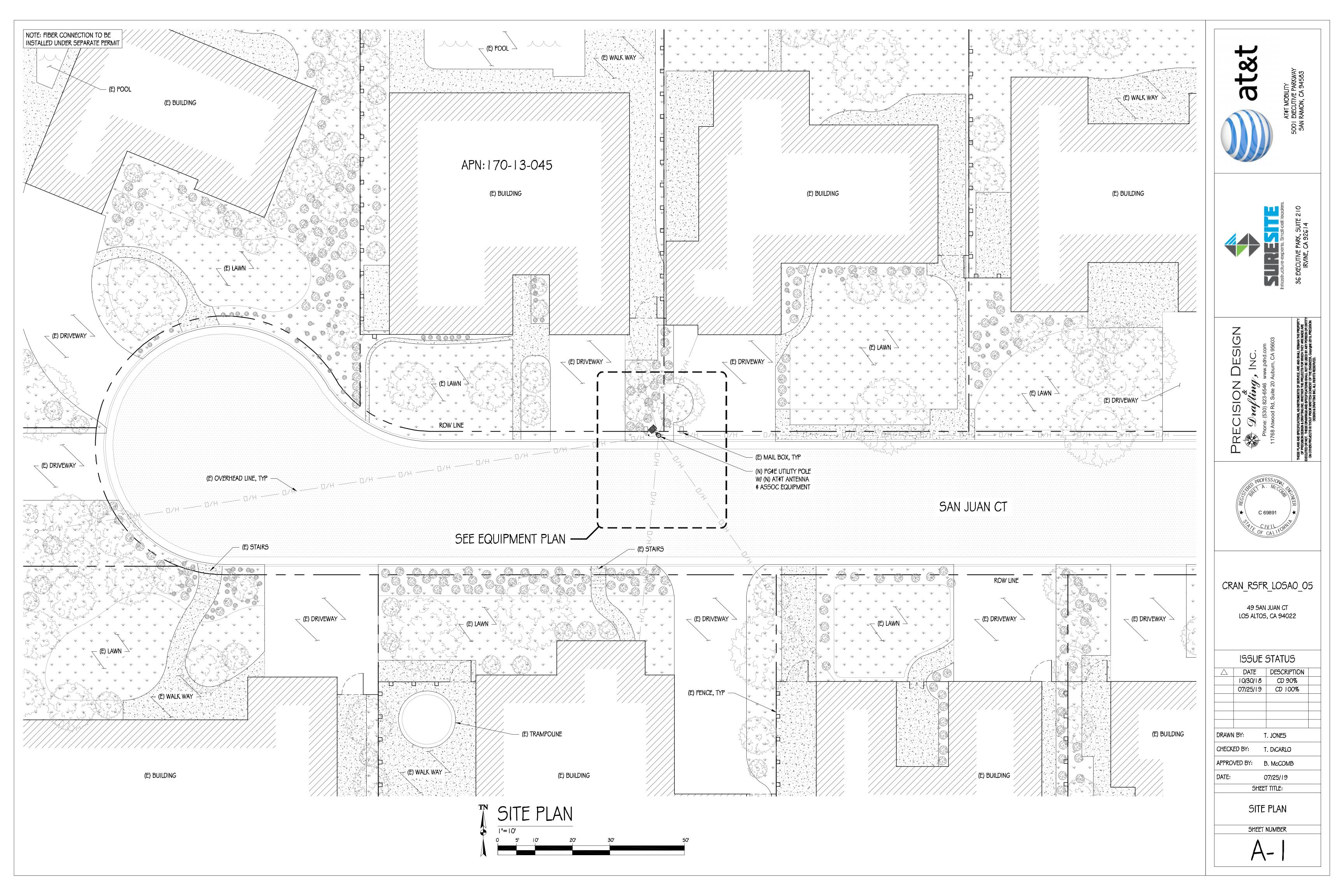
ELEVATION REFERENCE

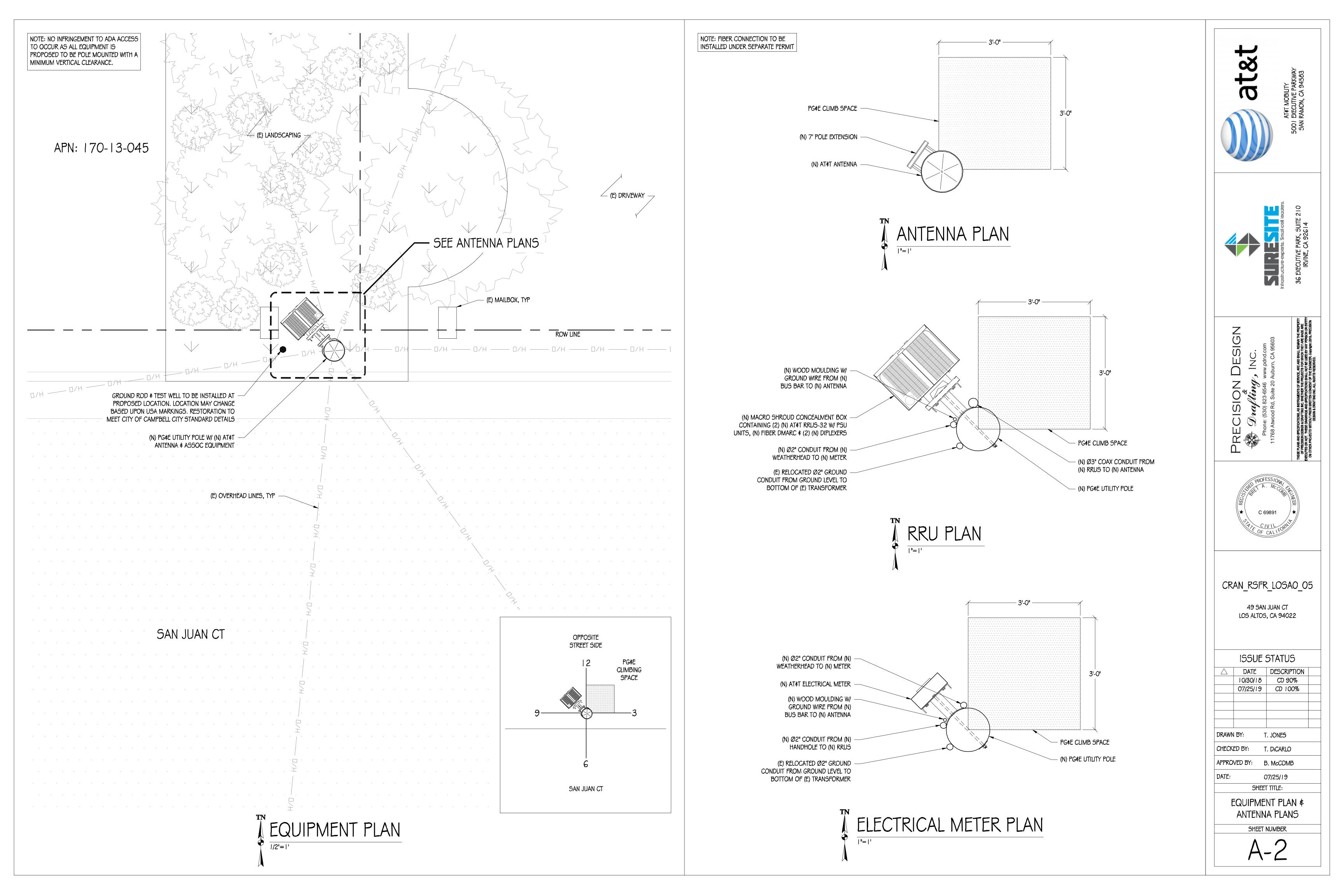
SECTION REFERENCE

