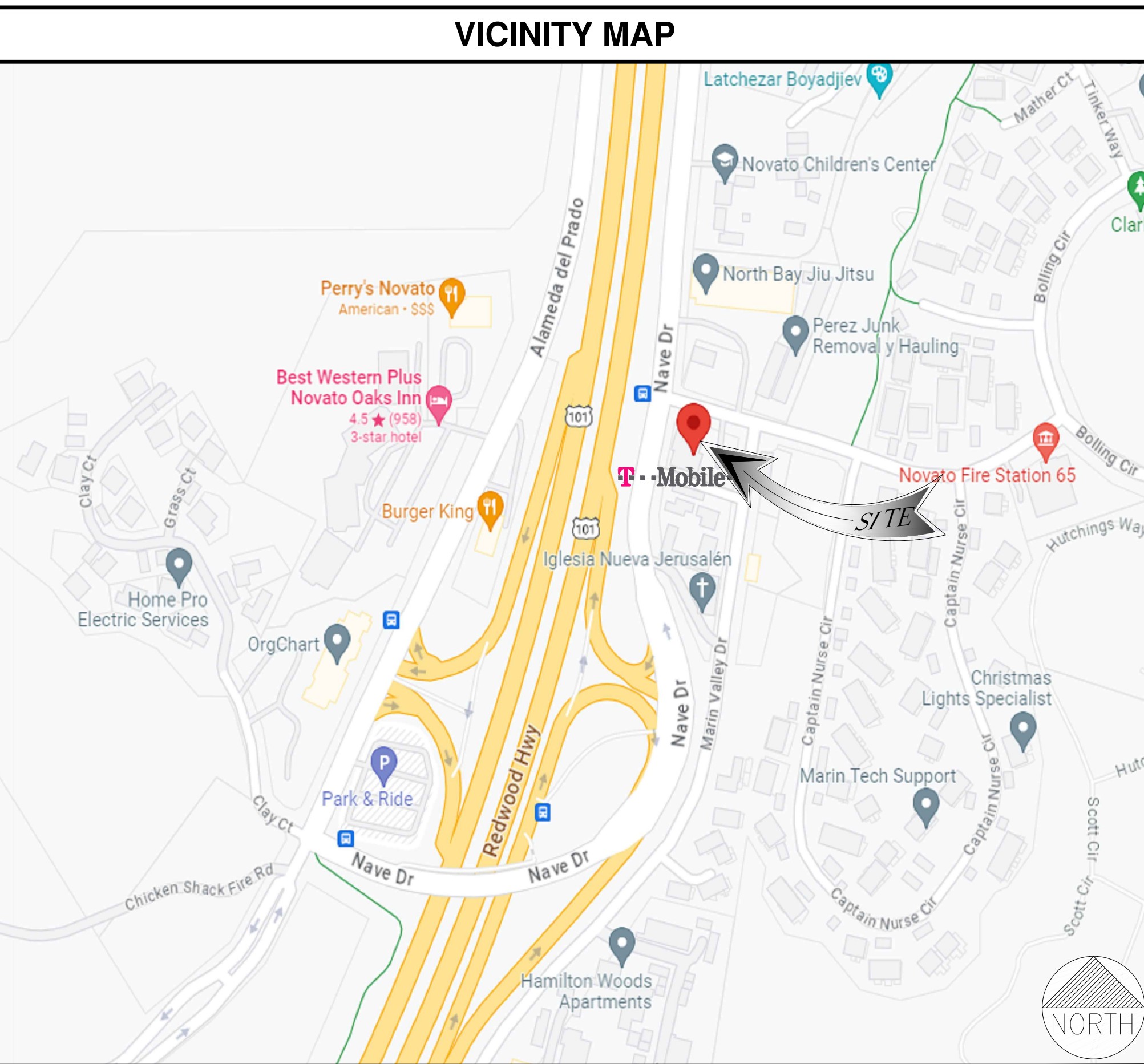


THE INFORMATION CONTAINED IN THIS SET OF DRAWINGS IS PROPRIETARY & CONFIDENTIAL TO T-MOBILE. ANY USE OR DISCLOSURE OTHER THAN AS IT RELATES TO T-MOBILE IS STRICTLY PROHIBITED.



SITE NUMBER: BA00324A **CITY:** NOVATO
PLAN TYPE: ANCHOR **COUNTY:** MARIN
SITE NAME: SF324 MEADOW PARK SCHOOL **JURISDICTION:** CITY OF NOVATO
SITE TYPE: ROOFTOP MOUNT

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SCOPE OF WORK:
 MODIFICATION OF AN EXISTING 'T-MOBILE' TELECOMMUNICATION FACILITY CONSISTING OF THE FOLLOWING:

- REMOVE BTS 210C CABINET
- REMOVE BTS 6102 CABINET
- REMOVE RUS01 RADIOS
- ADD (1) E6160 AND (1) B160 BATTERY CABINETS
- ADD (1) RP6651 FOR B41
- ADD (1) RP6651 FOR LB
- RETAIN BB 6630 FOR MB, INTEGRATE N19
- ADD (1) IXRE ROUTER
- ADD (2) 6x24 HCS
- ADD (1) RBS 6601
- SWAP ONE DUAL ANTENNA TO AN AIR 6419, TYP. PER SECTOR (TOTAL-2)
- REMOVE ONE DUAL ANTENNA, TYP. PER SECTOR (TOTAL-2)
- SWAP LB DUAL TO AN OCTO ANTENNA, TYP. PER SECTOR (TOTAL-2)
- REMOVE AND REPLACE (4) ANTENNA PIPES
- ADD (1) RADIO 4480 FOR LB, TYP. PER SECTOR (TOTAL-2)
- ADD (1) RADIO 4460 FOR MB, TYP. PER SECTOR (TOTAL-2)
- ADD (1) 10G CIENA BOX
- REMOVE UNUSED COAXES AND TMAs
- ALPHA = POS. 1 AIR6419, POS. 2 6' OCTO
- BETA = POS. 1 6' OCTO, POS. 2 AIR6419
- REMOVE AND REPLACE EXISTING 100A PANEL WITH NEW 200A PANEL
- INSTALL (1) HCS WINDER BOX AT EQUIP. AREA

PROJECT TEAM

SITE ADDRESS: 5400 NAVE DR, NOVATO, CA, 94949
PROPERTY OWNER/LESSOR: MARIN CHURCH OF THE NAZARENE, 5400 NAVE DRIVE, NOVATO, CA 94949
JURISDICTION: CITY OF NOVATO
LATITUDE: 38.05058 (38° 03' 01.96") (NAD 83)
LONGITUDE: -122.530546 (-122° 31' 49.68") (NAD 83)
APN: 155-020-45
CURRENT USE: U (UNMANNED COMMUNICATIONS FACILITY)
PROPOSED USE: NO CHANGE
ACCESSIBILITY REQUIREMENTS: THE FACILITY IS UNMANNED AND NOT FOR CONTINUOUS HUMAN HABITATION. HANDICAP ACCESS IS NOT REQUIRED PER CBC 2022, SECTION 11B-203.4 (LIMITED ACCESS SPACE)

APPLICANT: T-MOBILE WEST LLC, 1200 CONCORD AVE., SUITE 500, CONCORD, CA 94520
PROJECT MANAGER: GIO CRUZ, CENTERLINE COMMUNICATIONS, rcruz@clinelc.com, (702) 769-0229
A&E MANAGER: JASON OFFINEER, PM&A, joffineer@pmass.com, (619) 370-4859
CONSTRUCTION MANAGER: RYAN MANAHL, TRUNORTHE, rmanahl@trunorthe.com, (760) 983-8795

SITE NUMBER: BA00324A
SITE NAME: SF324 MEADOW PARK SCHOOL
 5400 NAVE DR, NOVATO, CA, 94949

REV	DATE	DESCRIPTION
1	02/14/2024	100% CONSTRUCTION
0	12/13/2023	100% CONSTRUCTION
A	10/23/2023	90% CONSTRUCTION

APPROVALS:

	PRINT NAME	SIGNATURE	DATE
LAND OWNER:			
DEVELOP. MANAGER:			
CONST. MANAGER:			
PROJECT MANAGER:			
ZONING MANAGER:			
TMO RF ENGINEER:			
SAC. REP.:			
CONST. MANAGER:			

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- CALIFORNIA BUILDING STANDARDS CODE: 2022 TRIENNIAL EDITION OF TITLE 24, WITH AN EFFECTIVE DATE OF JANUARY 1, 2023.
 - PART 1 - CALIFORNIA ADMINISTRATIVE CODE
 - PART 2 - CALIFORNIA BUILDING CODE, BASED ON THE 2021 INTERNATIONAL BUILDING CODE
 - PART 2.5 - CALIFORNIA RESIDENTIAL CODE, BASED ON THE 2021 INTERNATIONAL RESIDENTIAL CODE
 - PART 3 - CALIFORNIA ELECTRICAL CODE, BASED ON THE 2020 NATIONAL ELECTRICAL CODE
 - PART 4 - CALIFORNIA MECHANICAL CODE, BASED ON THE 2021 UNIFORM MECHANICAL CODE
 - PART 5 - CALIFORNIA PLUMBING CODE, BASED ON THE 2021 UNIFORM PLUMBING CODE
 - PART 6 - CALIFORNIA ENERGY CODE
 - PART 7 - VACANT
 - PART 8 - CALIFORNIA HISTORICAL BUILDING CODE
 - PART 9 - CALIFORNIA FIRE CODE, BASED ON THE 2021 INTERNATIONAL FIRE CODE
 - PART 10 - CALIFORNIA EXISTING BUILDING CODE, BASED ON THE 2021 INTERNATIONAL EXISTING BUILDING CODE
 - PART 11 - CALIFORNIA GREEN BUILDING STANDARDS CODE (CGBSC; ALSO KNOWN AS CALGREEN)
 - PART 12 - CALIFORNIA REFERENCED STANDARDS CODE
- ANSI/TIA-222 (REV H)
- 2021 NFPA 101, LIFE SAFETY CODE
- 2022 NFPA 72, NATIONAL FIRE ALARM AND SIGNALING CODE
- 2022 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS

STATEMENTS

STRUCTURAL: STRUCTURAL ANALYSIS IS NOT WITHIN THE SCOPE OF WORK CONTAINED IN THIS DRAWINGS SET. FOR ANALYSIS OF EXISTING AND/OR PROPOSED COMPONENTS, REFER TO STRUCTURAL ANALYSIS PROVIDED UNDER SEPARATE COVER.

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

DRIVING DIRECTIONS

FROM: 1200 CONCORD AVE, SUITE 500, CONCORD, CA 94520

TO: 5400 NAVE DR, NOVATO, CA, 94949

GENERAL CONTRACTOR NOTES

DO NOT SCALE DRAWINGS

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING 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.



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

SHEET TITLE
TITLE SHEET










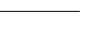






SHEET NUMBER
T1

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

ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
- THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
- THE CONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUITS AND OTHER CABLES. CONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY.
- THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
- 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.
- AT ANY TIME DURING THE DURATION OF CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SECURITY OF THE SITE. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
- AS MAY BE REQUIRED BY THE GOVERNING AGENCY OR PROPERTY OWNER, THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER, WATER, OR TOILET FACILITIES.
- THE EXISTING CELL SITE IS ASSUMED TO BE IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH THE OWNER. ALSO, WORK MAY NEED TO BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
- THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REGULATIONS DURING THE ENTIRE CONSTRUCTION PERIOD. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
- THE CONTRACTOR SHALL NOT USE OR INSTALL ANY MATERIAL CONTAINING ASBESTOS OR LEAD PAINT CONTENT. THE USE OF SUCH MATERIAL IS STRICTLY PROHIBITED.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, WHETHER OR NOT SHOWN ON PLANS, AND TO AVOID OR PROTECT THEM FROM ANY DAMAGE. ANY COSTS INCURRED TO REPAIR UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE AT THE SOLE COST OF THE CONTRACTOR. TELEPHONE 811 FOR USA DIG ALERT.
- THE GOVERNING AGENCY MAY REQUIRE A COPY OF THE APPROVED PLANS TO BE KEPT ON SITE AT ALL TIMES. THE CONTRACTOR SHALL MAKE SUCH A SET AVAILABLE FOR INSPECTION AT ALL TIMES. ANY DEVIATIONS FROM THE APPROVED SET SHALL BE DOCUMENTED AND PROVIDED TO THE ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL BEAR THE SOLE COST TO CORRECT ANY INSTALLATION WHICH DEVIATES FROM APPROVED PLANS AND IS NOT ACCEPTED BY THE ENGINEER.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL MEANS & METHODS, TECHNIQUES, SEQUENCING, AND PROCEDURES REQUIRED TO PERFORM THE WORK. ANY ANALYSIS OF THE STRUCTURE UNDER TEMPORARY CONSTRUCTION LOADING CONDITIONS IS OUTSIDE OF THE SCOPE OF THESE DRAWINGS. THE CONTRACTOR SHOULD EVENLY DISTRIBUTE ANY MATERIAL TO BE STORED ON SITE DURING CONSTRUCTION SO THAT THE LOAD DOES NOT EXCEED THE STRUCTURES DESIGNED LIVE LOAD; OR PROVIDE TEMPORARY SHORING OR BRACING IN THESE AREAS.
- DRAWINGS ARE NOT TO BE SCALED. DIMENSIONS SHOWN TAKE PRECEDENCE OVER SCALE.
- ALL NEW COMPONENTS ADD TO THE EXTERIOR OF THE STRUCTURE, WHICH ARE VISIBLE FROM PUBLIC VIEW, SHALL BE PAINTED TO MATCH THE EXISTING CONDITIONS.
- ALL DETAILS AND NOTES INDICATED IN THESE PLANS ARE THE MINIMUM REQUIREMENTS.
- IT MAY BE NECESSARY TO TEMPORARILY RELOCATE, REMOVE, REPLACE, OR WORK AROUND VARIOUS ARCHITECTURAL FEATURES, PIPES, FIXTURES, CABLING, OR OTHER NON-STRUCTURAL ITEMS IN ORDER TO COMPLETE THE PROPOSED WORK. CONTRACTOR SHALL RESTORE THESE ITEMS TO THEIR ORIGINAL CONDITION AT THEIR EXPENSE UNLESS OTHERWISE NOTED IN THESE PLANS.

GENERAL NOTES

SYMBOLS

	SOLID GROUND BUS BAR		GROUND ROD WITH ACCESS (TEST WELL)
	SOLID NEUTRAL BUS BAR		GROUNDING WIRE, DASHED REPRESENTS UNDERGROUND
	SUPPLEMENTAL GROUND CONDUCTOR		TELEPHONE LINE, DASHED REPRESENTS UNDERGROUND
	2-POLE THERMAL-MAGNETIC CIRCUIT BREAKER		COAXIAL CABLE, DASHED REPRESENTS UNDERGROUND
	SINGLE-POLE THERMAL-MAGNETIC CIRCUIT BREAKER		ANTENNA COAX
	GROUND ROD		OVERHEAD ELECTRICAL CABLES
	DISCONNECT SWITCH		
	UTILITY METER		
	EXOTHERMIC CONNECTION (CADWELD) TO GROUND RING AND COMPRESSION TO GROUND HALO		
	COMPRESSION, CLAMP, OR DOUBLE HOLE LUG TYPE GROUND CONNECTION		

LEGEND

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

GROUNDING NOTES

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

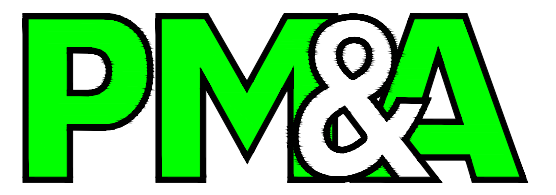
GENERAL UPGRADE NOTES

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	(P)	PROPOSED
(E)	EXISTING	EMT	ELECTRICAL METALLIC TUBING
MIN	MINIMUM	GND	GROUND
N.T.S.	NOT TO SCALE	GPS	GLOBAL POSITIONING SYSTEM
REF	REFERENCE	GFCI	GROUND FAULT CIRCUIT INTERRUPTER
RF	RADIO FREQUENCY	BCW	BARE TINNED COPPER WIRE
T.B.D.	TO BE DETERMINED		
TYP	TYPICAL		
EGR	EQUIPMENT GROUND RING		
AWG	AMERICAN WIRE GAUGE		
MGB	MASTER GROUND BUS		
EG	EQUIPMENT GROUND		
BCW	BARE COPPER WIRE		
GEN	GENERATOR		
IGR	INTERIOR GROUND RING (HALO)		



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P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY

1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE: (678) 280-2325

SITE NUMBER:

BA00324A

SITE NAME:
**SF324 MEADOW PARK
SCHOOL**

5400 NAVE DR
NOVATO, CA, 94949

REV	DATE	DESCRIPTION	
1	02/14/2024	100% CONSTRUCTION	JO
0	12/13/2023	100% CONSTRUCTION	TT
A	10/23/2023	90% CONSTRUCTION	TT



DATE: 02/14/2024
EXPIRES: 02/30/2025

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SHEET TITLE

**GENERAL
NOTES**

SHEET NUMBER

T2

NOTE:
 - NO ROOF HATCH ON SITE. EXTENSION LADDER
 CAN BE USED TO ACCESS ANTENNAS



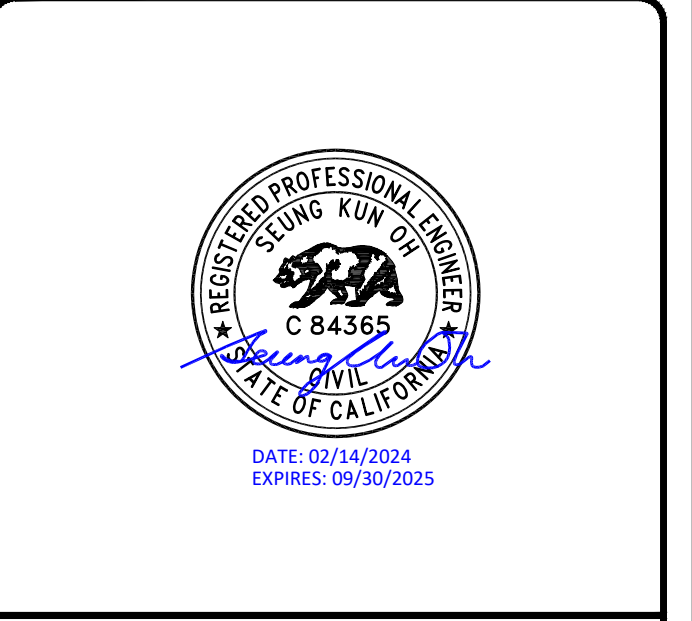
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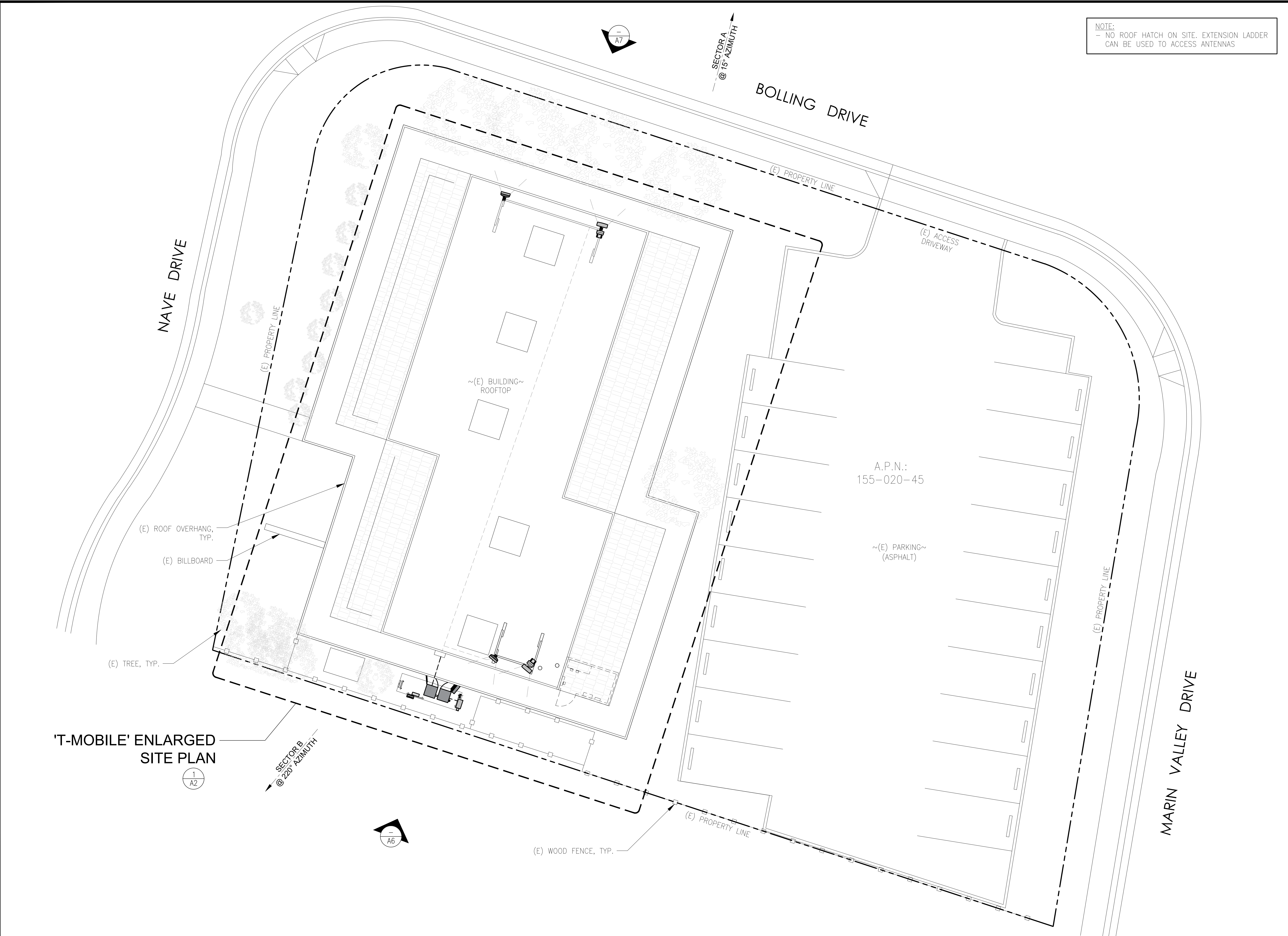
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SHEET TITLE
SITE PLAN

SHEET NUMBER
A1



'T-MOBILE' ENLARGED
 SITE PLAN
 1
 A2



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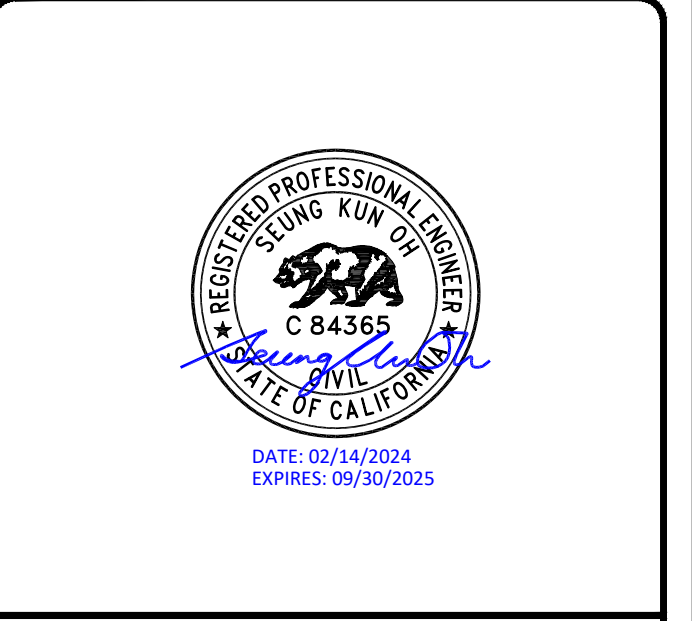
A CENTERLINE COMMUNICATIONS COMPANY
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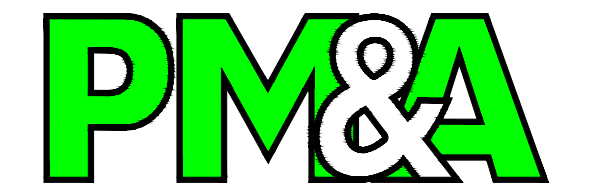


