

# T-Mobile®

## Stick Together®

**SITE NUMBER: SF04141A - ANCHOR**  
**SITE NAME: PALO ALTO HOLE**  
**SITE TYPE: ROOFTOP**

**CITY: PALO ALTO**  
**COUNTY: SAN MATEO**  
**JURISDICTION: CITY OF PALO ALTO**

### CONSTRUCTION DRAWING

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

#### PROJECT SUMMARY:

**APPLICANT:** T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520

**PROPERTY OWNER:** ADDRESS: 240 WALTER HAYS DR.  
PALO ALTO, CA 94303  
CONTACT: JOHN M. AND ANNE D. ACKERMAN TRUST

**SITE ADDRESS:** PHONE: ----

2666 E BAYSHORE RD  
PALO ALTO, CA 94303

#### PROJECT DESCRIPTION:

- REMOVE (3) EXISTING TRX RADIOS AT ANTENNA EQUIPMENT RACK (1 PER SECTOR)
- REMOVE (12) EXISTING RUS01 RADIOS AT EQUIPMENT
- REMOVE (1) EXISTING DEAD 2106 EQUIPMENT CABINET
- INSTALL (3) NEW AIR6449 B41 (ACTIVE ANTENNA - MASSIVE MIMO) ANTENNAS (1 PER SECTOR)
- INSTALL NEW ANTENNA MOUNTING POLE WITH RF SHROUD AND (2) KICKBACK ROOF ATTACHMENTS
- INSTALL (3) NEW 4424 B25 RADIOS ON EXISTING ANTENNA EQUIPMENT RACK (1 PER SECTOR)
- INSTALL (3) NEW 4415 B66A RADIOS ON EXISTING ANTENNA EQUIPMENT RACK (1 PER SECTOR)
- INSTALL NEW B160 BATTERY CABINET
- INSTALL NEW E6160 EQUIPMENT CABINET WITH NEW BASEBAND SUBMODULES WITHIN:
  - (1) BB6630, (1) BB648, (1) IXRE, (1) PSU4813
- INSTALL NEW HYBRID CABLING SYSTEM
- INSTALL (6) NEW COMMSCOPE SDX1926T-43 DIPLEXERS (2 PER SECTOR)

APN 008-03-076  
ZONING: ROLM (E)(D)(AD)  
CONSTRUCTION TYPE: V  
STORIES: 2  
OCCUPANCY: U / R-2  
SPRINKLED: NO  
LATITUDE: 37° 26' 42.07" N (37.445019°)  
LONGITUDE: 122° 07' 04.99" W (-122.118053°)  
GROUND ELEVATION: ± 9' AMSL

#### CONSULTING TEAM:

**PROJECT MANAGER:** SURESITE CONSULTING GROUP, LLC  
3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122  
CONTACT: MICHELLE PARAMO  
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**PROJECT A&E:** SURESITE CONSULTING GROUP, LLC  
3659 GREEN ROAD, SUITE 214  
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CONTACT: ZACHARY NESGODA  
EMAIL: z.nesgoda@sure-site.com

**SITE ACQUISITION:** SURESITE CONSULTING GROUP, LLC  
3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122  
CONTACT: TRICIA ALEXANDER  
EMAIL: T.ALEXANDER@SURE-SITE.COM

**T-MOBILE RF ENGINEER:** T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520  
CONTACT: TBD  
PHONE: TBD  
EMAIL: TBD

**T-MOBILE PROJECT MANAGER** T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520  
CONTACT: STEVEN BRETON  
PHONE: (925) 202-7083  
EMAIL: Steven.Breton@T-Mobile.com

**T-MOBILE CONSTRUCTION MANAGER:** T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520  
CONTACT: AARON AKBARI  
PHONE:  
EMAIL: Aaron.Akbari@sprint.com

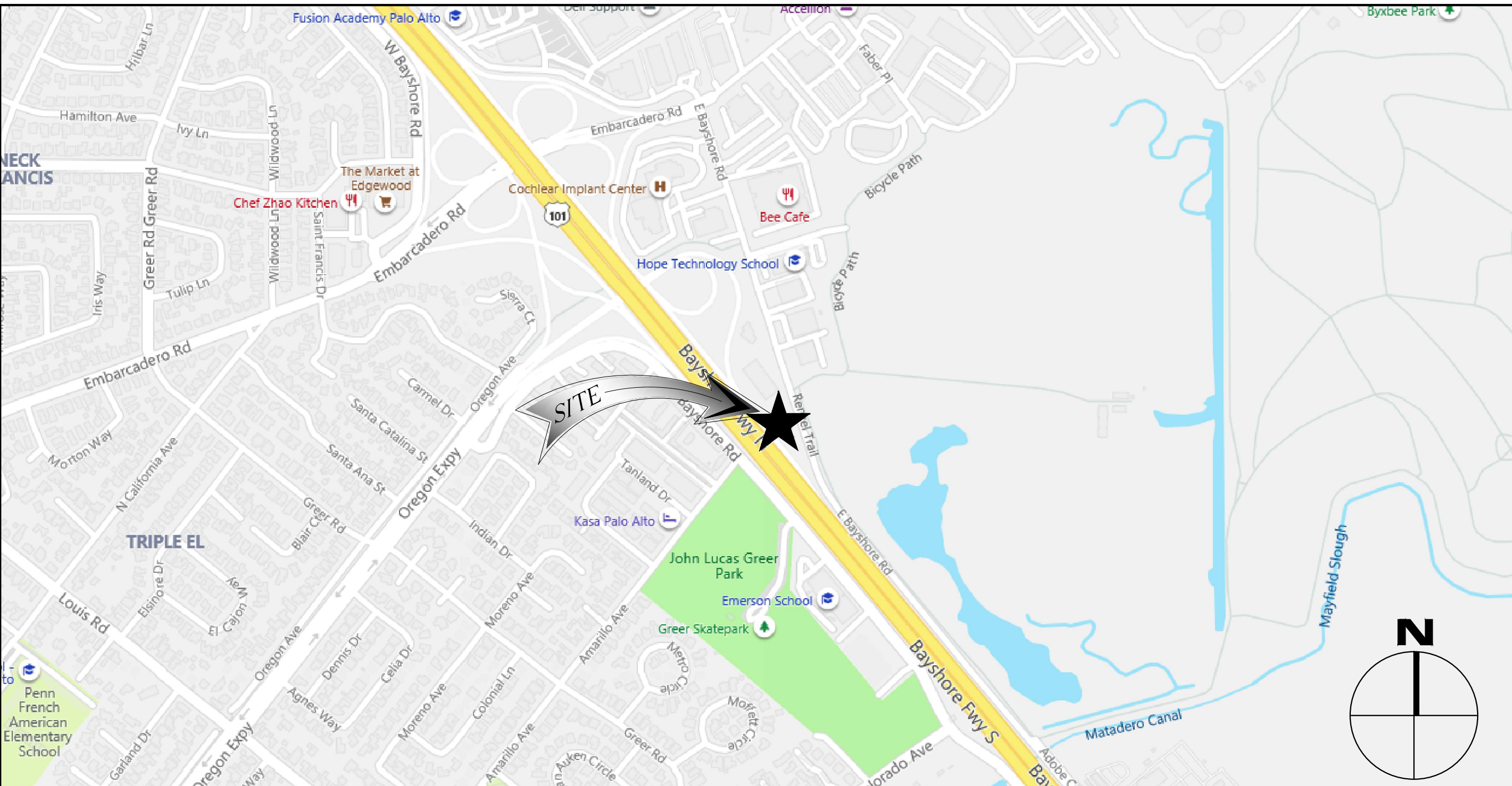
#### SHEET INDEX:

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#### APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	_____	_____	_____
ZONING REP.	_____	_____	_____
DEVELOP. MGR	_____	_____	_____
CONST. MGR	_____	_____	_____
PROJECT MGR	_____	_____	_____
ZONING MGR.	_____	_____	_____
RF ENGINEER	_____	_____	_____
OPERATIONS	_____	_____	_____
SAC REP.	_____	_____	_____



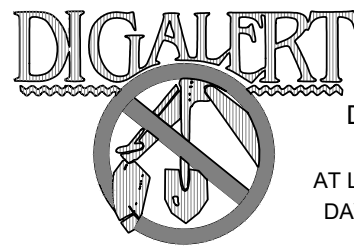
#### DIRECTIONS FROM CONCORD T-MOBILE OFFICE:

HEAD EAST ON GATEWAY BLVD TOWARD CLAYTON RD.  
TURN RIGHT ONTO CLAYTON RD.  
TAKE RAMP FOR CA-242 S.  
TAKE RAMP FOR I-680 S.  
AT EXIT 12 TAKE RAMP RIGHT FOR MISSION BLVD W.  
TAKE RAMP LEFT FOR I-880 S.  
TAKE RAMP LEFT FOR CA-237 W.  
AT EXIT 3A TAKE RAMP RIGHT FOR US-101 N.  
AT EXIT 402 TAKE RAMP RIGHT FOR EMBARCADERO RD E.  
TURN LEFT ONTO E BAYSHORE RD.  
DESTINATION WILL BE ON THE RIGHT.

#### APPLICABLE CODES

1. 2019 CALIFORNIA ADMINISTRATIVE CODE.
2. 2019 CALIFORNIA BUILDING CODE (CBC).
3. 2019 CALIFORNIA ELECTRICAL CODE (CEC).
4. 2019 CALIFORNIA ENERGY CODE.
5. 2019 CALIFORNIA MECHANICAL CODE (CMC).
6. 2019 CALIFORNIA PLUMBING CODE (CPC).
7. ANSI/TIA-222-G LIFE SAFETY CODE NFPA-101
8. LOCAL BUILDING CODE.
9. 2019 CALIFORNIA FIRE CODE, (CFC)
10. 2019 CALIFORNIA GREEN BUILDING CODE

ANSI/TIA-222-G OR LATEST EDITION CURRENT LOCAL CODES AND AMENDMENTS IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.



USA NORTH UNDERGROUND SERVICE ALERT SERVING CALIFORNIA AND NEVADA

DIAL TOLL FREE  
811  
AT LEAST TWO WORKING  
DAYS BEFORE YOU DIG

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

#### PROPRIETARY INFORMATION

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

**T-Mobile®**  
T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122

DRAWN BY: SC

CHECKED BY: CH

#### REVISIONS

NO.	DATE	DESCRIPTION	INITIAL
A	10/16/20	ISSUED FOR 90% CD REVIEW	SC
0	11/12/20	100% CD	SC
1	01/04/21	RADOME UPDATE	JAF
2	01/07/21	CITY COMMENTS	RGL
3	09/29/21	CITY COMMENTS	RGL

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PALO ALTO HOLE

SF04141A

2666 E BAYSHORE RD  
PALO ALTO, CA 94303



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

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1







FRAMING

1. ALL LUMBER SHALL BE GRADE MARKED DOUGLAS FIR-LARCH AND SHALL HAVE THE FOLLOWING MINIMUM GRADES:
- |                           |    |
|---------------------------|----|
| JOISTS AND RAFTERS        | #1 |
| BEAMS AND STRINGERS       | #1 |
| PLATES                    | #2 |
| STUDS (2X4, 3X4, 2X6)     | #1 |
| POSTS, COLUMNS AND TIMBER | #1 |
2. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE-TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS. WHERE POSSIBLE, ALL CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH 2 COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWPA STD. M4).
3. CUTTING OR NOTCHING OF WOOD STUDS OR PLATES SHALL NOT EXCEED 25% OF THE STUD/PLATE WIDTH AT EXTERIOR OR BEARING WALLS AND SHALL NOT EXCEED 40% OF THE STUD/PLATE WIDTH IN NONBEARING PARTITIONS. BORED HOLE DIAMETERS ARE LIMITED TO 40% OF THE STUD WIDTH IN ANY STUD AND MAY BE 60% IN NONBEARING PARTITIONS OR WHEN THE BORED STUD IS DOUBLED.
4. DO NOT NOTCH JOISTS, RAFTERS, OR BEAMS EXCEPT WHERE SHOWN ON THE DETAILS. BORED HOLES THROUGH JOISTS SHALL NOT EXCEED 1/3 OF MEMBER DEPTH AND BE LOCATED AT LEAST 2" FROM THE TOP AND BOTTOM OF THE MEMBER.
5. ALL BLOCKING AND BRIDGING SHALL BE PROVIDED AS REQUIRED PER GOVERNING CODE OR STANDARD OF PRACTICE.
6. ALL JOIST, RAFTER & MISC. FRAMING SHALL HAVE FULL-DEPTH (OR METAL) BRIDGING AT ALL SUPPORTS, MIDSPAN AND AT A MAXIMUM SPACING OF 8'-0" O/C IN BETWEEN UNLESS NOTED OTHERWISE.
7. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS THAT ARE PARALLEL TO JOISTS. USE 2-16D NAILS AT 16" O.C. TO NAIL DOUBLE JOISTS TOGETHER.
8. THE CONTRACTOR SHALL CAREFULLY SELECT LUMBER TO BE USED IN LOADBEARING APPLICATIONS. THE LENGTH OF SPLIT ON THE WIDE FACE OF 2" NOMINAL LOADBEARING FRAMING SHALL BE LIMITED TO LESS THAN 1/2 OF THE WIDE FACE DIMENSION. THE LENGTH OF SPLIT ON THE WIDE FACE OF 3" (NOMINAL) AND THICKER LUMBER SHALL BE LIMITED TO 1/2 OF THE NARROW FACE DIMENSION.
9. BOLT HOLES SHALL BE CAREFULLY CENTERED AND DRILLED NOT MORE THAN 1/16" LARGER THAN THE BOLT DIAMETER. PROVIDE WASHERS BETWEEN BOLT HEADS OR NUTS AND WOOD. BOLTED CONNECTIONS SHALL BE SNUGGED TIGHT BUT NOT TO THE EXTENT OF CRUSHING WOOD UNDER WASHERS.
10. ALL BOLTS SHALL BE RE-TIGHTENED PRIOR TO APPLICATION OF PLASTER, PLYWOOD, ETC. AND BEFORE CLOSING IN COMPLETION OF THE JOB.
11. PREFABRICATED METAL JOIST HANGERS, HURRICANE CLIPS, HOLD-DOWN ANCHORS AND OTHER ACCESSORIES SHALL BE AS MANUFACTURED BY "SIMPSON STRONG-TIE COMPANY" OR APPROVED EQUAL. INSTALL ALL ACCESSORIES PER THE MANUFACTURER'S REQUIREMENTS. ALL STEEL SHALL HAVE A MINIMUM THICKNESS OF 0.04 INCHES (PER ASTM A446, GRADE A) AND BE GALVANIZED (COATING G60).
12. STRUCTURAL STEEL PLATE CONNECTORS SHALL CONFORM TO ASTM A-36 SPECIFICATIONS AND BE 1/4" THICK UNLESS OTHERWISE INDICATED.
13. ALL PLATES, ANCHORS, NAILS, BOLTS, NUTS, WASHERS, AND OTHER MISCELLANEOUS HARDWARE THAT ARE EXPOSED OR IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIP GALVANIZED.
14. BOLTS IN WOOD SHALL BE A MINIMUM OF 7 BOLT DIAMETERS FROM THE ENDS AND 4 BOLT DIAMETERS FROM THE EDGES.
15. ALL SILL BOLTS SHALL BE PLACED STARTING 9" FROM THE ENDS OF A BOARD OR FROM A NOTCH AND SPACED AT INTERVALS AS NOTED ON THE PLANS.
16. ALL SILL PLATE ANCHOR BOLTS AND HOLD-DOWN CONNECTOR BOLTS AT ALL PLYWOOD SHEAR PANELS SHALL HAVE THE FOLLOWING PLATE WASHERS.
- |           |                               |
|-----------|-------------------------------|
| BOLT SIZE | PLATE WASHER SIZE (ASTM A-36) |
| 5/8"      | 0.229" X 3" X 3"              |
| 3/4"      | 5/16" X 3" X 3"               |
| 7/8"      | 5/16" X 3" X 3"               |
| 1"        | 3/8" X 3-1/2" X 3-1/2"        |
17. TOP PLATES FOR ALL STUD WALLS SHALL BE 2-2X. MINIMUM TOP PLATE LAP SHALL BE 48" WITH 16d NAILS AT 4" O.C. EACH SIDE OF SPLICE U.N.O. SPLICES IN UPPER AND LOWER PLATES SHALL BE STAGGERED 10" MINIMUM.
18. ALL WOOD STUD WALLS SHALL HAVE 2X4 STUDS AT 16" O.C. WHEN HEIGHT BETWEEN LATERAL SUPPORTS IS LESS THAN 10'-0". WHEN HEIGHT BETWEEN LATERAL SUPPORTS MORE THAN 10'-0", USE 2X6 STUDS AT 16" O.C. WITH FULL DEPTH BLOCKING AT NOT MORE THAN 8' VERTICAL INTERVAL.
19. ALL NAILS SHALL BE COMMON WIRE NAILS U.N.O. SEE FRAMING PLANS OR DETAILS FOR NAIL SIZES AND SPACING. NAILS THAT ARE NOT DETAILED OR NOTED SHALL BE IN ACCORDANCE WITH IBC TABLE 2304.9.1. FASTENING SCHEDULE. HOLES FOR NAILS SHALL BE PREDRILLED AT A SMALLER DIAMETER THAN THE NAIL WHERE NECESSARY TO PREVENT SPLITTING.
20. LAG BOLTS SHALL HAVE LEAD HOLES BORED AS FOLLOWS:
- |                  |                                   |
|------------------|-----------------------------------|
| SHANK PORTION    | SAME DIAMETER AND LENGTH AS SHANK |
| THREADED PORTION | 0.6-0.75 OF DIAMETER OF THREAD    |

FIRE RESISTANCE REQUIREMENTS

1. CONTRACTOR TO PROVIDE FLAME STOP I-DS (OR OTHER APPROVED METHOD OF FIRE PREVENTION) TO TOWER, BRANCHES, AND/OR OTHER COMBUSTIBLE MATERIALS AS OUTLINED IN SECTIONS 602 & 603 OF 2016 CBC.

MASONRY

1. ALL MASONRY SHALL HAVE MINIMUM COMPRESSIVE STRENGTH fm OF 1,500 PSI.
2. MASONRY UNITS SHALL BE NORMAL WEIGHT BLOCK CONFORMING TO ASTM C90, GRADE N, TYPE 1, AND SHALL HAVE A MINIMUM NET AREA COMPRESSIVE STRENGTH OF 1900 PSI. CONCRETE MASONRY UNITS MUST BE TESTED IN ACCORDANCE WITH ASTM C140.
3. MORTAR SHALL BE MACHINE MIXED CONFORMING TO ASTM C270, TYPE S. MORTAR SHALL BE FRESHLY PREPARED AND UNIFORMLY MIXED AND SHALL BE PROPORTIONED PER BUILDING CODE TABLE 2103.8(1) AND 2103.8(2).
4. GROUT SHALL CONFORM TO ASTM C476 AND BE PROPORTIONED PER BUILDING CODE TABLE 2103.12. MINIMUM GROUT COMPRESSIVE STRENGTH SHALL EQUAL OR EXCEED THE GREATER OF 2,000 PSI OR THE REQUIRED fm.
5. REINFG BARS SHALL CONFORM TO ASTM A706 OR ASTM A615, GRADE 60 U.N.O.
6. CONTINUOUS WIRE REINFORCING (JOINT REINFORCING) SHALL BE GALVANIZED TRUSS OR LADDER TYPE FORMED FROM 9 GAUGE COLD-DRAWN STEEL WIRE COMPLYING WITH ASTM A82.
7. ALL MASONRY BLOCKS SHALL CONFORM WITH EACH OTHER IN COLOR, TEXTURE AND SIZE WHERE APPLICABLE. BLOCK SIZE, COLOR, TYPE AND TEXTURE SHALL BE AS INDICATED ON THE DRAWINGS. PROVIDE ACCESSORY BLOCKS AS INDICATED AND REQUIRED. WHERE CUTTING IS REQUIRED, BLOCKS SHALL BE SAWCUT.
8. COURSING SHALL BE COMMON RUNNING BOND (UNLESS NOTED OTHERWISE), WITH 3/8" GROUT JOINT. JOINTS SHALL BE TOOLED CONCAVE AND BE UNIFORM IN SIZE. USE CARE TO PREVENT MORTAR AND GROUT SPILLAGE ON THE FACE OF THE MASONRY. CLEAN SUCH SPILLAGE IMMEDIATELY. REPAIR ANY DAMAGE OR INTERSTICES BETWEEN BLOCKS AND REMOVE STAINS AT THE COMPLETION OF WORK.
9. THE INTERSECTING WALLS BY OVERLAPPING UNITS IN ALTERNATE COURSES. ROUGHEN AND CLEAN CONCRETE BEARING SURFACES FOR THE PLACEMENT OF THE FIRST COURSE. VERTICAL HEAD JOINTS SHALL BE FILLED SOLID AND SHOVED TIGHTLY TO PROVIDE BOND TO BOTH BLOCKS.
10. AT VERTICAL REINFORCING LOCATIONS, PROVIDE DOWELS FROM FOOTING TO MATCH SIZE AND SPACING OF VERTICAL WALL REINFORCING. DOWELS SHALL BE EMBEDDED INTO THE FOOTING A MINIMUM OF 9" AND SHALL HAVE A 90 DEGREE HOOK. DEEPEN FOOTING WHERE REQUIRED FOR DOWEL. WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL BLOCK CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN 6 VERTICAL.
11. SPLICED BARS (INCLUDING DOWELS) SHALL BE LAPPED 48 BAR DIAMETERS MINIMUM OR 24", WHICHEVER IS GREATER. SPLICED BARS SHALL BE WIRE-TIED.
12. VERTICAL REINFORCING BARS SHALL HAVE A MINIMUM CLEARANCE OF 3/4" FROM THE MASONRY AND NOT LESS THAN ONE DIAMETER BETWEEN BARS.
13. BOND BEAMS WITH A HORIZONTAL BAR OR BARS SHALL BE PROVIDED AT 48 INCHES ON CENTER AND AT ALL FLOOR AND ROOF LINES AND AT THE TOP OF THE WALL. PROVIDE A BOND BEAM WITH A HORIZONTAL BAR OR BARS OVER ALL OPENINGS, AND EXTEND THESE BARS 2'-0" PAST THE OPENING AT EACH SIDE. PROVIDE A BAR OR BARS VERTICALLY FOR THE FULL HEIGHT OF THE WALL AT EACH SIDE OF OPENINGS, WALL ENDS AND INTERSECTIONS. PROVIDE CORNER BARS TO MATCH THE HORIZONTAL WALL REINFORCING AT WALL INTERSECTIONS.
14. REINFORCING STEEL SHALL BE SECURED IN PLACE BEFORE GROUTING BEGINS. VERTICAL BARS SHALL BE HELD IN POSITION AT THE TOP, BOTTOM AND AT INTERVALS NOT EXCEEDING 200 DIAMETERS OF THE REINFORCING BAR, NOR 10 FEET.
15. SEE DRAWINGS FOR LOCATION OF VERTICAL CONTROL JOINTS. HORIZONTAL BOND BEAM AND LINTEL REINFORCING SHALL BE CONTINUOUS ACROSS VERTICAL CONTROL JOINTS.
16. ALL CELLS SHALL BE GROUTED SOLID. GROUTING OF MASONRY BEAMS AND LINTELS SHALL BE DONE IN ONE CONTINUOUS OPERATION. GROUTING SHALL BE STOPPED 1-1/2" BELOW THE TOP OF A COURSE SO AS TO FORM A KEY AT THE POUR JOINT. FILL CELLS WITH GROUT WITH MAXIMUM 4'-0" LIFTS. VERTICAL CELLS SHALL HAVE A VERTICAL ALIGNMENT TO MAINTAIN A CONTINUOUS UNOBSTRUCTED CELL AREA NOT LESS THAN 3"X4".
17. ALL ISOLATED BOLTS EMBEDDED IN MASONRY SHALL BE GROUTED SOLIDLY IN PLACE WITH NOT LESS THAN 2" OF GROUT SURROUNDING THE BOLT.
18. PROVIDE BOND BEAM LINTELS AND BRICK SHELF ANGLES ABOVE ALL WALL OPENINGS PER DETAILS. SEE THE ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL OPENINGS.
19. THE MASONRY CONTRACTOR SHALL PROVIDE ALL REQUIRED TEMPORARY WALL BRACING DURING CONSTRUCTION
20. ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL, FULL HEIGHT OF WALL. PROVIDE CONTROL JOINTS IN RETAINING WALLS AT APPROXIMATELY EQUAL INTERVALS NOT TO EXCEED 25 FEET NOR 3 TIMES THE WALL HEIGHT. PROVIDE EXPANSION JOINTS AT EVERY FOURTH CONTROL JOINT, UNLESS OTHERWISE INDICATED. SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF HENRY'S 502 ASPHALTIC MASTIC. PROVIDE CONTINUOUS INSPECTION.