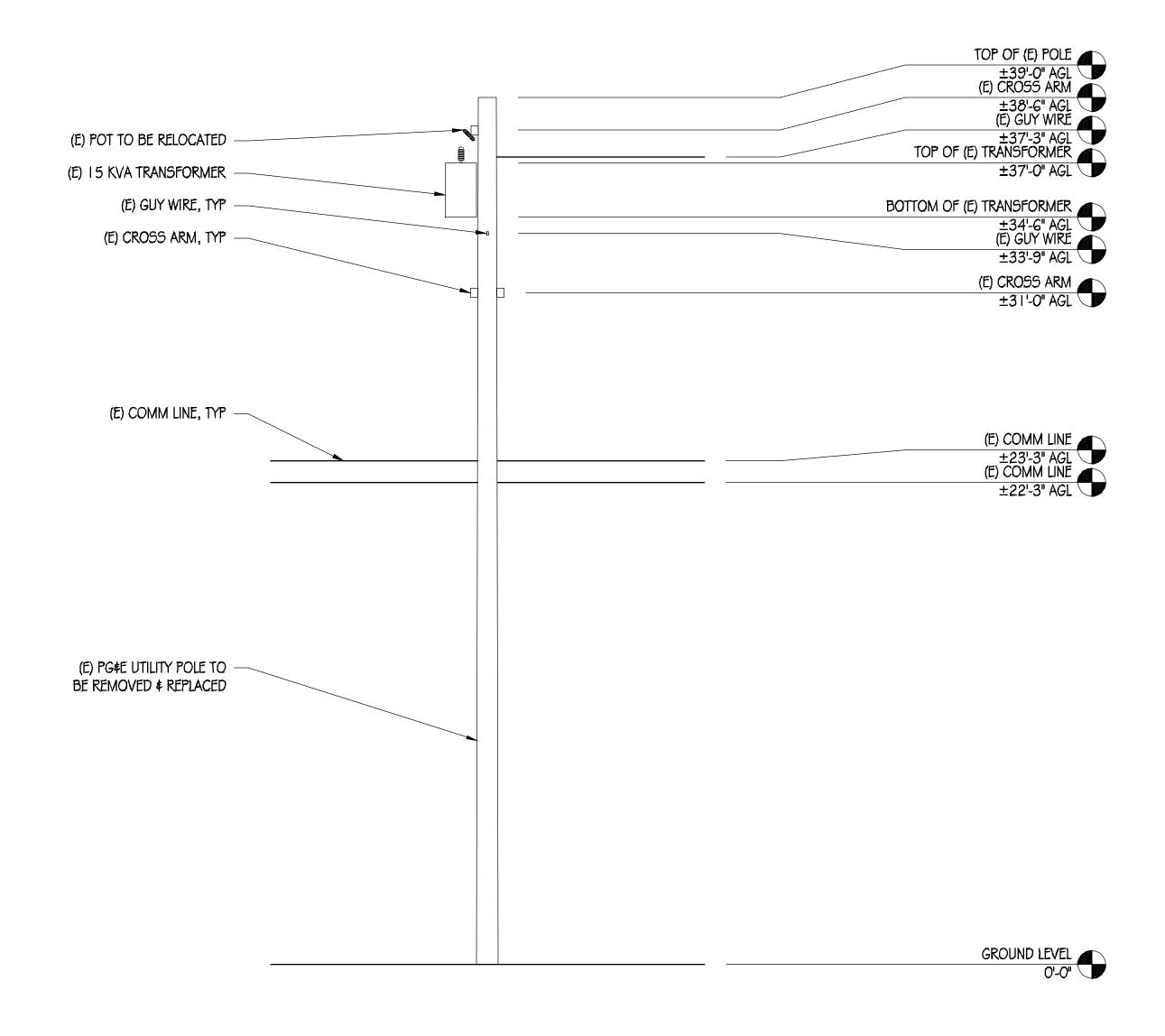
SET POINT

REVISION

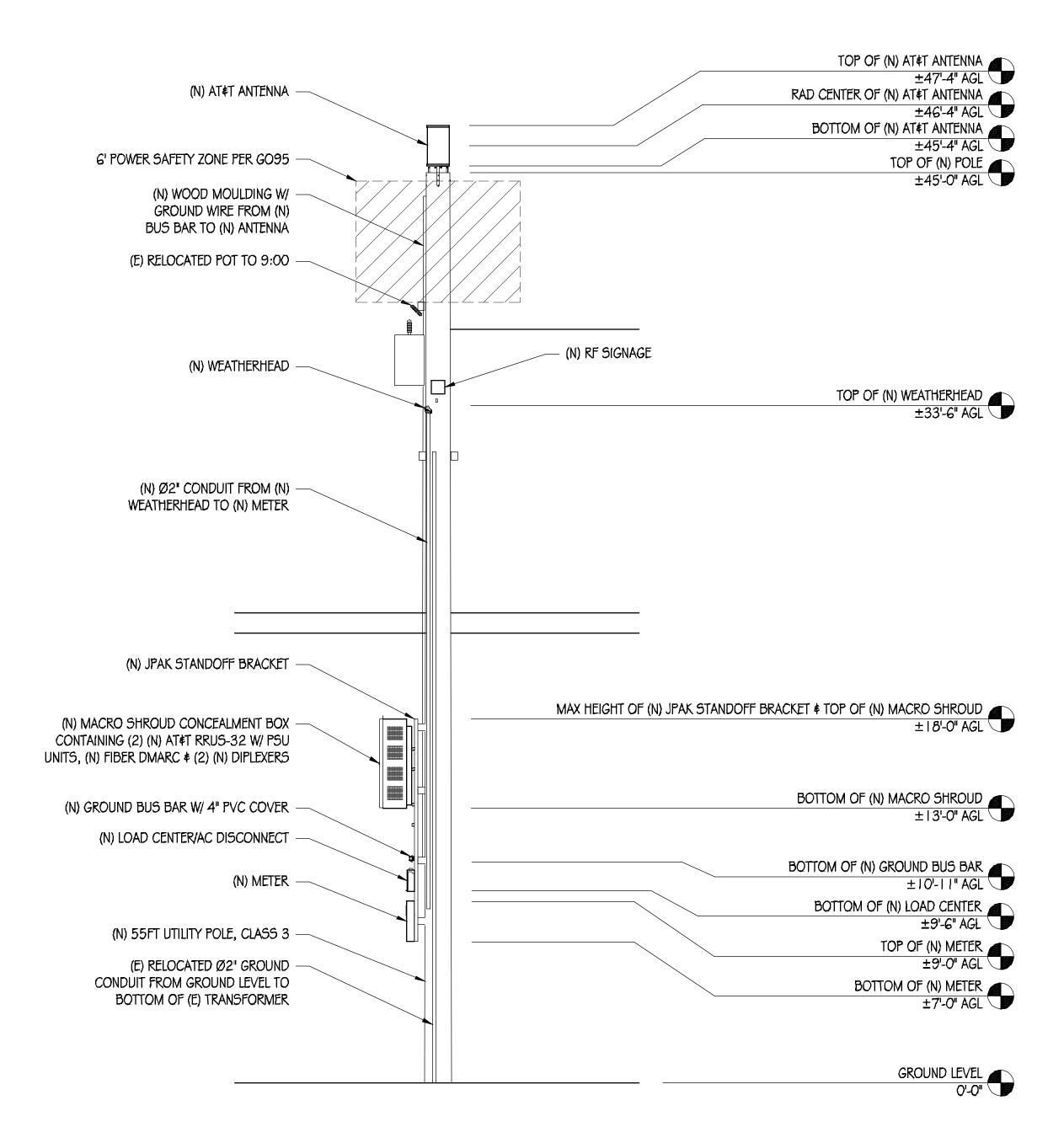
LIGHT POLE







EXISTING NORTH ELEVATION | /4"=| '-0"