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SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A2

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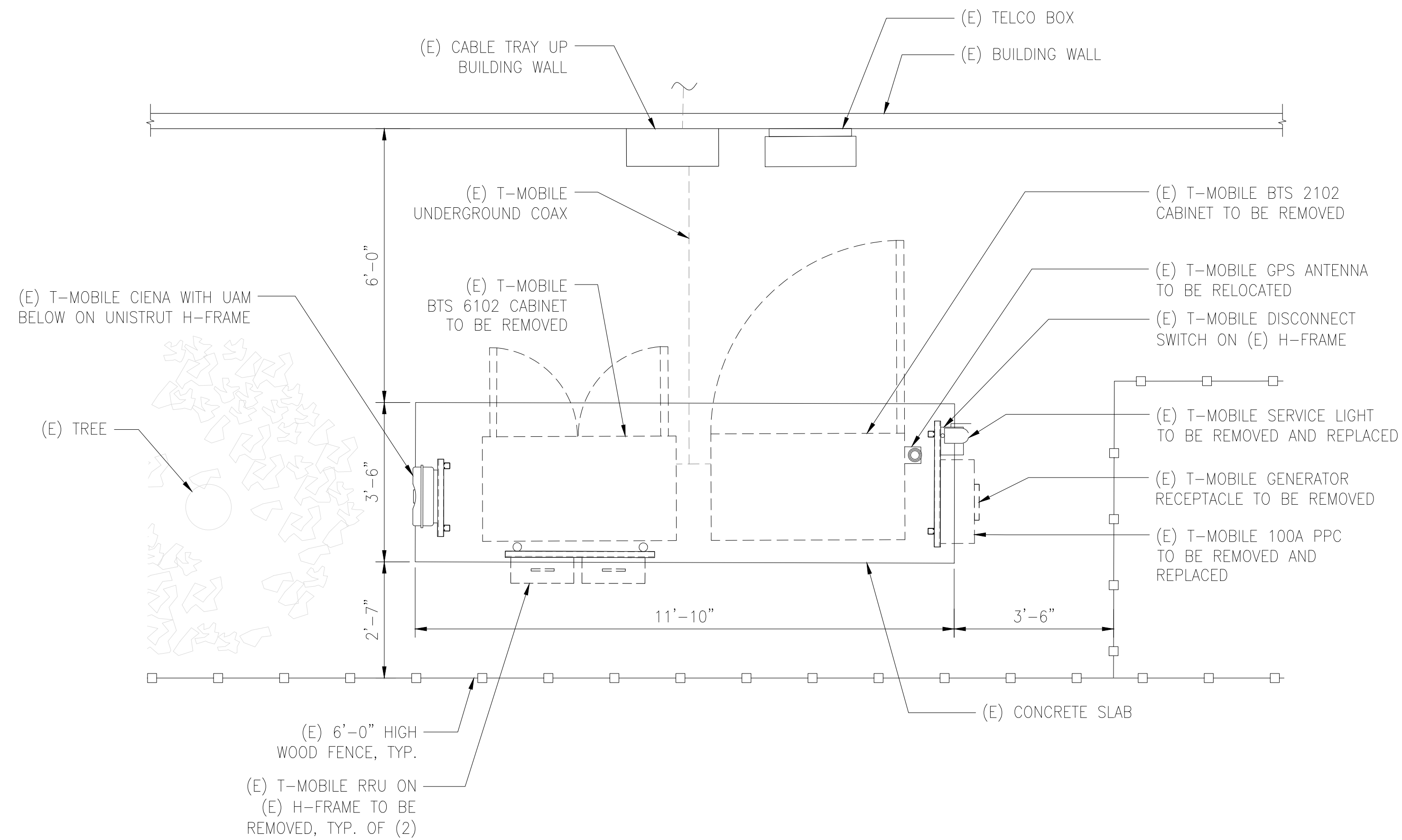
P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE: (678) 280-2325

SITE NUMBER:

BA00324A

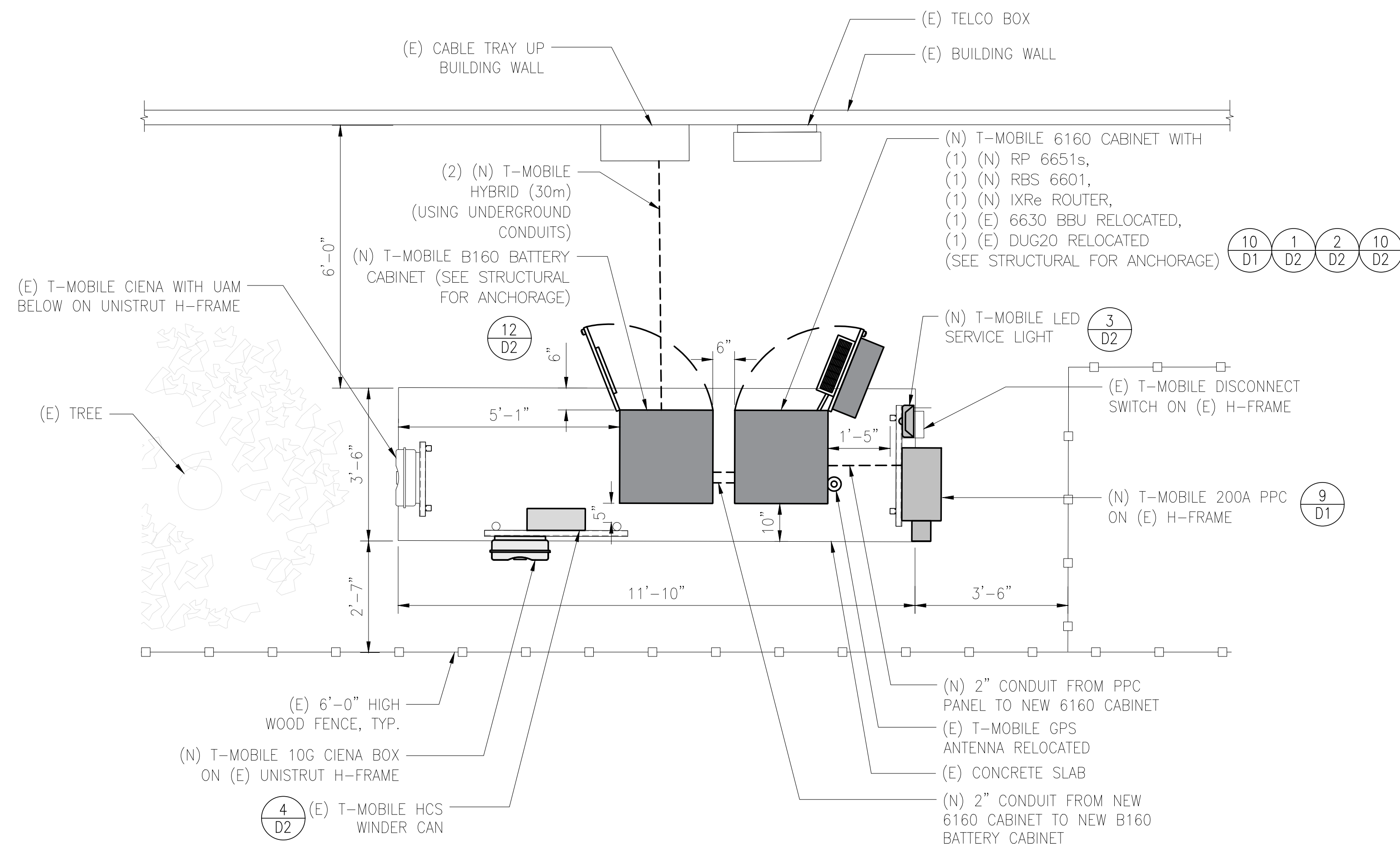
SITE NAME:
SF324 MEADOW PARK SCHOOL

5400 NAVE DR
NOVATO, CA, 94949



EXISTING EQUIPMENT PLAN

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

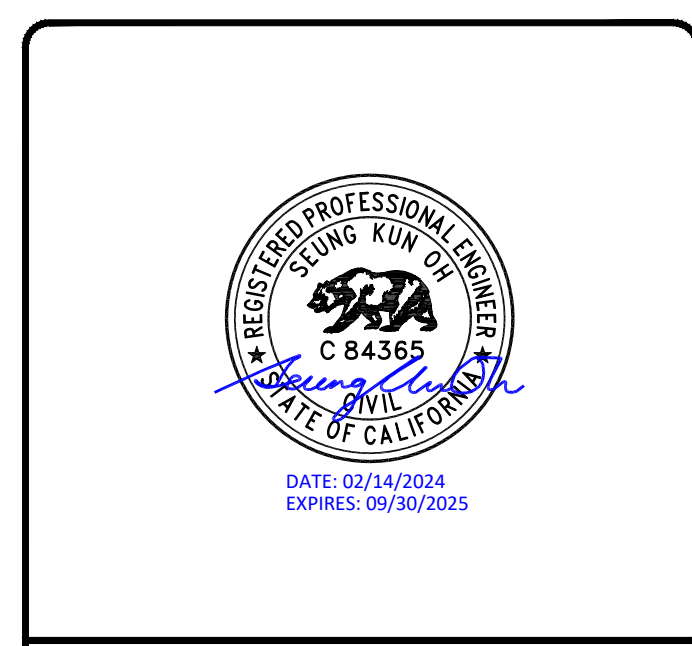


PROPOSED EQUIPMENT PLAN

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

REV	DATE	DESCRIPTION
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A	10/23/2023	90% CONSTRUCTION TT



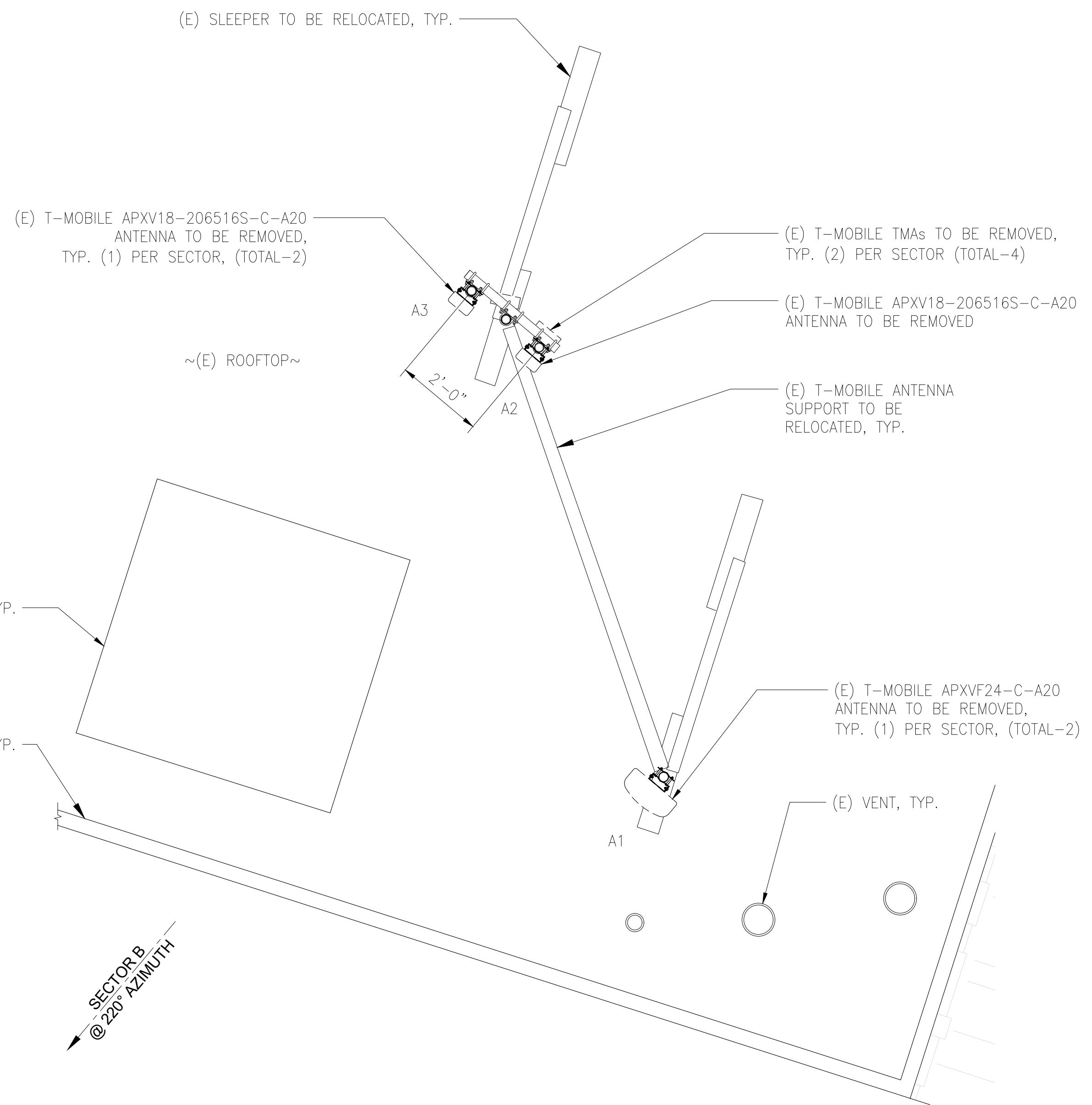
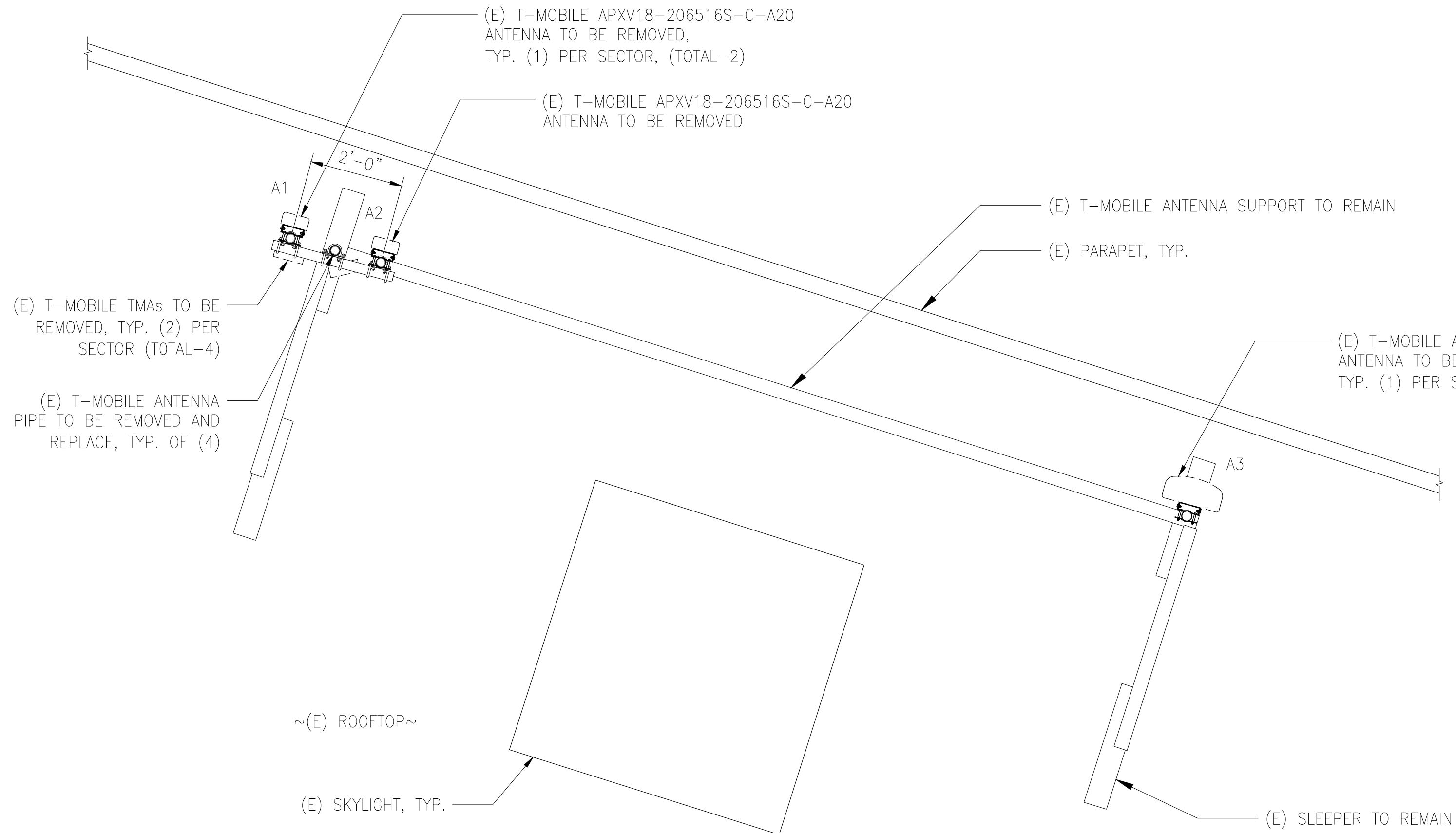
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SHEET TITLE
EQUIPMENT PLANS

SHEET NUMBER
A3

(E) ANTENNA SCHEDULE										
	POS	TECHNOLOGY	AZIMUTH	RAD CENTER	ANTENNA MAKE	ANTENNA MODEL	RRU MODEL #'S	TMA	DIPLEXER	(E) CABLE TYPE
SECTOR "A"	A1	G1900, U1900	15°	27'-9"	RFS	APXV18-206516S-C-A20	(1) TRX	(1) ATM1900D-1A20	-	(2) 7/8" COAX - 100FT (1) COAX JUMPER
	A2	L2100	15°	27'-9"	RFS	APXV18-206516S-C-A20	-	(1) TMAT1921B78-21A (E15201P33)	(1) TWIN 700/PCS/AWS CBC61921Y-DS-2X	
	A3	L700	15°	26'-0"	RFS	APXVF24-C-A20	(1) RRU511 B12	-	-	
SECTOR "B"	B1	L700	220°	26'-0"	RFS	APXVF24-C-A20	(1) RRU511 B12	-	-	(2) 7/8" COAX - 100FT (1) COAX JUMPER
	B2	L2100	220°	27'-9"	RFS	APXV18-206516S-C-A20	-	(1) TMAT1921B78-21A (E15201P33)	(1) TWIN 700/PCS/AWS CBC61921Y-DS-2X	
	B3	G1900, U1900	220°	27'-9"	RFS	APXV18-206516S-C-A20	(1) TRX	(1) ATM1900D-1A20	-	

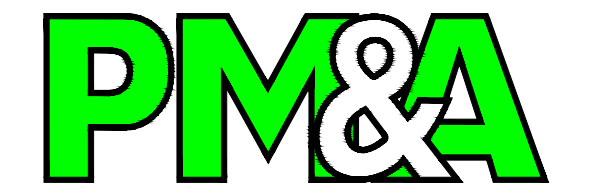
SECTOR A
@ 15° AZIMUTH



SECTOR B
@ 220° AZIMUTH



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P. MARSHALL & ASSOCIATES
A CENTERLINE COMMUNICATIONS COMPANY
1000 HOLCOMB WOODS PKWY. STE 210
ROSWELL, GA 30076
OFFICE: (678) 280-2325

SITE NUMBER:
BA00324A

SITE NAME:
SF324 MEADOW PARK SCHOOL

5400 NAVE DR
NOVATO, CA, 94949

REV	DATE	DESCRIPTION
1	02/14/2024	100% CONSTRUCTION
0	12/13/2023	100% CONSTRUCTION
A	10/23/2023	90% CONSTRUCTION

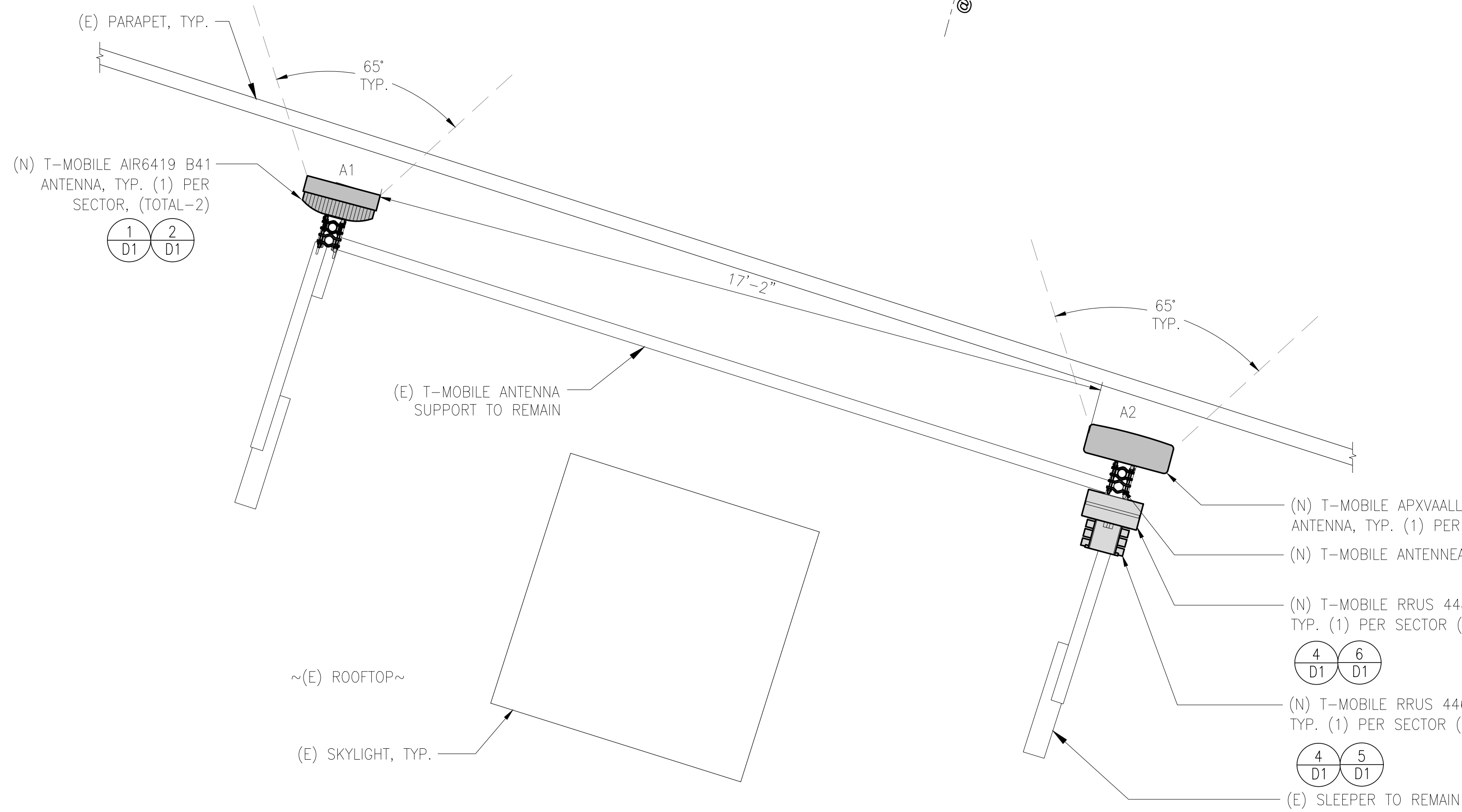


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SHEET TITLE
EXISTING ANTENNA PLAN