FOUNDATIONS - GENERAL

1. BOTTOM OF EXTERIOR FOOTINGS SHALL BEAR A MINIMUM OF 18" BELOW FINAL GRADE AND BEAR ON FIRM NATIVE OR PROPERLY COMPACTED SOILS.
2. FOOTINGS MAY BE POURED INTO AN EARTH-FORMED TRENCH IF SOIL CONDITIONS PERMIT.
3. ALL BEARING MATERIAL SHALL BE INSPECTED BY THE INDEPENDENT TESTING AGENCY PRIOR TO CONCRETE PLACEMENT. THE INDEPENDENT TESTING AGENCY SHALL BE THE SOLE JUDGE AS TO THE SUITABILITY OF THE BEARING MATERIAL. FOOTING ELEVATIONS SHALL BE ADJUSTED AS REQUIRED.
4. FOUNDATION CONCRETE SHALL HAVE REACHED A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI BEFORE BEING LOADED. STRENGTHS SHALL BE VERIFIED BY TEST.
5. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL THE SLABS AT TOP AND BOTTOM ARE IN PLACE AND CURED AS REQUIRED.
6. WHERE WALLS ARE TO HAVE EARTH PLACED ON EACH SIDE, SIMULTANEOUSLY PLACE FILL SO AS TO MAINTAIN A COMMON ELEVATION ON EACH SIDE OF WALL.
7. CONTRACTOR SHALL PROVIDE ALL SHORING AS REQUIRED.
8. ALL RETAINING WALLS SHALL HAVE AT LEAST 12" OF FREE-DRAINING GRANULAR BACKFILL FULL HEIGHT OF WALL. SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF HENRY'S 502 ASPHALTIC MASTIC. PROVIDE CONTINUOUS INSPECTION.
9. CONTRACTOR SHALL PROVIDE TEMPORARY AND PERMANENT DEWATERING FOR SURFACE WATER, GROUND WATER AND SEEPAGE WATER AS REQUIRED.
10. CONTRACTOR SHALL PROTECT ALL UTILITY LINES, ETC ENCOUNTERED DURING EXCAVATIONS AND BACKFILLING. ALL BACKFILL SHALL BE PROPERLY COMPACTED.
11. ALL FOOTINGS HAVE BEEN DESIGNED BASED UPON AN ASSUMED SOIL BEARING PRESSURE OF 1,000 PSF UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST REVISED EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION, WHICH INCLUDES SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, CODE OF STANDARD PRACTICE AND AWS STRUCTURAL WELDING CODE. IDENTIFY AND MARK STEEL PER CBC 2203.
2. STRUCTURAL STEEL SHOP DRAWINGS SHALL BE REVIEWED BY THE ENGINEER/ ARCHITECT PRIOR TO FABRICATION.
3. GROUTING OF COLUMN BASE PLATES: BASE PLATES SHALL BE DRYPACKED OR GROUTED WITH NON-SHRINK, NON-FERROUS GROUT. MINIMUM COMPRESSIVE STRENGTH SHALL BE 4,000 PSI AT 28 DAYS. ALL SURFACES SHALL BE PROPERLY CLEANED OF FOREIGN MATERIAL PRIOR TO GROUTING.
4. ALL EXPOSED WELDS SHALL BE FILLED AND GROUND SMOOTH WHERE METAL COULD COME IN CONTACT WITH THE PUBLIC.
5. NO HOLES OTHER THAN THOSE SPECIFICALLY DETAILED SHALL BE ALLOWED THRU STRUCTURAL STEEL MEMBERS. BOLT HOLES SHALL CONFORM TO AISC SPECIFICATION, AND SHALL BE STANDARD HOLES UNLESS OTHERWISE NOTED. NO CUTTING OR BURNING OF STRUCTURAL STEEL WILL BE PERMITTED WITHOUT PRIOR CONSENT OF THIS ENGINEER. HOLES IN STEEL SHALL BE DRILLED OR PUNCHED. ALL SLOTTED HOLES SHALL BE PROVIDED WITH SMOOTH EDGES. BURNING OF HOLES AND TORCH CUTTING AT THE SITE IS NOT PERMITTED.
6. WELDING: CONFORM TO AWS D1.1. WELDERS SHALL BE CERTIFIED
7. BOLTING: ASTM A307 BOLTS SHALL BE INSTALLED "SNUG TIGHT" PER AISC SECTION RCSC 8(C), ASTM A325 BOLTS SHALL CONFORM TO RCSC SECTION 8 (D).
8. FABRICATION: CONFORM TO AISC SPECIFICATION SEC M2 "FABRICATION" AND AISC CODE SEC 6 "FABRICATION AND DELIVERY" PERFORM WORK ON PREMISES OF A FABRICATOR APPROVED BY THE BUILDING OFFICIAL.
9. GALVANIZING: ALL EXPOSED STEEL OUTSIDE THE BUILDING ENVELOPE SHALL BE HOT-DIPPED GALVANIZED. APPLY FIELD TOUCH-UPS PER ASTM A153.
10. ALL FRAMING CONNECTORS SUCH AS CONCRETE ANCHORS, HOLD-DOWNS, POST BASES, FRAMING CAPS, HANGER AND OTHER MISCELLANEOUS STRUCTURAL METALS SHALL BE AS MANUFACTURED BY SIMPSON STRONG TIE CO. OR APPROVED EQUAL.
11. ALL STRUCTURAL STEEL EXPOSED TO EARTH SHALL HAVE 3" CONCRETE COVER.
12. MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:

ANCHOR BOLTS/ RODS:	ASTM F1554, GRADE 36
BARS & PLATES:	ASTM A36
BOLTS IN WOOD:	ASTM A307
BOLTS - HIGH STRENGTH:	ASTM A325SSC OR A325N
C, M-, AND ANGLE SHAPES:	ASTM A36
DEFORMED WELDED WIRE FABRIC:	ASTM A497
GROUT:	EMBECCO OR EQUIVALENT
OTHER STRUCTURAL SHAPES:	ASTM A36
REINFORCING BARS (WELDED):	ASTM A706, GRADE 60, DEFORMED BARS
REINFORCING BARS (REGULAR):	ASTM A615, GRADE 60, DEFORMED BARS
SMOOTH WELDED WIRE FABRIC:	ASTM A185
STEEL GRATING:	ANSI/NAAMM MBG 531-00
STEEL PIPE:	ASTM A53, GRADE B
TIE WIRE:	16.5 GAGE OR HEAVIER, BLACK ANNEALED
TUBE STEEL & PIPE COLUMNS:	ASTM A500, GRADE B
W - SHAPES:	ASTM A992, GRADE 50
WELDING ELECTRODES:	E70XX FOR STRUCTURAL STEEL E80XX FOR REINFORCING BARS E60XX FOR LIGHT GAUGE AND METAL DECK

EPOXY AND EXPANSION ANCHORS

1. EPOXY OR EXPANSION ANCHORS SHALL NOT BE USED EXCEPT WHERE SPECIFICALLY SHOWN ON THE PLANS OR WHEN APPROVED IN ADVANCE BY THE STRUCTURAL ENGINEER.
2. DRILLED HOLES SHALL BE PREPARED AND ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND THE CURRENT ICC REPORT.
3. SPECIAL INSPECTION SHALL BE DONE IN ACCORDANCE WITH BUILDING CODE AND THE SPECIFIC INSPECTION REQUIREMENTS SET FORTH IN THE CURRENT ICC REPORT.
4. ANCHOR RODS USED FOR EPOXY ANCHORS SHALL BE THE TYPE SPECIFIED IN THE REFERENCED ICC REPORT.
5. THE ANCHOR SIZE AND EMBEDMENT SHALL BE AS INDICATED ON THE PLANS.
6. WHERE PERMITTED, EPOXY ANCHORING SHALL BE COMPLETED WITH THE FOLLOWING ALLOWED PRODUCT(S):
- |                                                                     |  |
|---------------------------------------------------------------------|--|
| HILTI RE-500 SD (ICC# ESR-2322, LARR-25700) - CONCRETE ONLY         |  |
| HILTI HIT-KWIK 150 (ICC# ER-5193, LARR-25652M) - MASONRY WALL ONLY. |  |
| HILTI HIT-HY 20 (ICC# ER-4815, LARR-24564) - BRICK WALL ONLY.       |  |
| SIMPSON SET-XP (ICC# ESR-1722, LAR#-25744) CONCRETE ONLY            |  |
7. WHERE PERMITTED, THE FOLLOWING EXPANSION ANCHORS MAY BE USED:
- |                                                                                 |  |
|---------------------------------------------------------------------------------|--|
| HILTI KWIK BOLT TZ STAINLESS STEEL (ICC# ESR-1917, LARR-25701) - CONCRETE ONLY. |  |
| SIMPSON STRONG-BOLT (ICC# ESR-1771, LARR-25705) - CONCRETE ONLY.                |  |
| HILTI KWIK BOLT 3 (ICC#ESR-1385, LARR-25577)GROUTFILLED MASONRY ONLY            |  |
| SIMPSON WEDGE-ALL (ICC# ESR-1396, LARR-24682) - GROUT FILLED MASONRY ONLY.      |  |

SEISMIC GAS SHUT-OFF VALVE

1. WHEN THE LOCAL JURISDICTION REQUIRES, THE CONTRACTOR SHALL SUPPLY A "GAS SHUTOFF DEVICE" DOWNSTREAM OF GAS UTILITY METER(S) OR LIQUID PETROLEUM GAS STORAGE TANK(S) AT NO ADDITIONAL CHARGE TO THE OWNER.
2. "GAS SHUTOFF DEVICE" MAY CONSIST OF A "SEISMIC GAS SHUTOFF DEVICE "OR AN "EXCESS FLOW GAS SHUTOFF DEVICE". CONSULT WITH LOCAL JURISDICTION FOR THEIR REQUIREMENTS.
3. GAS SHUTOFF DEVICES SHALL BE CERTIFIED BY THE STATE ARCHITECT AND BE LISTED BY AN APPROVED LISTING AND TESTING AGENCY SUCH AS IAS, IAMPO, UL OR THE OFFICE OR THE STATE ARCHITECT. THE GAS SHUTOFF DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND HAVE A THIRTY (30) YEAR WARRANTY WHICH WARRANTS THAT THE VALVE OR DEVICE IS FREE FROM DEFECT AND WILL CONTINUE TO PROPERLY OPERATE FOR THIRTY (30) YEARS FROM THE DATE OF INSTALLATION.
4. IN THE CASE OF SEISMIC GAS-SHUT-OFF DEVICES (MOTION SENSITIVE) ONLY, SUCH DEVICES MUST BE MOUNTED RIGIDLY TO THE EXTERIOR OF THE BUILDING OR STRUCTURE CONTAINING THE FUEL GAS PIPING. THIS REQUIREMENT NEED NOT APPLY IF THE BUILDING AND SAFETY DIVISION DETERMINES THAT THE SEISMIC GAS SHUTOFF DEVICE (MOTION SENSITIVE) HAS BEEN TESTED AND LISTED FOR AN ALTERNATE METHOD OF INSTALLATION.

REINFORCING STEEL

1. ALL REINFORCING SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60 OR ASTM A706, GRADE 60. ALL WELDED REINFORCING BARS SHALL CONFORM TO ASTM A706.
2. REINFORCING STEEL SPLICE/DEVELOPMENT LENGTHS SHALL CONFORM TO THE FOLLOWING MINIMUM LENGTHS UNLESS NOTED OTHERWISE: SPLICED BARS SHALL BE WIRED TOGETHER.
- | SPLICE/DEVELOPMENT LENGTH (INCHES) |         |           |
|------------------------------------|---------|-----------|
| BAR SIZE                           | TOP BAR | OTHER BAR |
| #3                                 | 28      | 22        |
| #4                                 | 37      | 29        |
| #5                                 | 47      | 36        |
| #6                                 | 56      | 43        |
| #7                                 | 81      | 63        |
| #8                                 | 93      | 72        |
| #9                                 | 105     | 81        |
| #10                                | 116     | 89        |
- TOP BAR LENGTHS APPLY TO HORIZONTAL REINFORCEMENT PLACED WITH MORE THAN 12" OF FRESH CONCRETE CAST BELOW THE SPLICE OR DEVELOP LENGTH. COMPRESSION DOWEL EMBEDMENT: 22 BAR DIAMETERS. LAP WELDED WIRE FABRIC ONE SPACING OF CROSS WIRES PLUS 2".
3. MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE:
- |                                                 |       |
|-------------------------------------------------|-------|
| UNFORMED SURFACE IN CONTACT WITH THE GROUND:    | 3"    |
| FORMED SURFACES EXPOSED TO EARTH OR WEATHER     |       |
| #6 BARS AND LARGER:                             | 2"    |
| #5 BARS AND SMALLER:                            | 1.5"  |
| FORMED SURFACES NOT EXPOSED TO EARTH OR WEATHER |       |
| BEAMS, GIRDERS AND COLUMNS:                     | 1.5"  |
| SLABS, WALLS AND JOISTS                         |       |
| #11 BARS AND SMALLER:                           | 0.75" |
4. BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
5. ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO INSPECTIONS, PLACING CONCRETE, OR GROUTING MASONRY.
6. WELDING: BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301 SEC 3.2, 2.2, AND AWS D1.4 "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.
7. FIELD BENDING: CONFORM TO ACI 301 SEC 3.3.2.8 "FIELD BENDING OR STRAIGHTENING". BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME. OTHER BARS REQUIRE PREHEATING. DO NOT TWIST BARS
8. SPLICE ALL BARS IN MASONRY WITH A MINIMUM OF 48 BAR DIAMETER LAPS (2'-0" MINIMUM).
9. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DETAILS.

CONCRETE

1. MIX DESIGN REQUIREMENTS: (UNLESS NOTED OTHERWISE)
- A. CEMENT SHALL CONFORM TO ASTM C-150, TYPE V.
- B. COMPRESSIVE STRENGTH = 3,000 PSI
- C. CONCRETE SLUMP SHALL BE 3"+/-1" FOR SLABS AND 4"+/-1" FOR ALL OTHER WORK.
- D. WATER CEMENT RATIO = 0.45 MAX
2. AGGREGATES FOR NORMAL WEIGHT CONCRETE SHALL CONFORM TO ASTM C-33 (1" MAXIMUM SIZE), AND ASTM C-330 FOR STRUCTURAL LIGHT WEIGHT CONCRETE.
3. WHERE CONCRETE WILL BE IN CONTACT WITH NATIVE OR IMPORTED SOIL WHICH HAS A VERY SEVERE SULFATE CONTENT, POZZOLAN SHALL BE ADDED AS REQUIRED.
4. EXTERIOR CONCRETE EXPOSED TO FREEZING TEMPERATURES AND/OR SALT OR DEICING CHEMICALS SHALL HAVE AIR ENTRAINMENT AND THE CEMENT CONTENT APPROPRIATE FOR THE EXPECTED EXPOSURE.
5. WATER SHALL BE POTABLE OR CLEAN, FREE FROM DELETERIOUS AMOUNTS OF ACIDS, ALKALIS OR ORGANIC MATERIALS, OILS, AND SALTS.
6. READY-MIX CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH ASTM C-94.
7. FLOOR SLABS SHALL CONFORM TO ASTM C-38 STANDARDS AND SHALL BE AT LEAST 3 1/2 INCHES THICK- SEE FOUNDATION PLANS FOR REINFORCEMENT, BASE, UNDERLAYMENT, VAPOR BARRIER OR OTHER SPECIFIC REQUIREMENTS.
8. FLOOR SLABS SHALL BE LEVEL OR TRUE SLOPES AS SHOWN ON DRAWINGS. TOLERANCE: 1/8 INCH IN 10 FEET.
9. PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.
10. PRIOR TO COMMENCING ANY FOUNDATION WORK, COORDINATE WORK WITH ANY EXISTING UTILITIES. FOUNDATIONS SHALL BE LOWERED WHERE REQUIRED TO AVOID UTILITIES.
11. ALL EDGES OF PERMANENTLY EXPOSED CONCRETE SURFACES SHALL BE CHAMFERED 3/4" UNLESS NOTED OTHERWISE.
12. FORMWORK SHALL REMAIN IN PLACE UNTIL CONCRETE HAS OBTAINED AT LEAST 90% OF COMPRESSIVE STRENGTH. THE CONTRACTOR SHALL PROVIDE ALL SHORING AND RESHORING.
13. PROVIDE CONCRETE SLABS OVER A 10 MIL POLYETHYLENE VAPOR BARRIER OVER 4" OF POROUS FILL UNLESS NOTED OTHERWISE.
14. ALL POROUS FILL MATERIAL SHALL BE A CLEAN GRANULAR MATERIAL. POROUS FILL SHALL BE COMPACTED TO 90% MAX. DRY DENSITY .
15. WALKWAYS AND OTHER EXTERIOR SLABS ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS. SEE THE SITE PLAN AND ARCHITECTURAL DRAWINGS FOR LOCATIONS, DIMENSIONS, ELEVATIONS, JOINTING DETAILS AND FINISH DETAILS. PROVIDE 4" WALKS REINFORCED WITH 6x6 - W1.4XW1.4 WWF UNLESS OTHERWISE NOTED.
16. ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO CHAPTER 19 OF THE CBC AND TO ALL REQUIREMENTS OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS," EXCEPT AS SPECIFIED HEREIN.
17. ALL FOOTINGS SHALL REST ON FIRM NATURAL SOIL OR APPROVED COMPACTED FILL.

18. MONOPOLE CAISSONS ARE DESIGNED BY OTHERS. PROVIDE ADEQUATE SEPARATION AND/OR COMPRESSIBLE MATERIAL AROUND THE TOP OF THE CAISSON AS DIRECTED BY THE CAISSON ENGINEER TO PROTECT ADJACENT NEW AND EXISTING FOUNDATIONS AND OTHER ELEMENTS.
19. CONTROL JOINTS SHALL BE PLACED IN ALL CONCRETE SLABS PER THE SCHEDULE BELOW. SAWCUT WITHIN 4 HOURS AFTER THE POUR USING THE "SOFF-CUT" PROCEDURE.
- | SLAB THICKNESS | MAXIMUM SPACING |
|----------------|-----------------|
| 4"             | 10'-0"          |
| 5"             | 12'-0"          |
| 6" AND LARGER  | 15'-0"          |



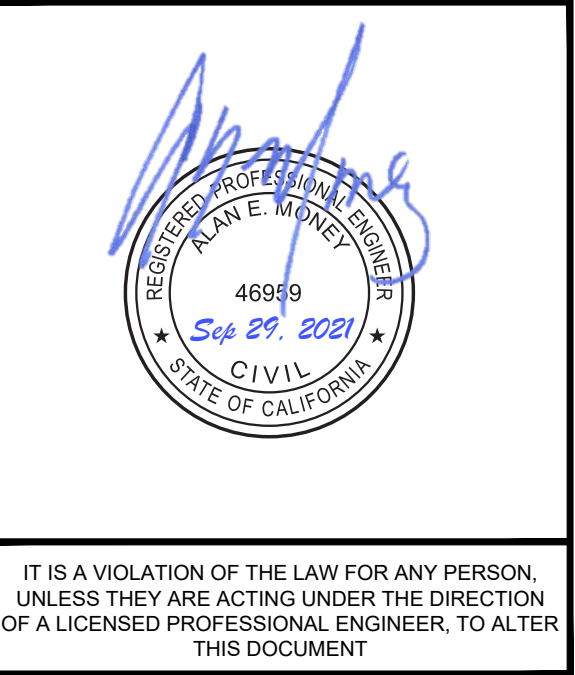
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REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	10/16/20	ISSUED FOR 90% CD REVIEW	SC
0	11/12/20	100% CD	SC
1	01/04/21	RADOME UPDATE	JAF
2	01/07/21	CITY COMMENTS	RGL
3	09/29/21	CITY COMMENTS	RGL
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET			

PALO ALTO HOLE

SF04141A

2666 E BAYSHORE RD  
PALO ALTO, CA 94303



SHEET TITLE
GENERAL NOTES AND SPECIFICATIONS

SHEET NUMBER

T-3



STATEMENT OF SPECIAL INSPECTIONS PER THE 2019 CBC

1. THE OWNER OR REGISTERED DESIGN PROFESSIONAL OF RECORD WILL EMPLOY THE SERVICES OF ONE OR MORE SPECIAL INSPECTORS TO PROVIDE SPECIAL INSPECTIONS DURING CONSTRUCTION FOR THE ITEMS IN THE SPECIAL INSPECTION TABLE BELOW.
2. THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE, TO THE SATISFACTION OF THE BUILDING OFFICIAL AND THE REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR THE DESIGN OF THE STRUCTURE, FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
3. DUTIES AND RESPONSIBILITIES OF THE SPECIAL INSPECTOR:

A. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK ASSIGNED FOR CONFORMANCE WITH THE APPROVED DESIGN DRAWINGS AND SPECIFICATIONS. THE INSPECTOR MAY NOT ALTER, MODIFY, ENLARGE OR WAIVE ANY OF THE REQUIREMENTS OF THE DOCUMENTS.

B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE PROFESSIONAL OF RECORD, AND THE CONTRACTOR. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION, THEN, IF UNCORRECTED, SUBMIT A COMPLETE LIST OF ALL OUTSTANDING DISCREPANCIES ON A WEEKLY BASIS TO THE OWNER, THE BUILDING OFFICIAL, AND THE PROFESSIONAL OF RECORD UNTIL ALL CORRECTIONS HAVE BEEN COMPLETED.

C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.
4. WHERE SPECIAL INSPECTION REQUIREMENTS DUPLICATE THE REQUIREMENTS OF SPECIFIED QUALITY ASSURANCE TESTING, DUPLICATE INSPECTIONS SHALL NOT BE REQUIRED.
5. OBSERVATIONS OR SITE VISITS PERFORMED BY THE ENGINEER OR ARCHITECT DUE NOT CONSTITUTE SPECIAL INSPECTIONS.
6. THE CONTRACTOR SHALL PROVIDE ADEQUATE NOTIFICATION OF SCHEDULE OF WORK REQUIRING INSPECTION OR TESTING TO THE SPECIAL INSPECTION TO ALLOW COORDINATION.
7. THE MATERIALS, SYSTEMS, COMPONENTS AND WORK REQUIRED TO HAVE SPECIAL INSPECTION OR TESTING ARE OUTLINED ON THESE DRAWINGS ALONG WITH THE TYPE AND EXTENT OF EACH INSPECTION AND TEST AND WHETHER IT IS CONTINUOUS OR PERIODIC IN NATURE. IF IT IS NOT INDICATED OTHERWISE, INSPECTION SHALL BE CONTINUOUS.
8. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR SEISMIC-RESISTING COMPONENT SHALL PROVIDE A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER AND THE BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT AS REQUIRED BY CBC SECTION 1704.4.