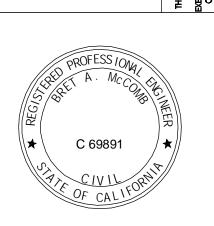


NEW NORTH ELEVATION

1/4"=1'-O"







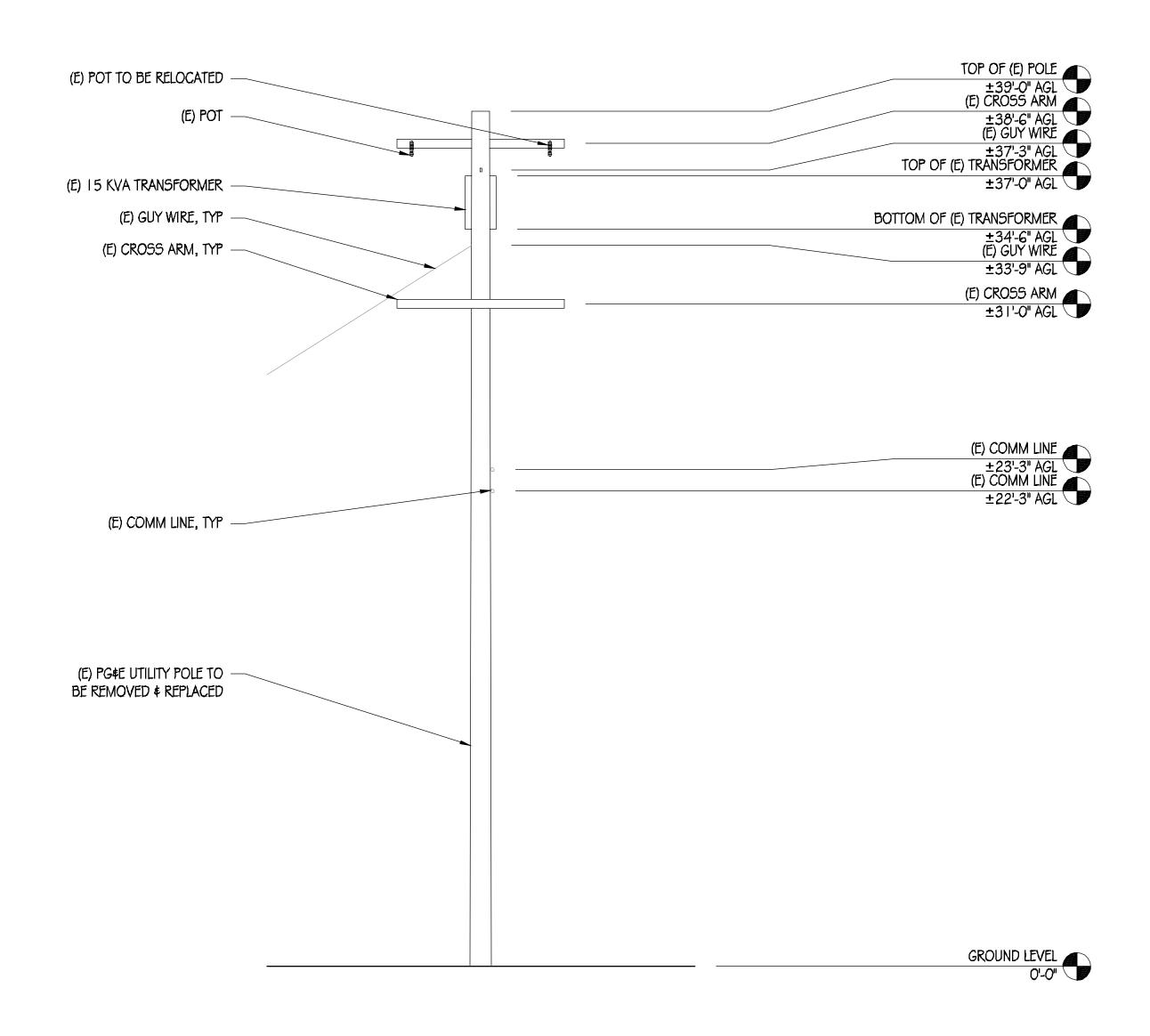
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	ISSUE	5	TATUS
$\triangle$	DATE		DESCRIPTION
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	07/25/19	)	CD 100%
DRAWN	l BY:	T.	JONES
CHECK	ED BY:	Τ.	DICARLO
APPRO	VED BY:	В.	МсСОМВ
DATE:		07	/25/19
	SHI	ET	TITLE;

SHEET NUMBER

**ELEVATIONS** 



TOP OF (N) AT\$T ANTENNA ±47'-4" AGL (N) AT&T ANTENNA RAD CENTER OF (N) AT&T ANTENNA ±46'-4" AGL 6' POWER SAFETY ZONE PER GO95 BOTTOM OF (N) AT&T ANTENNA ±45'-4" AGL TOP OF (N) POLE ±45'-0" AGL - (N) RF SIGNAGE (E) RELOCATED POT TO 9:00 (N) WEATHERHEAD TOP OF (N) WEATHERHEAD ±33'-6" AGL (N) Ø2" CONDUIT FROM (N) - (N) Ø3" COAX CONDUIT FROM WEATHERHEAD TO (N) METER (N) RRUS TO (N) ANTENNA (N) WOOD MOULDING W/ GROUND WIRE FROM (N) BUS BAR TO (N) ANTENNA - (E) RELOCATED Ø2" GROUND CONDUIT FROM GROUND LEVEL TO BOTTOM OF (N) 55FT UTILITY POLE, CLASS 3 (E) TRANSFORMER, BEYOND (N) MACRO SHROUD CONCEALMENT BOX CONTAINING (2) (N) AT&T RRU5-32 W/ PSU UNITS, (N) FIBER DMARC \$ (2) (N) DIPLEXERS MAX HEIGHT OF (N) JPAK STANDOFF BRACKET \$ TOP OF (N) MACRO SHROUD ± 18'-0" AGL (N) JPAK STANDOFF BRACKET (N) GROUND BUS BAR W/ 4" PVC COVER (N) LOAD CENTER/AC DISCONNECT BOTTOM OF (N) MACRO SHROUD ±13'-0" AGL BOTTOM OF (N) GROUND BUS BAR ± 10'-11" AGL BOTTOM OF (N) LOAD CENTER ±9'-6" AGL TOP OF (N) METER ±9'-0" AGL BOTTOM OF (N) METER ±7'-0" AGL GROUND LEVEL O'-O"

EXISTING EAST ELEVATION

| 1/4"=1'-0"

NEW EAST ELEVATION

1/4"= | '-0"





PRECISION DESIGN

and find, INC.