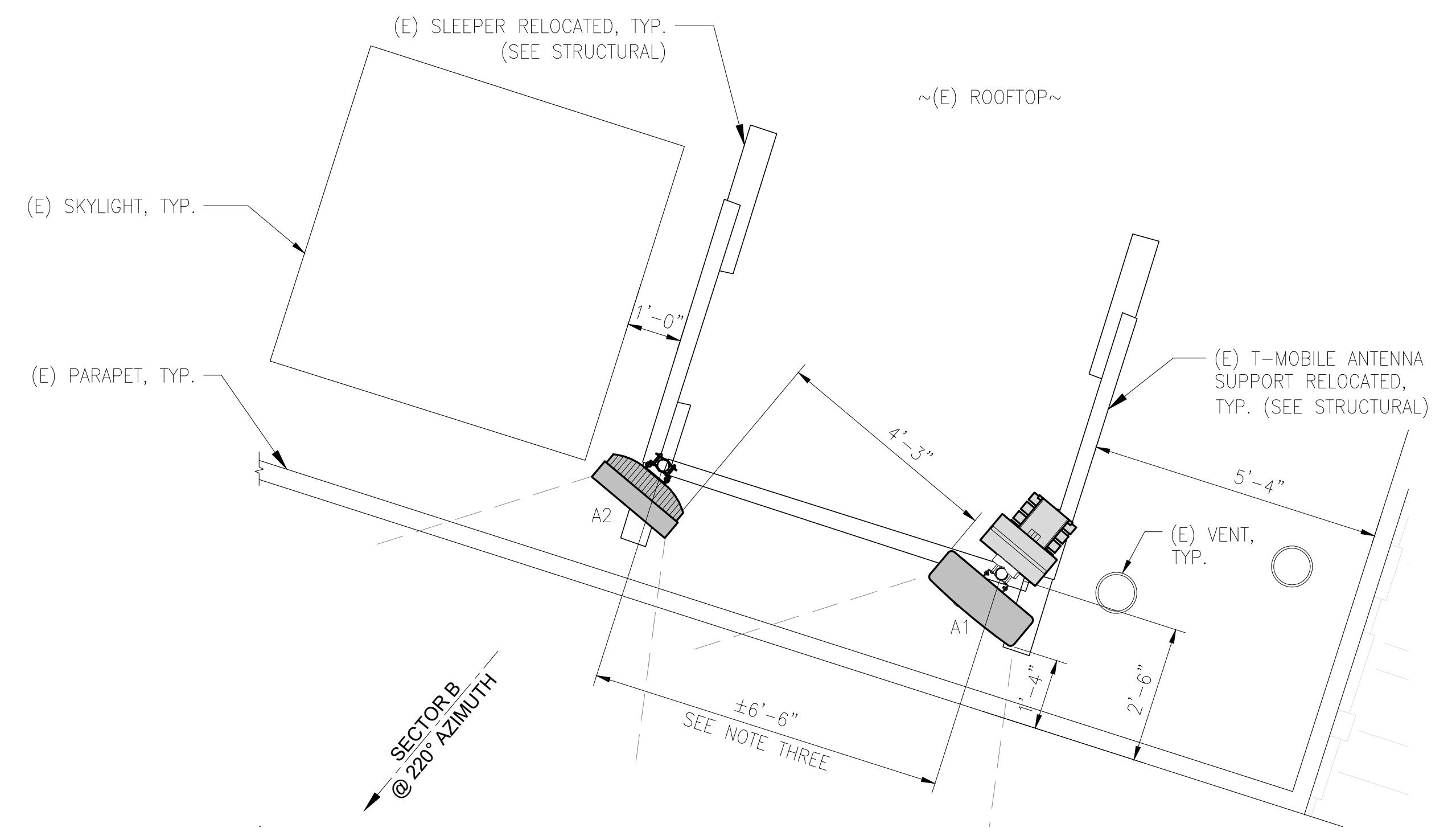
SHEET NUMBER
A4

- NOTES:**
1. MATERIALS IN FRONT AND SIDE OF THE ANTENNAS MUST BE RF TRANSPARENT TO MINIMIZE PIM ISSUES.
 2. ENSURE NO RUST ON COMPONENTS AND NO LOOSE CONNECTIONS.
 3. ENSURE THERE ARE NO PIM ISSUES DURING INSTALLATION.
 4. ANTENNAS CAN'T SHOOT INTO METAL, OTHER OPERATOR ANTENNAS, ANYTHING THAT CAN CAUSE PIM ETC.
 5. NO ANTENNA SHADOWING. ALL ANTENNAS TO BE CO-PLANAR.
 6. RADIOS CANNOT TOUCH ANTENNAS.
 7. IF THERE IS PARAPET WALL, ANTENNAS MUST BE ABOVE HIGHEST POINT.
 8. APPLY CONCEALFAB PIM SHIELD KIT.
 9. KEEP 3" DISTANCE BETWEEN BOTH ANTENNAS.



(N) ANTENNA SCHEDULE								
POS	TECHNOLOGY	AZIMUTH	RAD CENTER	ANTENNA MAKE	ANTENNA MODEL	RRU MODEL #'S	(E) CABLE TYPE	(N) CABLE
SECTOR "A"	A1	N2500	15°	30'-6"	ERICSSON	AIR6419 B41	-	(1) 6x24 4AWG 30m (4) JUMPER 6 FT SUREFLEX
	A2	N600, L700, N1900, L1900, L2100, G1900	15°	29'-0"	RFS	APXVAALL18_43-U-NA20	(1) RRU 4480 B71+B85 (1) RRU 4460 B25+B66	(4) JUMPER 10 FT SUREFLEX
SECTOR "B"	B1	N600, L700, N1900, L1900, L2100, G1900	220°	29'-0"	RFS	APXVAALL18_43-U-NA20	(1) RRU 4480 B71+B85 (1) RRU 4460 B25+B66	(1) 6x24 4AWG 30m (4) JUMPER 6 FT SUREFLEX
	B2	N2500	220°	30'-6"	ERICSSON	AIR6419 B41	-	(4) JUMPER 10 FT SUREFLEX

- NOTES:**
1. ALL (N) ANTENNAS AND EQUIPMENT SHALL BE PAINTED TO MATCH THE (E) BUILDING
 2. NEW AIR ANTENNAS SHALL NOT BE PAINTED, COLOR MATCH FILM TO BE APPLIED.
 3. CENTER OF (N) SLEEPERS AND (N) PIPE MASTS SHALL ALIGN WITH CENTER OF (E) ROOF BEAMS.



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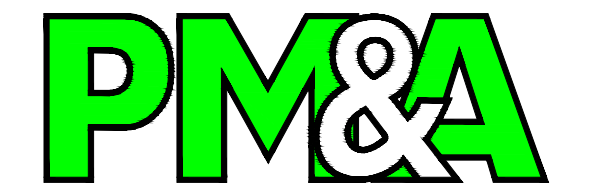
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SHEET TITLE
PROPOSED ANTENNA PLANS

SHEET NUMBER
A5



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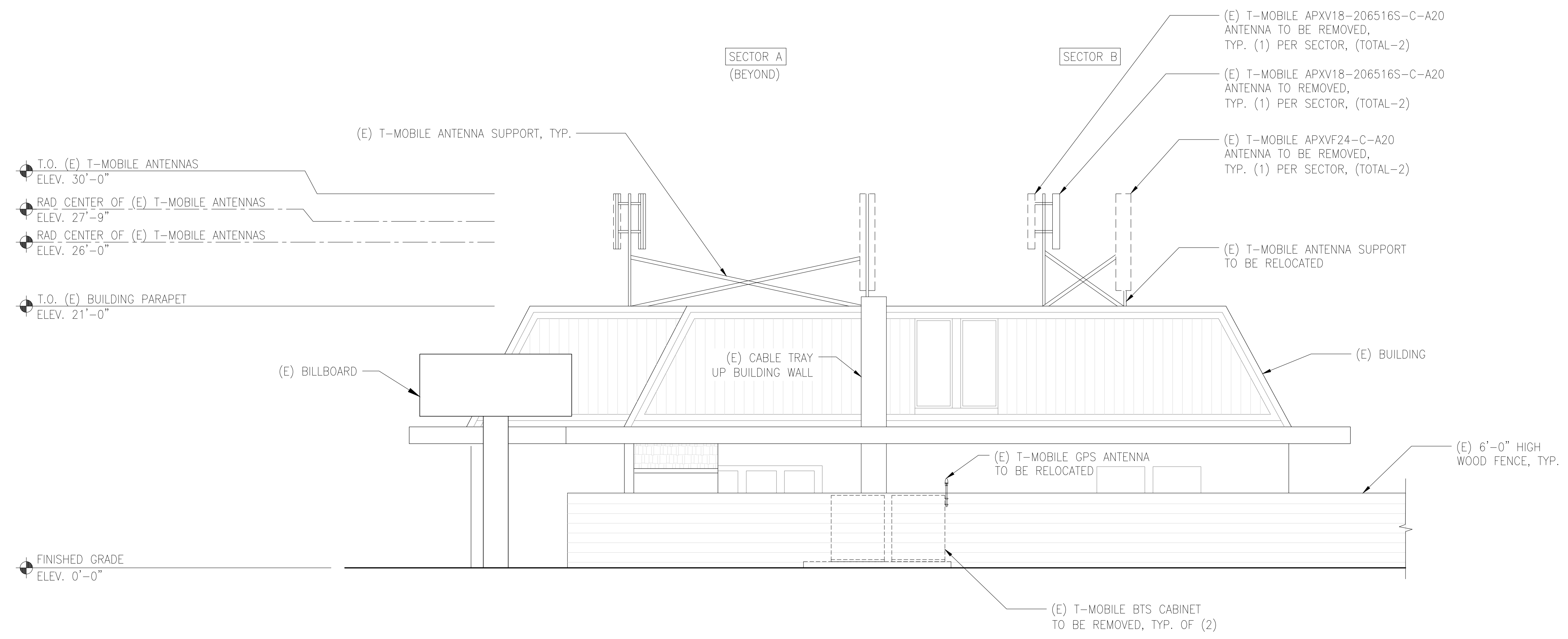
REV	DATE	DESCRIPTION
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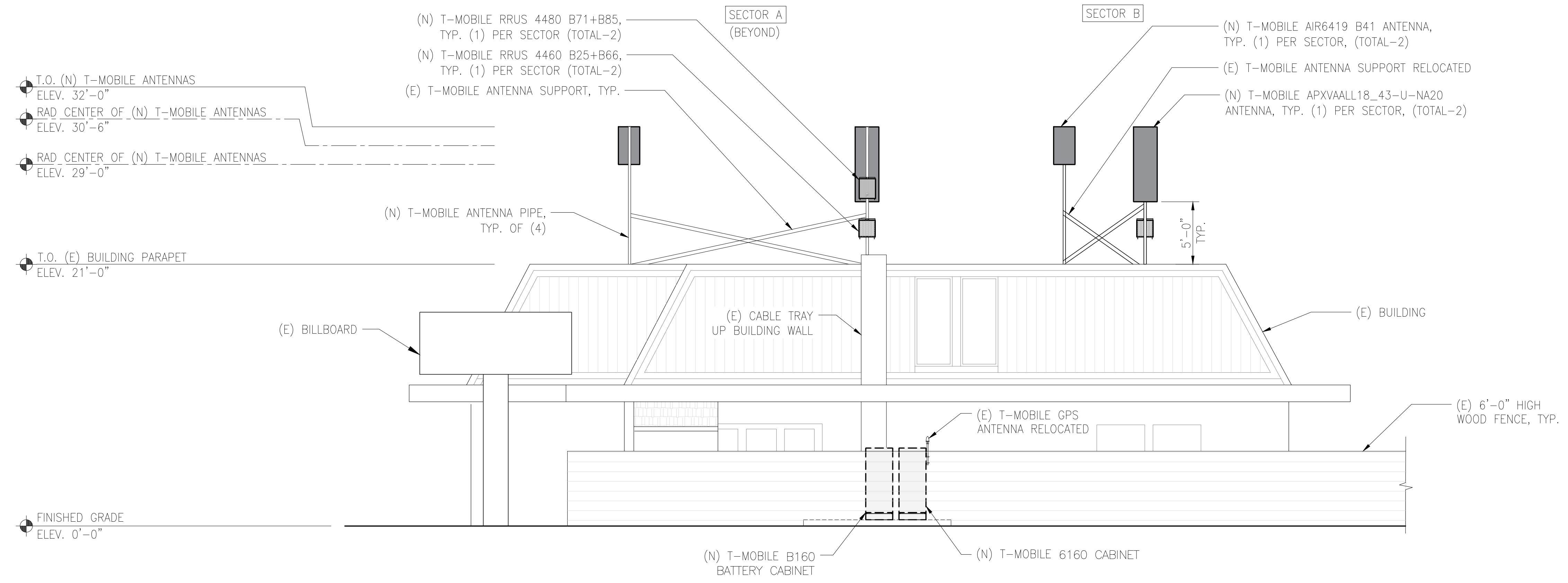
SHEET TITLE
SOUTH ELEVATIONS

SHEET NUMBER
A6



EXISTING SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



PROPOSED SOUTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"



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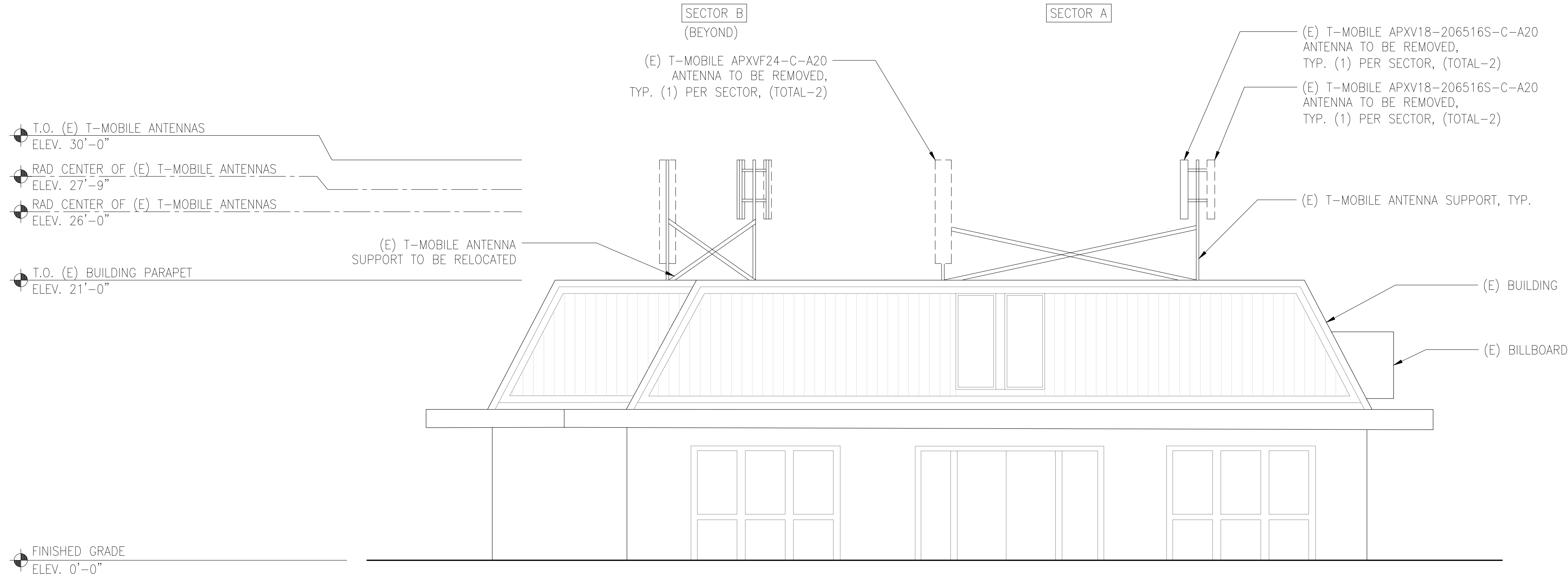
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SHEET TITLE

NORTH ELEVATIONS

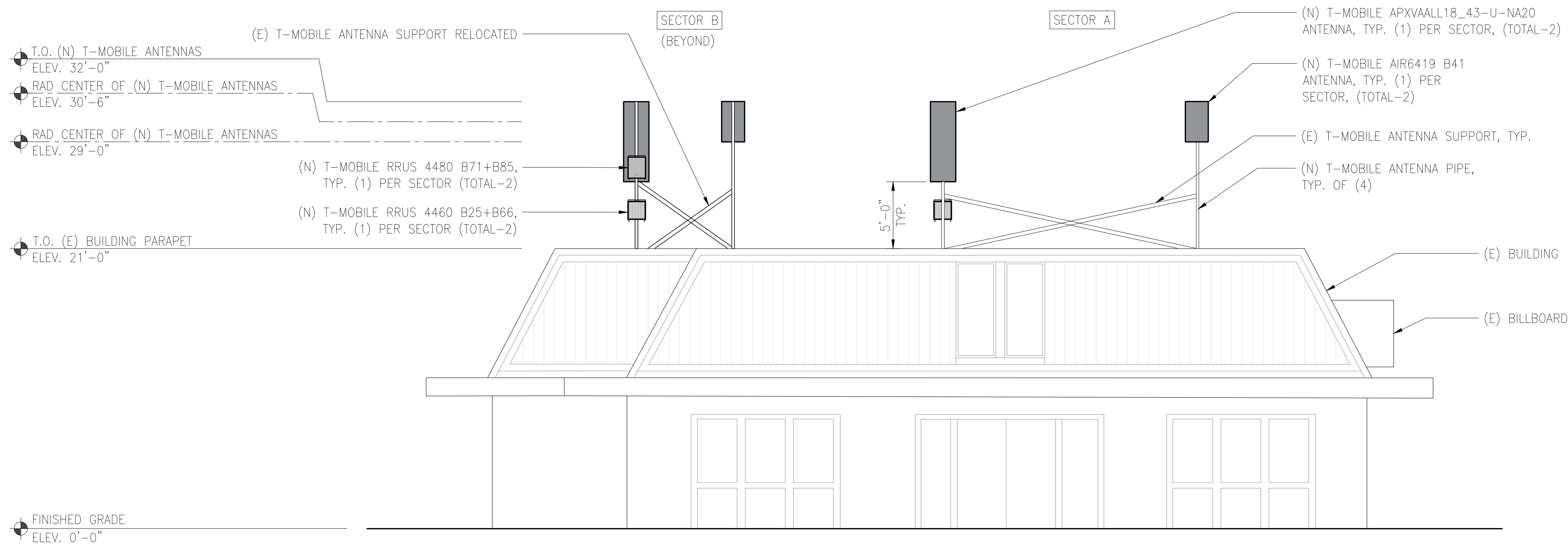
SHEET NUMBER

A7



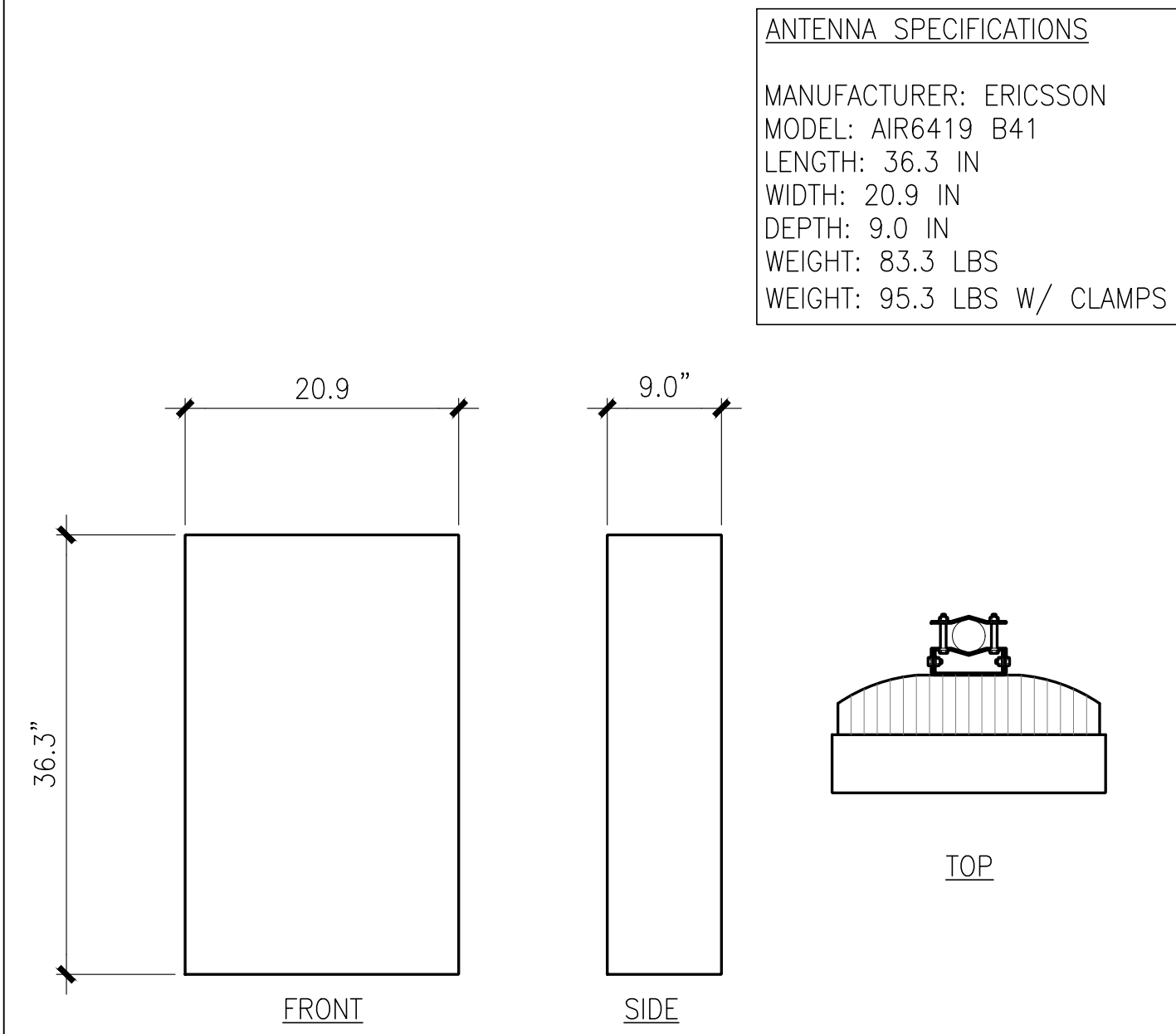
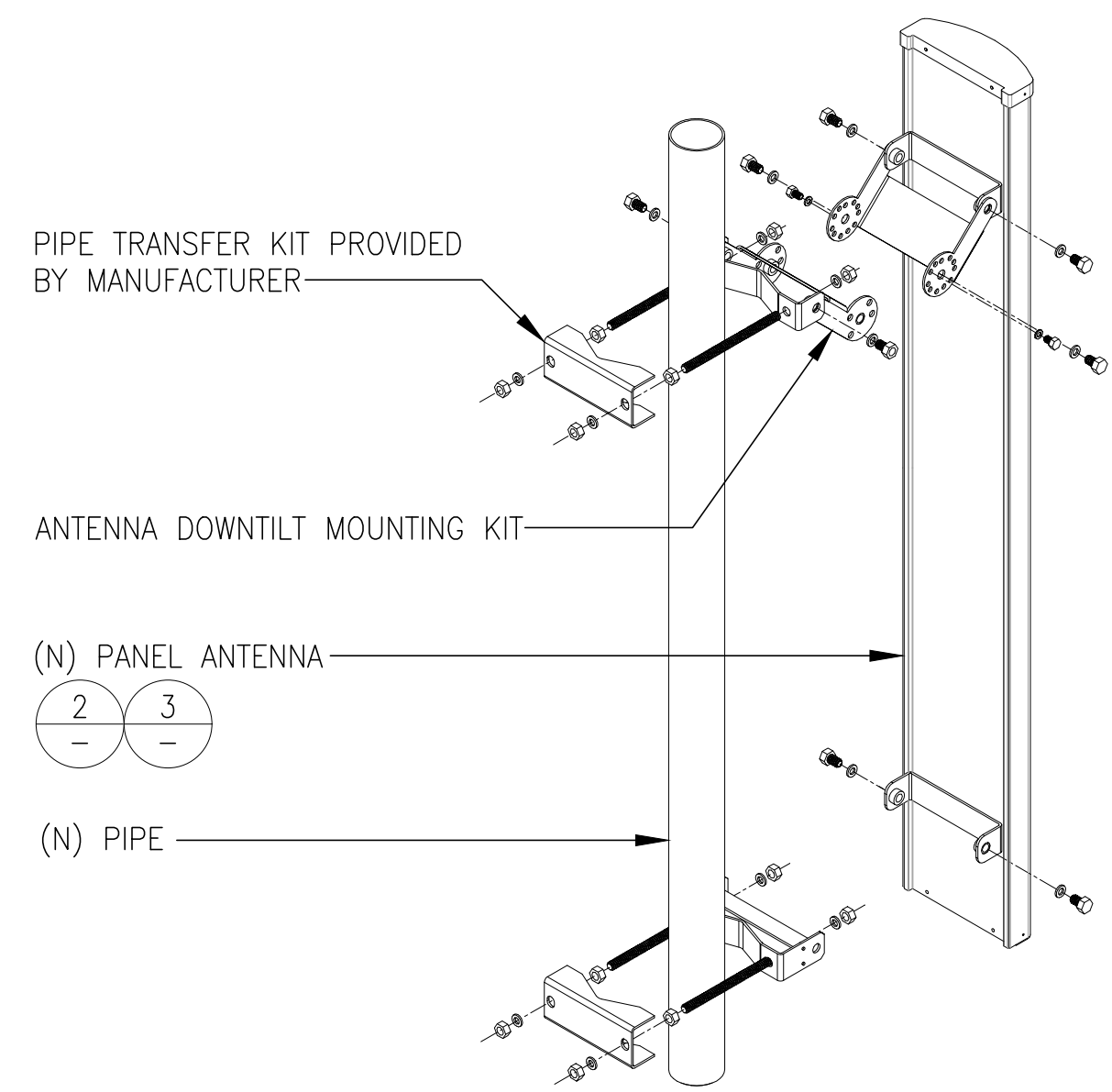
EXISTING NORTH ELEVATION