ADDITIONAL SEISMIC RESISTANCE CASES:

SEISMIC DESIGN CATEGORIES REQUIRED IN	THE FOLLOWING IS A SUMMARY OF THE SEISMIC SYSTEMS, SEISMIC COMPONENTS AND SEISMIC-FORCE-RESISTING SYSTEMS
SEISMIC FORCE RESISTING SYSTEMS	
C, D, E, F	A. ALL MOMENT FRAMES, BRACED FRAMES, CANTILEVERED COLUMNS, SHEARWALLS, AND THEIR FOUNDATIONS, AND DRAGS, CHORDS, FLOOR AND ROOF DIAPHRAGMS
C, D, E, F	B. ALL DRAGS, CHORDS, FLOOR AND ROOF DIAPHRAGMS
D, E, F	C. ALL FREE STANDING MASONRY WALLS
ADDITIONAL SYSTEMS AND COMPONENTS	
C, D, E, F	A. ANCHORAGE OF ELECTRICAL EQUIPMENT USED FOR EMERGENCY OR STANDBY POWER SYSTEMS INCLUDING TELECOM CABINETS
D, E, F	B. EXTERIOR WALL PANELS AND THEIR ANCHORAGE
D, E, F	C. SUSPENDED CEILING SYSTEMS AND THEIR ANCHORAGE

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD	
MASONRY		ACI 530/ ASCE 5/ TMS 402	ACI 530.1/ ASCE 5/ TMS 602
1. AS MASONRY CONSTRUCTION BEGINS, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
a. SITE PREPARED MORTAR PROPORTIONS	PERIODIC		ART. 2.6A
b. CONSTRUCTION OF MORTAR JOINTS	PERIODIC		ART. 3.3B
c. LOCATION OF REINFORCEMENT AND CONNECTORS.	PERIODIC		ART. 3.4
2. THE INSPECTION PROGRAM SHALL VERIFY:			
a. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	PERIODIC		ART. 3.3G
b. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION	PERIODIC	SEC. 1.15.4,2.1.2	
c. SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT.	PERIODIC	SEC. 1.12	ART. 2.4, 3.4
d. WELDING OF REINFORCING BARS.	CONTINUOUS	SEC. 8.5.7 & SEC. 8.5.7.2	
e. PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F) OR HOT WEATHER (TEMPERATURE ABOVE 90°F).	PERIODIC		ART. 1.8
3. PRIOR TO GROUTING, THE FOLLOWING SHALL BE VERIFIED TO ENSURE COMPLIANCE:			
a. GROUT SPACE IS CLEAN.	PERIODIC		ART. 3.2D
b. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	PERIODIC		ART. 3.4
c. PROPORTIONS OF SITE-PREPARED GROUT	PERIODIC		ART. 2.6B
d. CONSTRUCTION OF MORTAR JOINTS	PERIODIC		ART. 3.3B
4. GROUT PLACEMENT SHALL BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS.	CONTINUOUS		ART. 3.5
5. PREPARATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS SHALL BE OBSERVED.	CONTINUOUS		ART. 1.4
6. COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND APPROVED SUBMITTALS SHALL BE VERIFIED	PERIODIC		ART. 1.5

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
CONCRETE (APPLICABLE TO STRUCTURAL CONCRETE OVER FC = 2,500 PSI)		
1. INSPECT BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE WHERE ALLOWABLE LOADS HAVE BEEN INCREASED	CONTINUOUS	
2. INSPECT EPOXY ANCHORS AND EXPANSION ANCHORS INSTALLED IN HARDENED CONCRETE.	CONTINUOUS	PRODUCT ICC-ES REPORT

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
STEEL CONSTRUCTION		
1. MATERIAL VERIFICATION OF HIGH-STRENGTH BOLTS, NUTS, AND WASHERS:	PERIODIC	APPLICABLE ASTM MATERIAL SPECIFICATIONS: AISC ASD. SECTION A3.4: AISC LRFD. SECTION A3.3
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED.		
2. INSPECTION OF HIGH-STRENGTH BOLTING:		
a. BEARING TYPE CONNECTIONS	PERIODIC	AISC LRFD SECTION M2.5
b. SLIP-CRITICAL CONNECTIONS	CONTINUOUS	
3. MATERIAL VERIFICATION OF STRUCTURAL STEEL:		
a. IDENTIFICATION MARKINGS TO CONFORM TO ASTM STANDARDS SPECIFIED IN THE APPROVED CONSTRUCTION DOCUMENTS.		ASTM A 6 OR ASTM A 568
b. MANUFACTURER'S CERTIFIED MILL TEST REPORTS. REQUIRED		
4. MATERIAL VERIFICATION OF WELD FILLER MATERIALS:		AISC, ASD. SECTION A3.6 AISC LRFD. SECTION A3.5
a. IDENTIFICATION MARKINGS TO CONFORM TO AWS SPECIFICATION IN THE APPROVED CONSTRUCTION DOCUMENTS.		
b. MANUFACTURER'S CERTIFICATE OF COMPLIANCE REQUIRED		
5. INSPECTION OF WELDING:		
a. STRUCTURAL STEEL		
1) COMPLETE AND PARTIAL PENETRATION GROOVE WELDS	CONTINUOUS	AWS D1.1
2) MULTI-PASS FILLET WELDS	CONTINUOUS	
3) SINGLE-PASS FILLET WELDS GREATER THAN 5/16" (7.9mm)	CONTINUOUS	
4) SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16" (7.9mm)	PERIODIC	
5) FLOOR AND DECK WELDS	PERIODIC	AWS D1.3
6. INSPECTION OF STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS:	PERIODIC	
a. DETAILS SUCH AS BRACING AND STIFFENING		
b. MEMBER LOCATIONS.		
c. APPLICATION OF JOINT DETAILS AT EACH CONNECTION.		
INSPECTION OF FABRICATORS	PERIODIC	
1. APPLICABLE ELEMENT (FABRICATOR CERTIFICATION REQUIREMENTS)		
a. STRUCTURAL STEEL (AISC CERTIFIED FOR CONVENTIONAL STEEL BUILDING)		
b. STEEL JOISTS/ JOIST GIRDERS (SJI MEMBER)		
c. STEEL ROOF DECK (SDI MEMBER)		
d. PRECAST CONCRETE WALLS PANELS (PCI GROUP C MANUFACTURER WITH C3 CERTIFICATION)		
e. LOAD BEARING CONCRETE MASONRY (NCMA MEMBER)		
2. WHEN SPECIAL INSPECTIONS ARE REQUIRED BY BUILDING OFFICIAL		
a) FABRICATION AND IMPLEMENTATION PROCEDURES: THE SPECIAL INSPECTOR SHALL VERIFY THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION, CONTROL OF THE WORKMANSHIP, AND THE FABRICATOR'S ABILITY TO CONFORM TO APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS. THE SPECIAL INSPECTOR SHALL REVIEW THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE CODE REQUIREMENTS FOR THE FABRICATOR'S SCOPE OF WORK.		
3. WHEN SPECIAL INSPECTIONS ARE NOT REQUIRED BY THE BUILDING OFFICIAL		
a) UPON COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF THE COMPLIANCE TO THE BUILDING OFFICIAL STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.		

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
DRILLED PIERS		
1. OBSERVE DRILLING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH PIER.	CONTINUOUS	GEOTECHNICAL ENGINEERING REPORT
2. VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM PIER DIAMETERS (IF APPLICABLE), LENGTHS, EMBEDMENT INTO BEDROCK (IF APPLICABLE) AND ADEQUATE END BEARING STRATA CAPACITY.		
3. FOR CONCRETE PIERS, PERFORM ADDITIONAL INSPECTIONS IN ACCORDANCE WITH SECTION 1705.3.	SEE SPECIAL INSPECTION NOTES FOR CONCRETE ALSO	

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
SOILS:		
1. SITE PREPARATION-VERIFY THAT THE SITE SUBGRADE SOILS ARE PROPERLY PREPARED	CONTINUOUS	GEOTECHNICAL ENGINEERING REPORT
2. FILL PLACEMENT 12" THICK OR GREATER - VERIFY MATERIAL BEING USED AND LIFT THICKNESS	CONTINUOUS	
3. EVALUATION OF IN-PLACE DENSITY OF COMPACTED FILL 12" THICK OR GREATER	PERIODIC	
4. SUB-GRADE IMPROVEMENTS INVOLVING SOIL MIXING, COMPACTION GROUTING, DYNAMIC COMPACTION, OR PLACEMENT OF STONE COLUMNS	CONTINUOUS	

STRUCTURAL OBSERVATION:

1. STRUCTURAL OBSERVATIONS BY AN INDEPENDENT ENGINEER OR THE ENGINEER OF RECORD SHALL BE MADE IN ACCORDANCE WITH SECTION 1704.5 OF THE 2016 CALIFORNIA BUILDING CODE AT THE EXPENSE OF THE OWNER TO REVIEW THE CONSTRUCTION OF THE PROJECT. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES, AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR(S).
2. THE OWNER SHALL EMPLOY THE CIVIL OR STRUCTURAL ENGINEER OR THE ARCHITECT OF RECORD OR THEIR DESIGNATED AGENT TO PERFORM THE STRUCTURAL OBSERVATION.
3. EVIDENCE OF EMPLOYMENT BY THE OWNER SHALL BE PROVIDED TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT.
4. WHEN A PRECONSTRUCTION MEETING IS REQUIRED, IT SHALL BE ATTENDED BY THE GENERAL CONTRACTOR, APPROPRIATE SUBCONTRACTORS, AND DEPUTY INSPECTORS. THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS WHICH REQUIRE STRUCTURAL OBSERVATION WILL BE IDENTIFIED. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT.
5. REQUIRED OBSERVATIONS ARE TO OCCUR AT THE FOLLOWING STAGES OF CONSTRUCTION AS A MINIMUM, FOR EACH BUILDING OR STRUCTURE AS APPLICABLE. NOTIFY THE ENGINEER 72 HOURS PRIOR TO EACH OBSERVATION.

REQUIRED IF CHECKED	ITEMS
	A. PRECONSTRUCTION MEETING SHALL BE ATTENDED BY THE STRUCTURAL OBSERVER OF RECORD.
	B. PRIOR TO PLACEMENT OF CONCRETE FOR THE FIRST FOUNDATION POUR.
	C. PRIOR TO PLACEMENT OF CONCRETE IN WALL FORMS.
	D. UPON COMPLETION OF WELDING AT STEEL MOMENT FRAMES.
	E. UPON COMPLETED ERECTION OF ALL STRUCTURAL STEEL.
	F. PRIOR TO PLACEMENT OF GROUT IN FIRST LIFT.
	G. PRIOR TO GROUTING THE TOP 48" OF MASONRY WALLS AT FLOOR AND ROOF LINE. (CHORD REINFORCING)
	H. AFTER NAILING OF ALL PLYWOOD SHEAR WALLS AND ALL HOLDDOWNS, DRAGS, STRAPS ARE IN PLACE, AND PRIOR TO COVERING ANY OF THE SHEAR WALLS.
	K. AFTER NAILING OF FLOOR PLYWOOD DIAPHRAGM(S); PRIOR TO COVERING.
	J. AFTER NAILING OF ROOF PLYWOOD DIAPHRAGM(S); PRIOR TO COVERING.
	K. PRIOR TO ROOFING OR PLACEMENT OF CONCRETE FILL OVER METAL DECK ROOFS OR FLOORS.
	L. FINAL WALK THROUGH UPON COMPLETION OF ALL STRUCTURAL ASPECTS OF THE PROJECT PRIOR TO ARCHITECTURAL FINISHES.
●	M. NO STRUCTURAL OBSERVATION REQUIRED

A REPORT PREPARED ON DEPARTMENT FORMS OR FORMS PREPARED BY THE ENGINEER OR ARCHITECT OF RECORD FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED, SHALL BE LEFT AT THE PROJECT SITE FOR THE CONTRACTOR TO FORWARD TO THE BUILDING INSPECTOR. THE FORMS SHALL BE WET SIGNED AND SEALED BY THE RESPONSIBLE STRUCTURAL OBSERVER, ONE SIGNED COPY OF THE REPORT SHALL BE PROVIDED TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR, AS REQUESTED. A FINAL OBSERVATION REPORT MUST BE SUBMITTED WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND THE STRUCTURAL SYSTEM GENERALLY CONFORMS TO THE APPROVED PLANS AND SPECIFICATIONS. IF THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD, THE OWNER SHALL:

A. NOTIFY BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION.

B. CALL AN ADDITIONAL PRECONSTRUCTION MEETING, AND FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF PREVIOUS OBSERVER'S REPORTS.

THE PROPOSED OBSERVER SHALL BE RESPONSIBLE FOR APPROVAL OF THE CORRECTION OF ALL THE ORIGINAL OBSERVED NOTED DEFICIENCIES. THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES TO THE STRUCTURAL SYSTEMS AT THE CONTRACTOR'S EXPENSE. STRUCTURAL OBSERVATION SHALL BE PERFORMED BY NATIONAL ENGINEERING & CONSULTING, INC.

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
COLD-FORMED STEEL FRAMING		
1. DURING WELDING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM.	PERIODIC	CBC 1705.10.2
2. SCREW ATTACHMENT, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN THE SEISMIC-FORCE RESISTING SYSTEM, INCLUDING STRUTS, BRACES & HOLD-DOWNS.	PERIODIC	

SPECIAL INSPECTION	FREQUENCY	REFERENCED STANDARD
WOOD		
1. DURING FIELD GLUING OPERATIONS OF ELEMENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM.	CONTINUOUS	CBC 1705.10.1
2. NAILING, BOLTING, ANCHORING AND OTHER FASTENING OF COMPONENTS WITHIN SEISMIC-FORCE-RESISTING SYSTEM, INCLUDING WOOD SHEAR WALLS, WOOD DIAPHRAGMS, DRAG STRUTS, BRACES, SHEAR PANELS & HOLD-DOWNS.	PERIODIC	
EXCEPTION SPECIAL INSPECTION IS NOT REQUIRED FOR WOOD SHEAR WALLS, SHEAR PANELS & DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING & OTHER FASTENING TO OTHER COMPONENTS OF THE SEISMIC-FORCE-RESISTING SYSTEM, WHERE THE FASTENER SPACING OF THE SHEATHING IS MORE THAN 4 INCHES ON CENTER.		



T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122

DRAWN BY:	SC
CHECKED BY:	CH

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	10/16/20	ISSUED FOR 90% CD REVIEW	SC
0	11/12/20	100% CD	SC
1	01/04/21	RADOME UPDATE	JAF
2	01/07/21	CITY COMMENTS	RGL
3	09/29/21	CITY COMMENTS	RGL
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET			

PALO ALTO HOLE

SF04141A

2666 E BAYSHORE RD  
PALO ALTO, CA 94303

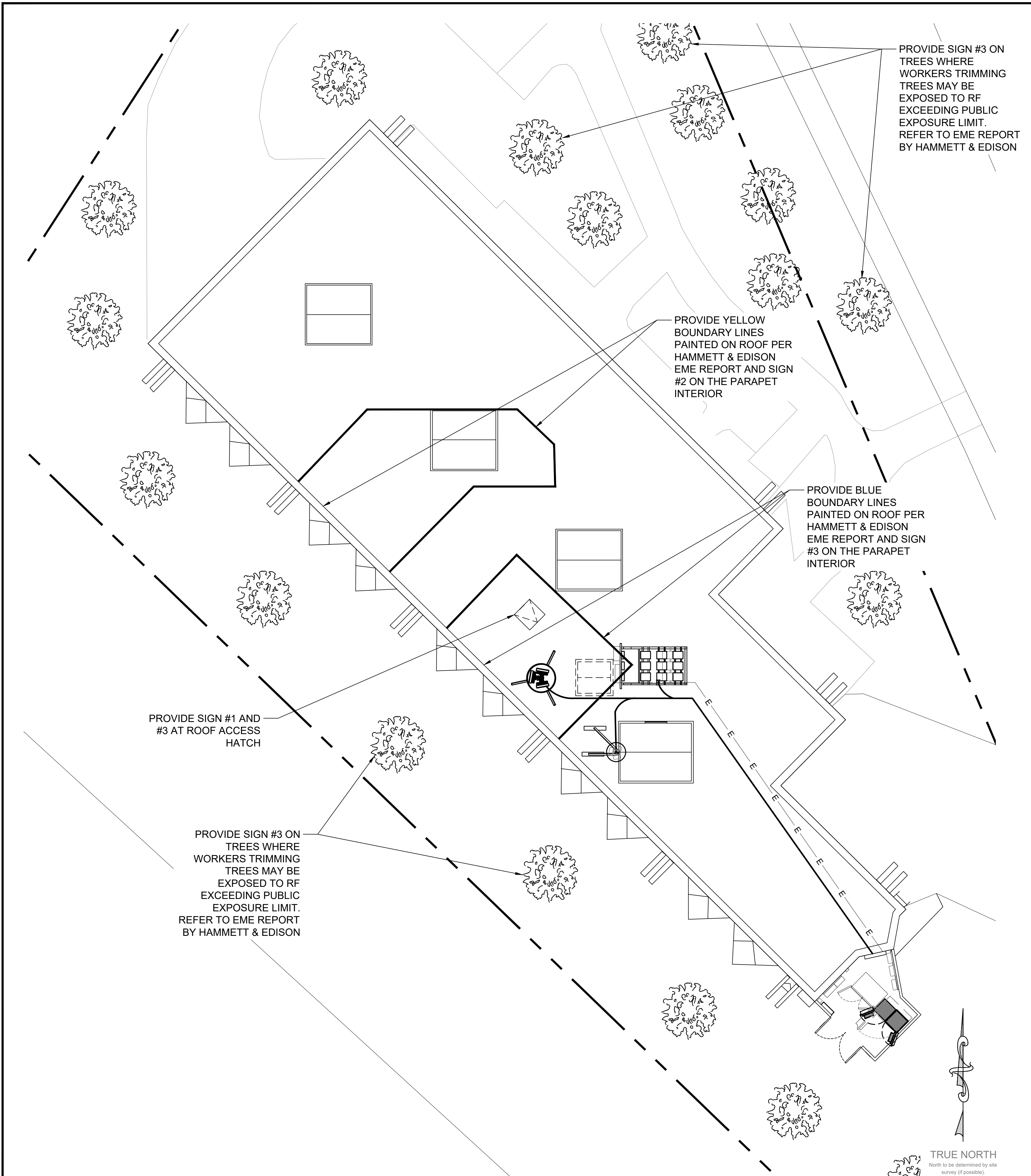


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SHEET TITLE
GENERAL NOTES AND SPECIFICATIONS

SHEET NUMBER
T-4





## EME NOTICE PLAN

N.T.S.

## INFORMATION

T-MOBILE operates telecommunication antennas at this location. Remain at least 3 feet away from any antenna and obey all posted signs. Contact the owner(s) of the antenna(s) before working closer than 3 feet from the antenna(s).

Contact T-MOBILE at 888-662-4662 X 3231 prior to performing any maintenance or repairs near T-MOBILE antennas.

This Site# SF04552A  
Contact the management office if this door/hatch/gate is found  
unlocked.

## INFORMACION

En esta propiedad se ubican antenas de telecomunicaciones operads por T-MOBILE. Favor mantener una distancia de no menos de 3 pies y obedecer todos los avisos

Comuníquese con el propietario o los propietarios de las antes de trabajar o caminar de menos de 3 pies de la antena

Comuníquese con T-MOBILE 888-662-4662 X 3231 antes de realizar cualquier mantenimiento o reparaciones cerca de las antenas de T-MOBILE

Esta es la estacion base numero SF04552A

Favor comuníquese con la oficina de la administración del edificio si esta puerta o compuerta se encuentra sin candado.

T-MOBILE SIGN #1

**CAUTION**



**Beyond this point:  
Radio frequency fields at this site  
may exceed FCC rules for human  
exposure.**

**For your safety, obey all posted signs and site guidelines for working in radio frequency environments.**

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307(b)

T-MOBILE SIGN #2

# NOTICE



**Radio frequency fields beyond this point may exceed the FCC general public exposure limit.**

**Obey all posted signs and site guidelines for working in radio frequency environments.**

In accordance with Federal Communications Commission rules on radio frequency emissions 47 CFR 1.1307(b)

T-MOBILE SIGN #3

## Recommended Mitigation Measures

Due to their mounting locations and height, the T-Mobile antennas would not be accessible to unauthorized persons, and so no measures are necessary to comply with the FCC public exposure guidelines. To prevent occupational exposures in excess of the FCC guidelines, it is recommended that appropriate RF safety training to include review of personal monitor use, review of lockout/tagout procedures, and review of the information in figure 3, be provided to all authorized personnel who have access to the structure, including employees and contractors of T-Mobile and of the property owner. No access within 40 feet directly in front of the T-Mobile antennas themselves, such as might occur during certain maintenance activities, should be allowed while the base station is in operation, unless other measures can be demonstrated to ensure that occupational protection requirements are met. It is recommended that boundary lines be marked on the west end of the roof with blue paint, to identify an area in which exposure levels are calculated to exceed the public FCC limit, as shown in figure 3. It is recommended that explanatory signs be posted on the antenna enclosures in front of the antennas, readily visible from any angle of approach to persons who might need to work within that distance, as well as at edges of the roof of the entrance portico and at the two boundary lines to identify areas in which exposure levels are calculated to exceed the public FCC limit.

NOTE: FOR COMPLETE EME INFORMATION, REFER TO HAMMETT & EDISON, INC. EME REPORT DATED 11/06/2020.

**T-Mobile®**

T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520



**SURESITE**

3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122

DRAWN BY: SC

CHECKED BY: CH

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3	09/29/21	CITY COMMENTS	RGL

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AS CONSTRUCTION SET

would not be necessary to comply with RF safety training procedures, and personnel who are exposed to EMF from T-Mobile and other mobile phone use and activities, other measures can be taken if the standards are met. It is recommended that signs be posted from any angle of view as well as at eye level to identify the FCC limit.

2666 E BAYSHORE RD  
PALO ALTO, CA 94303



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SHEET TITLE

## EME COMPLIANCE

SHEET NUMBER

# T-5

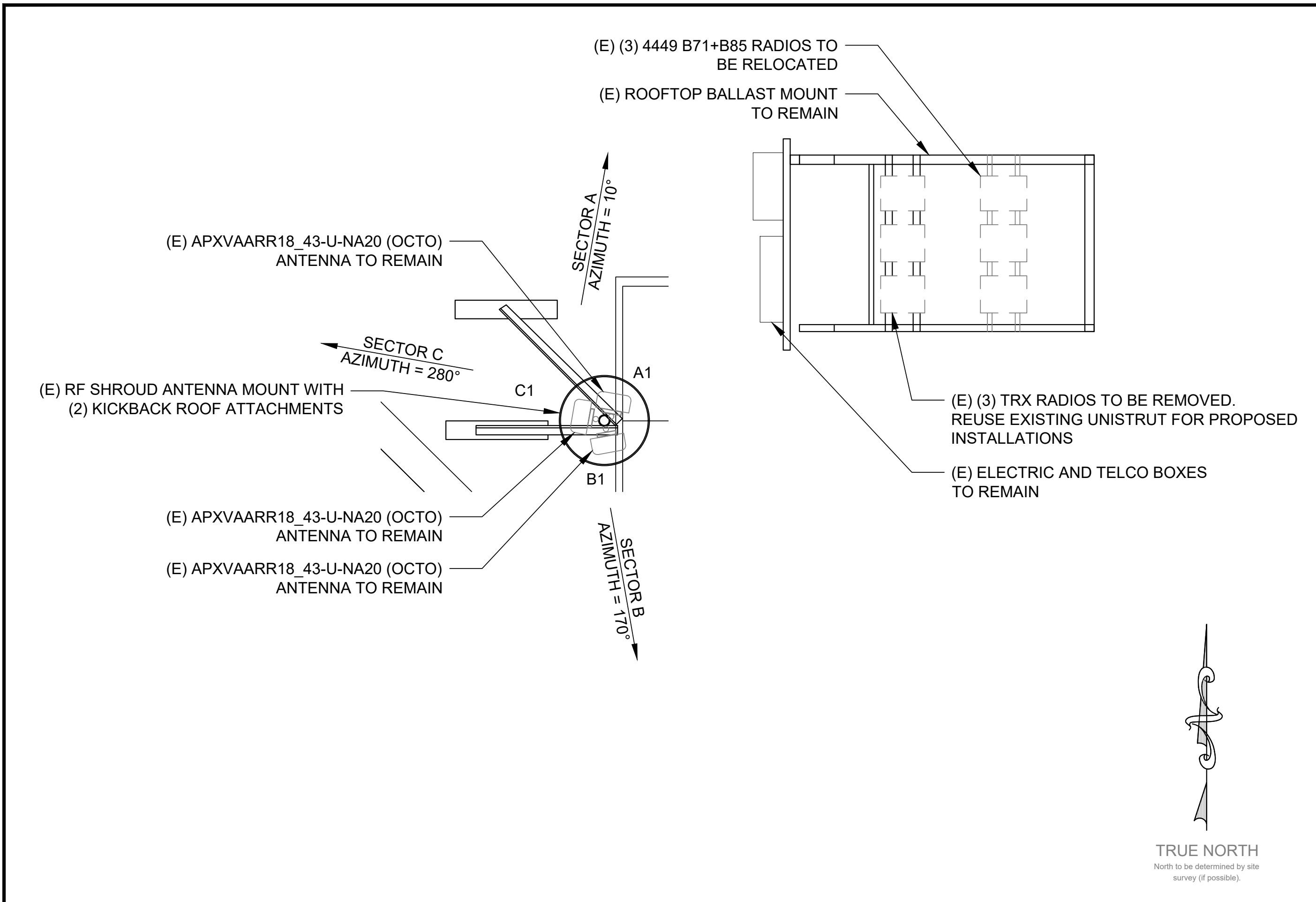
22"x34" SCALE: 1/16" = 1'-0"  
11"x17" SCALE: 1/32" = 1'-0"

THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO CARRIER SERVICES IS STRICTLY PROHIBITED.