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11768 Atwood Rd, Suite 20 Auburn, CA 95603



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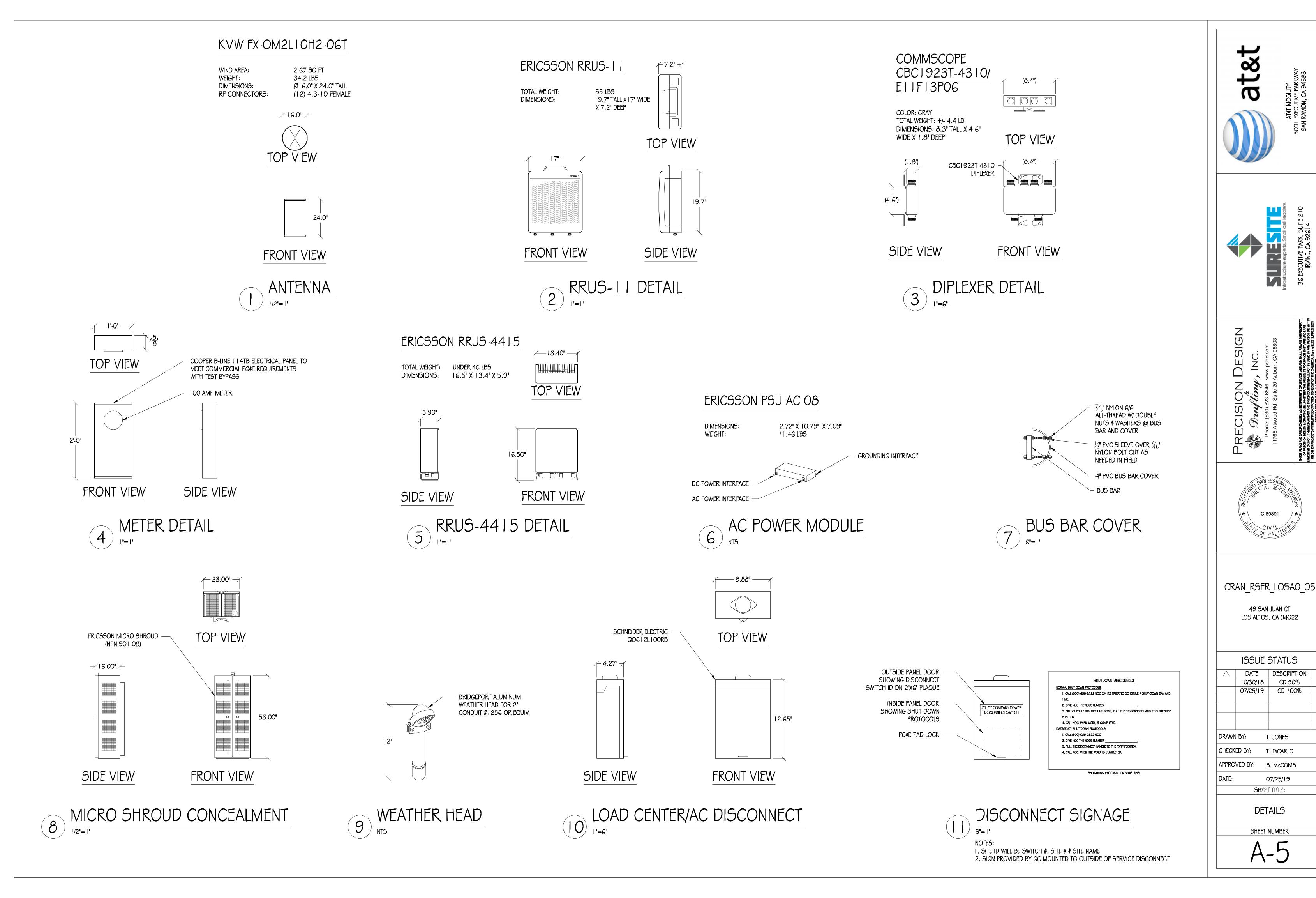
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	10/30/1	8	CD 90%	
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DRAWN	BY:	1	. JONES	
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	SH	EE	TITLE:	