24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"
4' 2' 0" 4' 1

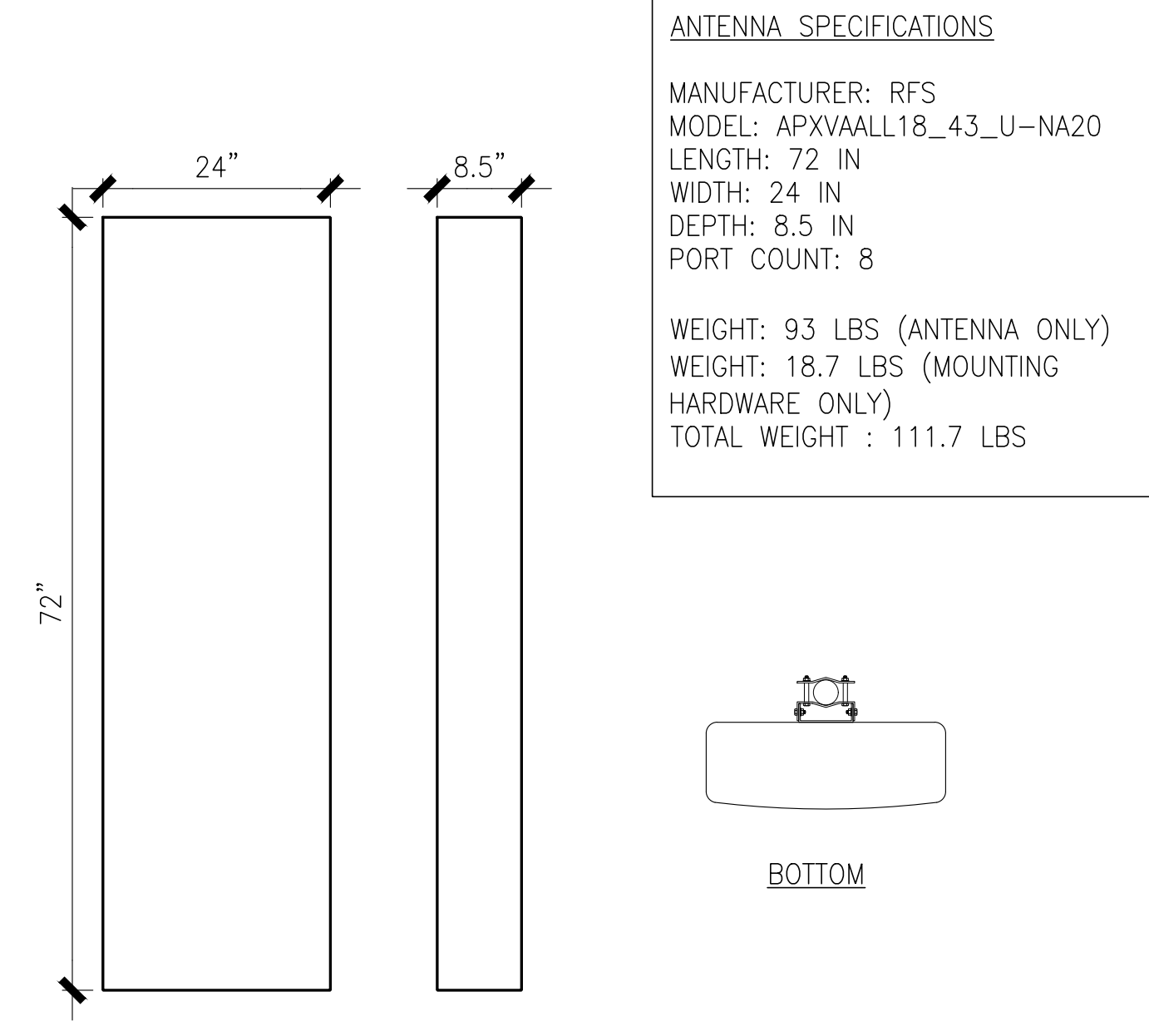


PROPOSED NORTH ELEVATION

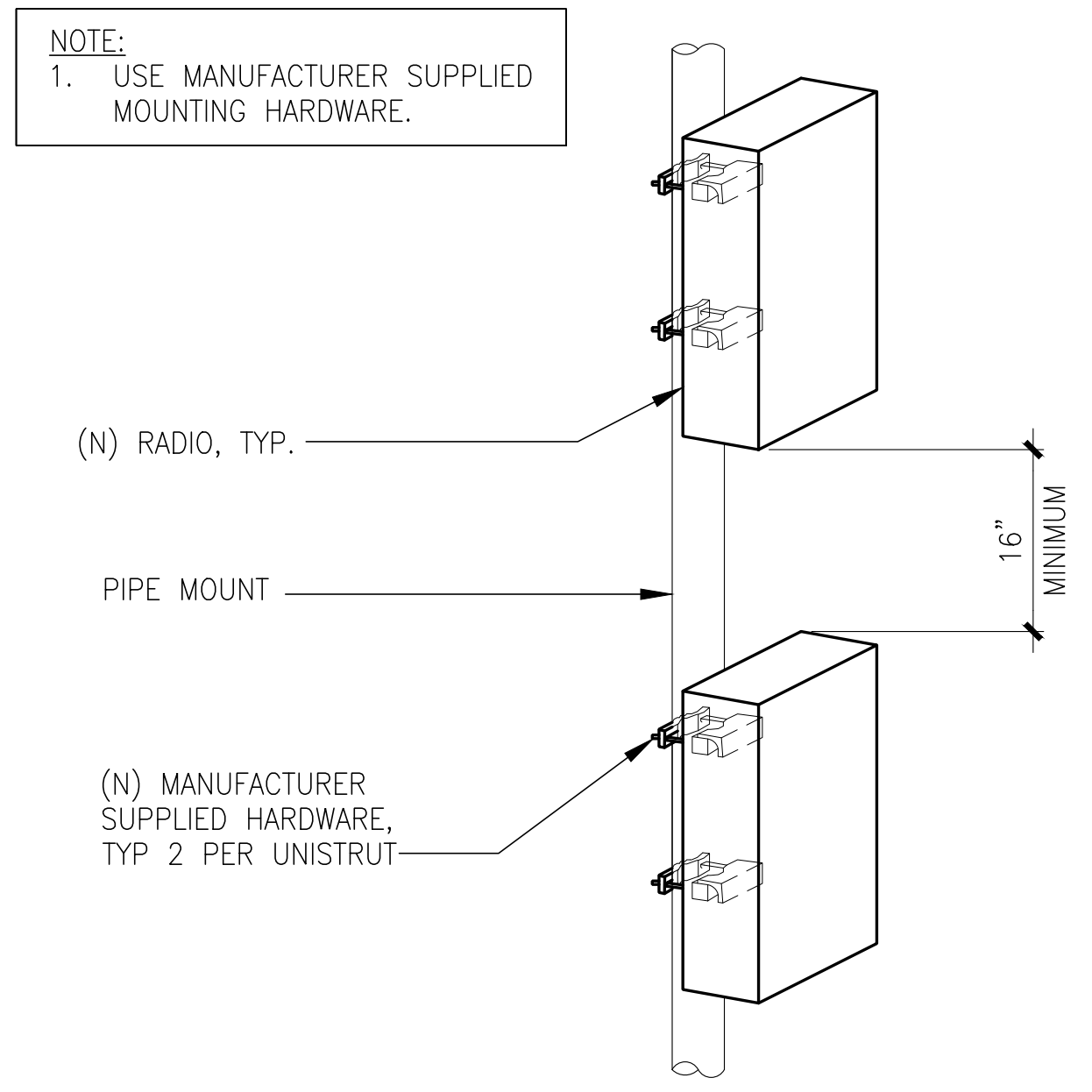
24"x36" SCALE: 3/16" = 1'-0"
11"x17" SCALE: 3/32" = 1'-0"
4' 2' 0" 4' 2



ANTENNA SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: AIR6419 B41
 LENGTH: 36.3 IN
 WIDTH: 20.9 IN
 DEPTH: 9.0 IN
 WEIGHT: 83.3 LBS
 WEIGHT: 95.3 LBS W/ CLAMPS



ANTENNA SPECIFICATIONS
 MANUFACTURER: RFS
 MODEL: APXVAALL18_43_U-NA20
 LENGTH: 72 IN
 WIDTH: 24 IN
 DEPTH: 8.5 IN
 PORT COUNT: 8
 WEIGHT: 93 LBS (ANTENNA ONLY)
 WEIGHT: 18.7 LBS (MOUNTING HARDWARE ONLY)
 TOTAL WEIGHT : 111.7 LBS

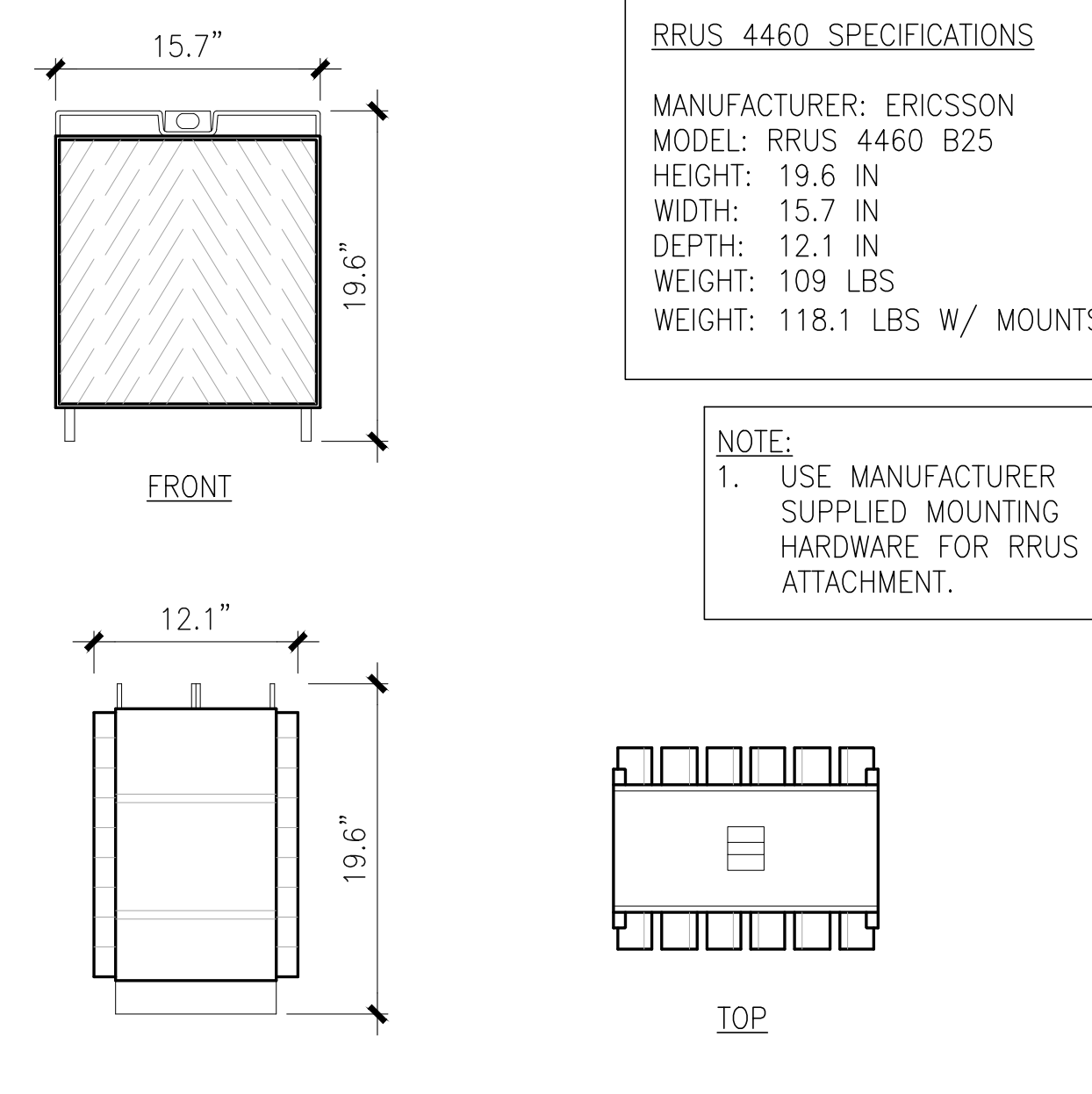


ANTENNA MOUNTING DETAIL SCALE N.T.S. 1

ANTENNA SPECIFICATIONS SCALE N.T.S. 2

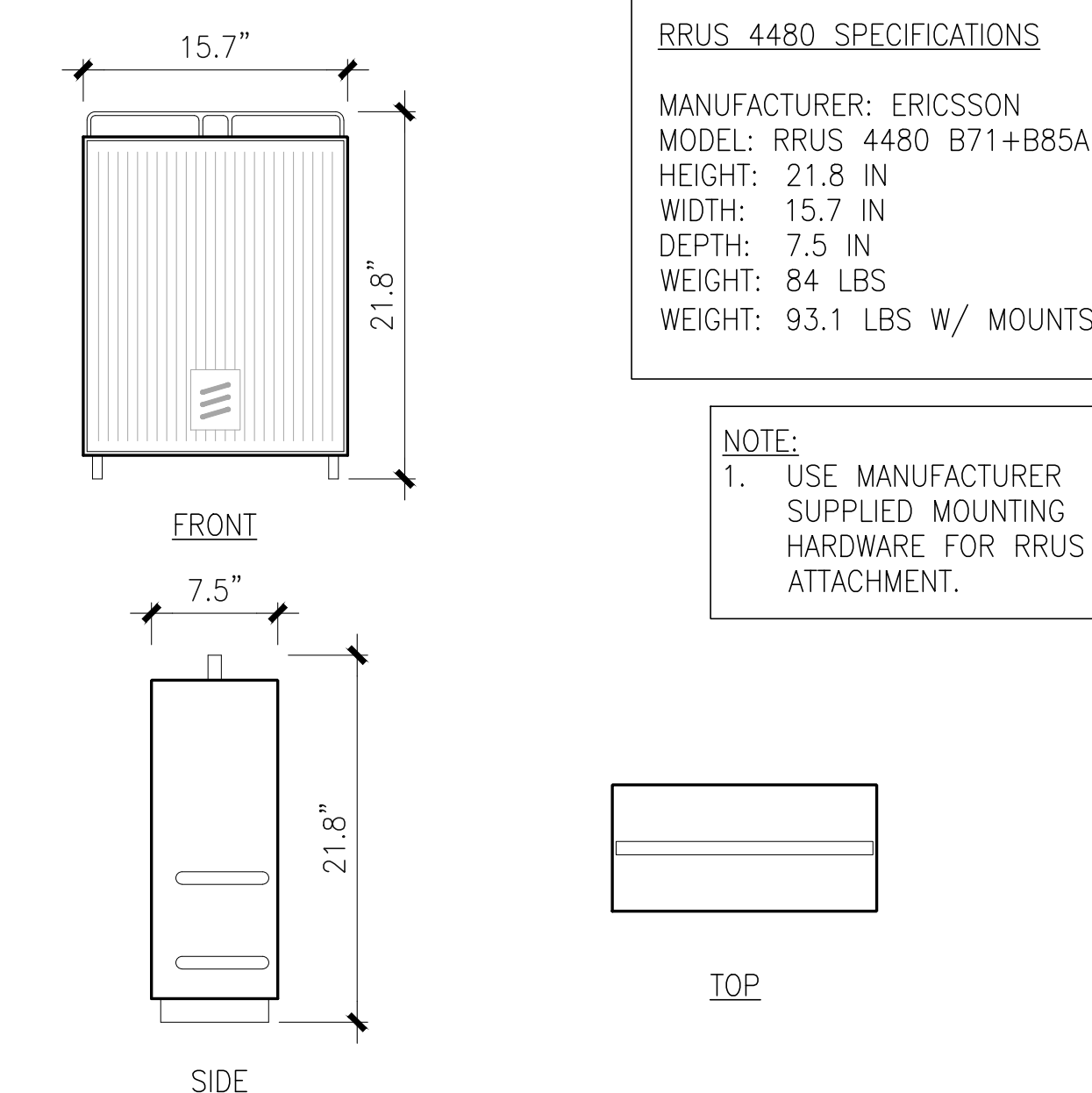
ANTENNA SPECIFICATIONS SCALE N.T.S. 3

RRU MOUNTING DET. (STACKED) SCALE N.T.S. 4



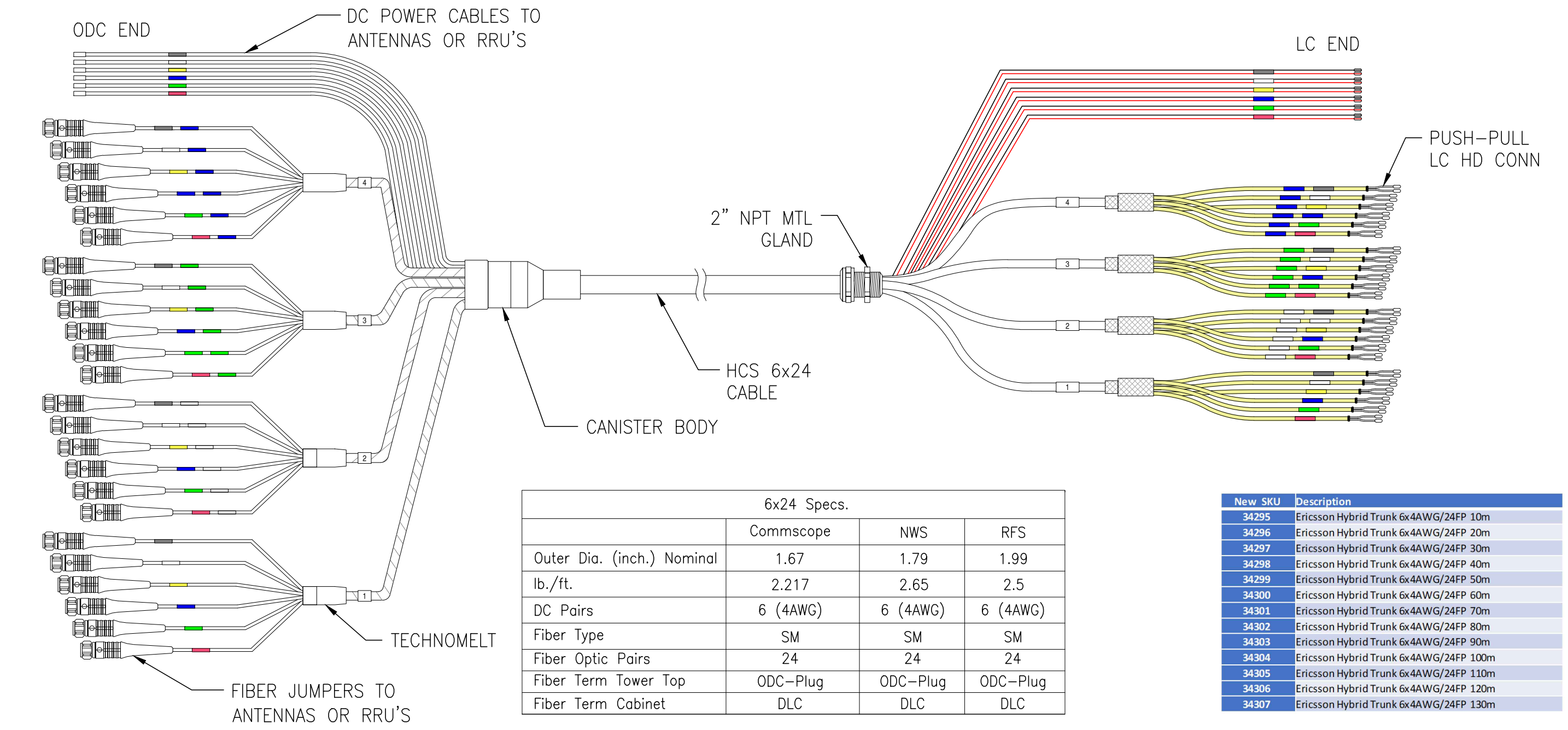
RRUS 4460 SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: RRUS 4460 B25
 HEIGHT: 19.6 IN
 WIDTH: 15.7 IN
 DEPTH: 12.1 IN
 WEIGHT: 109 LBS
 WEIGHT: 118.1 LBS W/ MOUNTS

NOTE:
 1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE FOR RRUS ATTACHMENT.