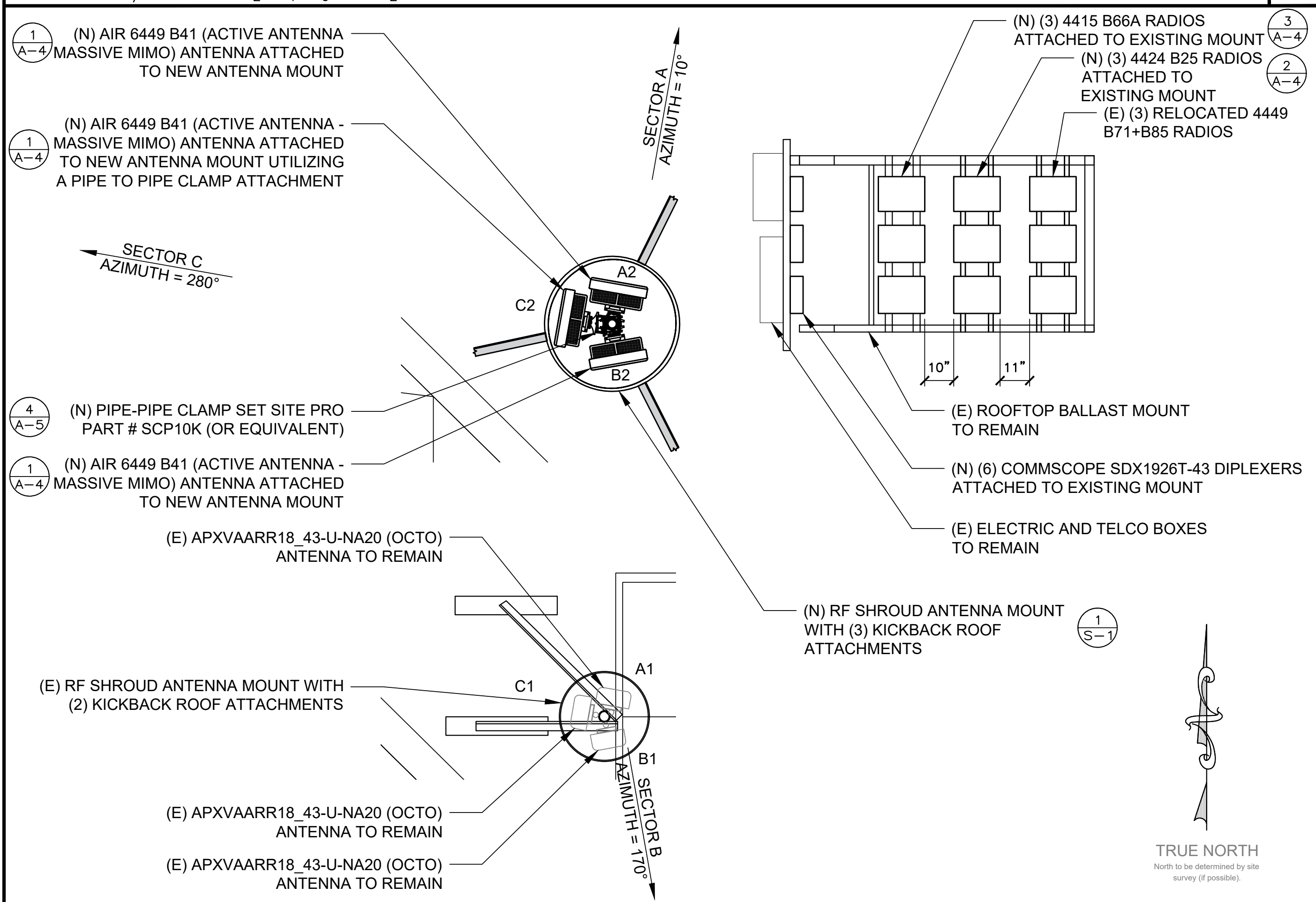




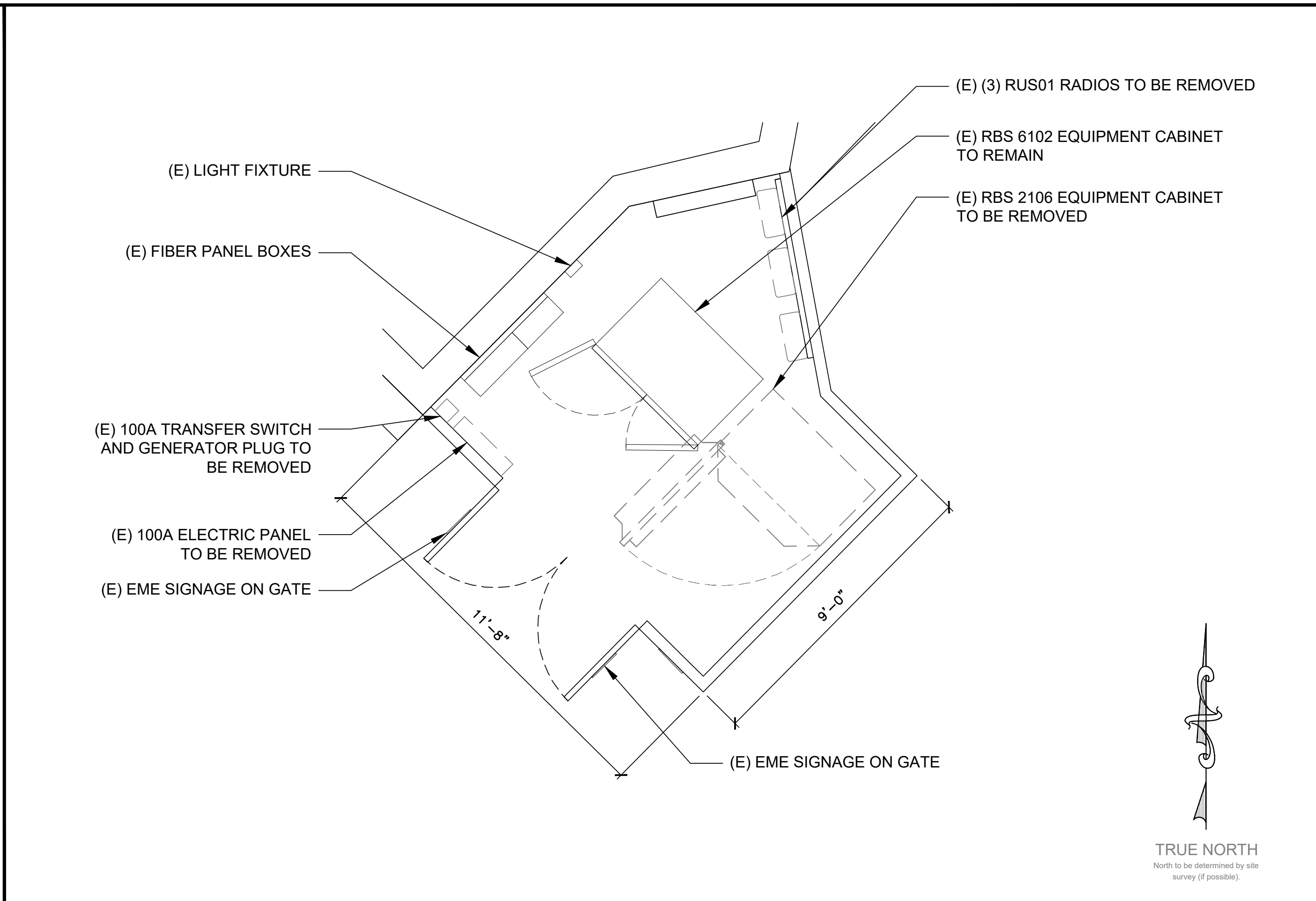




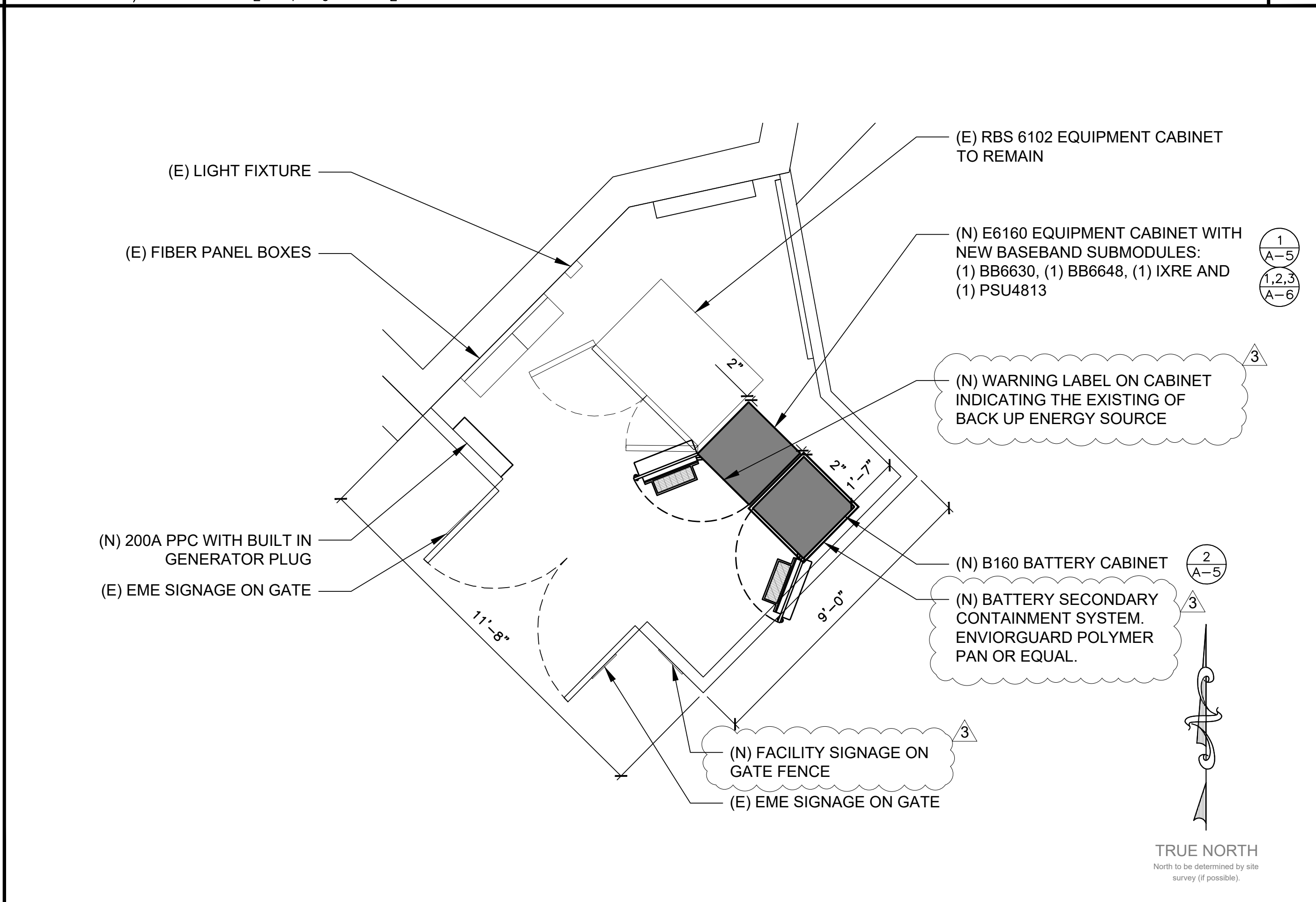
22"x34" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"  
EXISTING ANTENNA LAYOUT PLAN 4



22"x34" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"  
NEW ANTENNA LAYOUT PLAN 3



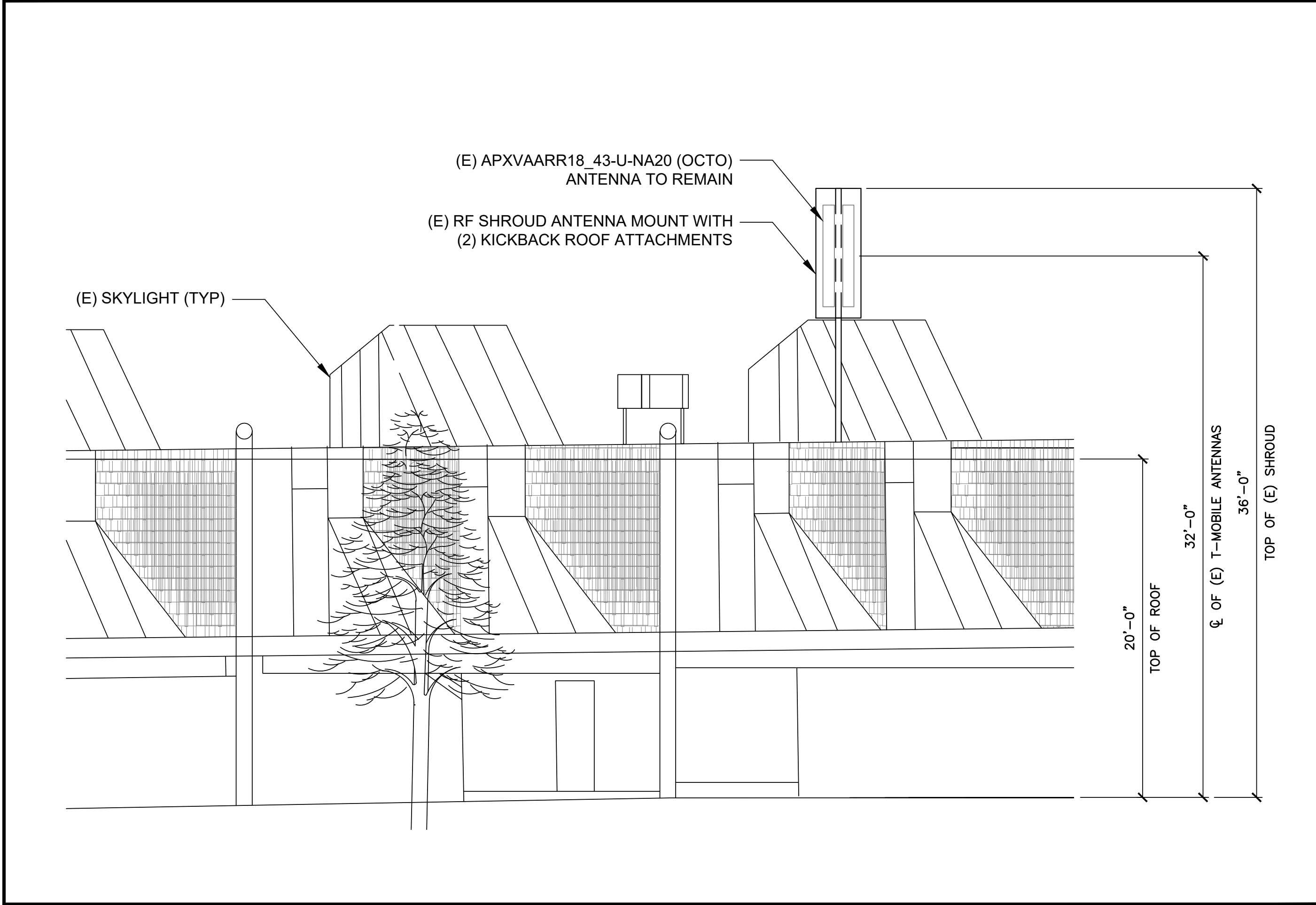
22"x34" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"  
EXISTING EQUIPMENT LAYOUT PLAN 2



22"x34" SCALE: 3/8" = 1'-0"  
11"x17" SCALE: 3/16" = 1'-0"  
NEW EQUIPMENT LAYOUT PLAN 1

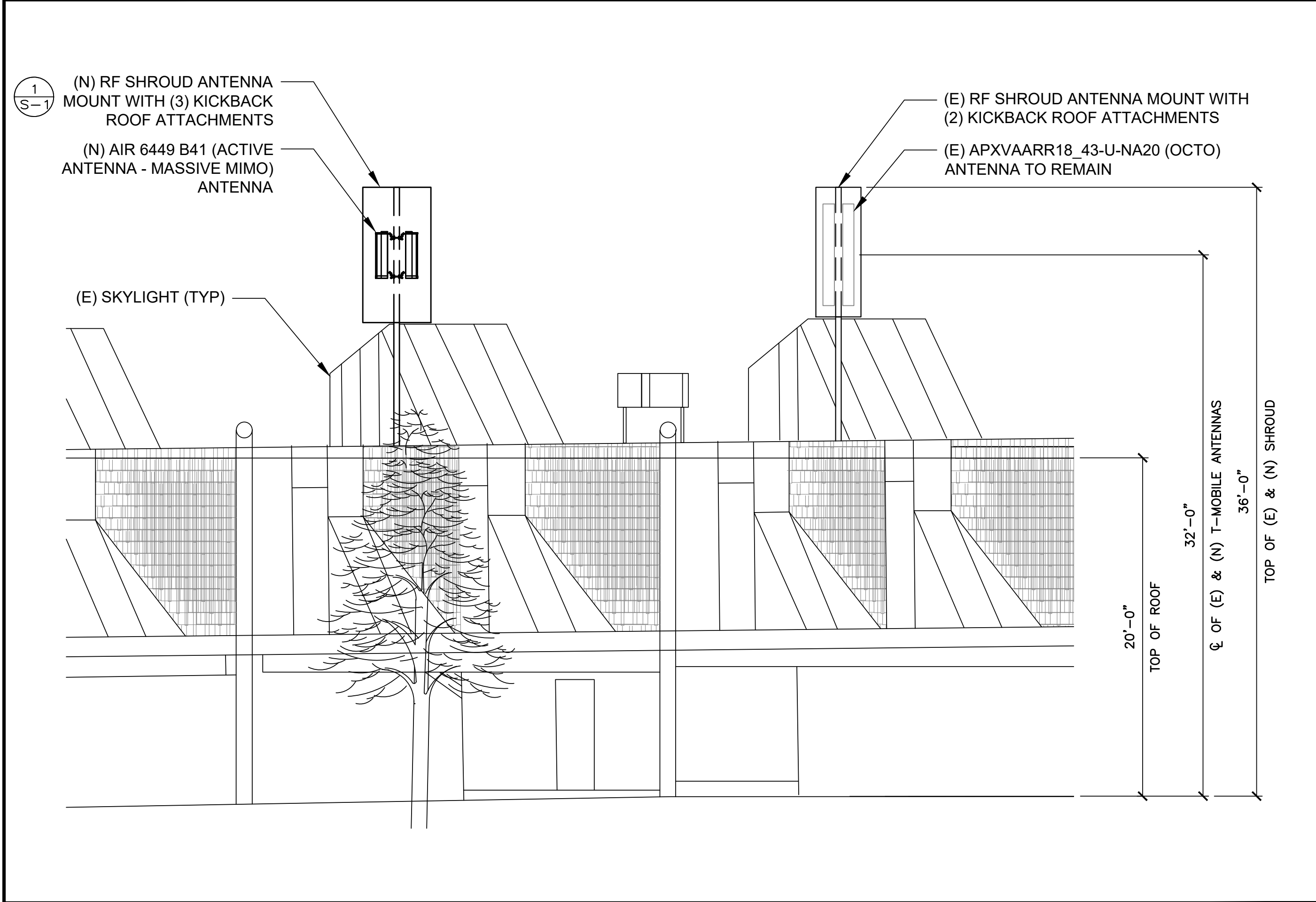
REVISIONS			
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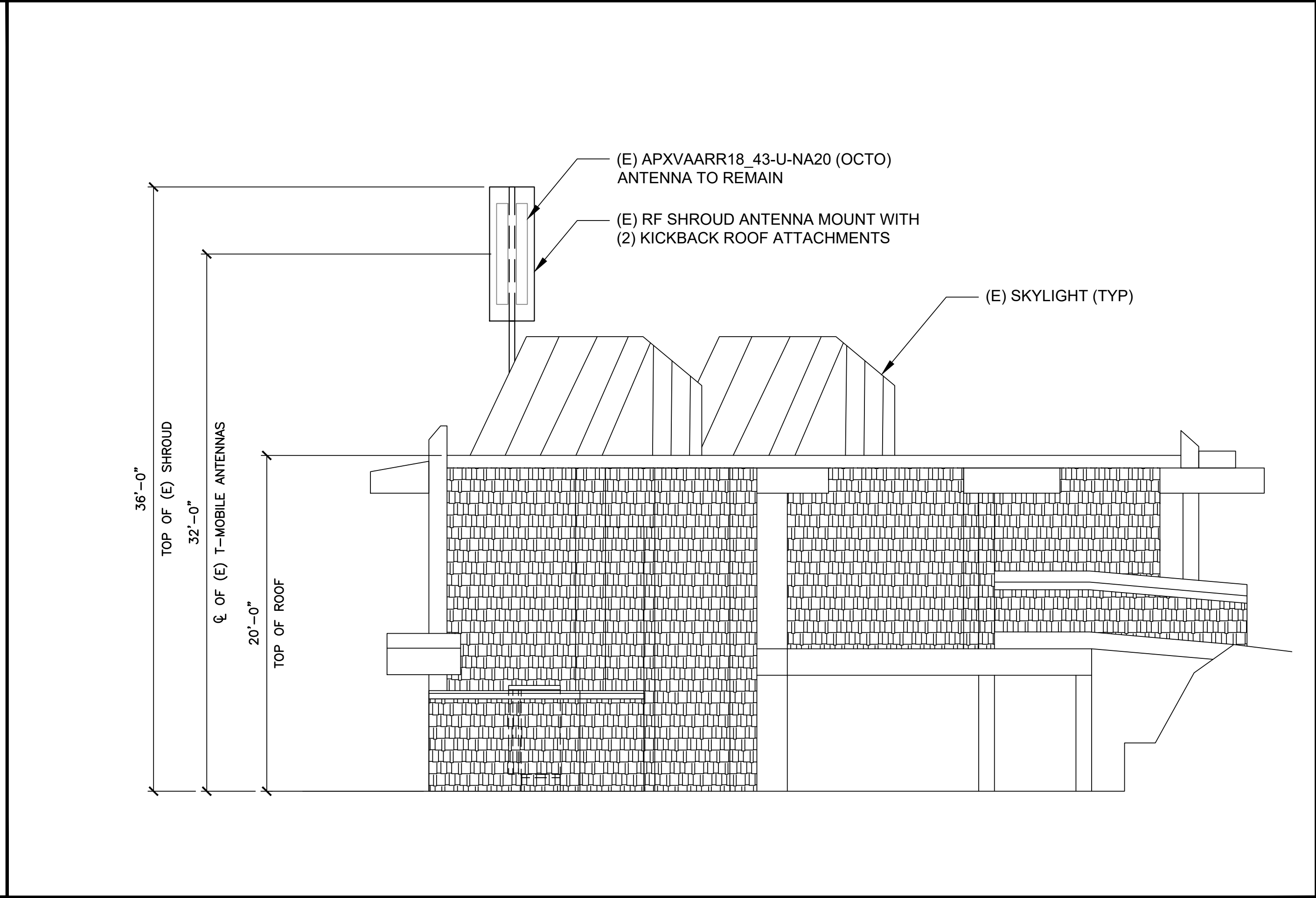
22"x34" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"  
4' 2' 0' 4'

EXISTING SOUTHWEST ELEVATION 4



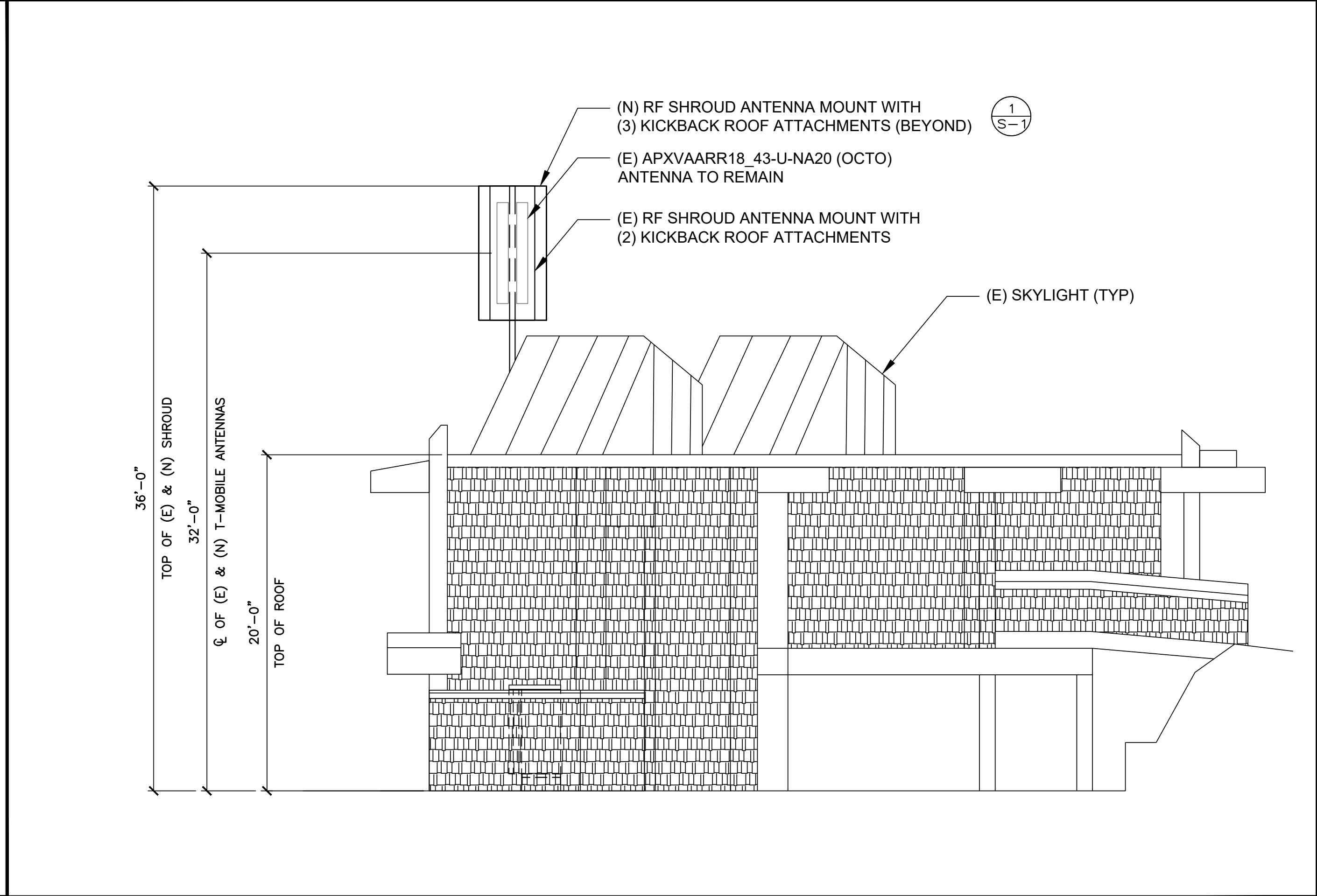
22"x34" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"  
4' 2' 0' 4'

NEW SOUTHWEST ELEVATION 3



22"x34" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"  
4' 2' 0' 4'

EXISTING SOUTHEAST ELEVATION 2



22"x34" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"  
4' 2' 0' 4'

NEW SOUTHEAST ELEVATION 1

DRAWN BY: SC  
CHECKED BY: CH

REVISIONS			
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AS CONSTRUCTION SET