**ELEVATIONS** 

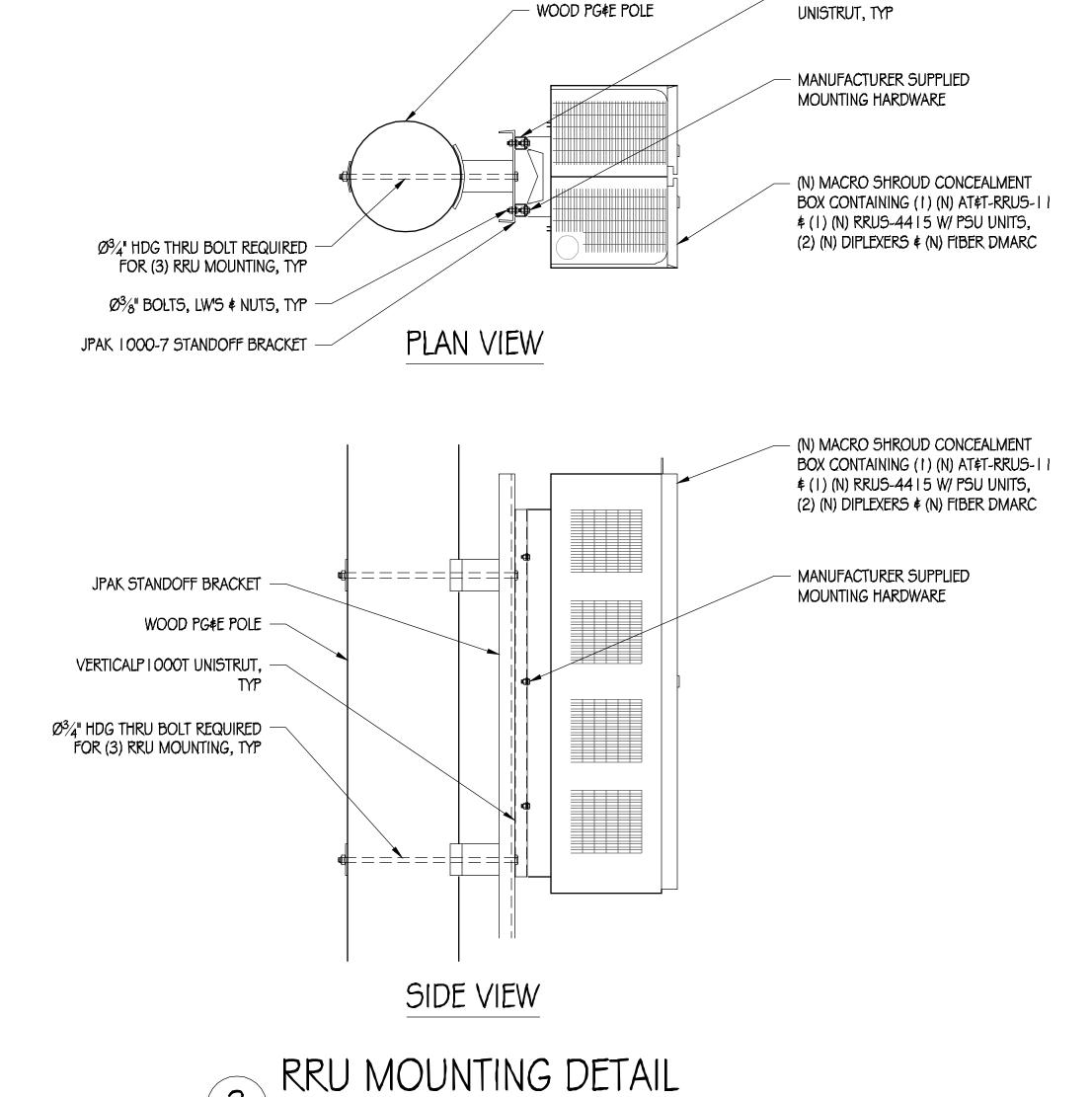
SHEET NUMBER

A-4

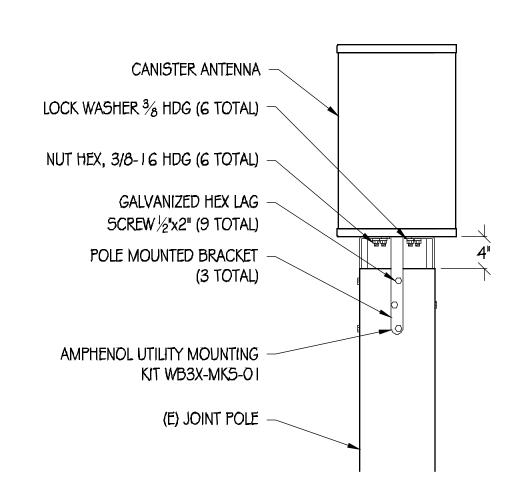


#### STRUCTURAL STEEL NOTES:

- I. 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.
- 2. ALL STRUCTURAL STEEL SHALL BE ASTM A36 UNLESS OTHERWISE NOTED. ALL WF (WIDE FLANGE)  $\sharp$  WT (TEE) SHAPES TO BE ASTM A992 ( $F_Y$ =50,000 PSI) UNLESS NOTED OTHERWISE. ALL STRUCTURAL TUBING (TS OR HSS) SHALL BE ASTM A500 GRADE B ( $F_Y$ =46,000 PSI). ALL STEEL PIPE SHALL BE ASTM A53 (TYPE E OR 5, GRADE B ( $F_Y$ =35,000 PSI)) SCHEDULE 40 WITH OUTSIDE DIAMETERS GIVEN UNLESS OTHERWISE NOTED.
- 3. ALL WELDING SHALL BE PERFORMED USING E70XX ELECTRODES AND SHALL CONFORM TO AISC & AWS DI.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.
- 4. ALL WELDING SHALL BE PERFORMED BY QUALIFIED, CERTIFIED WELDERS.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. ALL SHOP FABRICATED STEEL STRUCTURAL MEMBERS FOR EXTERIOR USE SHALL BE HDG PER ASTM A I 23 AFTER FABRICATION & PAINTED PER CUSTOMER SPECIFICATIONS AS REQUIRED. STEEL FOR INTERIOR USE SHALL BE SHOP COAT OR GALVANIZED & PAINTED PER PLAN.
- 9. 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.
- IO. AT ALL WEB STIFFENER PLATES LEAVE 3/4"Ø (OR K, WHICHEVER IS LARGER) HOLE @ WEB/FLANGE INTERSECTION UNLESS NOTED OTHERWISE.