RRUS 4480 SPECIFICATIONS
 MANUFACTURER: ERICSSON
 MODEL: RRUS 4480 B71+B85A
 HEIGHT: 21.8 IN
 WIDTH: 15.7 IN
 DEPTH: 7.5 IN
 WEIGHT: 84 LBS
 WEIGHT: 93.1 LBS W/ MOUNTS

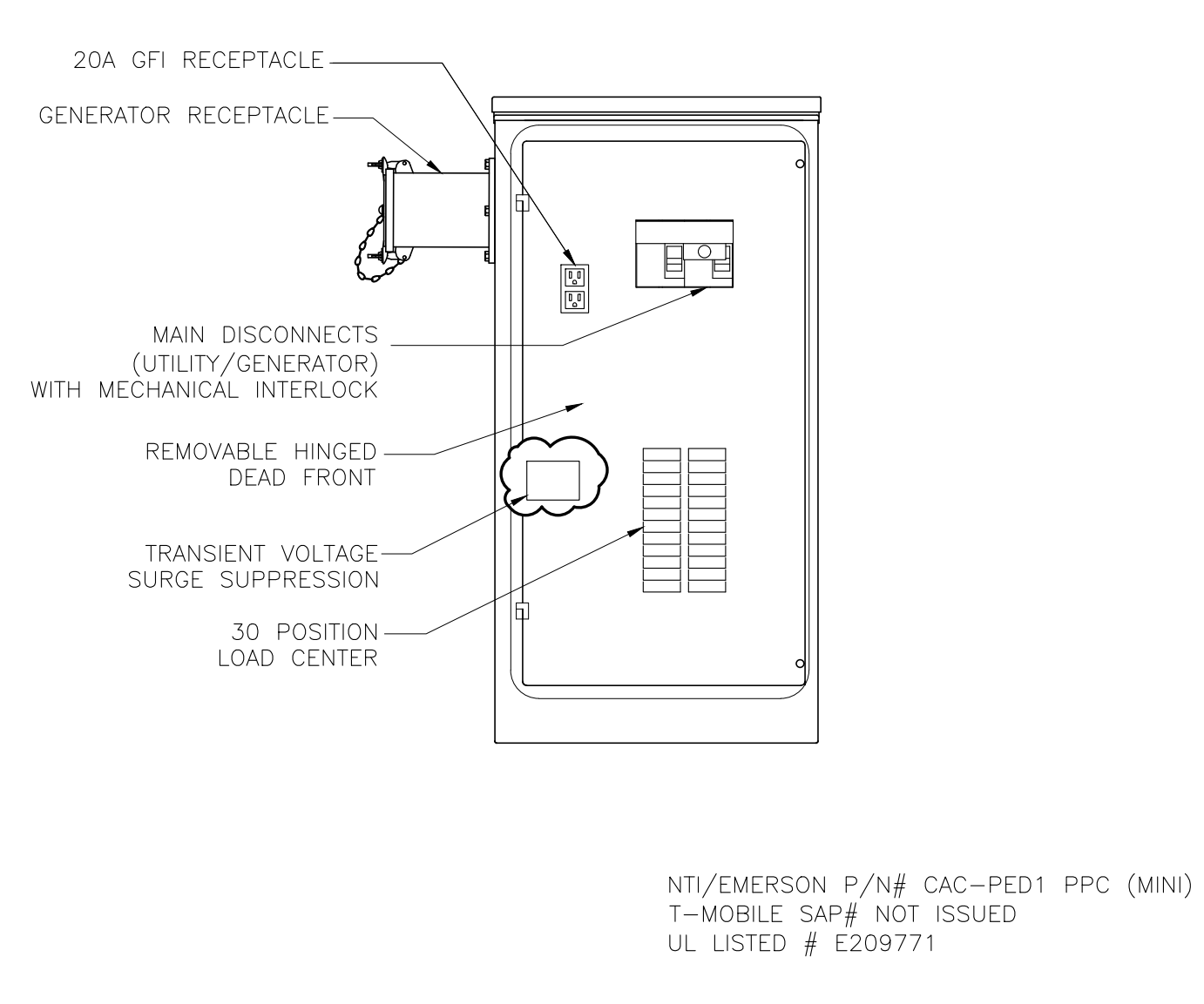
NOTE:
 1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE FOR RRUS ATTACHMENT.



RRUS 4460 B25 SPECIFICATIONS SCALE N.T.S. 5

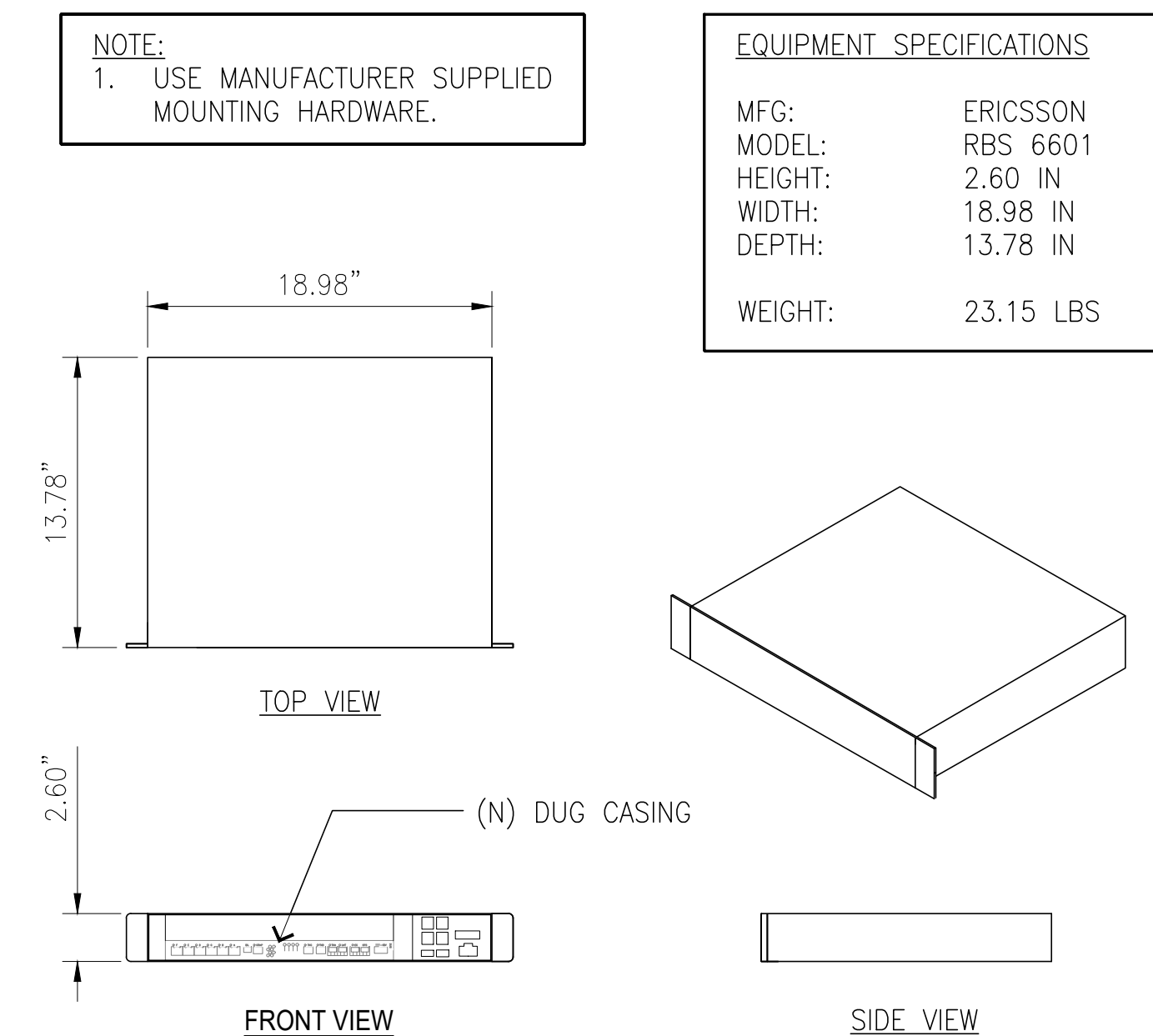
RRUS 4480 B71+B85A SPECIFICATIONS SCALE N.T.S. 6

HCS 6x24 4AWG CABLE SPECS SCALE N.T.S. 8



NTI/EMERSON P/N# CAC-PED1 PPC (MINI)
 T-MOBILE SAP# NOT ISSUED
 UL LISTED # E209771

200A PPC CABINET SCALE N.T.S. 9

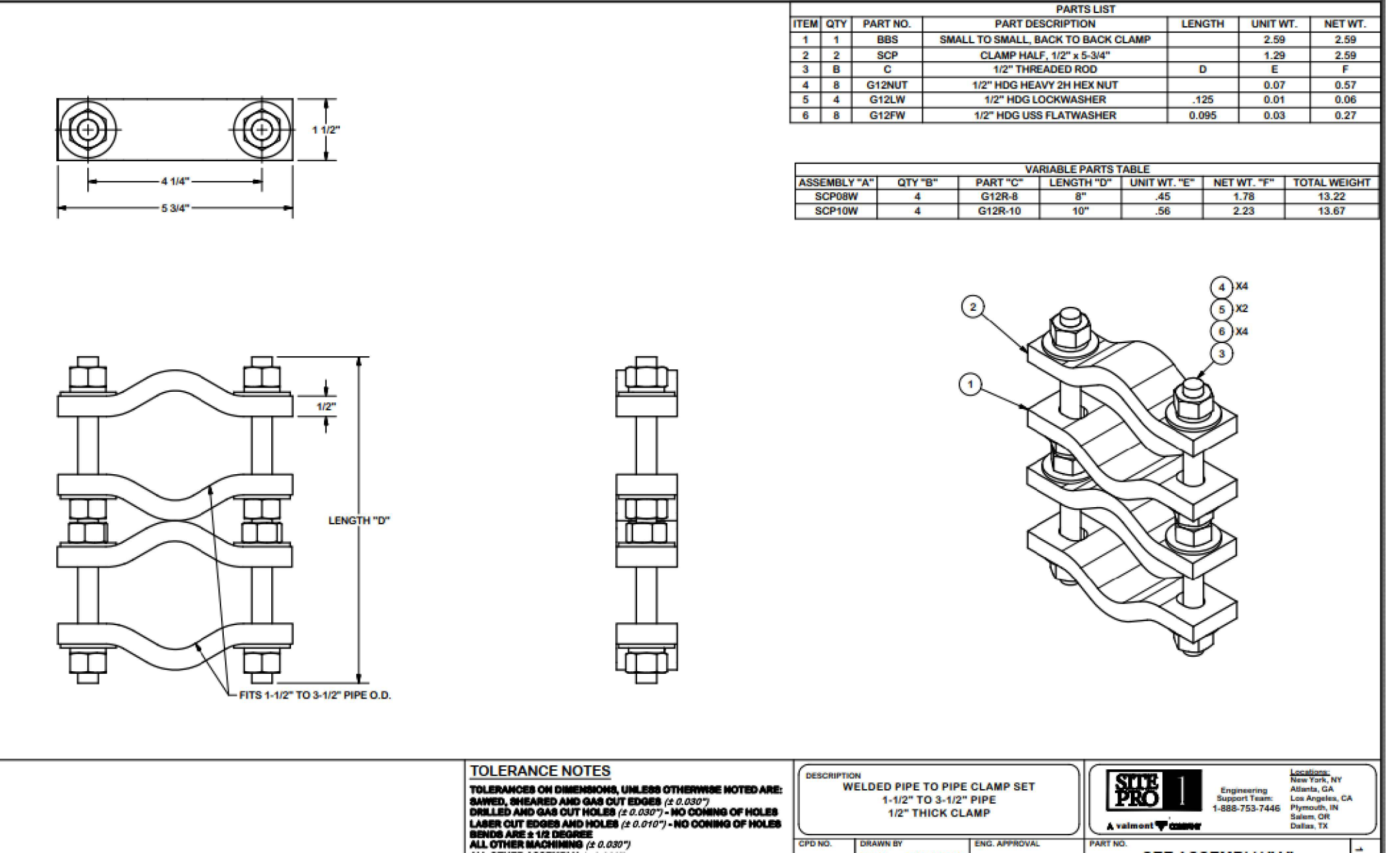


EQUIPMENT SPECIFICATIONS
 MFG: ERICSSON
 MODEL: RBS 6601
 HEIGHT: 2.60 IN
 WIDTH: 18.98 IN
 DEPTH: 13.78 IN
 WEIGHT: 23.15 LBS

RBS 6601 - V2 CHASSIS SPECS. SCALE N.T.S. 10



PIPE-TO-PIPE MOUNT SCALE N.T.S. 12



WELDED PIPE TO PIPE CLAMP SET SCALE N.T.S. 12



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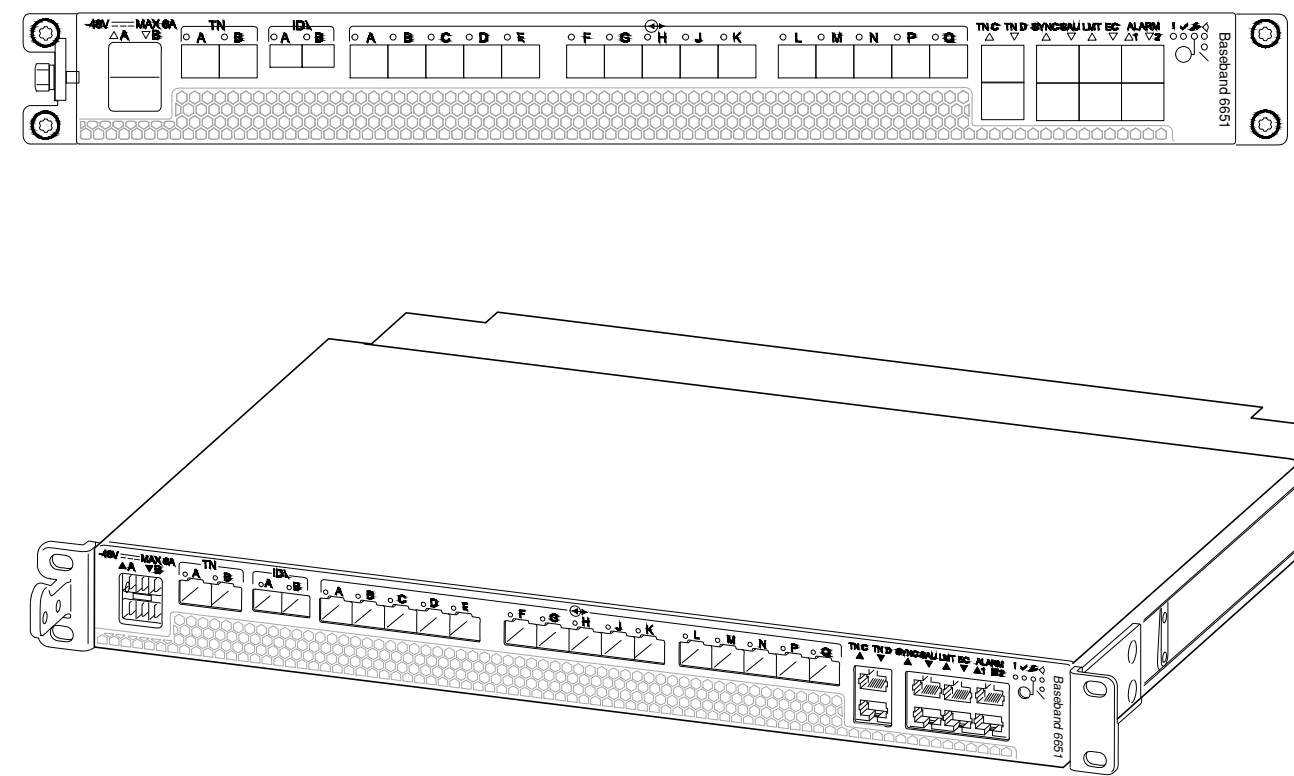


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SHEET TITLE
DETAILS
 SHEET NUMBER
D1

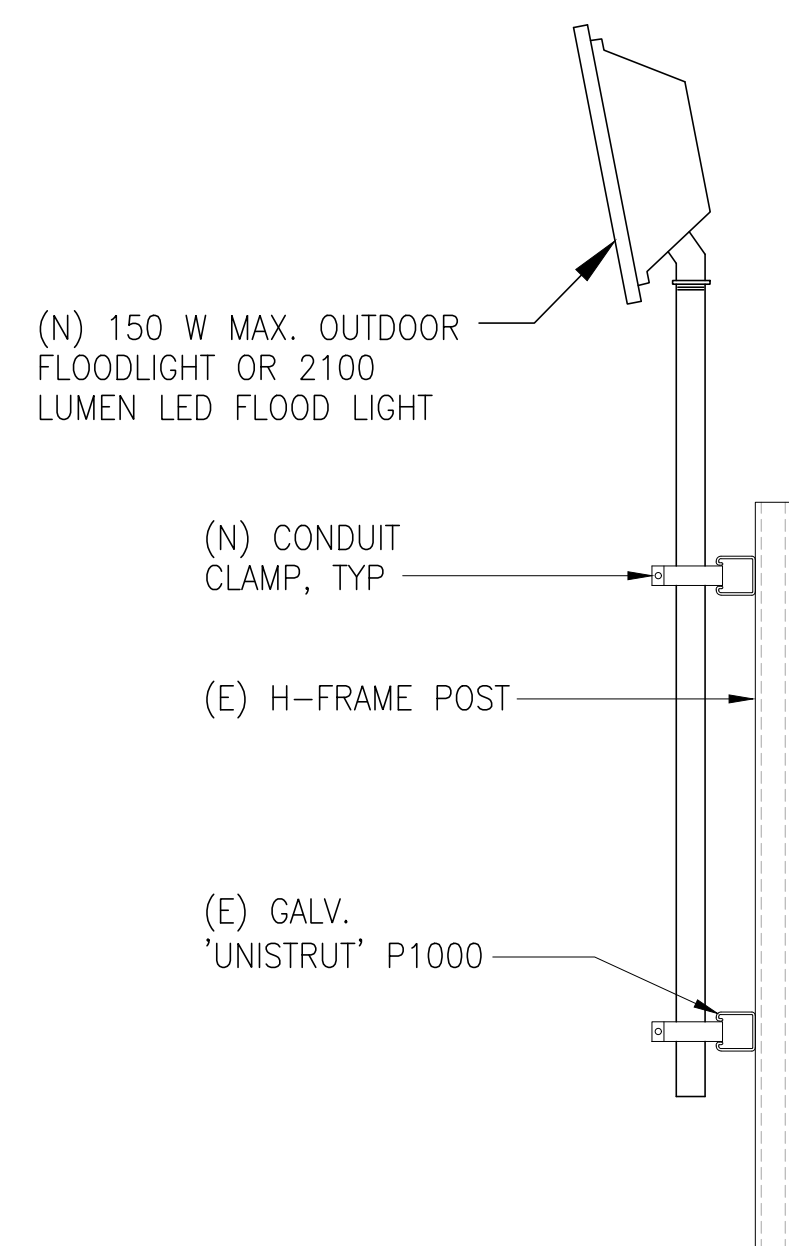
NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE

EQUIPMENT SPECIFICATIONS
MANUFACTURER: ERICSSON
MODEL: BASEBAND 6651
HEIGHT: 1.7 IN
WIDTH: 13.86 IN
DEPTH: 19 IN
WEIGHT: 16.53 LBS



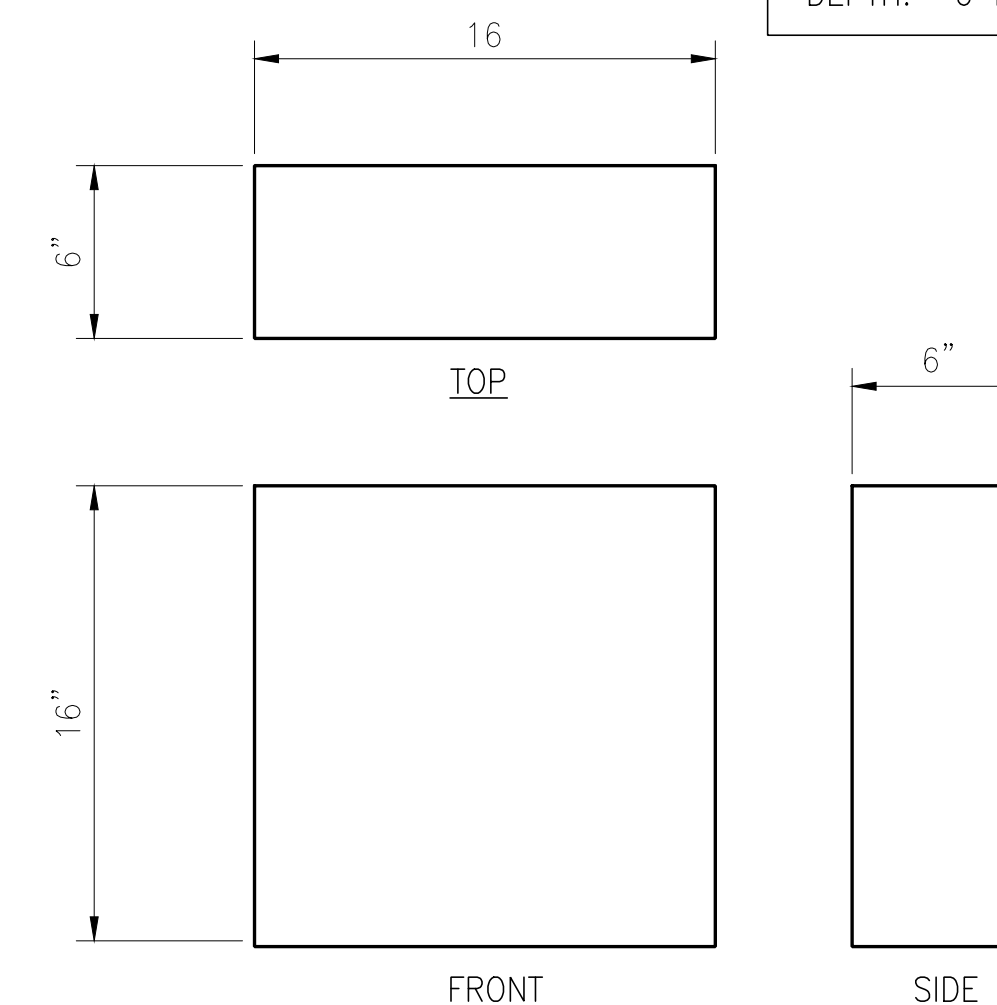
NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

SPECIFICATIONS
MFG: NOKIA
MODEL: 7250 IXR-e
HEIGHT: 1.75 IN
WIDTH: 17.25 IN
DEPTH: 10.00 IN



NOTE:
1. USE MANUFACTURER SUPPLIED MOUNTING HARDWARE.