PALO ALTO HOLE  
SF04141A  
2666 E BAYSHORE RD  
PALO ALTO, CA 94303

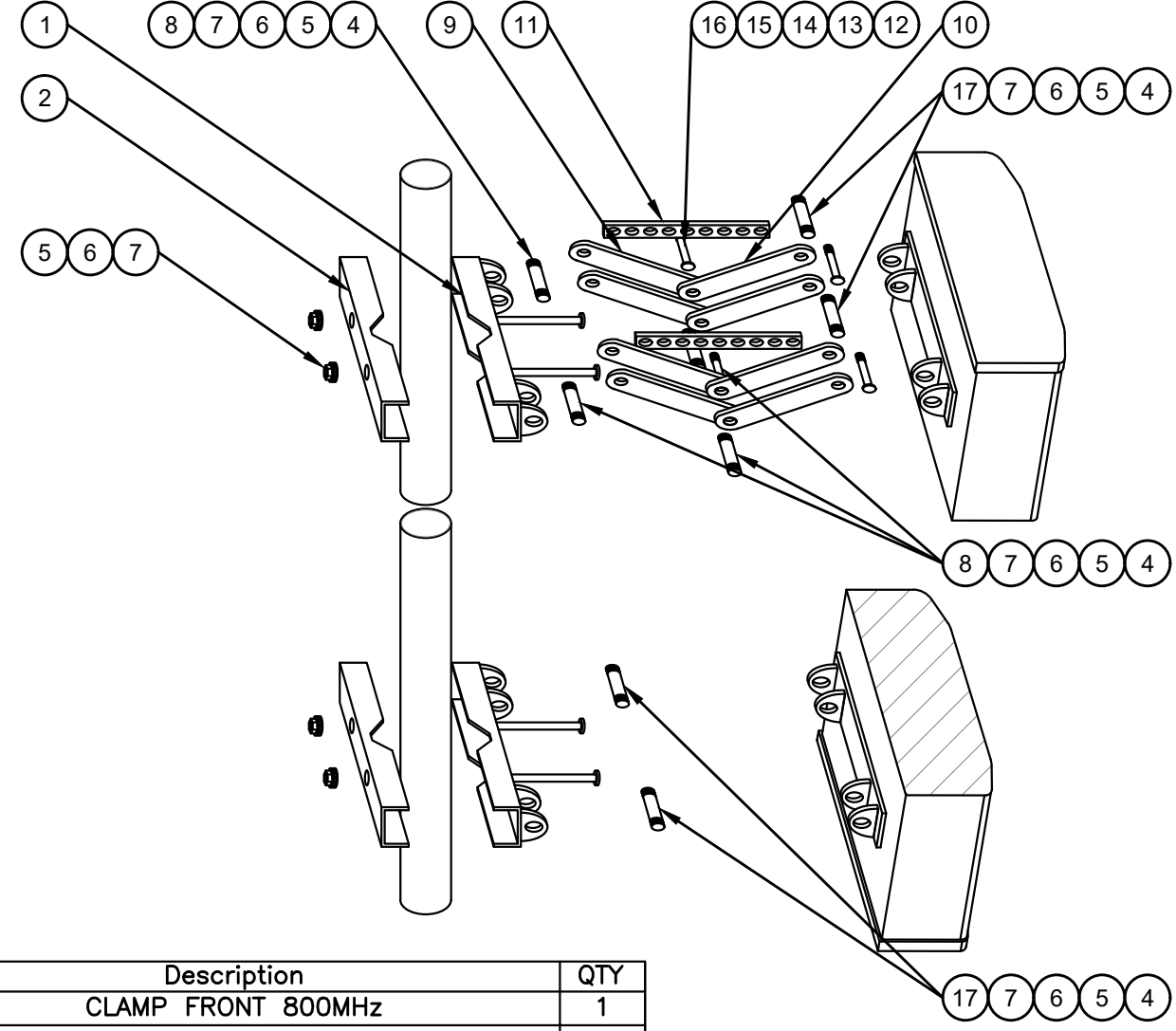


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THIS DOCUMENT

SHEET TITLE  
ARCHITECTURAL ELEVATIONS

SHEET NUMBER  
**A-3**



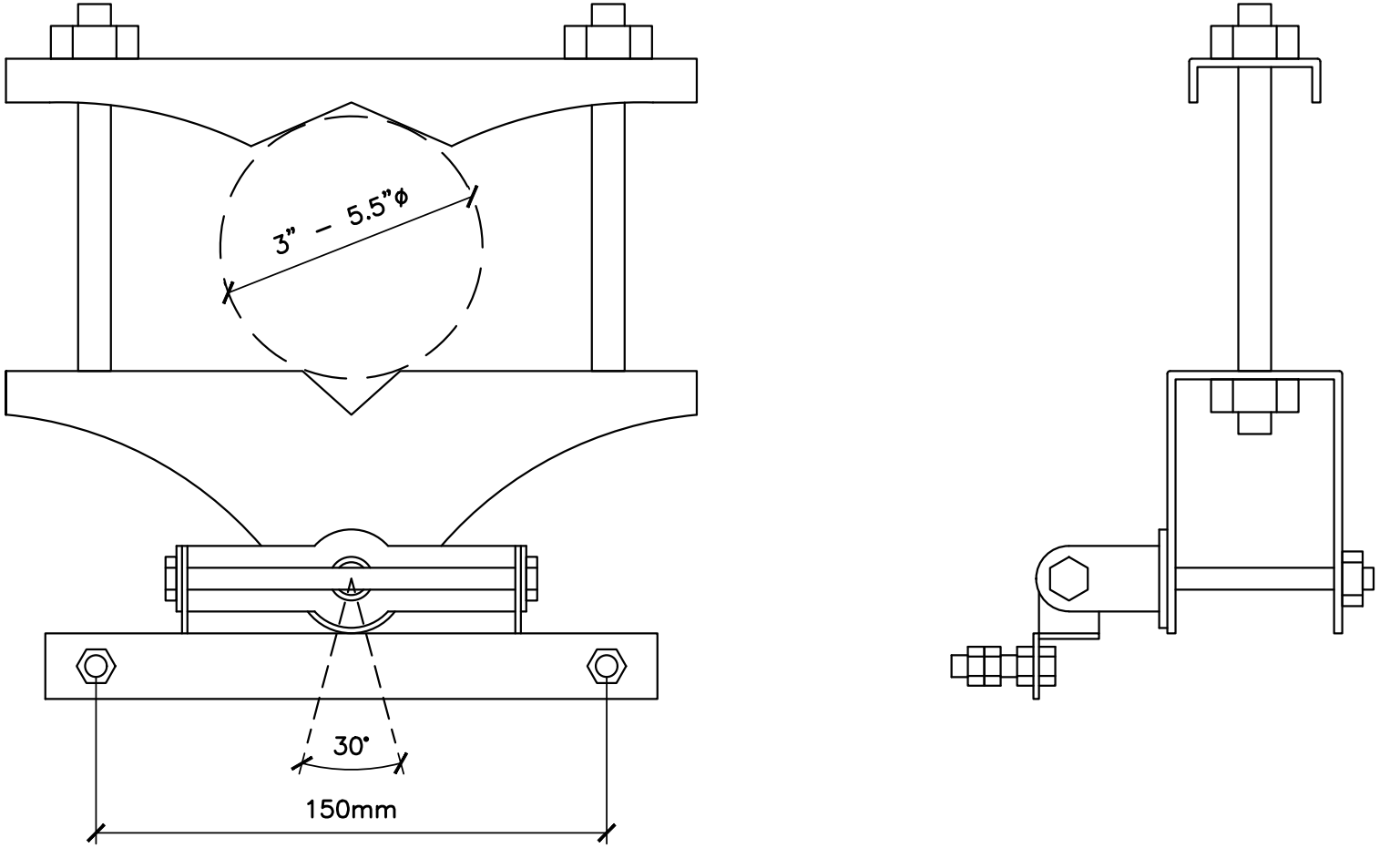


Item	Description	QTY
1	CLAMP FRONT 800MHz	1
2	CLAMP REAR 800MHz	1
3	M12-200, GALV. DIN603/ISO8677, CLASS 8.8	1
4	SCREW H M12X110 CS 35K 8.8 GVRO ISO4017	4
5	WASHER FL 13X24X2.5 CS 200HV GVRO GB97	4
6	WASHER SP 12X3.5 65Mn 200HV GVRO GB7244	2
7	NUT H M12X19X10 CS 35K 8 GVRO DIN934	2
8	STUB FOR SCISSOR	1
9	DOWNTILT SCISSOR	1
10	DOWNTILT BEAM	1
11	MECHANICAL DOWNTILT INDICATOR 800MHz 2.6M	4
12	STUB SPACER 3mm	4
13	M8-100 GALV. ISO8677, CLASS 4.8	2
14	SPRING LOCK WASHER A8 DIN127 A2	2
15	FLAT WASHER DIN125 8.4 A2 (FRTR)	4
16	M8X1, 25 HEX NUT STL GALV.	2
17	SPACER FOR BOTTOM MOUNTING	2

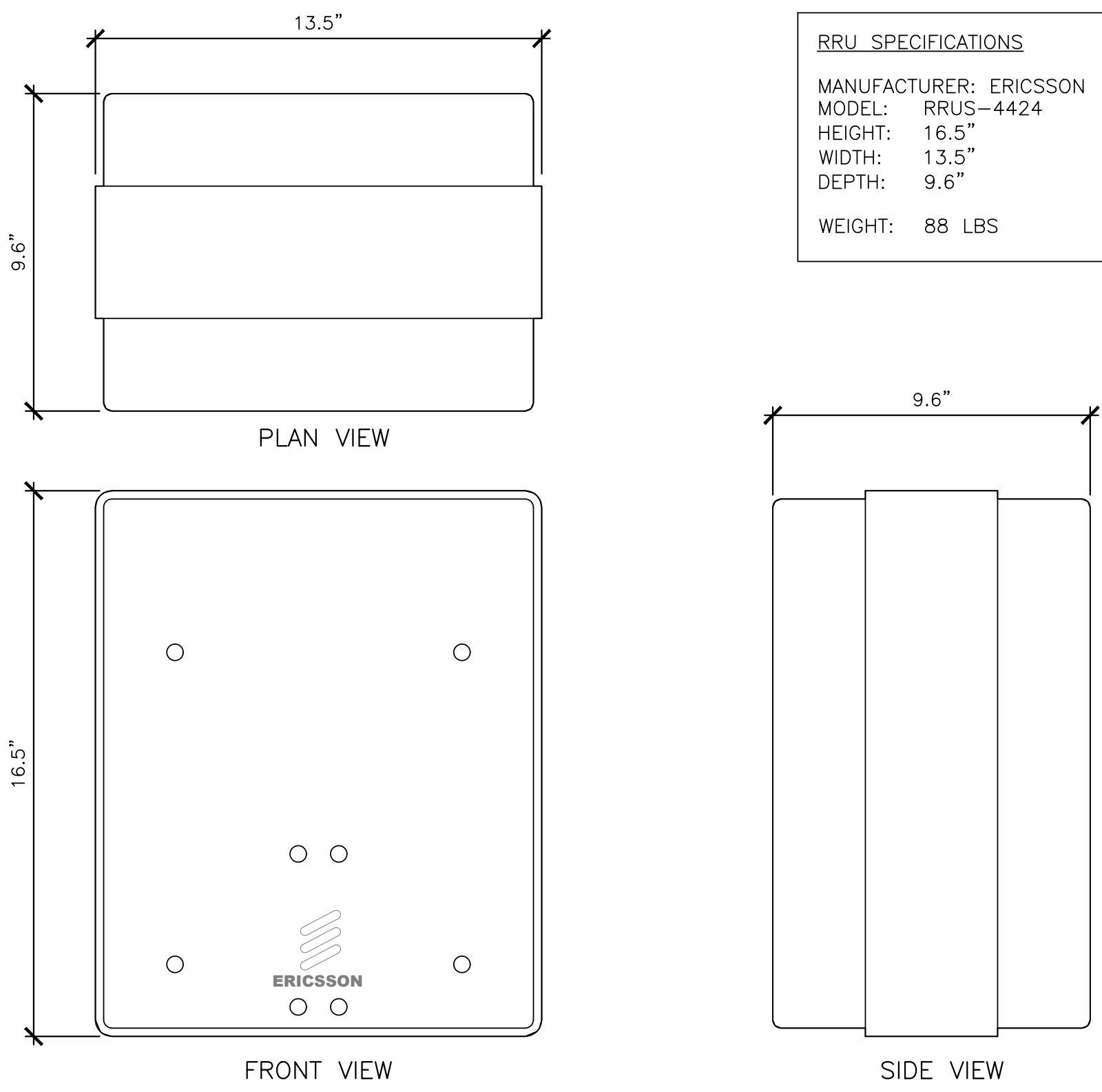
MANUFACTURER: RFS  
MODEL: AMP40-5E MOUNTING KIT  
WEIGHT: 22 LBS

N.T.S.      RFS AMP40-5E ANTENNA MOUNT KIT DETAIL      6

TYPE NO.	SXK 109 2064/1
NAME	AIR BRACKET MEDIUM
SUITABLE FOR MAST DIAMETER	3"-5.5" (76-114 MM)
ANTENNA - MAST DISTANCE F	128-132 MM
COMPATABILITY	AIR UNITS W/ 150MM INTERFACE
NUMBER OF PIECES	2 PIECES
MATERIAL - CLAMP	HOT-DIP GALVANIZED STEEL
-SCREWS	HOT-DIP GALVANIZED STEEL
-NUTS	/STAINLESS STEEL
WEIGHT	9 LBS (4.4 KG)

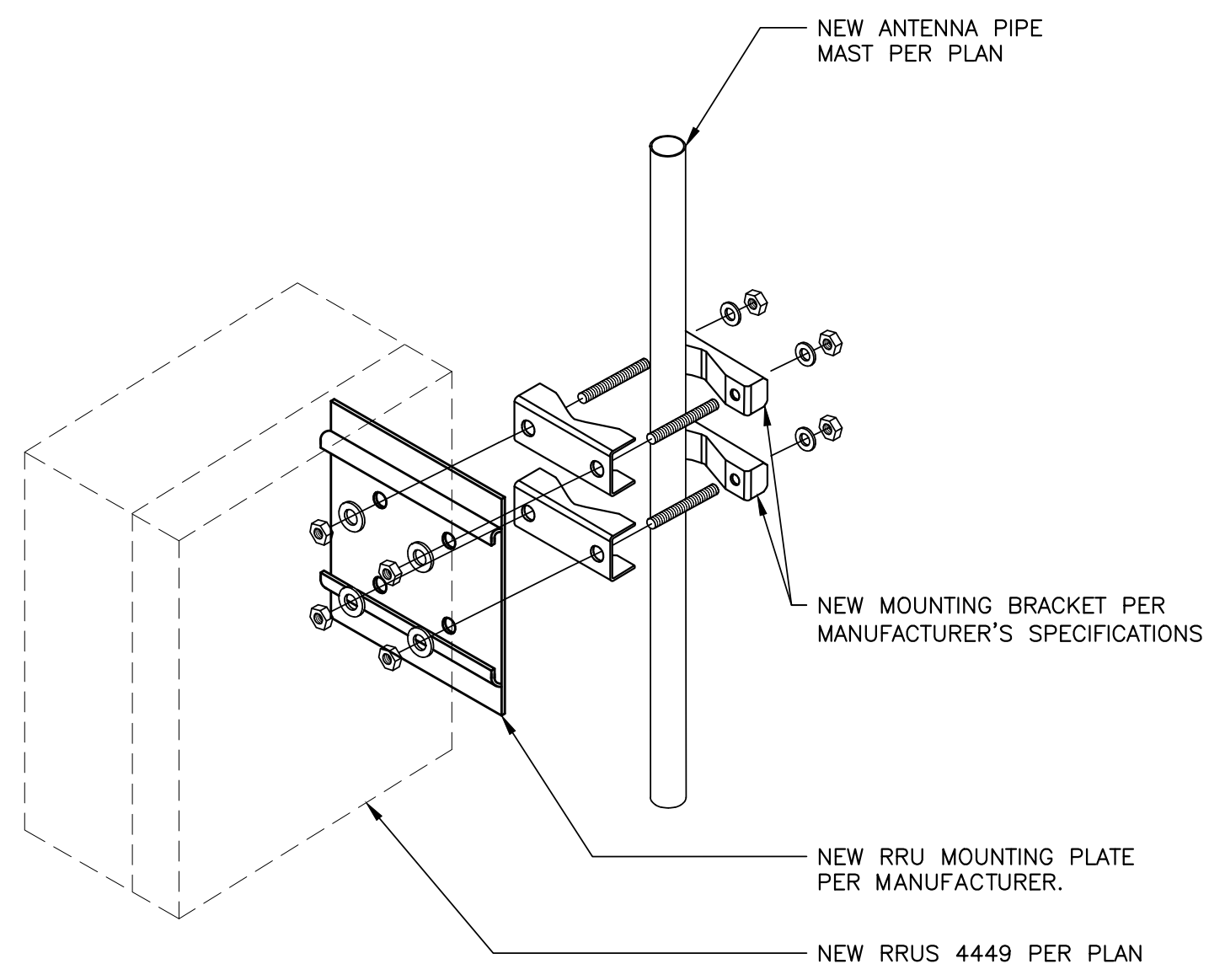


N.T.S.      'AIR' BRACKET MEDIUM DETAIL      4



RRU SPECIFICATIONS  
MANUFACTURER: ERICSSON  
MODEL: RRUS-4424  
HEIGHT: 16.5"  
WIDTH: 13.5"  
DEPTH: 9.6"  
WEIGHT: 88 LBS

N.T.S.      ERICSSON RADIO 4424 DETAIL      2



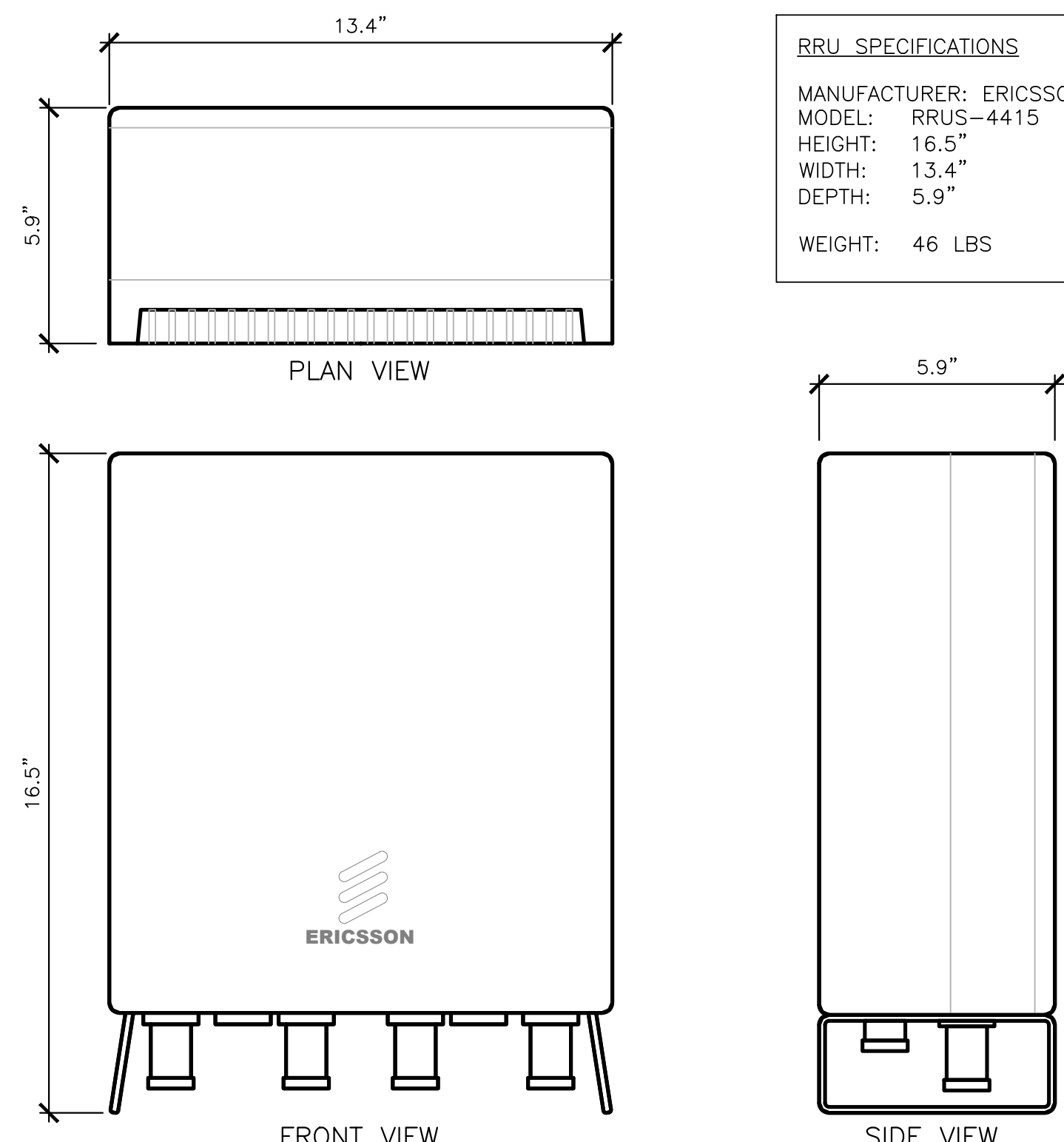
NEW ANTENNA PIPE  
MAST PER PLAN

NEW MOUNTING BRACKET PER  
MANUFACTURER'S SPECIFICATIONS

NEW RRU MOUNTING PLATE  
PER MANUFACTURER.

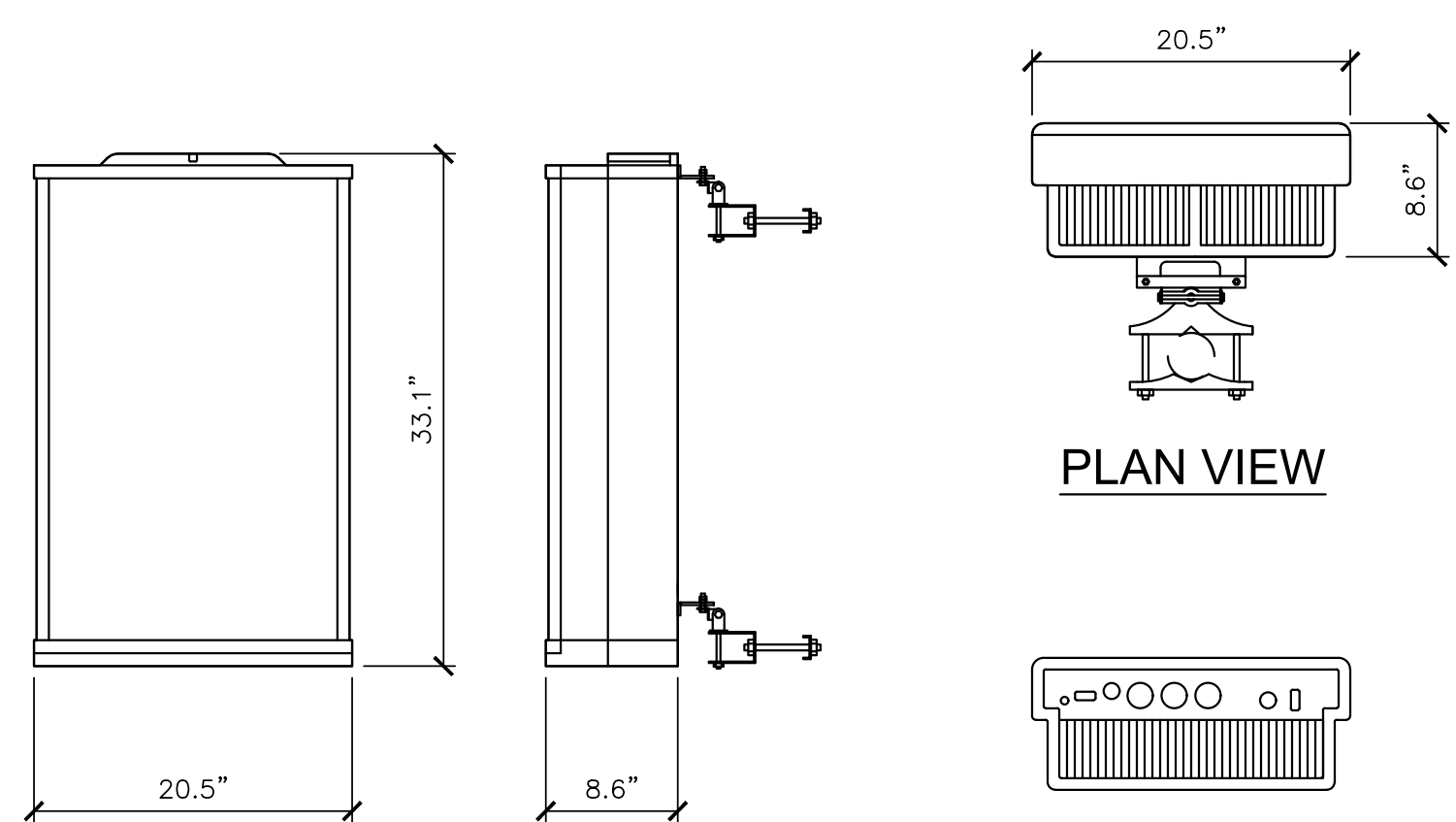
NEW RRUS 4449 PER PLAN

N.T.S.      RADIO MOUNTING BRACKET      5



RRU SPECIFICATIONS  
MANUFACTURER: ERICSSON  
MODEL: RRUS-4415  
HEIGHT: 16.5"  
WIDTH: 13.4"  
DEPTH: 5.9"  
WEIGHT: 46 LBS