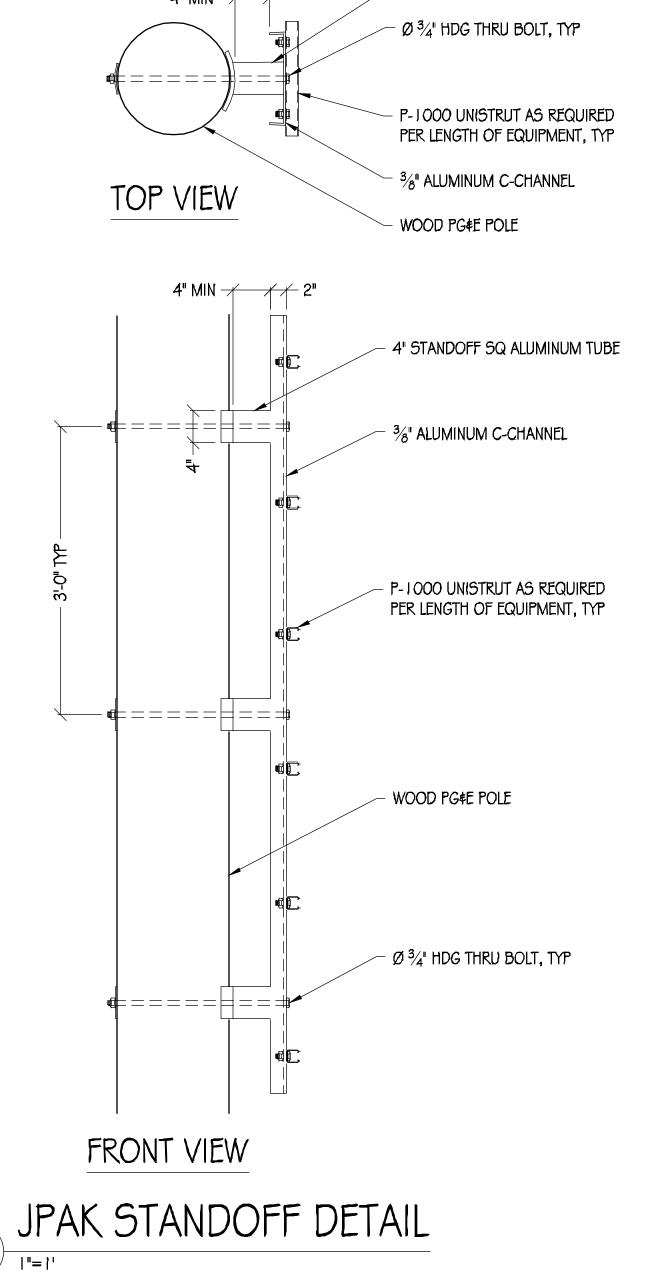


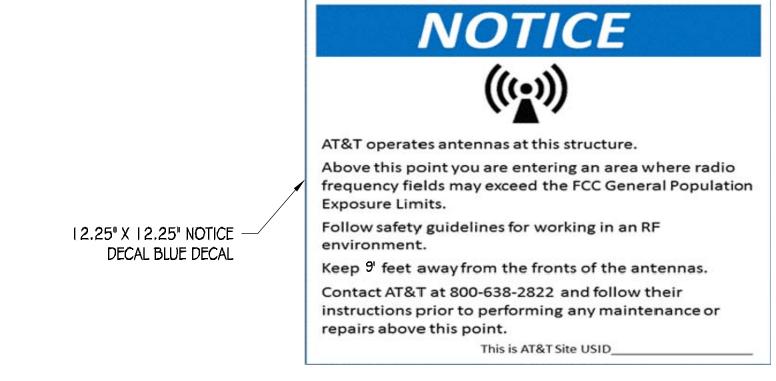
VERTICAL PIOOD T



# POLE-TOP ANTENNA MOUNT DETAIL

4" STANDOFF SQ ALUMINUM TUBE

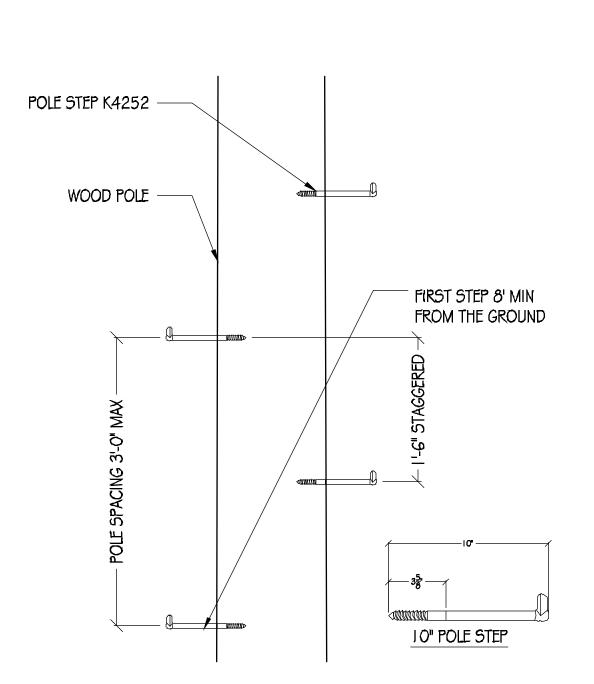


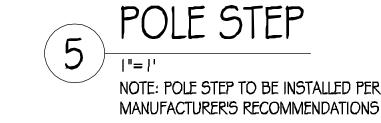




#### NOTE

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

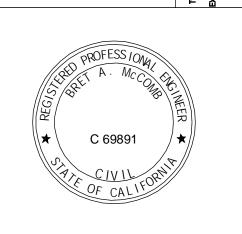








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HESERANS AND SPECIFICATIONS, AS INSTRUMENTS OF SERVICE, ARE AND SHALL REMAIN THE PROPER



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	ISSUE	STATUS				
$\triangle$	△ DATE DESCRIPTION					
	10/30/18	CD 90%				
	07/25/19	CD 100%				
DRAWN BY: T. JONES						
CHECKED BY: T. DICARLO						
APPRO	APPROVED BY: B. McCOMB					
DATE:		07/25/19				
SHEET TITLE:						
DETAILS						

SHEET NUMBER

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#### GENERAL ELECTRICAL NOTES:

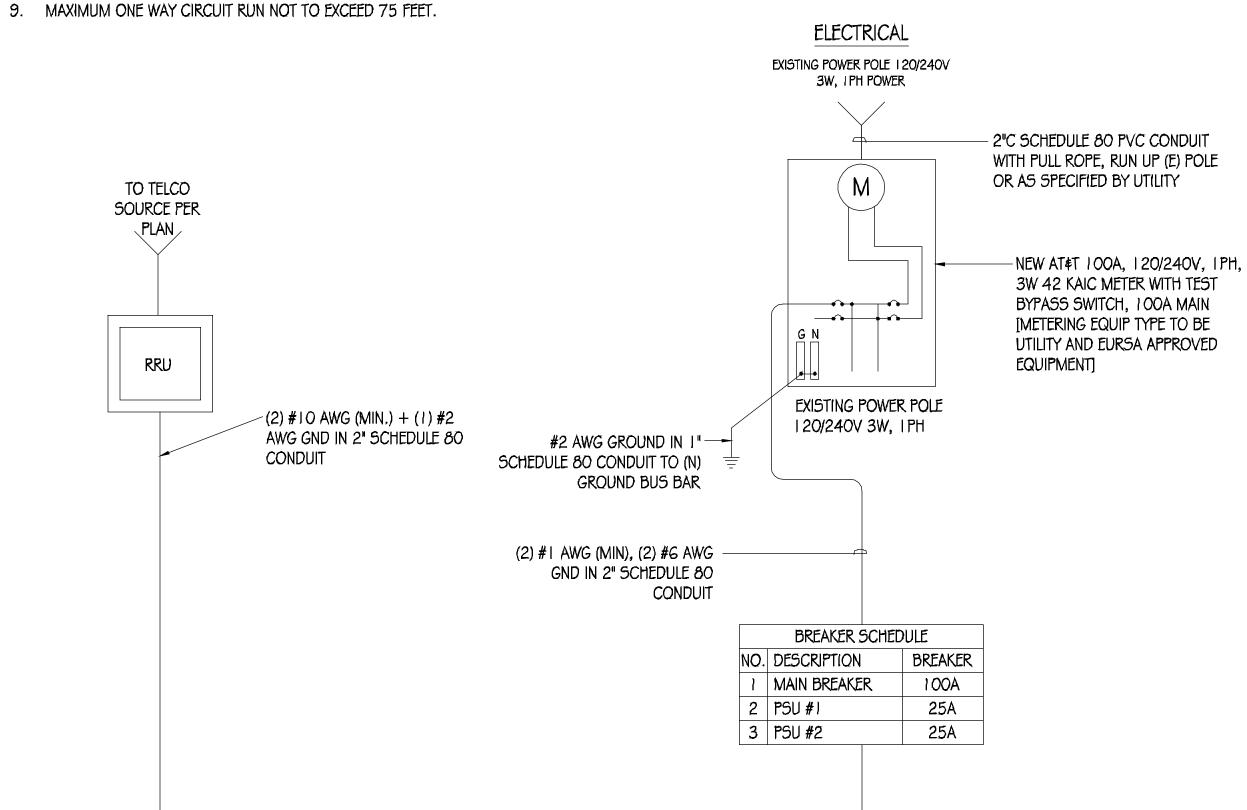
- I. PROVIDE ALL ELECTRICAL WORK & MATERIALS AS SHOWN ON THE DWGS, AS CALLED FOR HEREIN, & AS IS NECESSARY TO FURNISH A COMPLETE INSTALLATION.
- 2. THE INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE CURRENT ADOPTED CALIFORNIA ELECTRICAL CODE, STATE OF CALIFORNIA TITLE24, ALL OTHER APPLICABLE CODES 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 #G 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, SYDUAL 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.