SPECIFICATIONS
MFG: HOFFMAN
MODEL: A161606LP
HEIGHT: 16 IN
WIDTH: 16 IN
DEPTH: 6 IN



BASEBAND 6651 SPECS

SCALE N.T.S. 1

7250 IXR-e ROUTER DETAIL

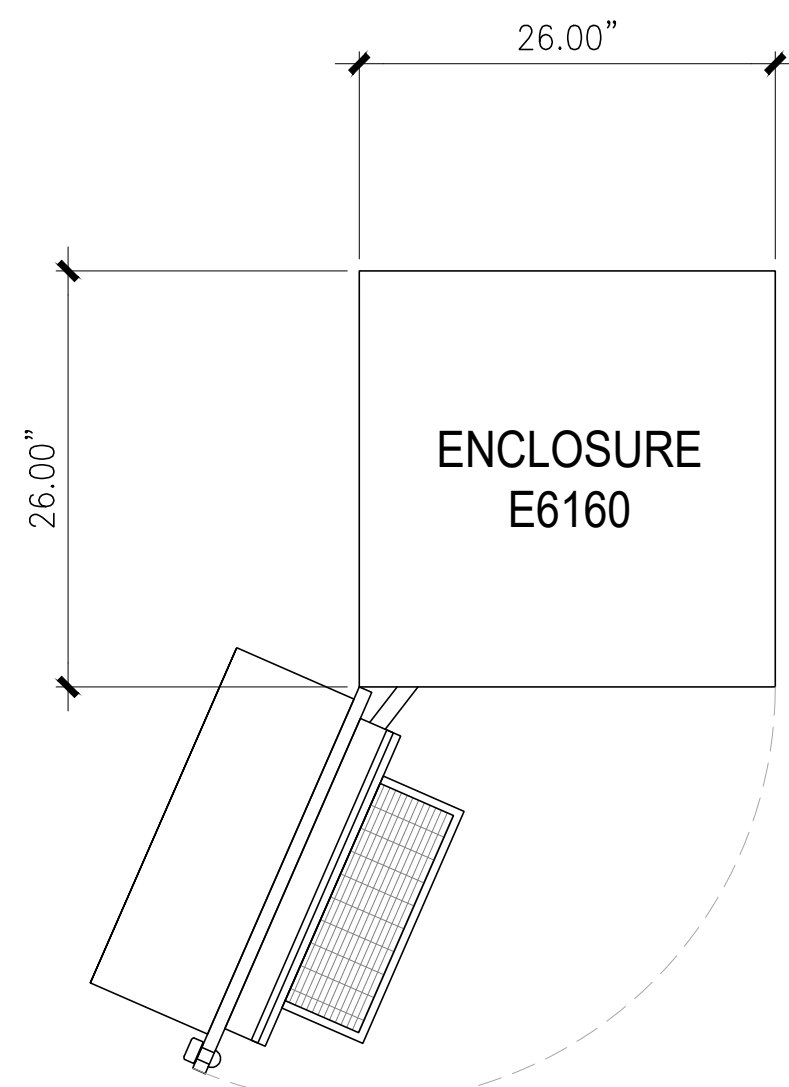
SCALE N.T.S. 2

MAINTANCE LIGHT DETAIL

SCALE N.T.S. 3

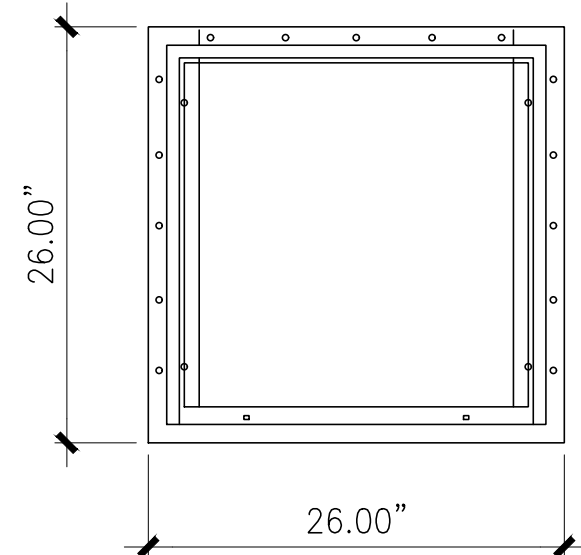
HCS WINDER CAN DETAIL

SCALE N.T.S. 4

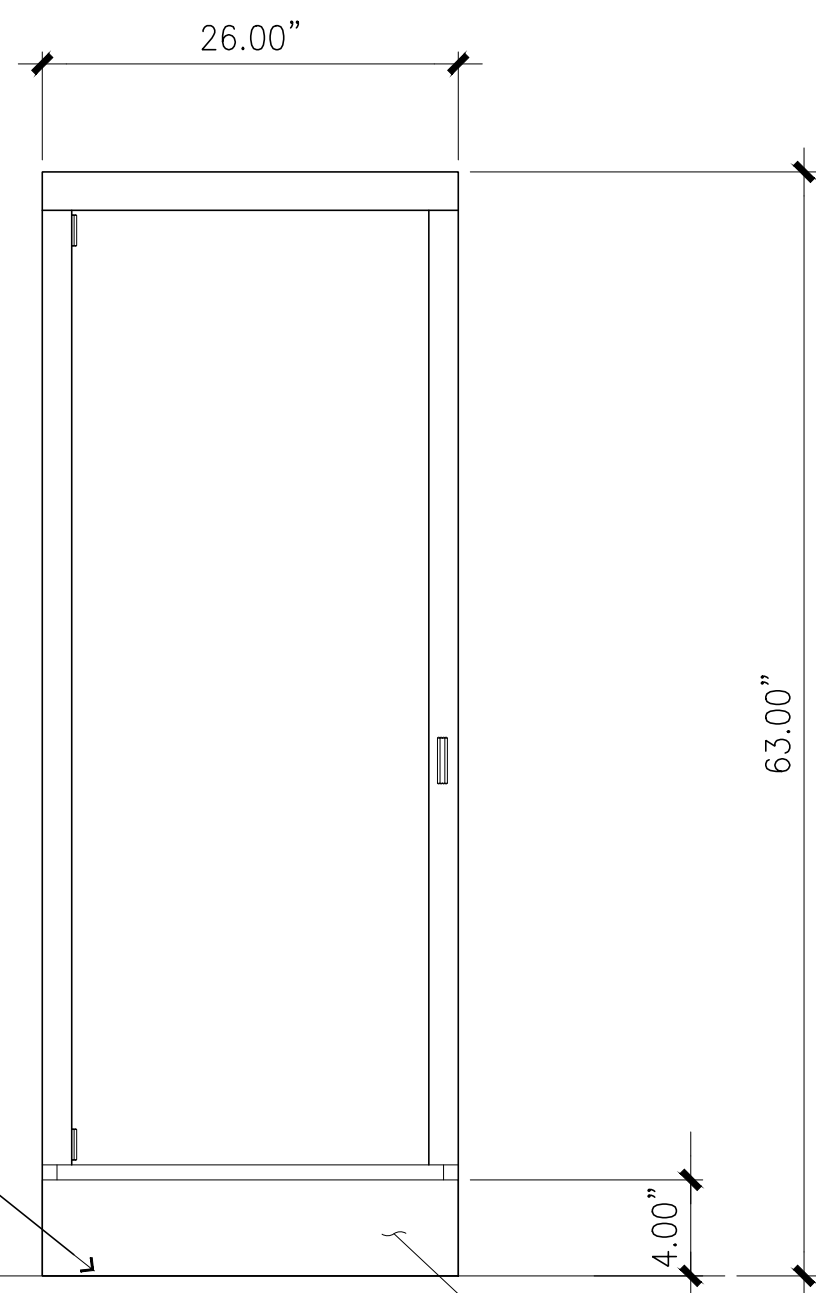


PLAN VIEW

E6160 SPECIFICATIONS
MANUFACTURER: ERICSSON
MODEL: E6160
HEIGHT: 63"
WIDTH: 26"
DEPTH: 26"
WEIGHT: 320 LBS. (SHELL)
WEIGHT: 465 LBS. (W/ ACTIVE COMPONENTS)

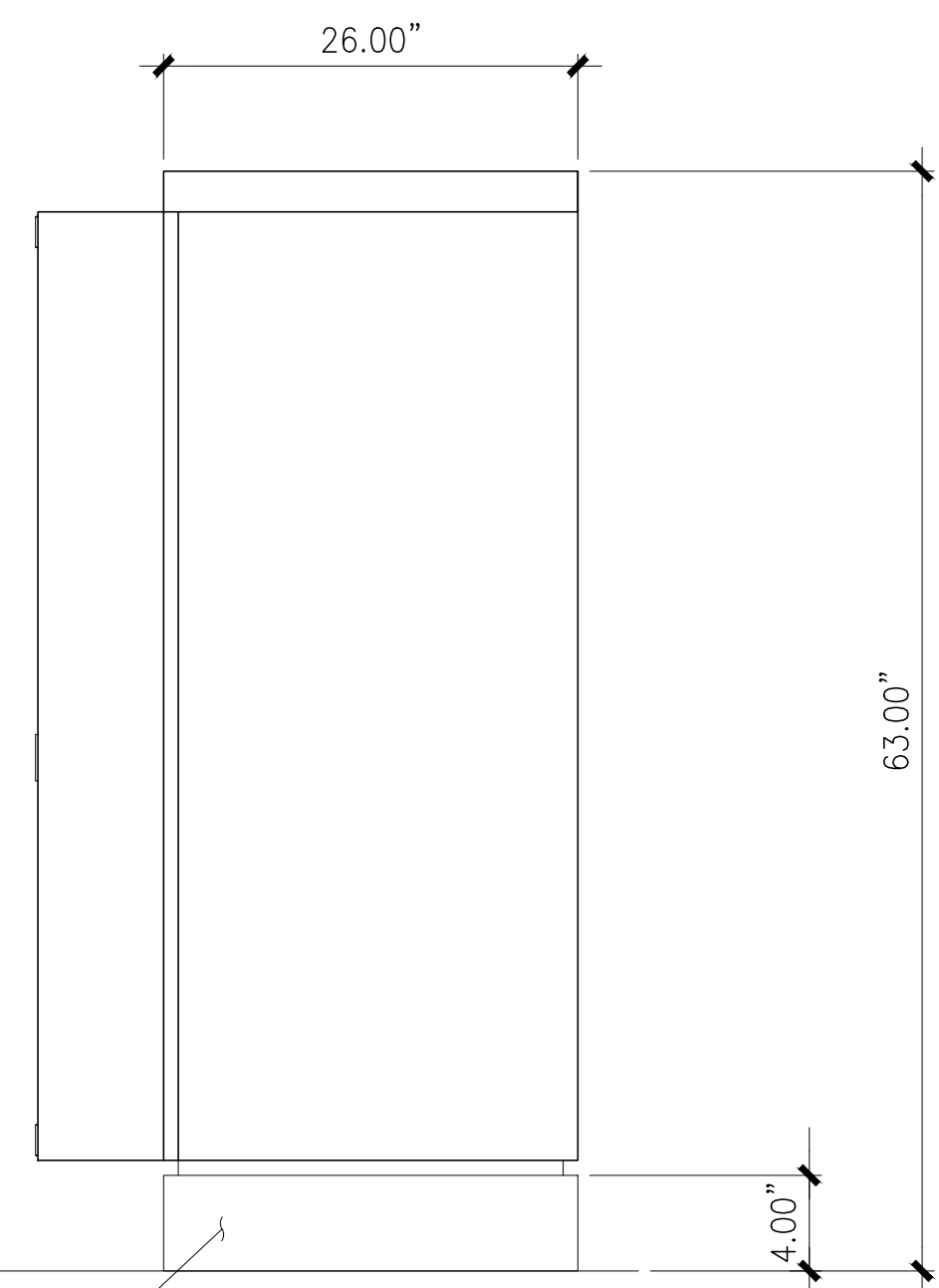


BOLT HOLE PATTERN

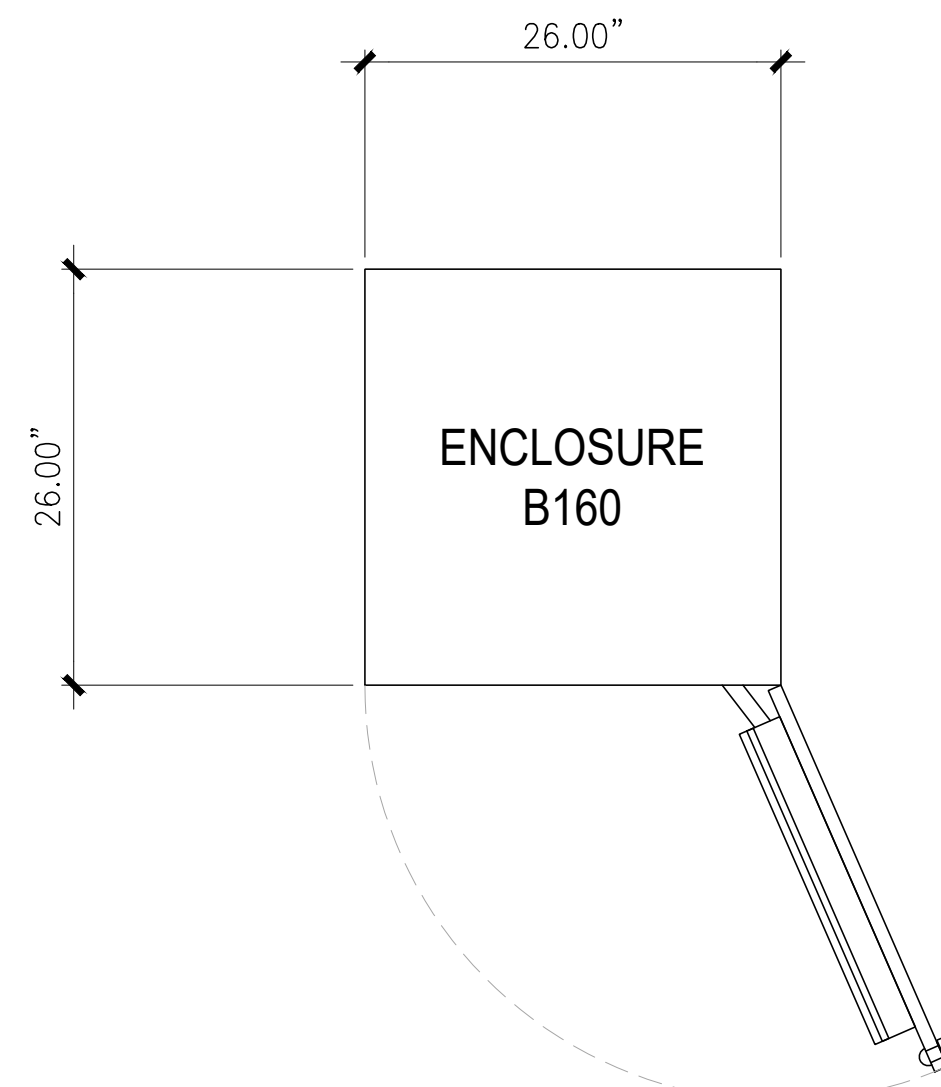


FRONT VIEW

BASE FRAME



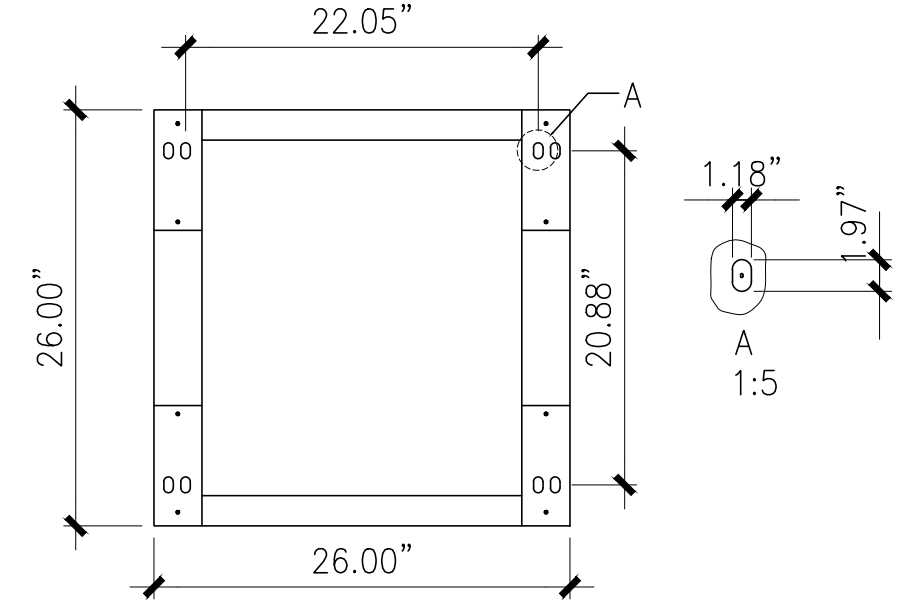
SIDE VIEW



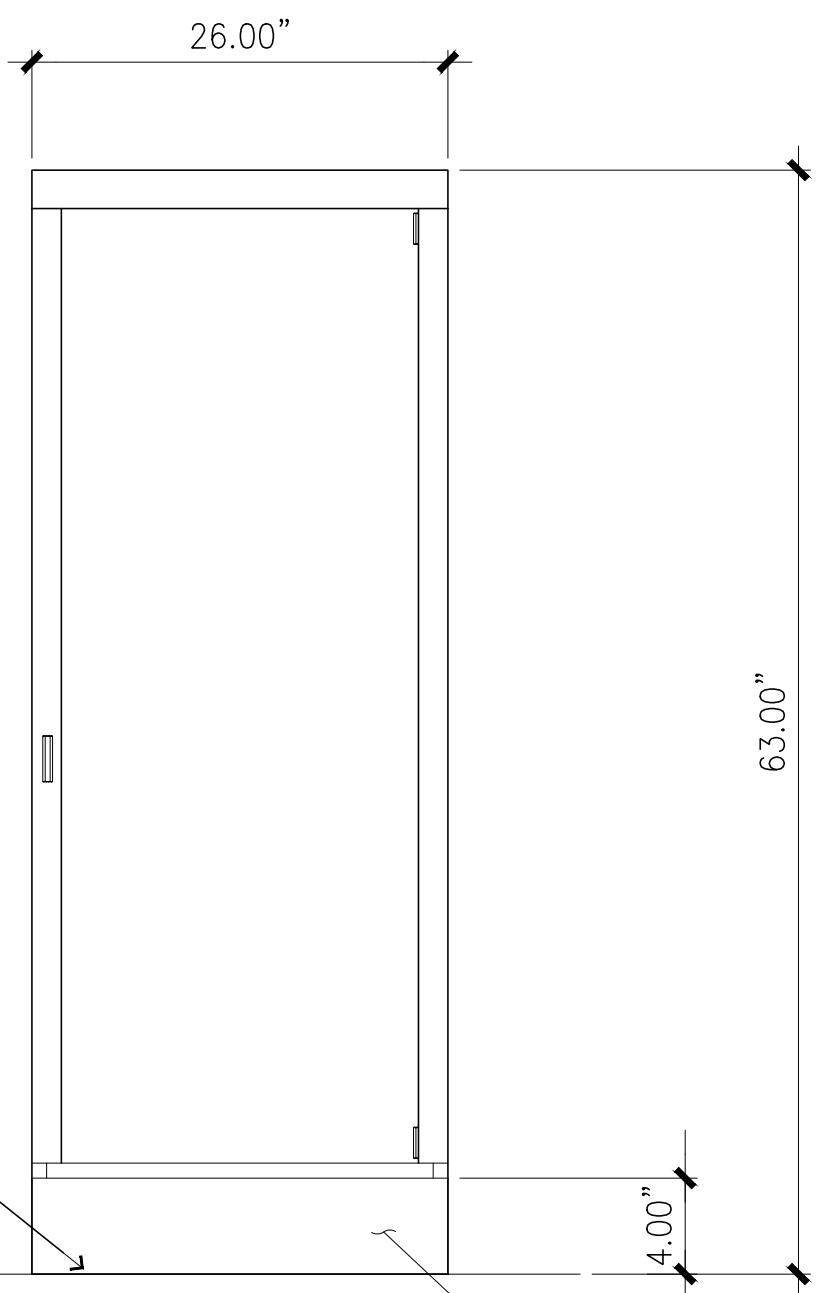
PLAN VIEW

NOTE:
(N) BATTERY CABINET B160 IS REQUIRED WITH EACH NEW E6160 REGARDLESS OF GENERATOR STATUS.

B160 SPECIFICATIONS
MANUFACTURER: ERICSSON
MODEL: B160
HEIGHT: 63"
WIDTH: 26"
DEPTH: 26"
WEIGHT: 296 LBS. (134 KG.) (INCL BASE FRAME)
MAX WEIGHT: 1,160 (NORTHSTAR NSB 100FT RED BATTERY, 72 lbs. ea. x 12)

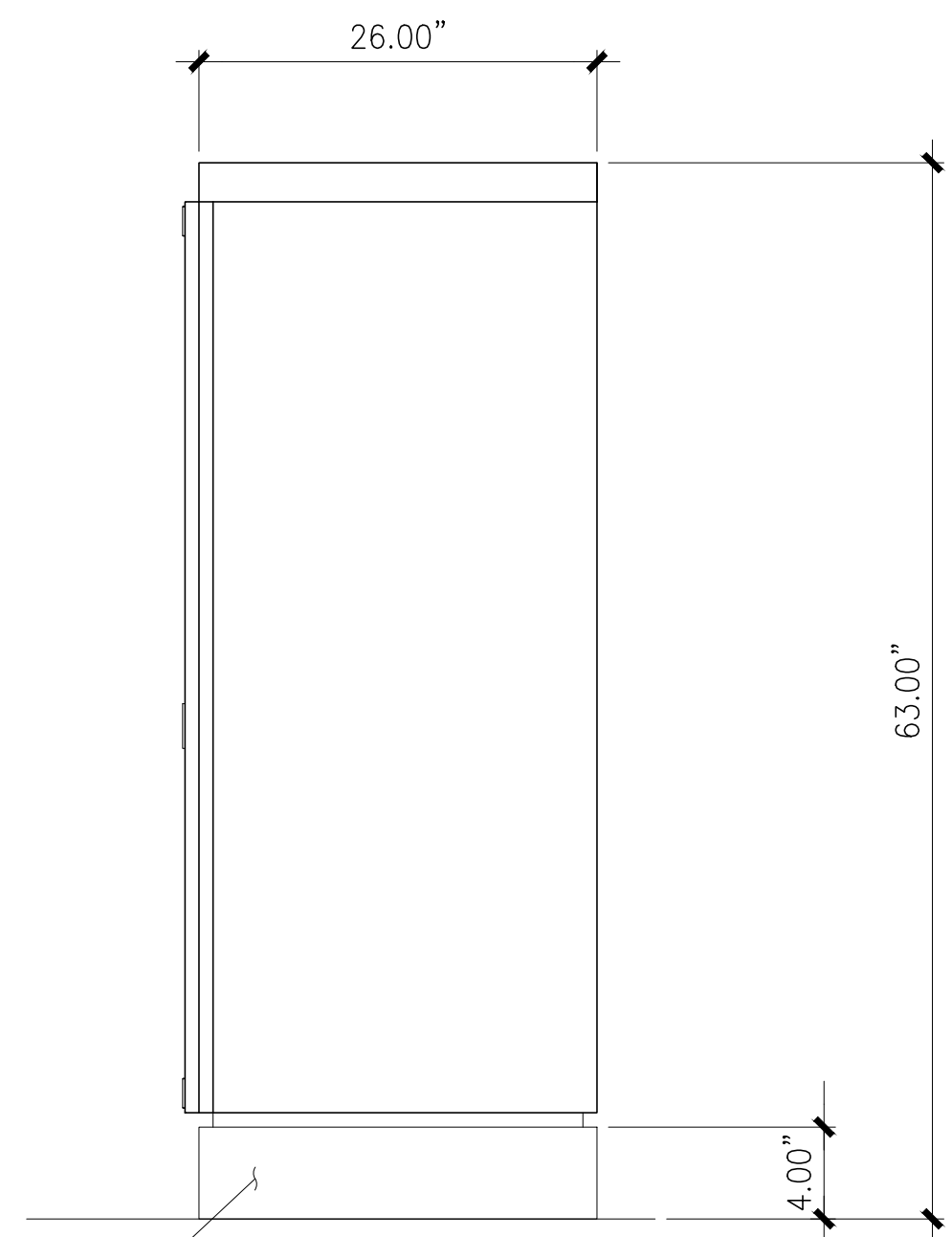


BOLT HOLE PATTERN



FRONT VIEW

BASE FRAME



SIDE VIEW

E6160 SSC CABINET SPECIFICATIONS

SCALE 1"=1'-0" 10

B160 BATTERY CABINET SPECIFICATIONS

SCALE 1"=1'-0" 12



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8



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SHEET TITLE
DETAILS

SHEET NUMBER
D2

STRUCTURAL NOTES

A. STRUCTURAL DESIGN CRITERIA

- THE STRUCTURAL DESIGN HAS BEEN PERFORMED IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE.
- LIVE LOADS
ROOF 20 psf
- WIND DESIGN DATA
ULTIMATE WIND SPEED V = 92 mph
RISK CATEGORY II
EXPOSURE CATEGORY C
- SEISMIC DESIGN DATA
RISK CATEGORY II
SEISMIC IMPORTANCE FACTOR I_e = 1.0
MAPPED SPECTRAL ACCELERATION S_s = 1.500
MAPPED SPECTRAL ACCELERATION S₁ = 0.600
SITE CLASS D
DESIGN SPECTRAL ACCELERATION S_{DS} = 1.200
DESIGN SPECTRAL ACCELERATION S_{D1} = 0.680
SEISMIC DESIGN CATEGORY D