N.T.S.      ERICSSON RADIO 4415 DETAIL      3



ANTENNA SPECIFICATIONS  
MANUFACTURER: ERICSSON  
MODEL: AIR 6449  
HEIGHT: 33.1"  
WIDTH: 20.5"  
DEPTH: 8.6"  
WEIGHT: 104 LBS


N.T.S.      ERICSSON AIR 6449 ANTENNA DETAILS      1

REVISIONS			
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PALO ALTO HOLE

SF04141A

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PALO ALTO, CA 94303



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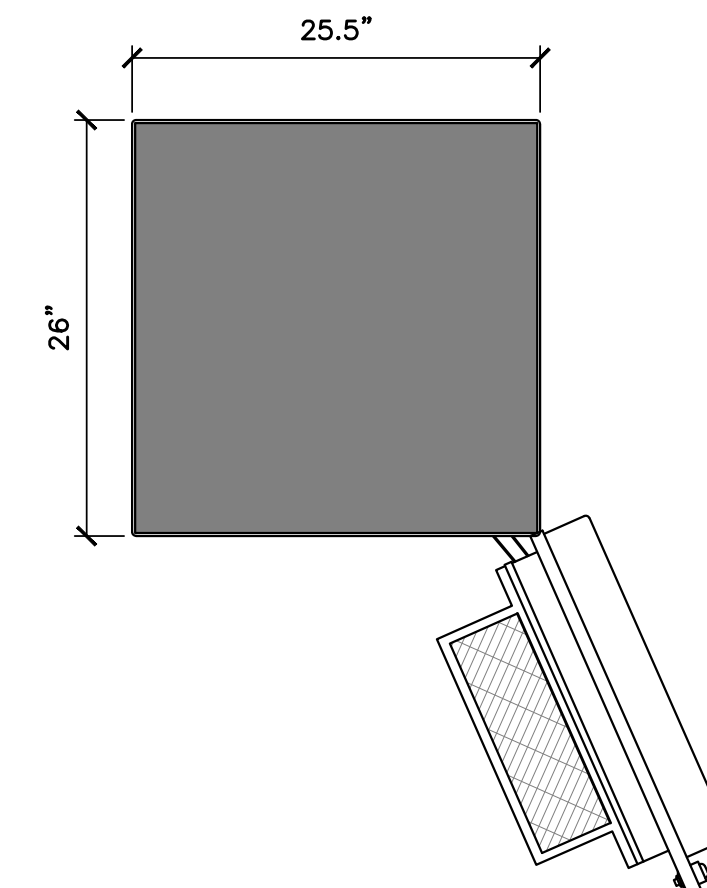
PALO ALTO HOLE  
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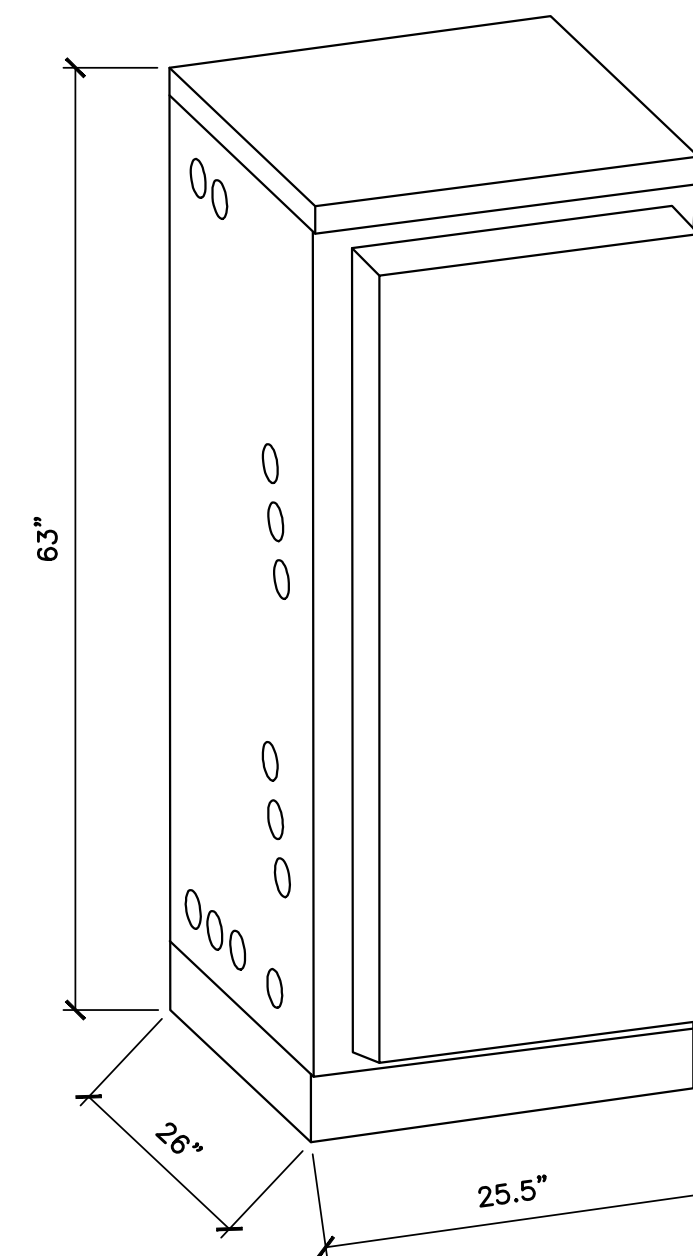
SHEET NUMBER  
**A-5**

VARIABLE PARTS TABLE						
ASSEMBLY "A"	QTY "B"	PART "C"	LENGTH "D"	UNIT WT. "E"	NET WT. "F"	TOTAL WEIGHT
SCP08K	4	G12R-8	8"	.45	1.78	13.23
SCP10K	4	G12R-10	10"	.56	2.23	13.66

<u>B160 SPECIFICATIONS</u>	
MANUFACTURER:	ERICSSON
MODEL:	B160
HEIGHT:	63"
WIDTH:	25.5"
DEPTH:	26"
WEIGHT:	295 LBS (EMPTY)
WEIGHT:	1883 LBS MAX. (W/ 3 BATTERY STRINGS)



### PLAN VIEW



ISOMETRIC VIEW

NOT USED	6
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N.T.S.

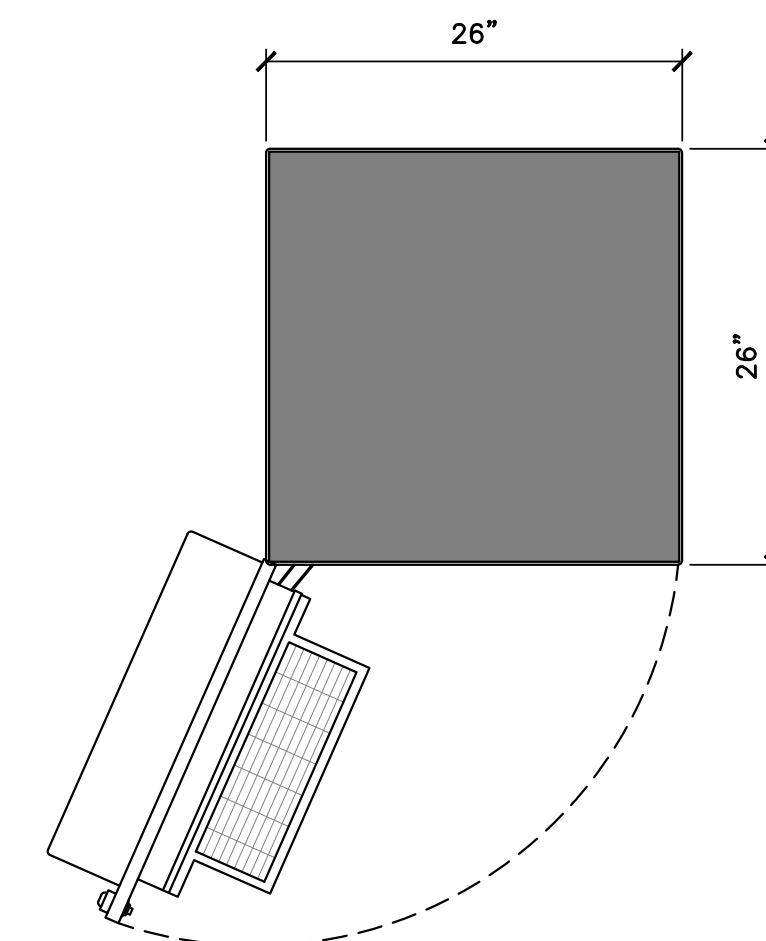
PIPE-PIPE CLAMP SET # SCP10K

4	N.T.S.
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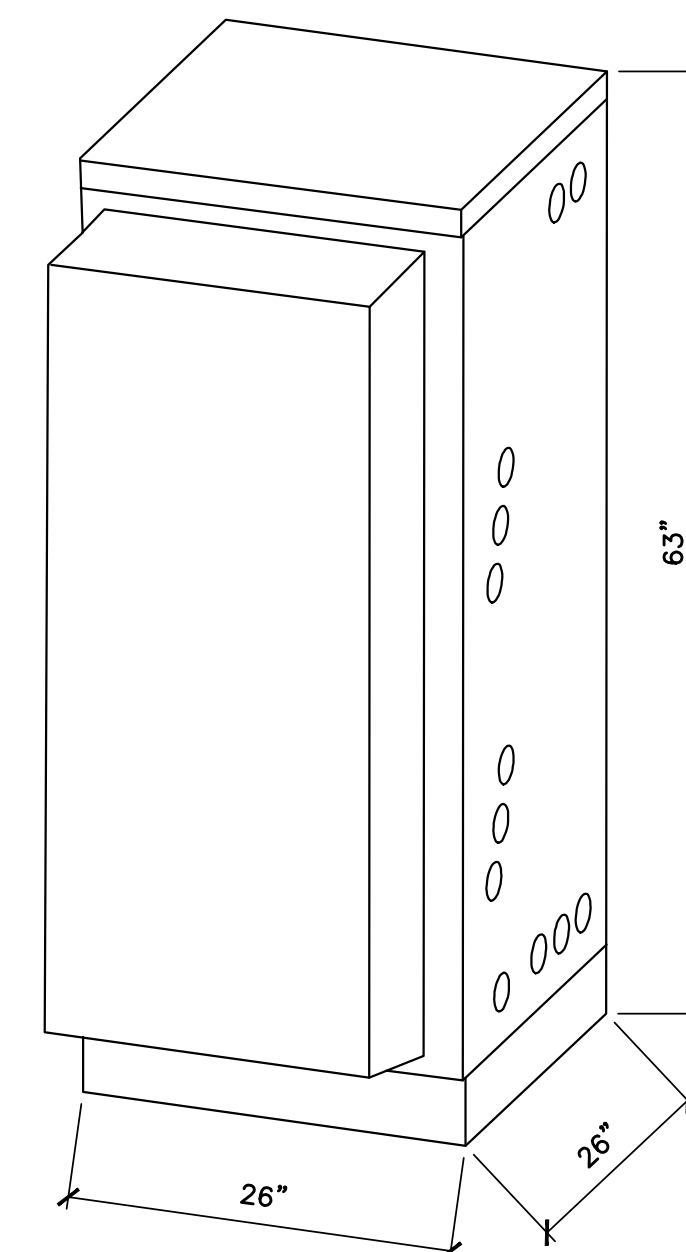
ERICSSON B160 DETAIL 2

SSC 6160 SPECIFICATIONS	
MANUFACTURER:	ERICSSON
MODEL:	6160
HEIGHT:	63"
WIDTH:	26"
DEPTH:	26"

WEIGHT: 320 LBS (EMPTY)  
EQUIP: 120 LBS  
TOTAL: 440 LBS



### PLAN VIEW



ISOMETRIC VIEW

NOT USED	5
----------	---

N.T.S.

CABINET TO CONCRETE MOUNTING 3

3	N.T.S.
---	--------

ERICSSON SSC 6160 DETAIL | 1

1







EXISTING ANTENNA SCHEDULE										
POSITION		ANTENNA			ANTENNA AZIMUTH	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE LENGTH	JUMPERS
		TECH	MODEL	SIZE						
ALPHA SECTOR	A1	L700/L600 N600 U1900 G1900 L2100	APXVAARR18_43-U-NA20 (OCTO)	6'-0"	10°	32'-0"	4449 B71+B85 RADIO	(4) 7/8" COAX	±80°	(8) COAX
BETA SECTOR	B1	L700/L600 N600 U1900 G1900 L2100	APXVAARR18_43-U-NA20 (OCTO)	6'-0"	170°	32'-0"	4449 B71+B85 RADIO	(4) 7/8" COAX	±80°	(8) COAX
GAMMA SECTOR	C1	L700/L600 N600 U1900 G1900 L2100	APXVAARR18_43-U-NA20 (OCTO)	6'-0"	280°	32'-0"	4449 B71+B85 RADIO	(4) 7/8" COAX	±80°	(8) COAX
TOTAL		(3) APXVAARR18_43-U-NA20 (OCTO)					(3) 4449 B71+B85 RADIO	(12) 7/8" COAX CABLES		(24) COAX

NEW ANTENNA SCHEDULE										
POSITION		ANTENNA			ANTENNA AZIMUTH	RAD CENTER	TMA/RRU	CABLE TYPE	CABLE LENGTH	JUMPERS
		TECH	MODEL	SIZE						
ALPHA SECTOR	A1	L700/L600 N600 U1900 L1900 G1900 L2100	APXVAARR18_43-U-NA20 (OCTO)	6'-0"	10°	32'-0"	RRU 4449 B71+B85 RRU 4424 B25 RRU 4415 B66A	(1) HCS 6x12 6AWG SHARED	40m	(8) FIBER (12) COAX
	A2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	10°	32'-0"	-	(1) HCS 6x12 6AWG SHARED	40m	(4) FIBER
BETA SECTOR	B1	L700/L600 N600 U1900 L1900 G1900 L2100	APXVAARR18_43-U-NA20 (OCTO)	6'-0"	170°	32'-0"	RRU 4449 B71+B85 RRU 4424 B25 RRU 4415 B66A	(1) HCS 6x12 6AWG SHARED	40m	(8) FIBER (12) COAX
	B2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	170°	32'-0"	-	(1) HCS 6x12 6AWG SHARED	40m	(4) FIBER
GAMMA SECTOR	C1	L700/L600 N600 U1900 L1900 G1900 L2100	APXVAARR18_43-U-NA20 (OCTO)	6'-0"	280°	32'-0"	RRU 4449 B71+B85 RRU 4424 B25 RRU 4415 B66A	(1) HCS 6x12 6AWG SHARED	40m	(8) FIBER (12) COAX
	C2	L2500 N2500	ERICSSON AIR6449 B41	2'-9"	280°	32'-0"	-	(1) HCS 6x12 6AWG SHARED	40m	(4) FIBER
TOTAL		(3) APXVAARR18_43-U-NA20 (OCTO) (3) ERICSSON AIR6449 B41					(3) RRU 4449 B71+B85 (3) RRU 4424 B25 (3) RRU 4415 B66A	(2) HCS 6x12 6AWG	(36) FIBER (36) COAX	

NOTE:  
1. DO NOT USE RFDS COAX/CAB/E/FIBER LENGTHS FOR CUT LENGTHS; ESTIMATES ONLY.  
2. CONFIRM THAT THE GENERAL CONTRACTOR IS USING LATEST VERSION OF RFDS

T-Mobile®

T-MOBILE WEST LLC  
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CONCORD, CA 94520



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CHECKED BY: CH

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SHEET TITLE  
ANTENNA SCHEDULES

SHEET NUMBER

RF-1



RAN Template:  
67D5A98C Hybrid

A&L Template:  
67D5998C\_1uAR+1QP+1OP

SF04141A\_Anchor\_7

Print Name: Standard

POB: Anchor\_Phase 3

Section 5 - RAN Equipment

Existing RAN Equipment

Template: 67D54B Hybrid

Enclosure

1

Enclosure Type

RBS 6102

Baseband

DUW30  
(U1900)

DUG20  
(G1900)

BB 6630  
(N600)

BB 6630  
(L700  
L600  
L2100)

Hybrid Cable System

Ericsson 6x12 HCS 6AWG 40m

Radio

RUS01 B2 (x 3)  
(G1900)

RUS01 B2 (x 3)  
(U1900)

RUS01 B4 (x 4)  
(L2100)

Proposed RAN Equipment

Template: 67D5A998C Hybrid

Enclosure

1

2

3

Enclosure Type

RBS 6102

Enclosure 6100

6100

Baseband

DUW30  
(U1900)

DUG20  
(G1900)

BB 6630  
(L700  
L600  
L1900  
N600)

BB 6630  
(L2100)

BB 6640  
(N2500)

BB 6630  
(L2500)

Hybrid Cable System

Ericsson 6x12 HCS 6AWG 40m (x 2)

PSU 4813 Ericsson 6x12 HCS 6AWG 40m

RAN Scope of Work:

Anchor SOW:-  
Remove existing all ground radials.  
Add (1) 6100 and (1) 6100 enclosures  
Add (1) BB 6630 for L2 5G and add (1) BB 6640 for N2 5G.  
Add (1) PSU 4813 and (1) VME  
Add (2) 6x12 HCS  
Updated MM-SSB for Low band.

RAN Template:  
67D5A98C Hybrid

A&L Template:  
67D5998C\_1uAR+1QP+1OP

SF04141A\_Anchor\_7

Print Name: Standard

POB: Anchor\_Phase 3

Sector 1 (Proposed) view from behind

Coverage Type

A - Outdoor Macro

Antenna

1

2

Antenna Model

RFS - APXUAARR18\_43-U-NA20 (Octo)

Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)

Azimuth

10

10

M. Tilt

0

0

Height

32

32

Ports

P1

P2

P3

P4

P5

P6

Active Tech.

L700 L600  
N600

L700 L600  
N600

L2100 L1900  
G1900 U1900

L2100 L1900  
G1900 U1900

L2500 N2500

L2500 N2500

Dark Tech.

Restricted Tech.

Decomm. Tech.

E. Tilt

0

0

0

0

0

0

Cables

Coax Jumper (x2)  
Fiber Jumper

Coax Jumper (x2)  
Fiber Jumper

JUMPER 3 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)  
Fiber Jumper - 9 ft.  
(x2)  
JUMPER 8 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)

JUMPER 3 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)  
Fiber Jumper - 9 ft.  
(x2)  
JUMPER 8 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)

Fiber Jumper - 9 ft. (x2)

Fiber Jumper - 9 ft. (x2)

TMA

Diplexers / Combiners

Commscope -  
SOV19201-43  
(E1AF05P85)  
(AI Antenna)

Commscope -  
SOV19201-43  
(E1AF05P85)  
(AI Antenna)

Radio

Radio 4449  
B71+B85 (AI  
Antenna)

Radio 4424 B25  
(AI Antenna)

Radio 4415 B66A  
(AI Antenna)

Sector Equipment

Unconnected Equipment:

Scope of Work:

Anchor SOW:-  
Remove all existing TMAs.  
Add (1) Radio 4415 B96A  
Add (1) Radio 4424 B25  
Add (2) diplexer, duplex radio 4424 with radio 4415  
Add (1) AIR6449 B41

RAN Template:  
67D5A98C Hybrid

A&L Template:  
67D5998C\_1uAR+1QP+1OP

SF04141A\_Anchor\_7

Print Name: Standard

POB: Anchor\_Phase 3

Sector 2 (Proposed) view from behind

Coverage Type

A - Outdoor Macro

Antenna

1

2

Antenna Model

RFS - APXUAARR18\_43-U-NA20 (Octo)

Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)

Azimuth

170

170

M. Tilt

0

0

Height

32

32

Ports

P1

P2

P3

P4

P5

P6

Active Tech.

L700 L600  
N600

L700 L600  
N600

L2100 G1900  
U1900 L1900

L2100 G1900  
U1900 L1900

L2500 N2500

L2500 N2500

Dark Tech.

Restricted Tech.

Decomm. Tech.

E. Tilt

0

0

0

0

0

0

Cables

Coax Jumper (x2)  
Fiber Jumper

Coax Jumper (x2)  
Fiber Jumper

JUMPER 3 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)  
Fiber Jumper - 9 ft.  
(x2)  
JUMPER 8 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)

JUMPER 3 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)  
Fiber Jumper - 9 ft.  
(x2)  
JUMPER 8 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)

Fiber Jumper - 9 ft. (x2)

Fiber Jumper - 9 ft. (x2)

TMA

Diplexers / Combiners

Commscope -  
CBC19201-43  
(AI Antenna)

Commscope -  
CBC19201-43  
(AI Antenna)

Radio

Radio 4449  
B71+B85 (AI  
Antenna)

Radio 4424 B25  
(AI Antenna)

Radio 4415 B66A  
(AI Antenna)

Sector Equipment

Unconnected Equipment:

Scope of Work:

Anchor SOW:-  
Remove all existing TMAs.  
Add (1) Radio 4415 B66A  
Add (1) Radio 4424 B25  
Add (2) diplexer, duplex radio 4424 with radio 4415  
Add (1) AIR6449 B41

RAN Template:  
67D5A98C Hybrid

A&L Template:  
67D5998C\_1uAR+1QP+1OP

SF04141A\_Anchor\_7

Print Name: Standard

POB: Anchor\_Phase 3

Sector 3 (Proposed) view from behind

Coverage Type

A - Outdoor Macro

Antenna

1

2

Antenna Model

RFS - APXUAARR18\_43-U-NA20 (Octo)

Ericsson - AIR6449 B41 (Active Antenna - Massive MIMO)

Azimuth

280

280

M. Tilt

0

0

Height

32

32

Ports

P1

P2

P3

P4

P5

P6

Active Tech.

L700 L600  
N600

L700 L600  
N600

L2100 G1900  
U1900 L1900

L2100 G1900  
U1900 L1900

L2500 N2500

L2500 N2500

Dark Tech.

Restricted Tech.

Decomm. Tech.