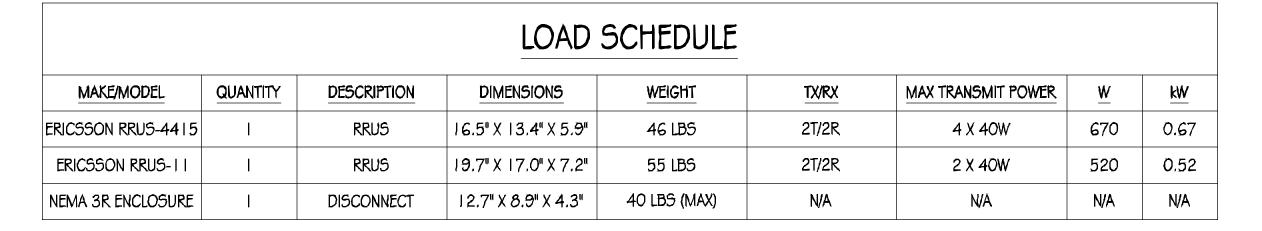
#### POWER AND TELCO NOTES:

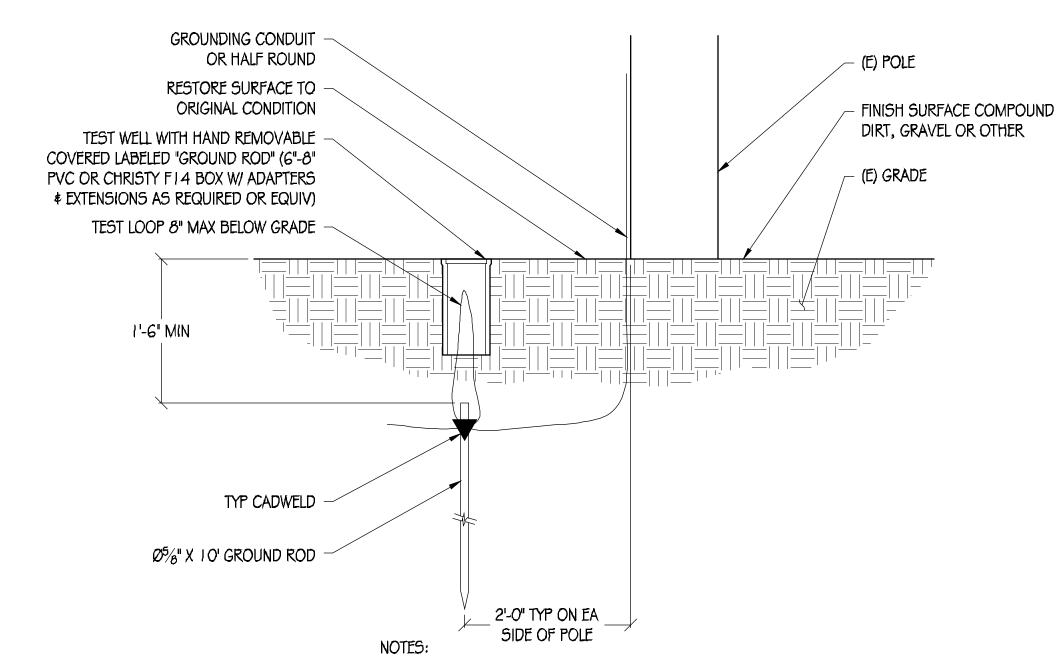
- I. POWER AND TELCO POINTS OF CONNECTION AND ANY EASEMENTS ARE PRELIMINARY AND SUBJECT TO CHANGE BY THE UTILITY COMPANIES.
- 2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK/MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY ENGINEERING PLANS AND SPECIFICATIONS ONLY WHERE APPLICABLE 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.

SINGLE-LINE DIAGRAM

- 8. FIELD ROUTE CONDUIT TO CABINETS AS REQUIRED.
- MAYIMI IM ONE WAY CIRCUIT RUN NOT TO EYCEED 75 FEET



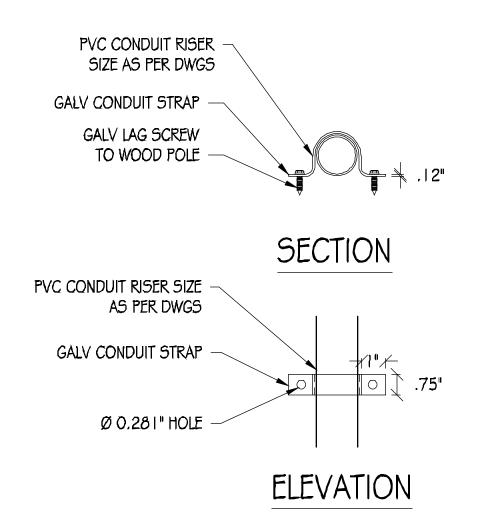




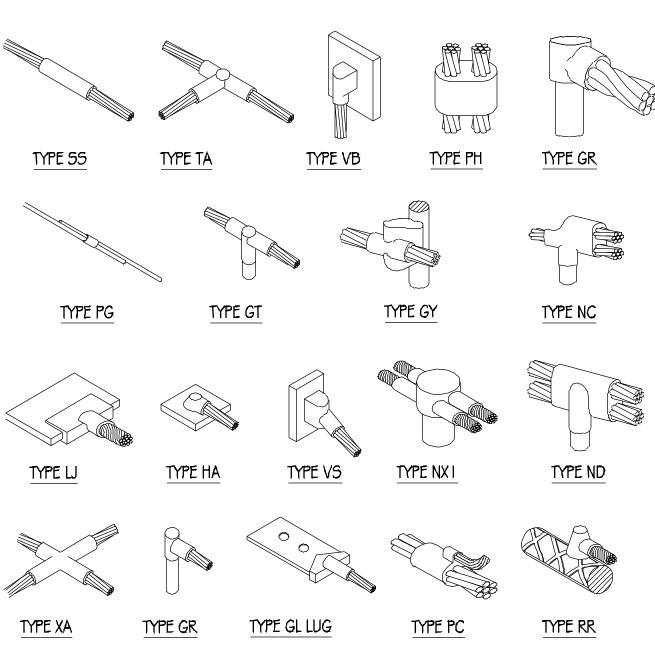
I. REMOVE & REPLACE SIDEWALK SECTION, RESTORATION TO MEET CITY STANDARD DETAILS

2. EXPOSED CONCRETE TO HAVE BROOM FINISH

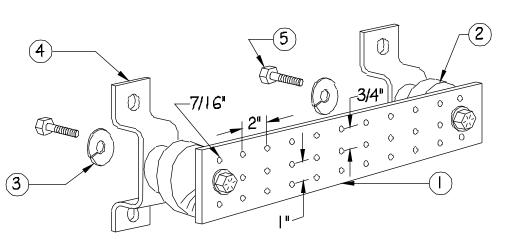
# POLE GROUNDING DETAIL NTS



2 CONDUIT RISER DETAIL



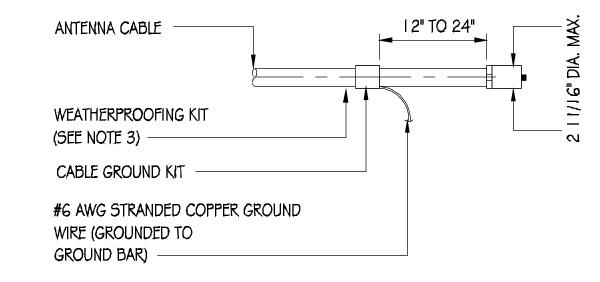
# EXOTHERMIC WELD DETAILS



#### NOTES:

- I. 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 I" 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.





#### NOTES:

- I. 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.)