B. GENERAL

- SPECIFIC NOTES AND DETAILS ON THE STRUCTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- STRUCTURAL DRAWINGS SHALL NOT BE SCALED. COORDINATE DIMENSION, ELEVATION, SLOPE, AND DRAINAGE REQUIREMENTS WITH THE ARCHITECTURAL DRAWINGS.
- STANDARDS REFERENCED ON THE STRUCTURAL DRAWINGS REFER TO THE EDITION APPLICABLE UNDER THE APPLICABLE BUILDING CODE.
- THE RESPONSIBILITY FOR THE REVIEW AND COORDINATION OF DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF RELATED CONSTRUCTION SHALL BEAR ON THE CONTRACTOR. DISCREPANCIES THAT EXIST SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER, PRIOR TO START OF RELATED CONSTRUCTION.
- WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- EXISTING CONDITIONS SHALL BE VERIFIED BEFORE STARTING RELATED WORK. EXISTING CONDITIONS THAT ARE NOT REFLECTED ON THE STRUCTURAL DRAWINGS OR THAT DEVIATE FROM THE MAXIMUM OR MINIMUM DIMENSIONS INDICATED SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN A TIMELY MANNER. SUCH CONDITIONS MAY INCLUDE CONFLICT IN GRADES, ADVERSE SOIL CONDITIONS, PRESENCE OF GROUND WATER, UNCOVERED OR UNEXPECTED EXISTING CONSTRUCTION CONFIGURATIONS, ETC.
- MATERIALS AND WORKMANSHIP SHALL CONFORM TO REQUIREMENTS OF APPLICABLE REGULATIONS AND THE BUILDING CODE AS AMENDED AND ADOPTED BY THE BUILDING OFFICIAL.
- LOADS TO THE BUILDING AND/OR EXISTING STRUCTURES EXCEEDING THE LOADS INDICATED ON THE PLANS, OR ANY LOADS EXCEEDING 400 POUNDS THAT ARE NOT INDICATED ON THE STRUCTURAL DRAWINGS SHALL BE REPORTED TO THE ENGINEER.

C. TEMPORARY WORK AND SITE SAFETY

- THE STRUCTURAL DRAWINGS SHOW THE REQUIREMENTS FOR THE COMPLETED STRUCTURE ONLY. TEMPORARY WORKS REQUIRED TO COMPLETE THE CONSTRUCTION PROCESS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE STRUCTURAL ENGINEER SHALL NOT BE RESPONSIBLE FOR THE DESIGN OR FIELD VERIFICATION OF TEMPORARY AND ANCILLARY WORK.
- THE RESPONSIBILITY FOR SAFETY IN AND AROUND THE JOBSITE SHALL BEAR ON THE CONTRACTOR. PROPER AND SAFE METHODS OF CONSTRUCTION SHALL BE EMPLOYED AT ALL TIMES INCLUDING THE STABILIZING OF INCOMPLETE STRUCTURES, FORMWORK, SHORING, RESHORING, FALSEWORK, PLATFORMS, SCAFFOLDING, BARRIERS, WALKWAYS, ETC. AND INCLUDING CONTROL OF THE INTENSITY, DURATION AND LOCATION OF CONSTRUCTION LOADS.
- THE RESPONSIBILITY FOR THE DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, UNDERPINNING, AND SHORING REQUIRED TO SAFELY RETAIN ALL GRADES AND STRUCTURES SHALL BEAR ON THE CONTRACTOR.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON A STRUCTURE. LOADS SHALL NOT EXCEED THE DESIGN LIVE LOAD INDICATED. WHERE THE STRUCTURE HAS NOT ATTAINED FINAL DESIGN STRENGTH, ADEQUATE SHORING AND OR BRACING SHALL BE INSTALLED.

D. ROOFING AND WEATHERPROOFING

- THE CONTRACTOR SHALL GUARANTEE THE FINISHED INSTALLATION AS WEATHER TIGHT AND FREE-DRAINING UPON COMPLETION DIRECTLY TO THE BUILDING OWNER AND TO THE WIRELESS CARRIER.
- WORK DONE ON PROPRIETARY WEATHERPROOFING SYSTEMS SHALL BE COMPLETED BY INSTALLERS TRAINED BY A QUALIFIED REPRESENTATIVE OF THE WEATHERPROOFING MANUFACTURER. TRAINING SHALL INCLUDE PROPER PROCEDURES AND TECHNIQUES FOR INSTALLTION.
- THE CONTRACTOR SHALL INVESTIGATE ALL WEATHERPROOFING REQUIREMENTS FOR THE WORK SHOWN ON THESE DRAWINGS PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD OF ANY POTENTIAL WEATHERPROOFING ISSUES.

E. WELDING

- WELDING OF STRUCTURAL STEEL SHALL BE PERFORMED BY CERTIFIED WELDERS IN ACCORDANCE WITH THE PROVISIONS OF THE AMERICAN WELDING SOCIETY (AWS) D1.1. ELECTRODE FILLER MATERIAL SHALL BE A MINIMUM OF E70XX U.N.O.
- SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.

- WELDING ELECTRODES FOR THE SHIELDED METAL-ARC WELDING (S.M.A.W.) PROCESS AND WELDING ELECTRODES SHALL CONFORM TO AWS A5.1 "SPECIFICATION FOR CARBON STEEL ELECTRODES FOR SHIELDED METAL ARC WELDING."
- WELDING ELECTRODES FOR THE FLUX CORED ARC WELDING (F.C.A.W.) PROCESS AND WELDING ELECTRODES SHALL CONFORM TO AWS A5.20 "SPECIFICATION FOR CARBON STEEL ELECTRODES FOR FLUX CORED ARC WELDING."
- WELDS SHALL HAVE A WELD CONTROLLED SEQUENCE AND TECHNIQUE IN ORDER TO MINIMIZE SHRINKAGE STRESSES AND DISTORTION.

F. STRUCTURAL STEEL

- STRUCTURAL STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH CHAPTER 22 OF THE BUILDING CODE, AISC 360 "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" AND AISC 303 "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES".
- SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- STRUCTURAL STEEL STRENGTHS AND GRADES SHALL BE AS FOLLOWS, U.N.O.

DESCRIPTION	F _y	ASTM
ANGLES, CHANNELS, & PLATES	36 ksi	A36
PIPE	35 ksi	A53 GR B
ROUND HSS	42 ksi	A500 GR B
SQUARE AND RECTANGULAR HSS	46 ksi	A500 GR B
W SHAPES	50 ksi	A992

- THREADED RODS SHALL CONFORM TO ASTM F1554 GR 55, UNO. NUTS FOR ANCHOR RODS SHALL CONFORM TO ASTM A563, GR A HEX. WHERE ANCHOR ROD DIAMETER IS GREATER THAN 1 1/2" NUTS SHALL BE HEAVY HEX.
- BOLTS SHALL CONFIRM TO ASTM A325N. OTHER BOLTS SHALL CONFORM TO ASTM A307 WHERE NOTED. NUTS FOR HIGH STRENGTH BOLTS SHALL BE HEAVY HEX GRADE C CONFORMING TO ASTM A 563.
- TIGHTEN ASTM A325N BOLTS TO "SNUG-TIGHT" CONDITION PER AISC SPECIFICATION FOR STRUCTURAL JOINTS.
- EXTERIOR STRUCTURAL STEEL PERMANENTLY EXPOSED TO THE WEATHER SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A 123, G60. GALVANIZED SURFACES DAMAGED BY SUBSEQUENT WELDING AND OTHER WORK SHALL BE REPAIRED IN ACCORDANCE WITH ASTM A 780.

G. ROUGH CARPENTRY

- UNLESS OTHERWISE NOTED, FRAMING LUMBER SHALL BE DOUGLAS FIR LARCH NO. 2, GRADE-MARKED BY THE WCLIB OR WWPA.
- ALL FRAMING LUMBER SHALL HAVE A MOISTURE CONTENT OF LESS THAN 19%.
- METAL FRAMING ACCESSORIES ARE REFERRED TO ON PLANS BY PARTICULARE TYPE AS MANUFACTURED BY THE SIMPSON STRONG-TIE COMPANY.
- FRAMING LUMBER IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED.
- NAILS SHALL BE COMMON WIRE. NAILING SHALL COMPLY WITH TABLE 2304.10.1 OF THE BUILDING CODE. NAILS EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.
- SHEATHING SHALL BE APA-RATED STRUCTURAL USE PANELS CONFORMING TO PRODUCT STANDARD PS 1 FOR PLYWOOD OR PS 2 FOR ORIENTED STRAND BOARD.
- FLOOR SHEATHING SHALL BE TONGUE AND GROOVE, INTERIOR TYPE WITH EXTERIOR GLUE, SPAN INDEX (32/16). 2X BLOCKING MAY BE USED AT ALL UNSUPPORTED EDGES IN LIEU OF TONGUE AND GROOVE EDGES. PLYWOOD FLOOR SHEATHING SHALL BE GLUED TO ALL FRAMING MEMBERS WITH AN APA-APPROVED ADHESIVE.
- ROOF SHEATHING SHALL BE INTERIOR TYPE WITH EXTERIOR GLUE, SPAN INDEX (24/0).
- DO NOT BORE OR NOTCH FRAMING LUMBER EXCEPT WHERE SHOWN IN DETAILS. OBTAIN ENGINEER'S APPROVAL FOR ANY HOLES OR NOTCHES NOT DETAILED. HOLES THROUGH SILLS, PLATES, STUDS, AND DOUBLE PLATES IN INTERIOR BEARING AND SHEAR WALLS SHALL NOT EXCEED 1/3 THE PLATE OR STUD WIDTH. USE BORED HOLES LOCATED IN THE CENTER OF THE STUD OR PLATE.
- FRAMING LUMBER SHALL BE INSTALLED WITH THE CROWN SIDE UP.
- BOLT HOLES IN WOOD SHALL BE DRILLED 1/32" TO 1/16" IN DIAMETER LARGER THAN THE NOMINAL BOLT SIZE. RETIGHTEN ALL NUTS PRIOR TO CLOSING IN.
- BOLTS SHALL HAVE A 7 DIA. MIN. END DISTANCE AND A 4 DIA. EDGE DISTANCE, U.O.N.
- STANDARD CUT WASHERS SHALL BE USED UNDER ALL BOLT HEADS AND NUTS AGAINST WOOD. USE HEAVY PLATE OR MALLEABLE IRON WASHERS FOR ALL BOLTS DESIGNED TO ACT IN TENSION, SUCH AS LEDGERS AND HOLD DOWN ANCHORS.
- LAG BOLTS SHALL BE PRE-DRILLED TO A DIAMETER OF 60 PERCENT OF THE SHANK DIAMETER. THE BOLT SHALL BE TURNED BY A WRENCH AND NOT HAMMERED.
- CUTS AND HOLES IN PRESSURE TREATED LUMBER SHALL BE TREATED PER AWPA M 84.

H. POST-INSTALLED EXPANSION ANCHORS

- SPECIAL INSPECTION AND TESTING IS REQUIRED IN ACCORDANCE WITH SECTIONS 1704 AND 1705 OF THE BUILDING CODE AND THE "STATEMENT OF SPECIAL INSPECTIONS" ON THESE CONSTRUCTION DOCUMENTS.
- POST-INSTALLED EXPANSION ANCHORS SHALL BE AS FOLLOWS, U.N.O.
MATERIAL ANCHOR
NW & LW CONCRETE HILTI KB-T22 (ESR-4266)
SOLID GROUTED CMU HILTI KB-T22 (ESR-4561)

- ANCHORS SHALL BE OF THE TYPE, DIAMETER, AND MINIMUM DIMENSIONAL REQUIREMENTS (EMBEDMENT, SPACING, AND EDGE DISTANCE) AS INDICATED ON THE DRAWINGS.
- ANCHORS SHALL BE INSTALLED IN HOLES DRILLED WITH DRILLING EQUIPMENT OF THE TYPE REQUIRED IN THE MANUFACTURER'S PUBLISHED EVALUATION REPORT. HOLES SHALL BE CLEANED IN CONFORMANCE WITH THE ANCHOR MANUFACTURER'S INSTRUCTIONS.
- WHEN INSTALLING ANCHORS IN EXISTING REINFORCED CONCRETE OR MASONRY, AVOID CUTTING OR DAMAGING THE EXISTING REINFORCING BARS.
- WHEN INSTALLING ANCHORS INTO PRESTRESSED CONCRETE (PRE- OR POST-TENSIONED), LOCATE THE PRESTRESSED TENDONS BY USING A NON-DESTRUCTIVE METHOD PRIOR TO INSTALLATION. AVOID CUTTING OR DAMAGING THE TENDONS.

STRUCTURAL ABBREVIATIONS

THE STRUCTURAL DRAWINGS MAY INCLUDE THE FOLLOWING STANDARD ABBREVIATIONS:

(E)	EXISTING
(N)	NEW
(P)	PROPOSED
B.N.	BOUNDARY NAILING
BLDG	BUILDING
BM	BEAM
BOTT	BOTTOM
BRG	BEARING
CL	CENTERLINE
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS
CTR	CENTER
CTSK	COUNTERSUNK
DBL	DOUBLE
E.N.	EDGE NAILING
EA	EACH
EQUIP	EQUIPMENT
F.N.	FIELD NAILING
FTG	FOOTING
GALV	GALVANIZED
GLB	GLULAM BEAM / MEMBER
HGR	HANGER
HORIZ	HORIZONTAL
HSS	HOLLOW STEEL SECTION
INT	INTERIOR
k	KIP(S) = 1,000 lb
lb	POUND(S)
MFR	MANUFACTURER
MTL	METAL
O.D.	OUTSIDE DIAMETER
PL	PLATE
psf	POUNDS PER SQUARE FOOT
REINF	REINFORCEMENT
REQ'D	REQUIRED
SQ	SQUARE
STIFF	STIFFENER
STL	STEEL
T&B	TOP & BOTTOM
THK	THICK
TPL	TRIPLE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W/	WITH



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SHEET TITLE
**STRUCTURAL
NOTES**

SHEET NUMBER

S-0

SPECIAL INSPECTION AND TESTING PROGRAM

A. GENERAL

- NOTICE TO THE APPLICANT, OWNER, OWNER'S AGENT, ARCHITECT OR ENGINEER OF RECORD:** BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CONSTRUCTION CODES.
- NOTICE TO THE CONTRACTOR, BUILDER, INSTALLER, SUBCONTRACTOR OR OWNER-BUILDER:** BY USING THESE PERMITTED CONSTRUCTION DRAWINGS FOR CONSTRUCTION OR INSTALLATION OF THE WORK SPECIFIED HEREIN, YOU ACKNOWLEDGE THAT YOU ARE AWARE OF THE REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS. YOU AGREE TO COMPLY WITH THE REQUIREMENTS OF THE BUILDING OFFICIAL FOR SPECIAL INSPECTIONS, STRUCTURAL OBSERVATIONS, CONSTRUCTION MATERIAL TESTING AND OFF-SITE FABRICATION OF BUILDING COMPONENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND AS REQUIRED BY CONSTRUCTION CODES.
- THE OWNER OR OWNER'S AGENT, OTHER THAN THE CONTRACTOR, SHALL EMPLOY SPECIAL INSPECTION AND TESTING AGENCIES TO PROVIDE INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS.
- SPECIAL INSPECTION SHALL BE PERFORMED IN ADDITION TO INSPECTION BY THE BUILDING OFFICIAL AS REQUIRED IN SECTION 110 OF THE BUILDING CODE. SPECIAL INSPECTION SHALL NOT BE A SUBSTITUTE FOR INSPECTION BY THE BUILDING OFFICIAL.
- WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION OR TESTING IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE OBSERVED IN ACCORDANCE WITH THE STATEMENT OF SPECIAL INSPECTIONS AND SECTION 1704 OF THE BUILDING CODE, IT SHALL BE THE SPECIAL INSPECTION AGENCY'S RESPONSIBILITY TO EMPLOY A SUFFICIENT NUMBER OF INSPECTORS TO ASSURE THAT THE REQUIRED WORK IS INSPECTED.
- THE SPECIAL INSPECTION AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION. EXCEPTIONS:
 - WHEN THIS REQUIREMENT FOR AGENCY APPROVAL IS WAIVED BY THE BUILDING OFFICIAL.
- THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL BE APPROVED BY THE BUILDING OFFICIAL FOR THE TESTING OF MATERIALS, SYSTEMS, COMPONENTS AND EQUIPMENT.
- PRIOR TO THE START OF CONSTRUCTION, THE SPECIAL INSPECTION AND TESTING AGENCIES SHALL SUBMIT DOCUMENTATION TO THE BUILDING OFFICIAL DEMONSTRATING THE COMPETENCE AND RELEVANT EXPERIENCE OR TRAINING OF THE SPECIAL INSPECTORS WHO WILL PERFORM THE SPECIAL INSPECTIONS AND TESTS DURING CONSTRUCTION.
- EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF THE MAIN WIND- OR SEISMIC-FORCE-RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM, OR WIND- OR SEISMIC-RESISTING COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A STATEMENT OF RESPONSIBILITY TO THE OWNER (OR OWNER'S DESIGNATED AGENT) AND BUILDING OFFICIAL PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTIONS AND TESTING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE SPECIAL INSPECTION OR TESTING AGENCIES AT LEAST ONE WORKING DAY PRIOR TO PERFORMING ANY WORK THAT REQUIRES SPECIAL INSPECTION.
- WORK REQUIRING SPECIAL INSPECTION OR TESTING THAT IS INSTALLED OR COVERED WITHOUT THE APPROVAL OF THE BUILDING OFFICIAL IS SUBJECT TO REMOVAL OR EXPOSURE AT THE CONTRACTOR'S EXPENSE.

B. REQUIRED REPORTS:

- THE SPECIAL INSPECTION AGENCY SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- SPECIAL INSPECTION REPORTS SHALL INDICATE WHETHER THE WORK INSPECTED WAS, OR WAS NOT PERFORMED IN CONFORMANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS.
- THE CONSTRUCTION MATERIALS TESTING AGENCY SHALL FURNISH REPORTS TO THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE.
- MATERIAL TESTING REPORTS SHALL INDICATE WHETHER THE TESTED MATERIALS CONFORM, OR DO NOT CONFORM, TO THE REQUIREMENTS OF THE APPROVED CONSTRUCTION DOCUMENTS.
- DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
- IF DISCREPANCIES ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO COMPLETION OF THAT PHASE OF WORK.
- A FINAL REPORT DOCUMENTING THE REQUIRED SPECIAL INSPECTIONS, MATERIAL TESTING AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON, PRIOR TO THE START OF WORK, BY THE PERMIT APPLICANT AND THE BUILDING OFFICIAL.

C. CONTINUOUS AND PERIODIC SPECIAL INSPECTIONS:

- WHERE CONTINUOUS SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR SHALL CONTINUOUSLY PROVIDE FULL-TIME INSPECTION OF THE WORK.
- WHERE PERIODIC SPECIAL INSPECTION IS REQUIRED, THE SPECIAL INSPECTOR NEED NOT BE CONTINUOUSLY PRESENT DURING THE WORK WHERE PERIODIC INSPECTION IS INDICATED. AS A MINIMUM, PERIODIC SPECIAL INSPECTION SHALL OCCUR DAILY.

D. OFF-SITE FABRICATION:

- SPECIAL INSPECTION AND TESTING IS REQUIRED FOR THE OFF-SITE FABRICATION OF STRUCTURAL LOAD-BEARING OR LATERAL LOAD RESISTING MEMBERS AND REINFORCING ASSEMBLIES, UNLESS THE FABRICATION IS PERFORMED BY AN APPROVED FABRICATOR.
- AN APPLICATION FOR OFF-SITE FABRICATION MUST BE SUBMITTED TO THE BUILDING OFFICIAL FOR APPROVAL PRIOR TO COMMENCING ANY FABRICATION WORK REQUIRING SPECIAL INSPECTION OR TESTING.
- A CERTIFICATE OF COMPLIANCE FOR OFF-SITE FABRICATION MUST BE SUBMITTED BY THE FABRICATOR TO THE SPECIAL INSPECTION OR TESTING AGENCY PRIOR TO FABRICATION, AND SUBMITTED TO THE BUILDING OFFICIAL PRIOR TO ERECTION OF PREFABRICATED COMPONENTS.
- SPECIAL INSPECTION SHALL INCLUDE VERIFICATION THAT THE FABRICATOR MAINTAINS DETAILED FABRICATION AND QUALITY CONTROL PROCEDURES THAT PROVIDE A BASIS FOR INSPECTION CONTROL OF WORKMANSHIP AND THE FABRICATOR'S ABILITY TO CONFORM TO THE APPROVED CONSTRUCTION DOCUMENTS AND REFERENCED STANDARDS.
- SPECIAL INSPECTION SHALL INCLUDE REVIEW OF THE PROCEDURES FOR COMPLETENESS AND ADEQUACY RELATIVE TO THE REQUIREMENTS OF THE BUILDING CODE.

STATEMENT OF SPECIAL INSPECTIONS AND TESTING

DESCRIPTION OF TYPE OF INSPECTION REQUIRED	CONTINUOUS	PERIODIC	FOOT-NOTE
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WELDING OF STRUCTURAL STEEL			
QUALITY ASSURANCE INSPECTIONS PRIOR TO WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.4 AND TABLE N5.4-1			1
QUALITY ASSURANCE INSPECTIONS DURING WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.4 AND TABLE N5.4-2			1
QUALITY ASSURANCE INSPECTIONS AFTER WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.4 AND TABLE N5.4-3			1
NONDESTRUCTIVE TESTING AFTER WELDING IN ACCORDANCE WITH AISC 360, SECTION N5.5			1

STRUCTURAL STEEL			
STRUCTURAL STEEL MATERIAL		X	
STRUCTURAL STEEL FRAMING, BRACING AND CONNECTIONS CONFIGURATION IN ACCORDANCE WITH AISC 360, SECTION N5.7		X	

POST-INSTALLED ANCHORS			
INSTALLATION OF EXPANSION ANCHORS		X	2

FOOTNOTES FOR STATEMENT OF SPECIAL INSPECTIONS

- SEE REFERENCED SECTION AND/OR TABLE IN AISC 360 FOR INSPECTION PROCEDURES NOTED AS OBSERVE (O) OR PERFORM (P).
- SPECIAL INSPECTION FOR POST-INSTALLED ANCHORS SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED IN THE EVALUATION APPROVAL FOR THE SPECIFIC PRODUCT.