E. Tilt

0

0

0

0

0

0

Cables

Coax Jumper (x2)  
Fiber Jumper

Coax Jumper (x2)  
Fiber Jumper

JUMPER 3 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)  
Fiber Jumper - 9 ft.  
(x2)  
JUMPER 8 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)

JUMPER 3 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)  
Fiber Jumper - 9 ft.  
(x2)  
JUMPER 8 FT  
SUREFLEX 4.3-10  
TO 4.3-10 (x4)

Fiber Jumper - 9 ft. (x2)

Fiber Jumper - 9 ft. (x2)

TMA

Diplexers / Combiners

Commscope -  
CBC19201-43  
(AI Antenna)

Commscope -  
CBC19201-43  
(AI Antenna)

Radio

Radio 4449  
B71+B85 (AI  
Antenna)

Radio 4424 B25  
(AI Antenna)

Radio 4415 B66A  
(AI Antenna)

Sector Equipment

Unconnected Equipment:

Scope of Work:

Anchor SOW:-  
Remove all existing TMAs.  
Add (1) Radio 4415 B96A  
Add (1) Radio 4424 B25  
Add (2) diplexer, duplex radio 4424 with radio 4415  
Add (1) AIR6449 B41



DRAWN BY:

SC

CHECKED BY:

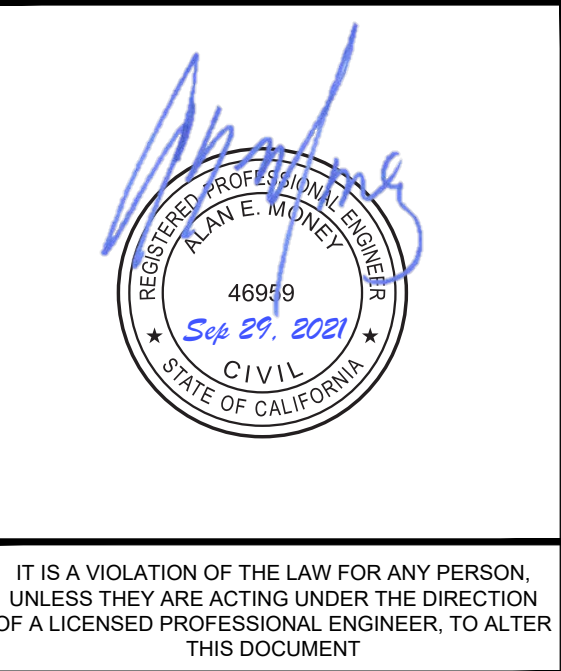
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REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	10/16/20	ISSUED FOR 90% CD REVIEW	SC
0	11/12/20	100% CD	SC
1	01/04/21	RADOME UPDATE	JAF
2	01/07/21	CITY COMMENTS	RGL
3	09/29/21	CITY COMMENTS	RGL
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET			

PALO ALTO HOLE

SF04141A

2666 E BAYSHORE RD  
PALO ALTO, CA 94303



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

SHEET TITLE

RFDS INFORMATION

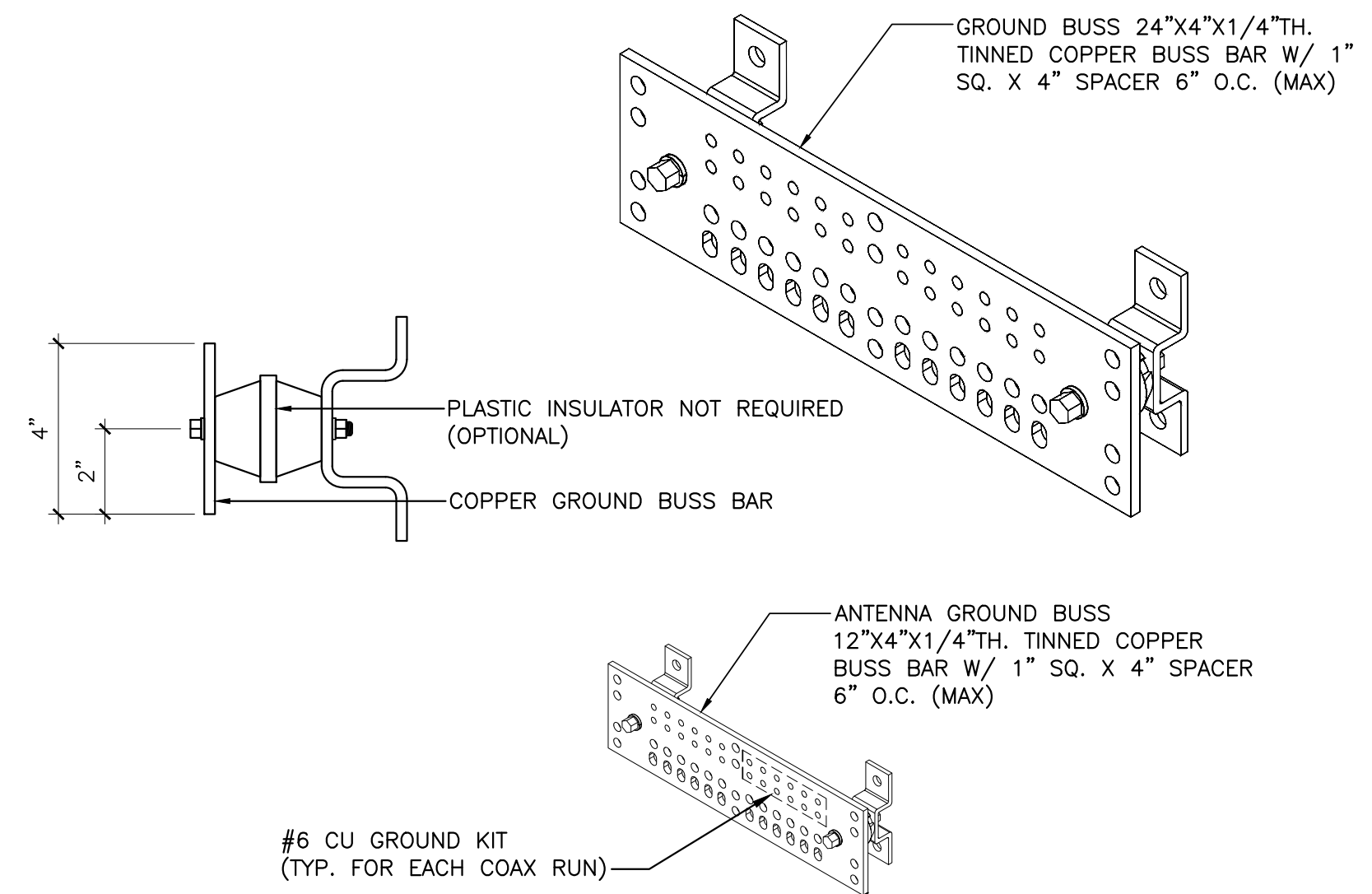
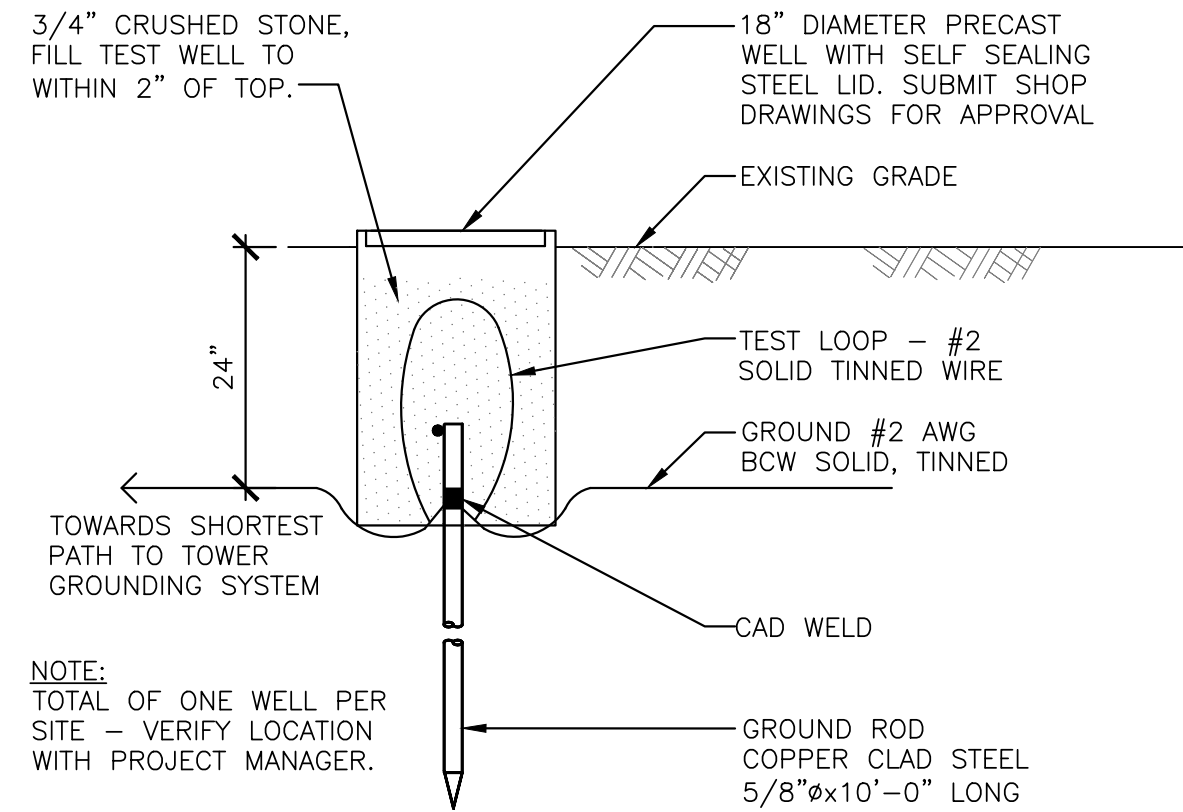
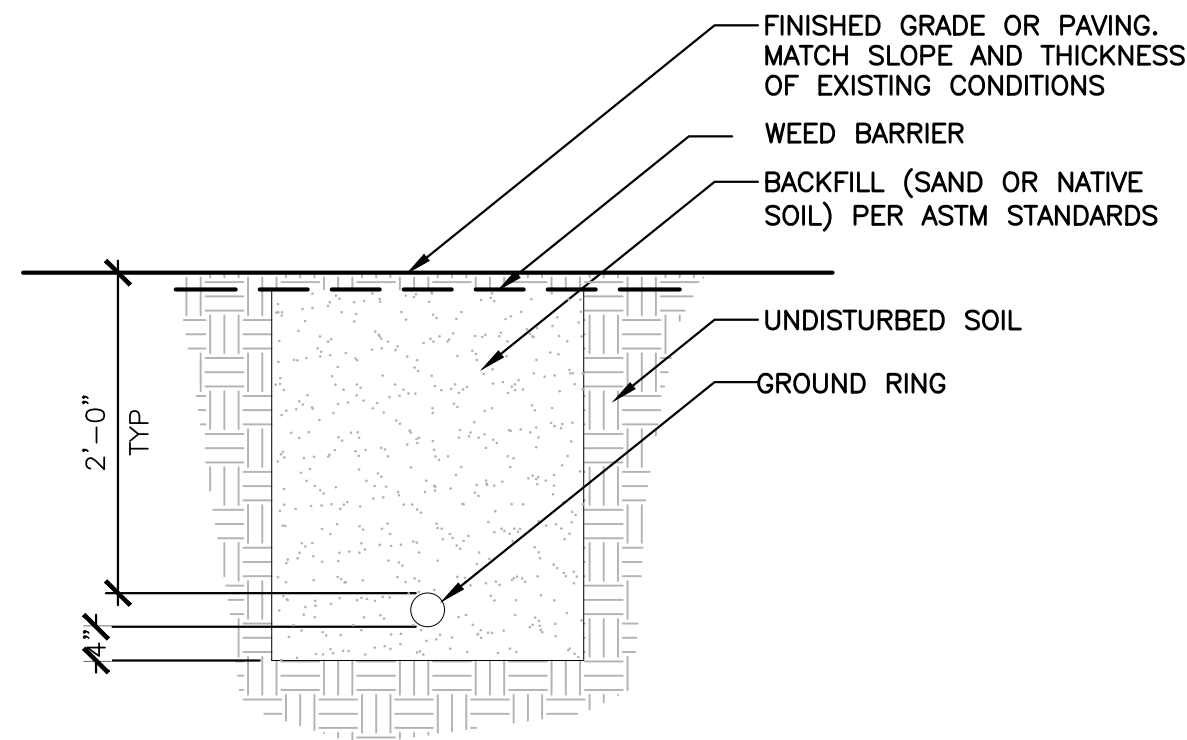
SHEET NUMBER

RF-2









**T-Mobile®**  
T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520



**SURESITE**

3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122

DRAWN BY:	SC
CHECKED BY:	CH

REVISIONS			
NO.	DATE	DESCRIPTION	INITIAL
A	10/16/20	ISSUED FOR 90% CD REVIEW	SC
0	11/12/20	100% CD	SC
1	01/04/21	RADOME UPDATE	JAF
2	01/07/21	CITY COMMENTS	RGL
3	09/29/21	CITY COMMENTS	RGL
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET			

PALO ALTO HOLE

SF04141A

2666 E BAYSHORE RD  
PALO ALTO, CA 94303

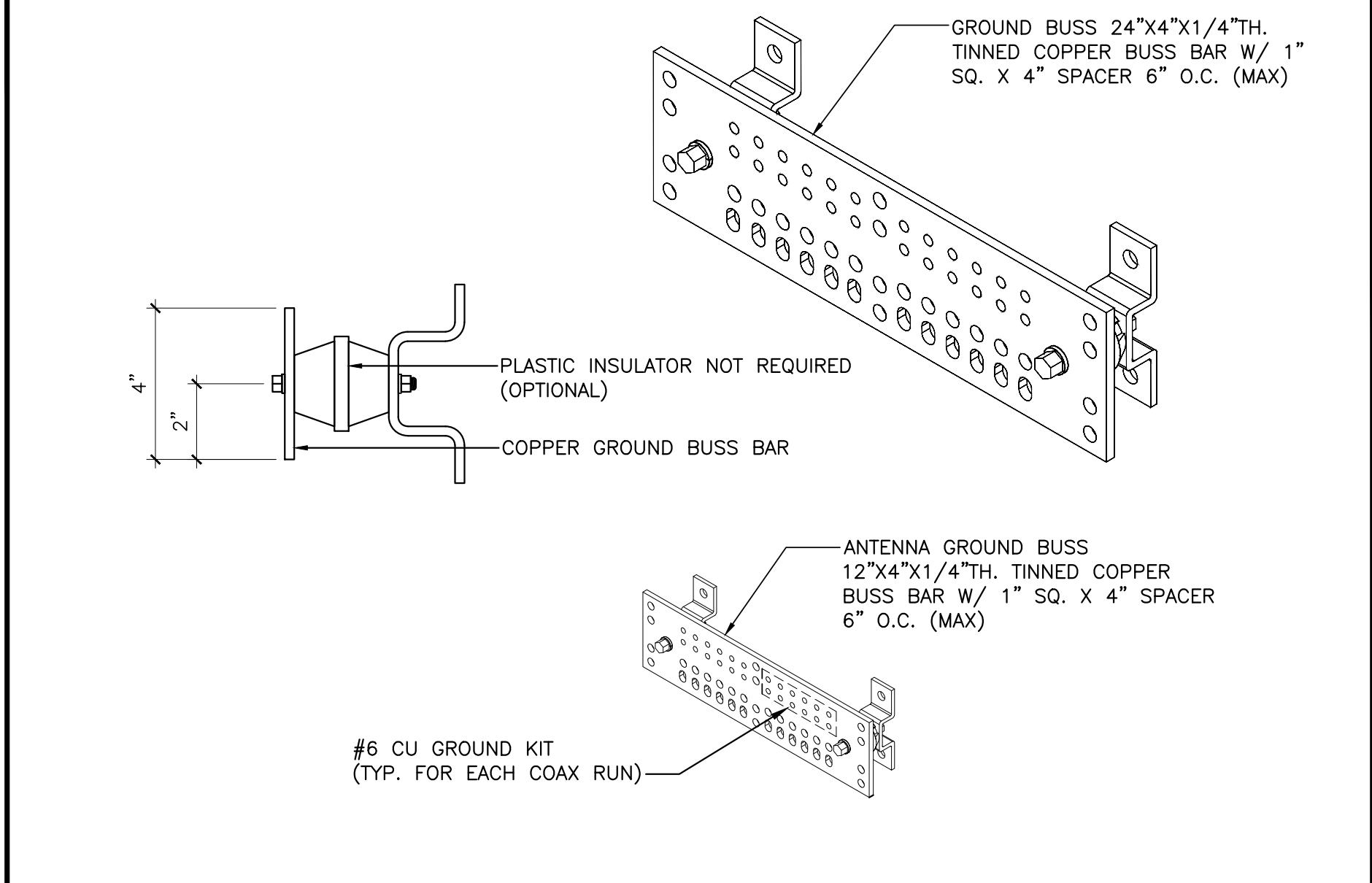
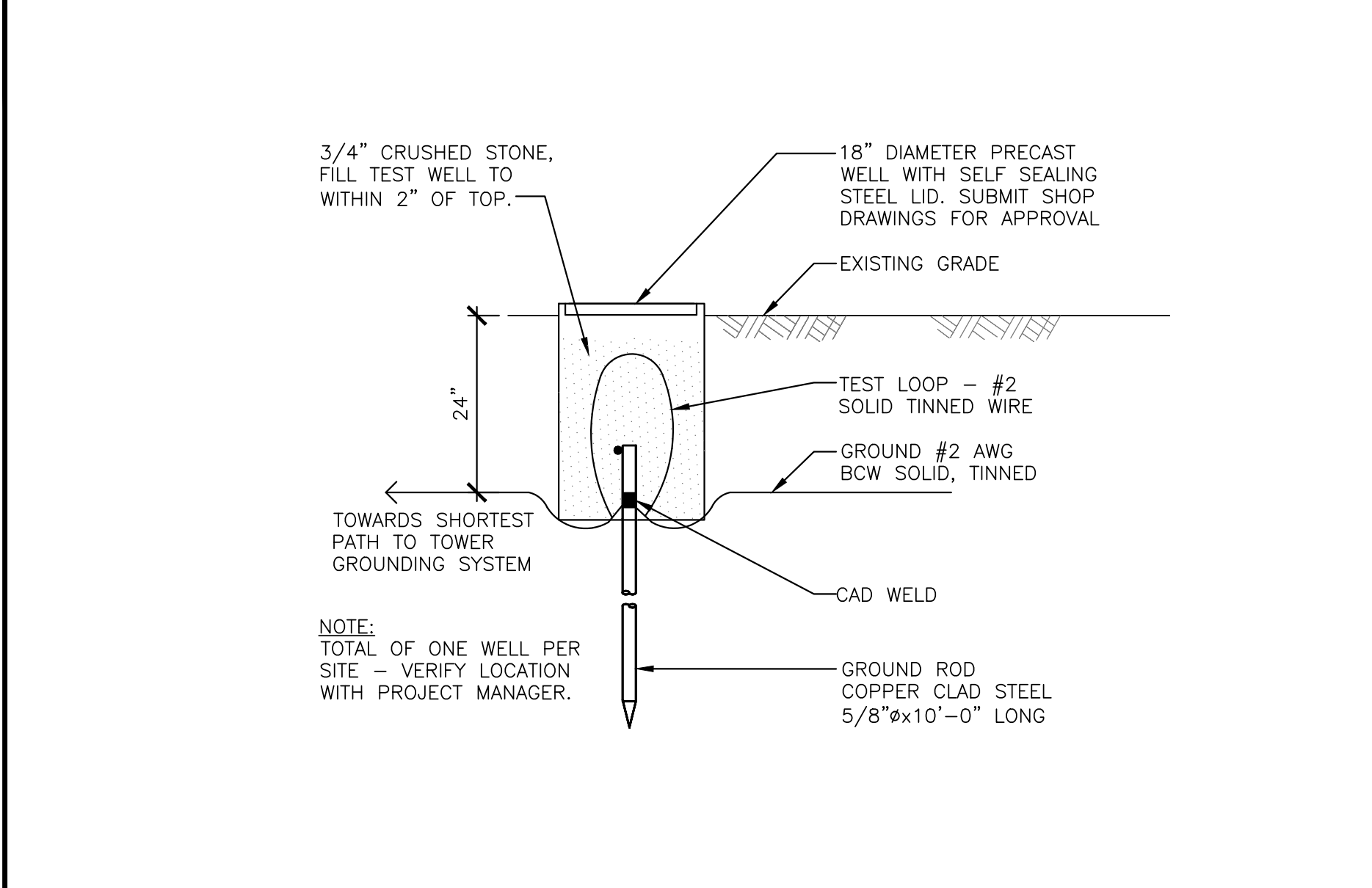
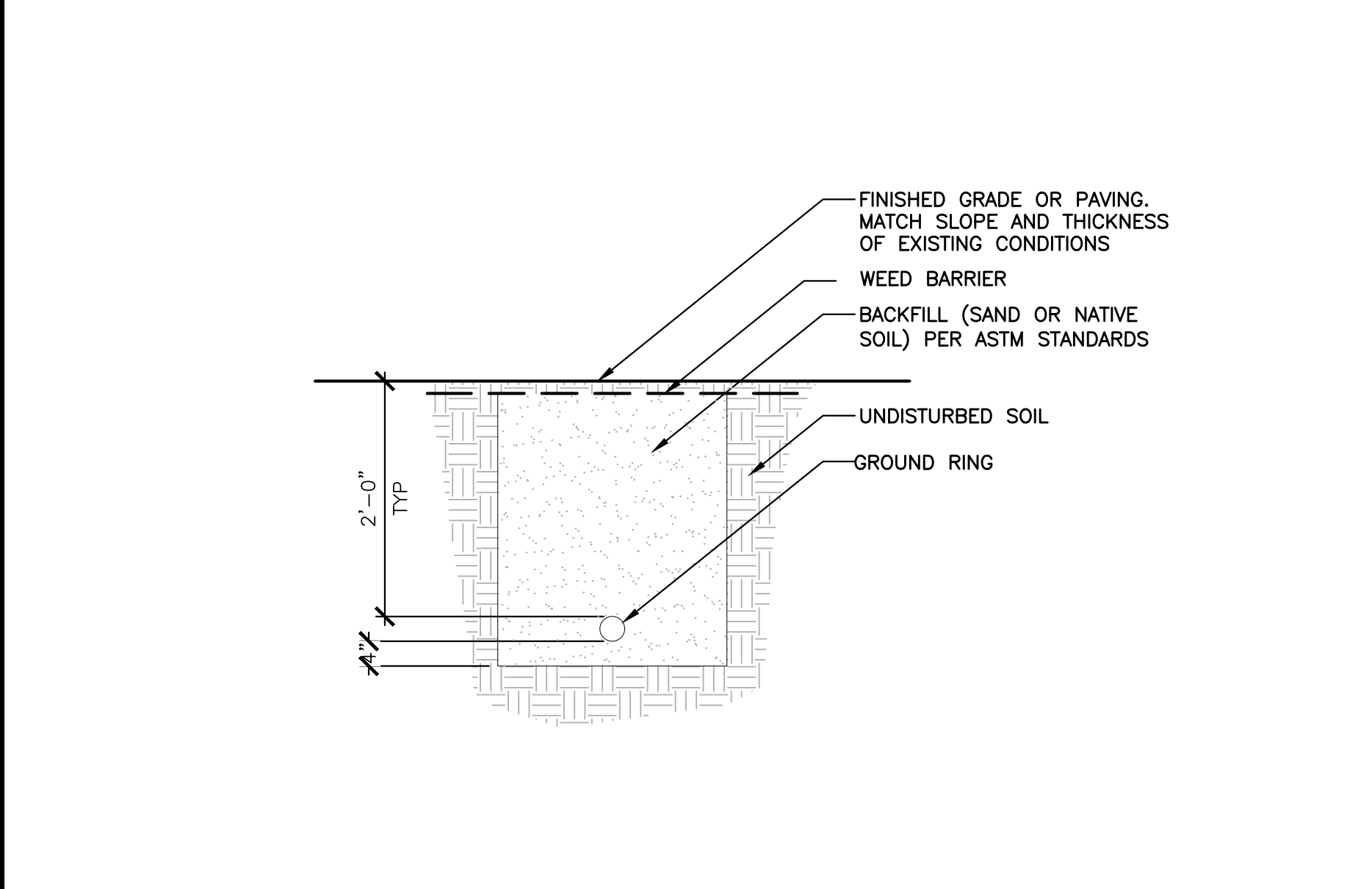
A circular professional engineer seal for Alan E. Money, State of California. The seal contains the text "REGISTERED PROFESSIONAL ENGINEER", "ALAN E. MONEY", "46959", "Sep 29, 2021", "CIVIL", and "STATE OF CALIFORNIA". There are two stars on the seal. A blue ink signature is written across the top of the seal.