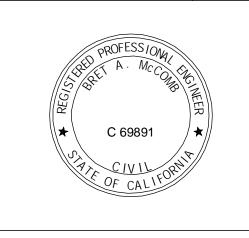






PRECISION DESIGN

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49 SAN JUAN CT LOS ALTOS, CA 94022

ISSUE STATUS

DATE DESCRIPTION

10/30/18 CD 90%

07/25/19 CD 100%

DRAWN BY: T. JONES

CHECKED BY: T. DICARLO

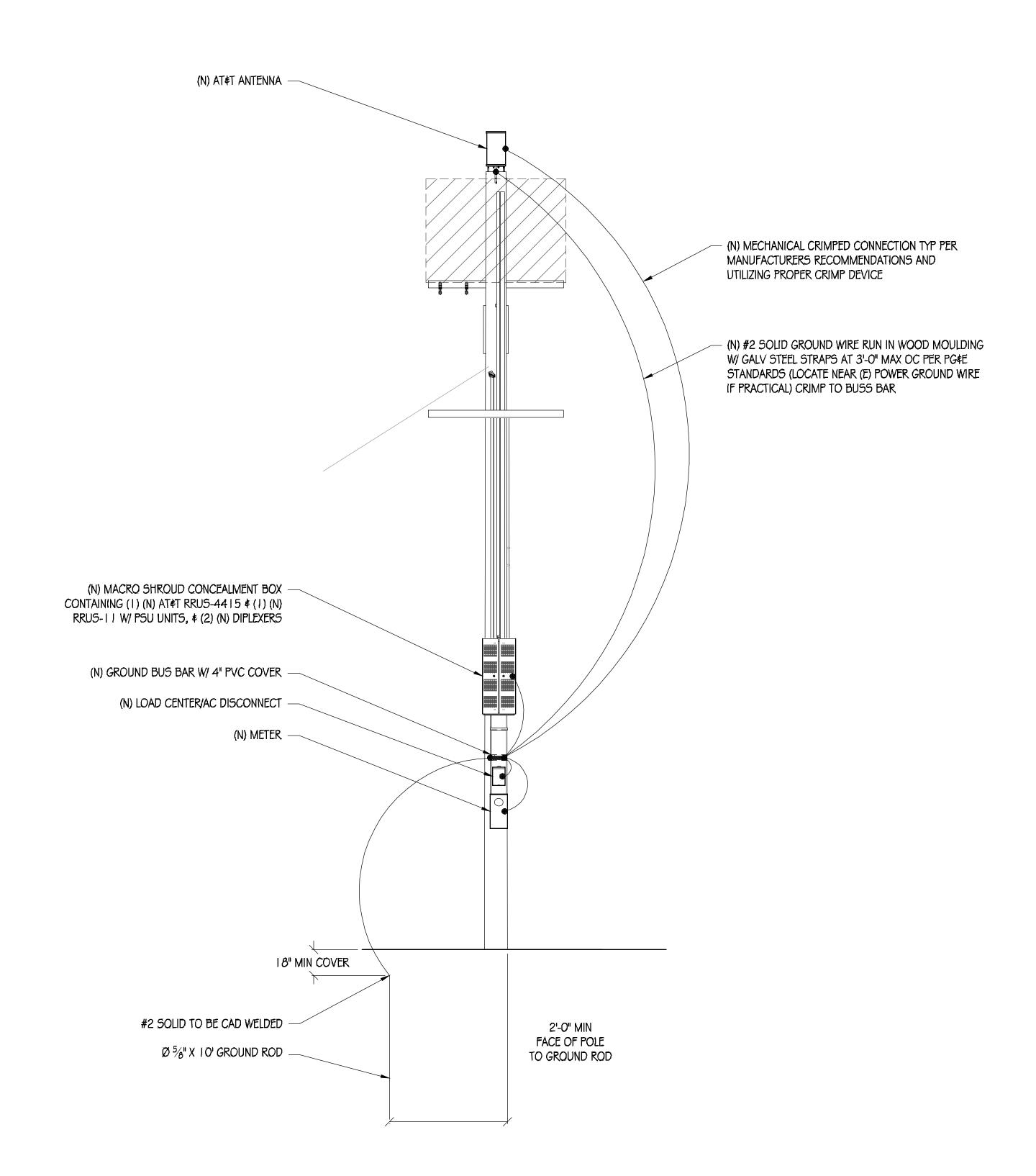
APPROVED BY: B. McCOMB

DATE: 07/25/19

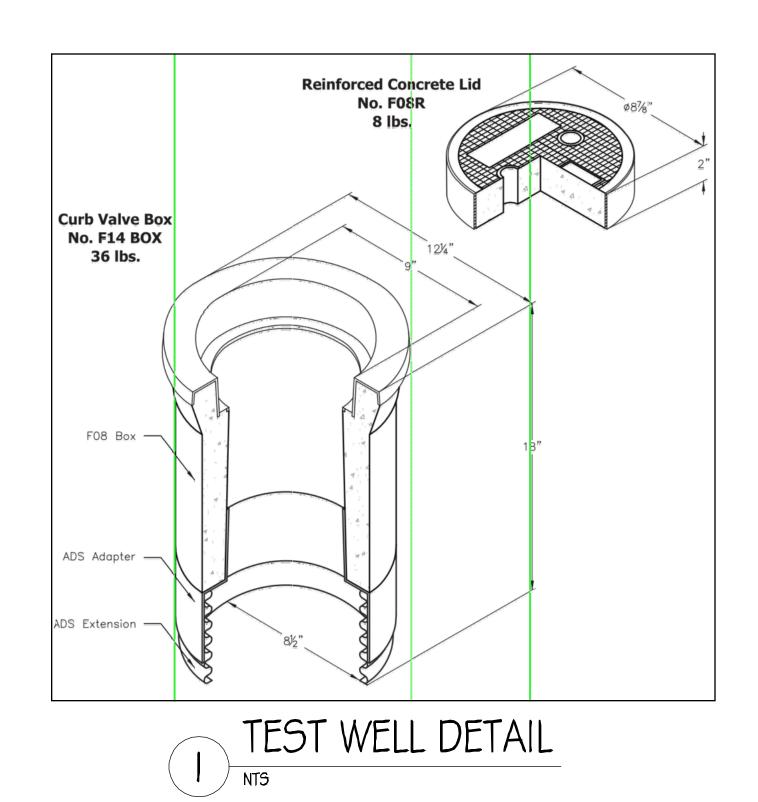
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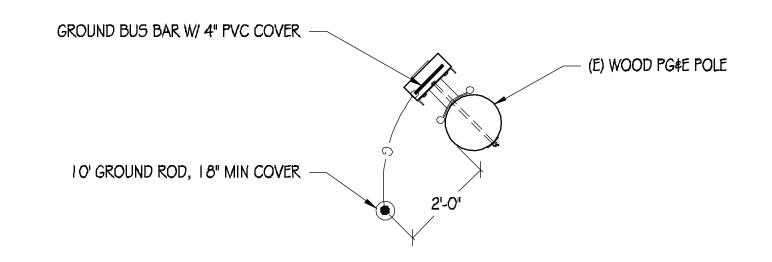
SINGLE-LINE DIAGRAM \$
DETAILS
SHEET NUMBER

E-1



POLE GROUNDING DIAGRAM

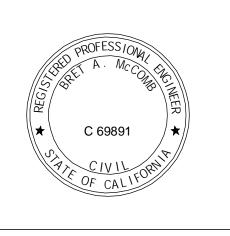












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49 5AN JUAN CT LOS ALTOS, CA 94022

ISSUE STATUS						
$\triangle$	△ DATE DESCRIPTION					
	10/30/18	CD 90%				
	07/25/19	CD 100%				
DRAWN BY: T. JONES						
CHECKED BY: T. DICARLO						
APPROVED BY:		В. МсСОМВ				
DATE:		07/25/19				
SHEET TITLE:						
27,20,10						

GROUNDING DIAGRAMS

SHEET NUMBER

E-2