# SHEET TITLE

## GROUNDING DETAILS

SHEET NUMBER

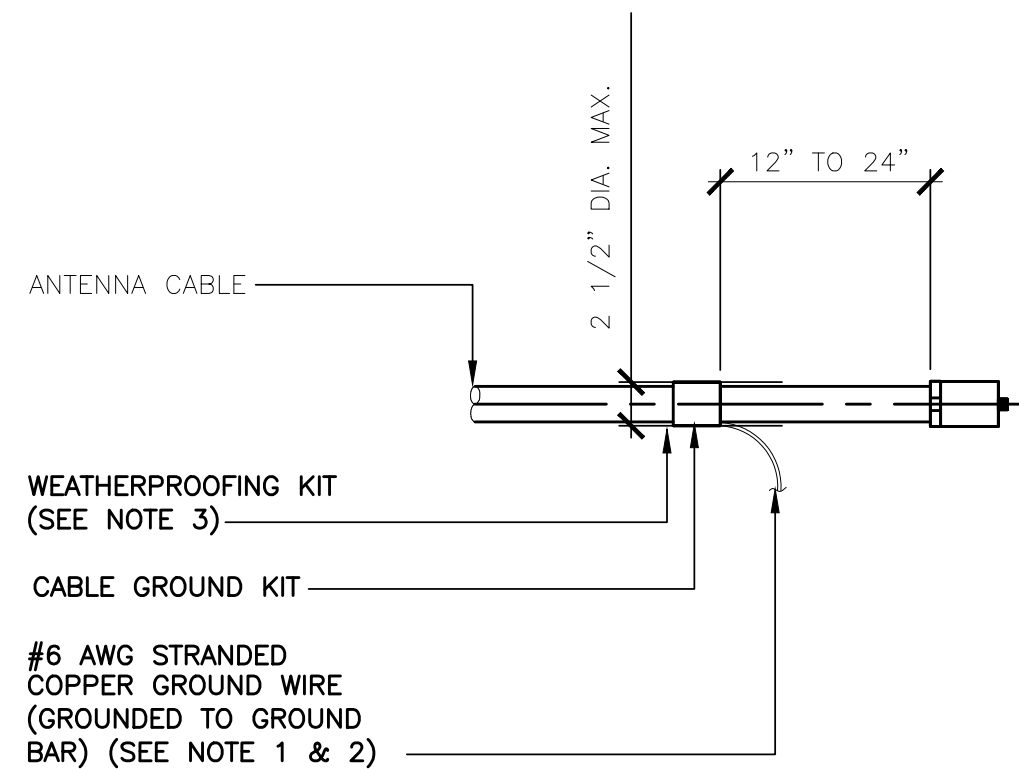
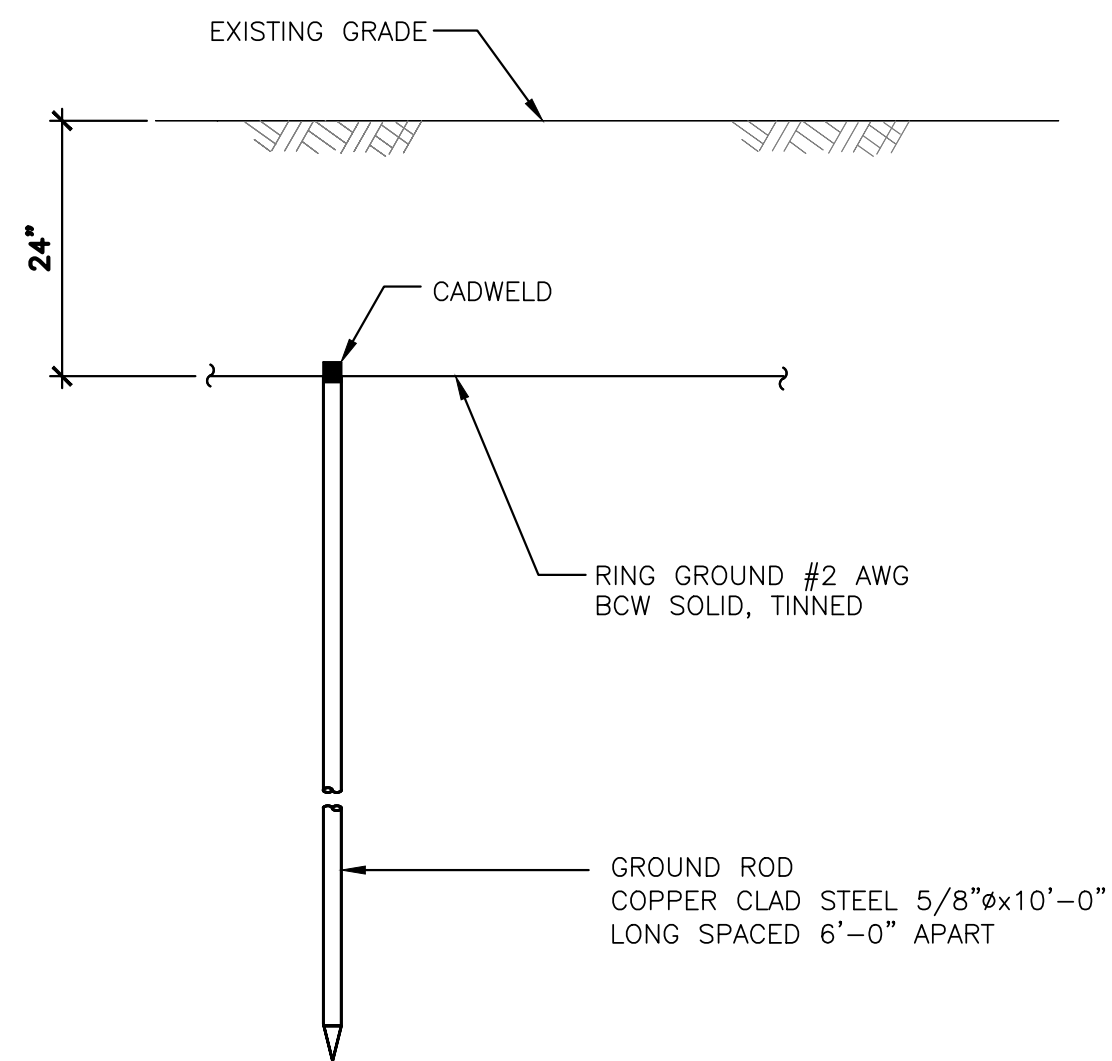
**G-2**



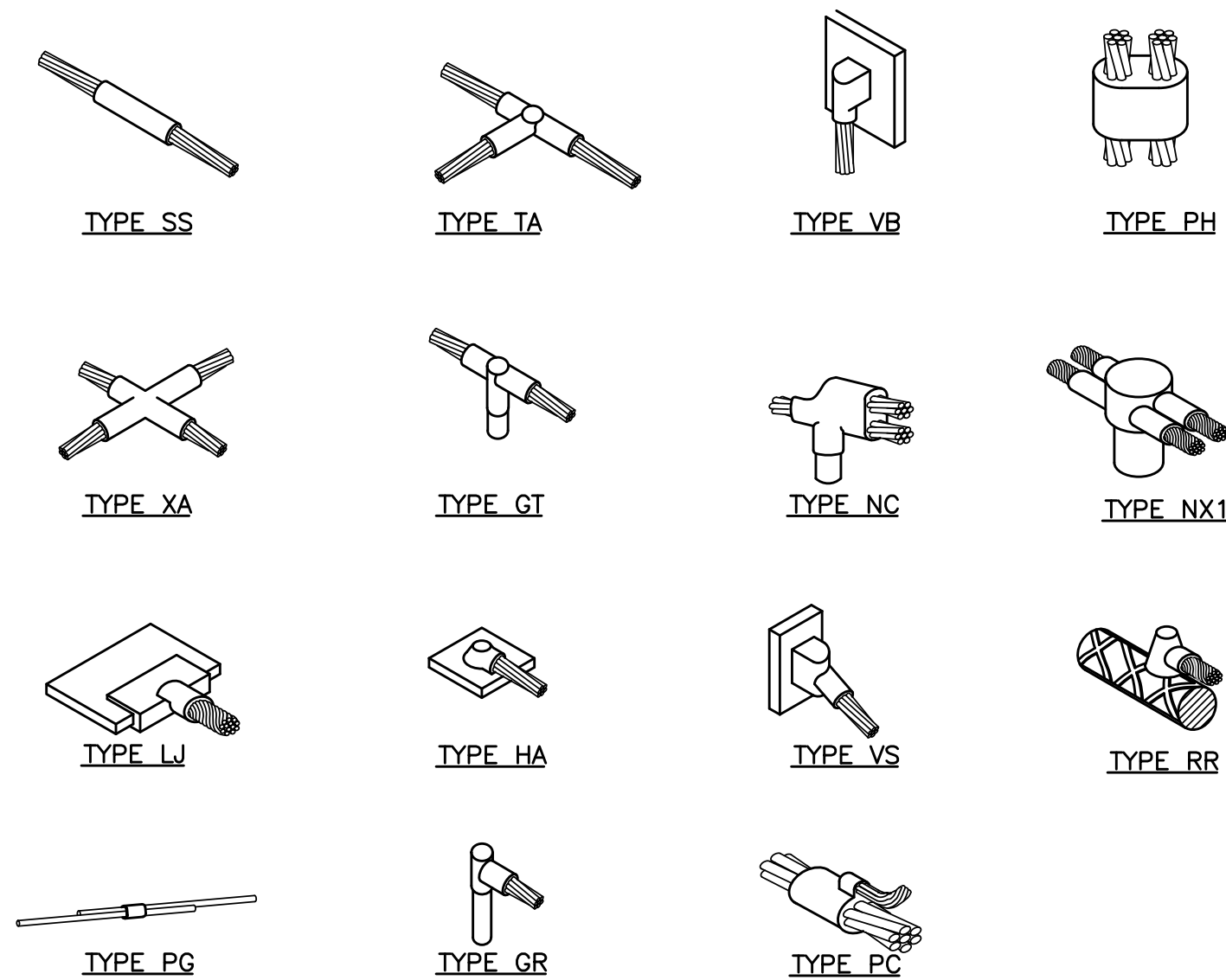
N.T.S.	POWER/TELCO TRENCH DETAIL	9
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N.T.S.	TEST WELL DETAIL	6
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N.T.S.	GROUND BAR DETAIL	3
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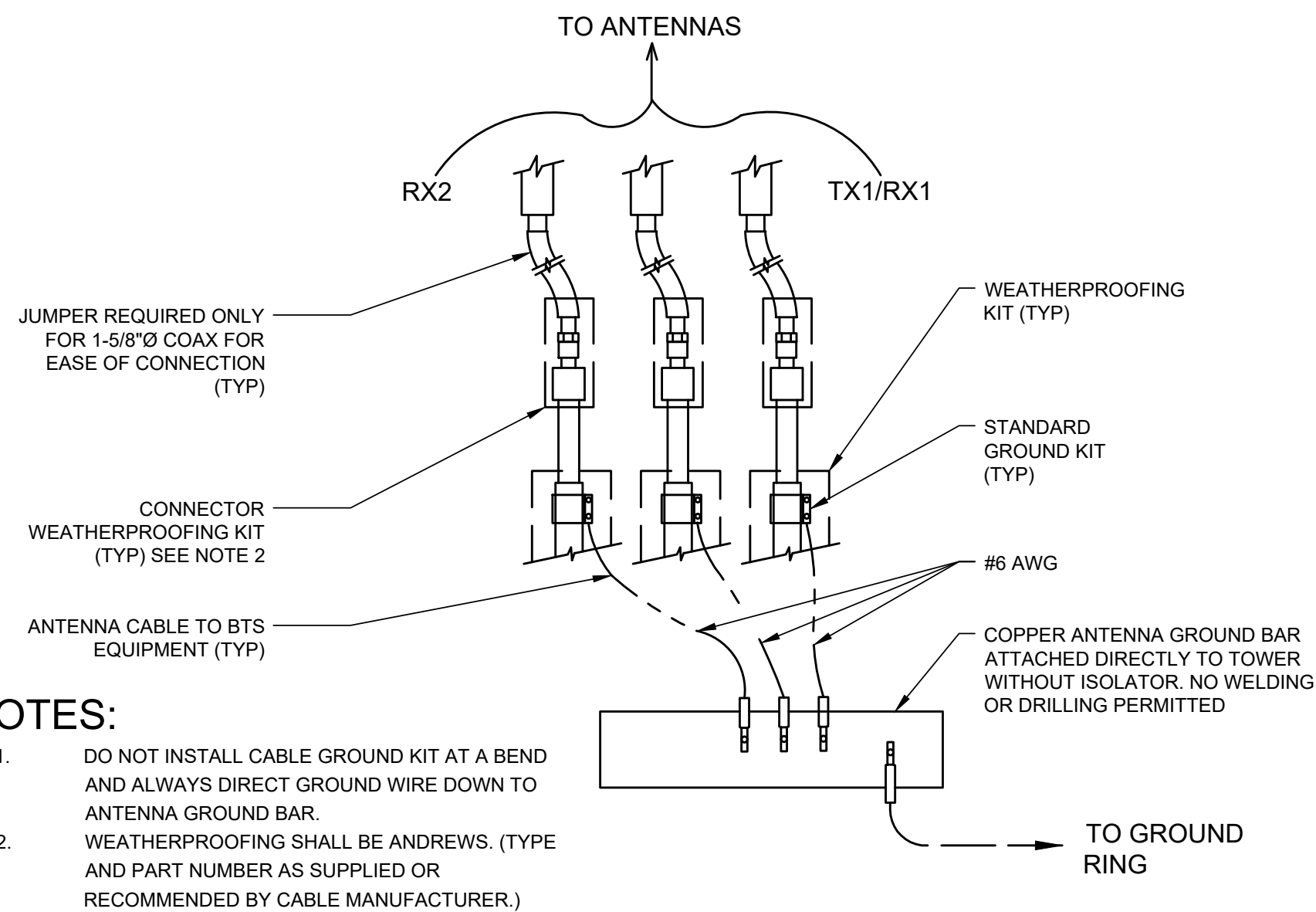
- NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
  2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.
  3. WEATHER PROOFING SHALL BE TWO-PART TAPE KIT, COLD SHRINK SHALL NOT BE USED.



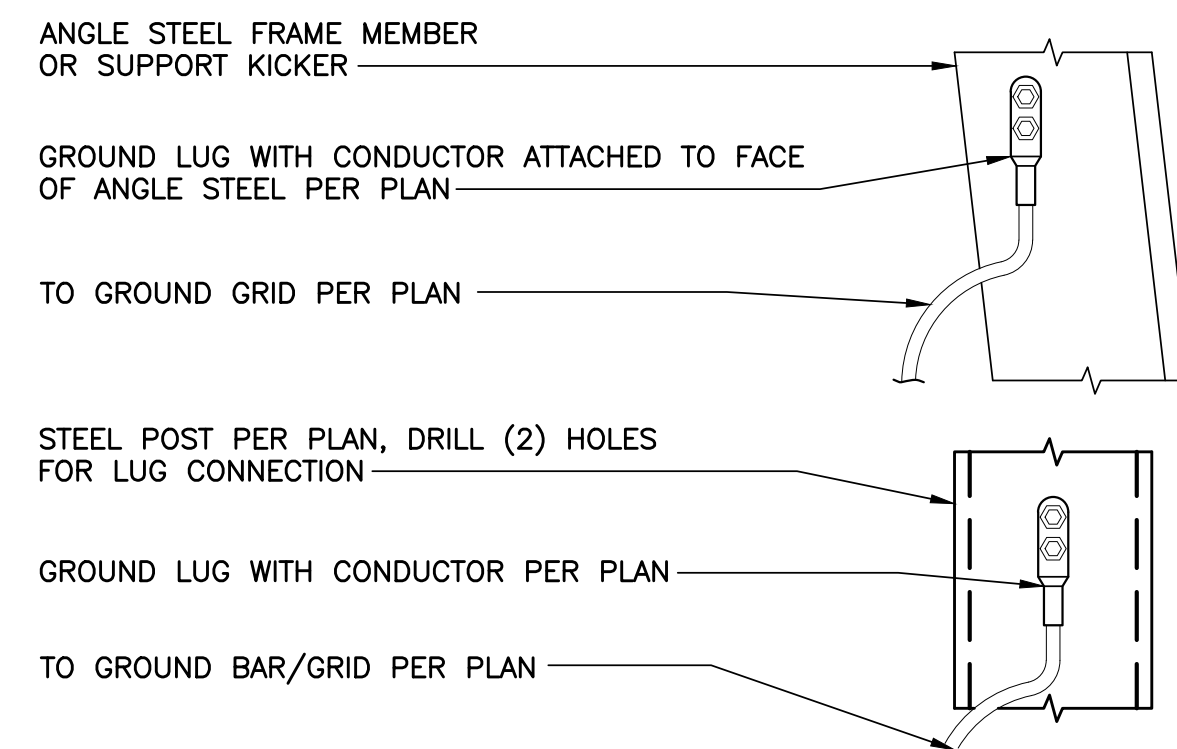
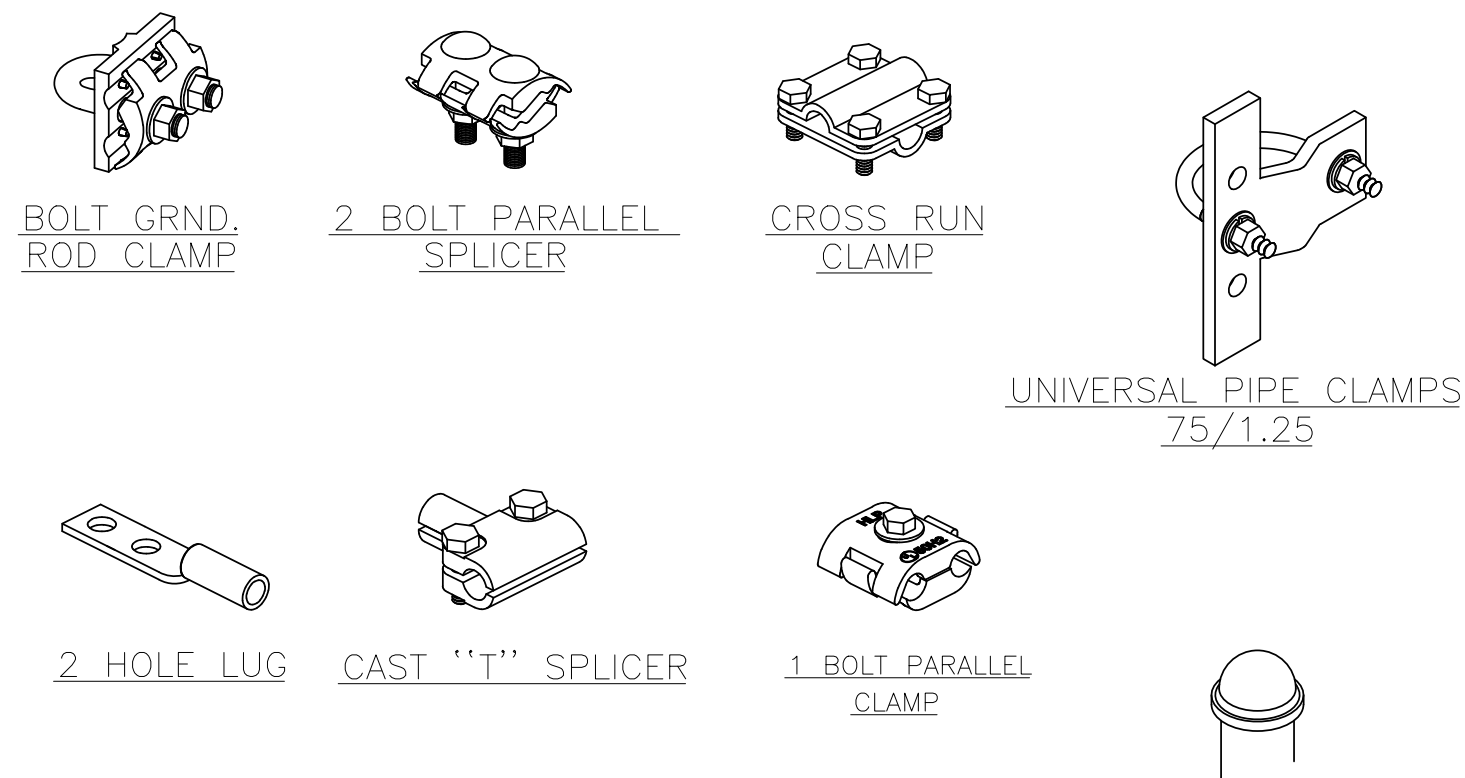
N.T.S.	GROUND ROD DETAIL	8
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N.T.S.	CABLE GROUND KIT DETAIL	5
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N.T.S.	CADWELD CONNECTION DETAIL	2
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- ## NOTES:
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
  2. WEATHERPROOFING SHALL BE ANDREWS. (TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.)



N.T.S.	CABLE GROUND SCHEMATIC	7
--------	------------------------	---

N.T.S.	GROUND CLAMP DETAIL	4
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N.T.S.	FRAME GROUNDING DETAIL	1
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ELECTRIC NOTES:

1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NEC AS WELL AS ALL APPLICABLE STATE & LOCAL CODES.
2. CONTRACTOR SHALL FURNISH & INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, & PERFORM ALL TRENCHING & BACKFILLING REQUIRED IN THE PLANS
3. ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED & PROCURED PER PLAN SPECIFICATIONS.
4. ALL CIRCUIT BREAKERS, FUSES, & ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRHPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED W/ A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED
5. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
6. ELECTRICAL WIRING SHALL BE COPPER #12 MIN W/ TYPE XHHW, THWN, OR THHN INSULATION
7. ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
8. ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
9. A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
10. WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE & HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.

ELECTRICAL NOTES

2

EXISTING PANELBOARD SCHEDULE					” A ”		LOCATION: EQUIPMENT AREA	
					C.B. RATING		10,000 A.I.C.	
VOLTAGE: 120/240 V., 1Ø, 3 W.		MAINS: 100A			MOUNTING: SURFACE		TYPE: GE A.Q. OR EQUAL	
USE and/or AREA SERVED	C/B	CIR NO	LOAD		CIR NO	C/B	USE and/or AREA SERVED	
			øA	øB				
MAIN	100	1	0		2	50	BTS 1 (OFF)	
	2P	3		0	4	2P		
LIGHT	20/1	5	960		6	50	BTS 2 (OFF)	
			0					
PLUG	20/1	7		580	8	2P		
-	-	9	-	0	10	100	UMTS	
-	-	11	4600	-	12	2P		
-	-	13	-	4600	14	-		
-	-	15	-	-	16	-		
-	-	17	-	-	18	-	-	
-	-	19	-	-	20	-	-	
TOTAL LOAD PER PHASE			5560	5180	10,740 VA ÷240V = 44.8 AMPS			

\* LOAD AT 125% PER N.E.C.    □ LOCK ON DEVICES ON C.B.'s

EXISTING PANEL SCHEDULE

3

NEW PANELBOARD SCHEDULE					"PCC"		"LOCATION: EQUIPMENT AREA"	
					C.B. RATING		65,000 A.I.C.	
VOLTAGE: 120/240 V., 1Ø, 3 W.		MAINS: 200A			MOUNTING: H-FRAME		TYPE: GE A.Q. OR EQUAL	
USE and/or AREA SERVED	C/B	CIR NO	LOAD		CIR NO	C/B	USE and/or AREA SERVED	
			ØA	ØB				
UMTS	100A	1	4600		2	00/2	E6160	
			8640					
	2P	3		4600	4			
				8640				
LIGHT	20/1	5	960		6	15/1	GFI	
			580					
PLUG	20/1	7		580	8	-	BLANK	
BLANK	-	9	-		10	-	BLANK	
			-					
BLANK	-	11	-		12	-	BLANK	
			-					
BLANK	-	13	-		14	-	BLANK	
			-					
BLANK	-	15	-		16	-	BLANK	
			-					
BLANK	-	17	-		18	-	BLANK	
			-					
BLANK	-	19	-		20	-	BLANK	
			-					
TOTAL LOAD PER PHASE			14,780	13,820	28,600 VA ÷240V = 119.2 AMPS			

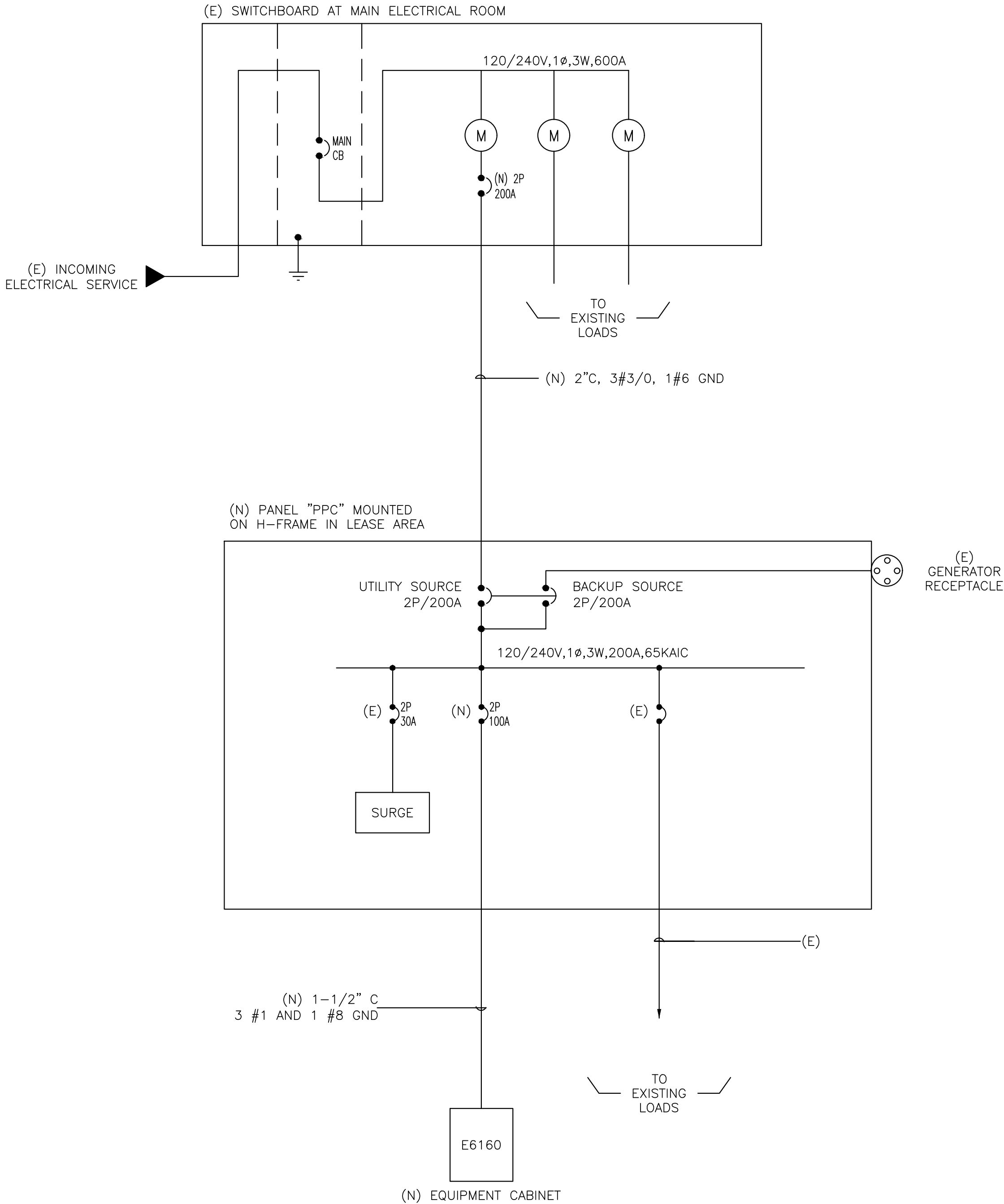
\* LOAD AT 125% PER N.E.C.    □ LOCK ON DEVICES ON C.B.'s

NEW PANEL SCHEDULE

4

ELECTRIC LEGEND:

- MECHANICAL INTERLINK
- METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF



ONE LINE DIAGRAM

1



T-MOBILE WEST LLC  
1855 GATEWAY BLVD, STE 900  
CONCORD, CA 94520



3659 GREEN ROAD, SUITE 214  
CLEVELAND, OH 44122

DRAWN BY: SC

CHECKED BY: CH

REVISIONS

NO.	DATE	DESCRIPTION	INITIAL
A	10/16/20	ISSUED FOR 90% CD REVIEW	SC
0	11/12/20	100% CD	SC
1	01/04/21	RADOME UPDATE	JAF
2	01/07/21	CITY COMMENTS	RGL
3	09/29/21	CITY COMMENTS	RGL

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

PALO ALTO HOLE

SF04141A

2666 E BAYSHORE RD  
PALO ALTO, CA 94303



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SHEET TITLE

PANEL SCHEDULE & 1-LINE

SHEET NUMBER

E-1