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SHEET TITLE

STRUCTURAL NOTES

SHEET NUMBER

S-0.1



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8

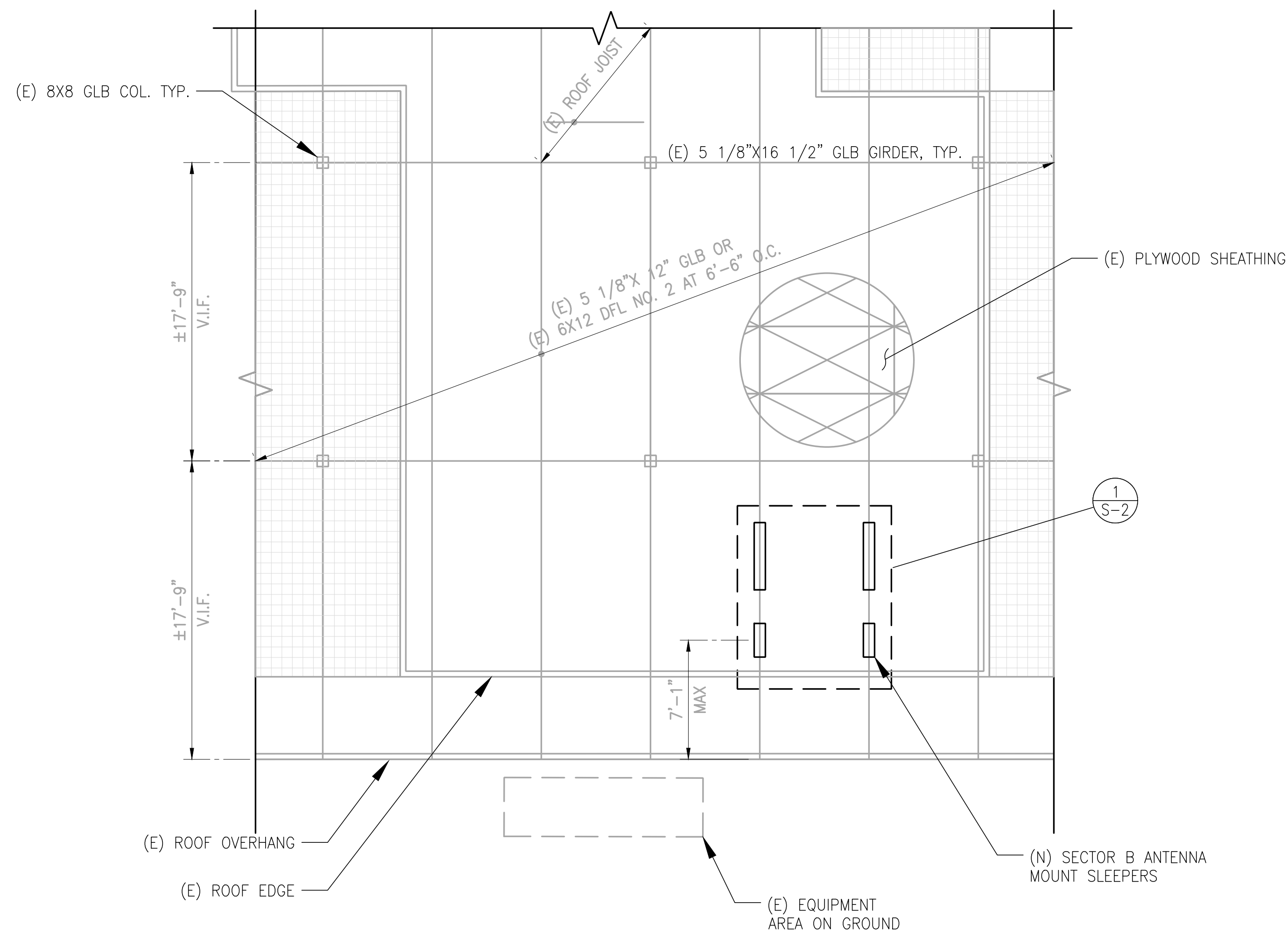


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SHEET TITLE
STRUCTURAL PLAN

SHEET NUMBER
S-1

NOT USED 1 NOT USED 2 NOT USED 3 NOT USED 4

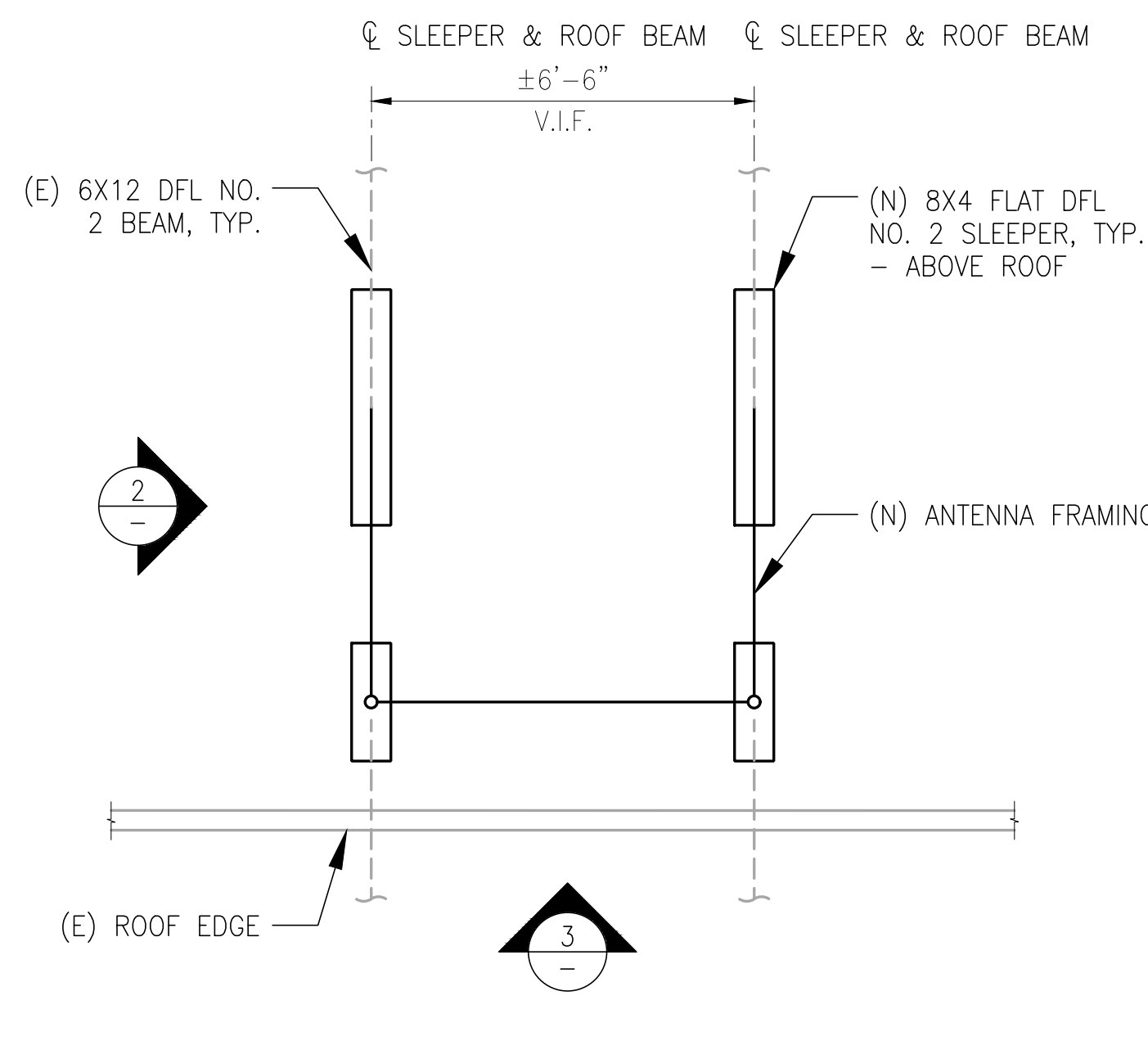


ROOF FRAMING - SECTOR B

SCALE
1"=1'-0"

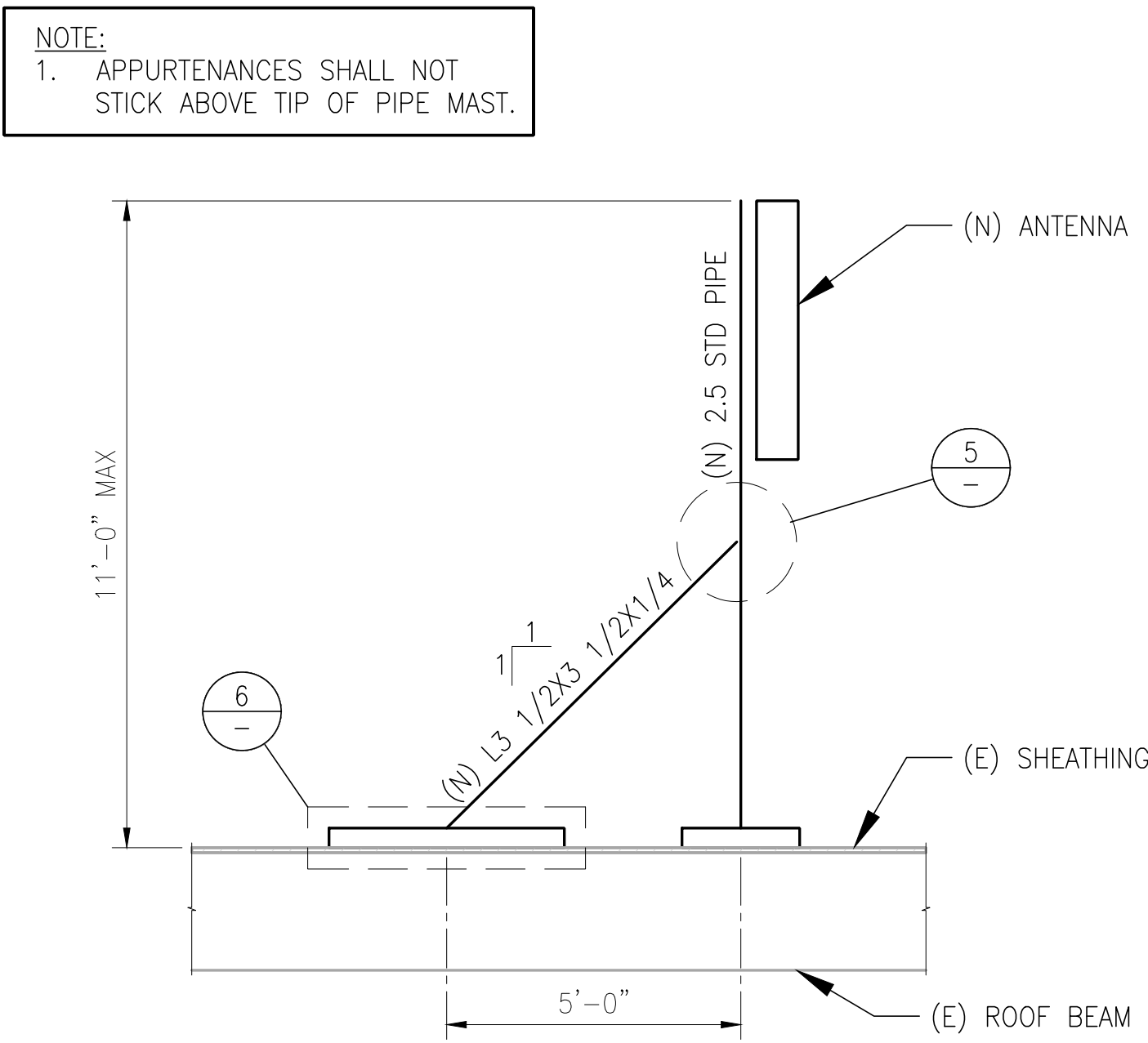
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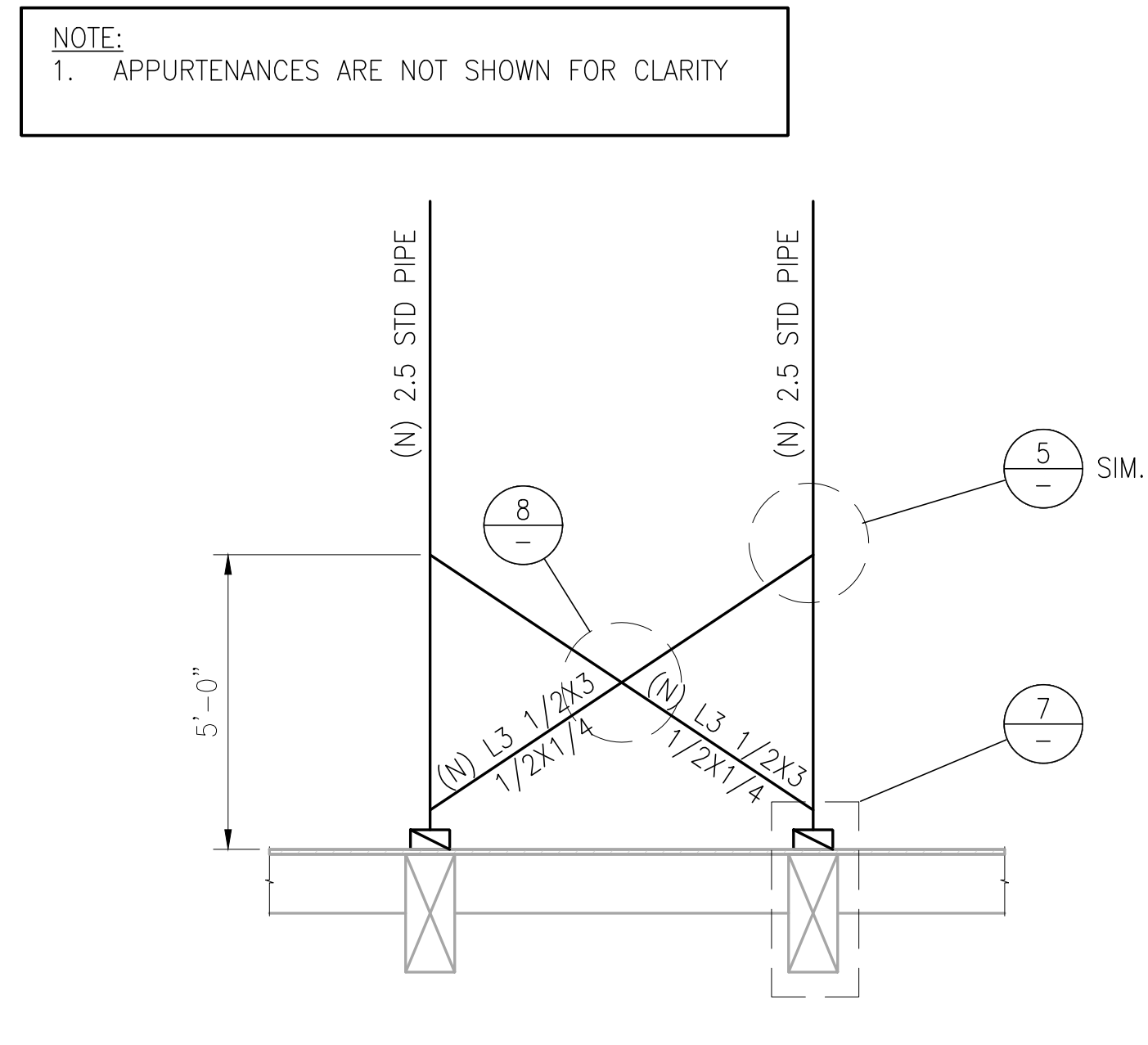
ROOF PARTIAL VIEW

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N.T.S. 1



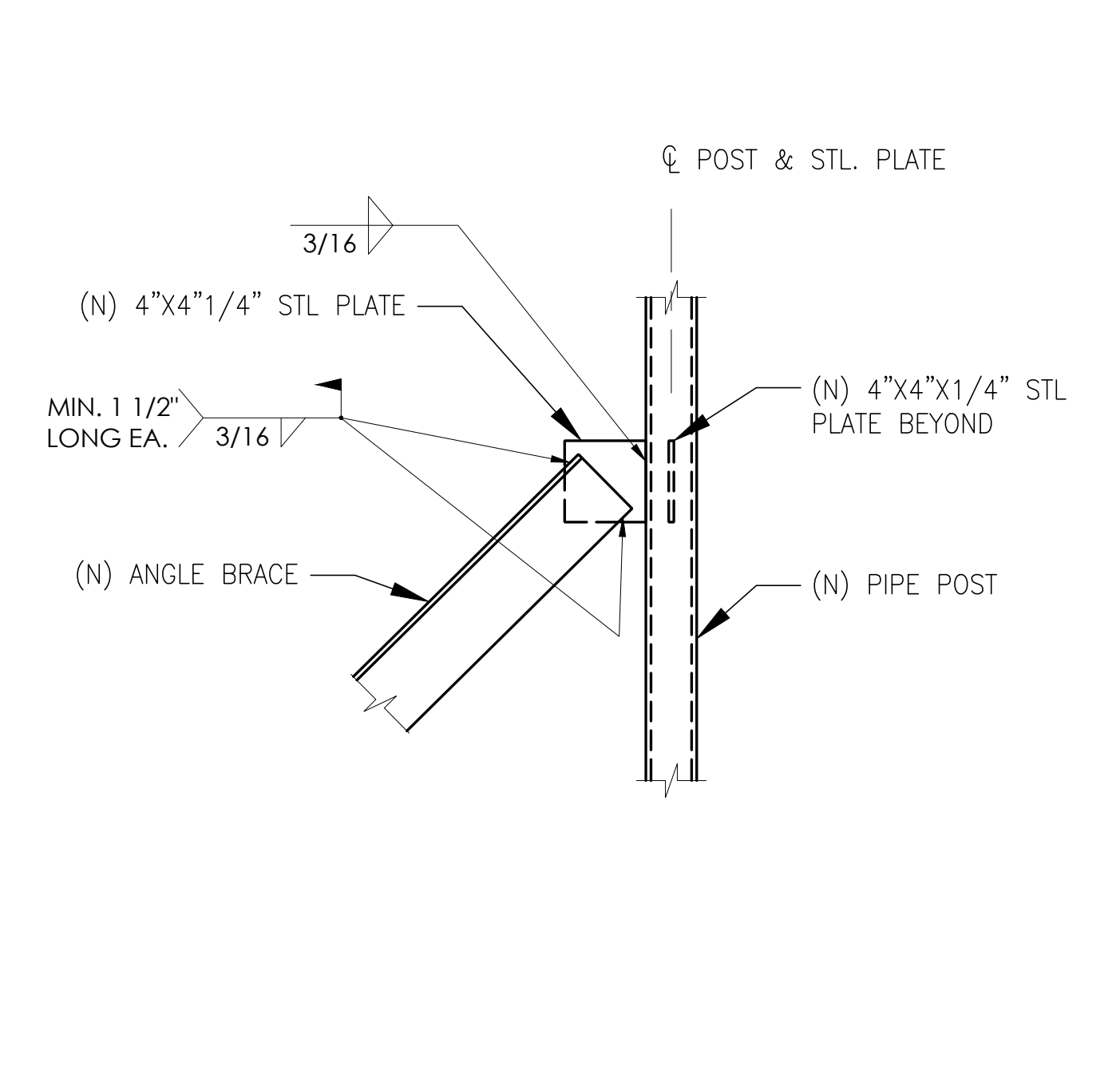
ANTENNA FRAMING

2



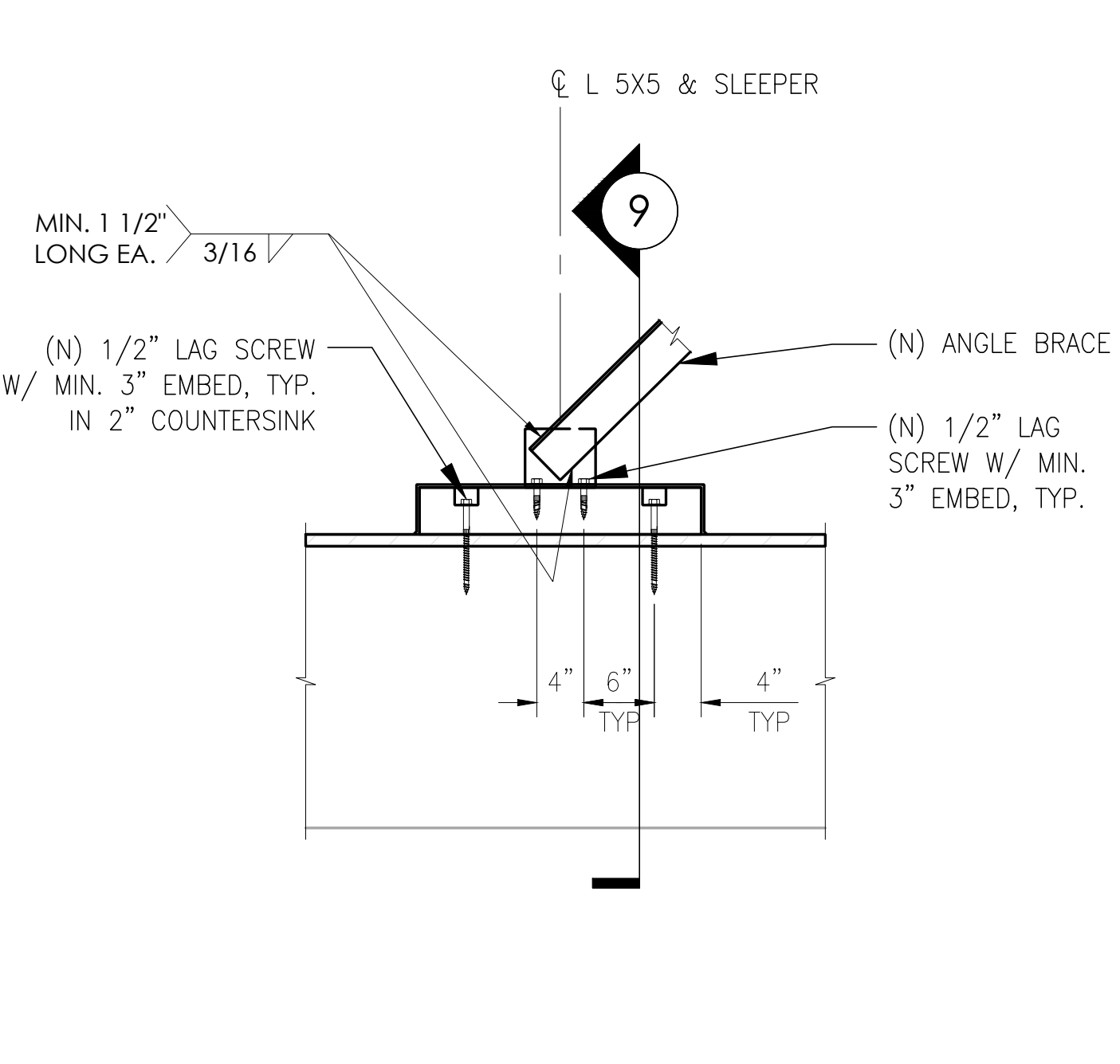
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N.T.S. 3



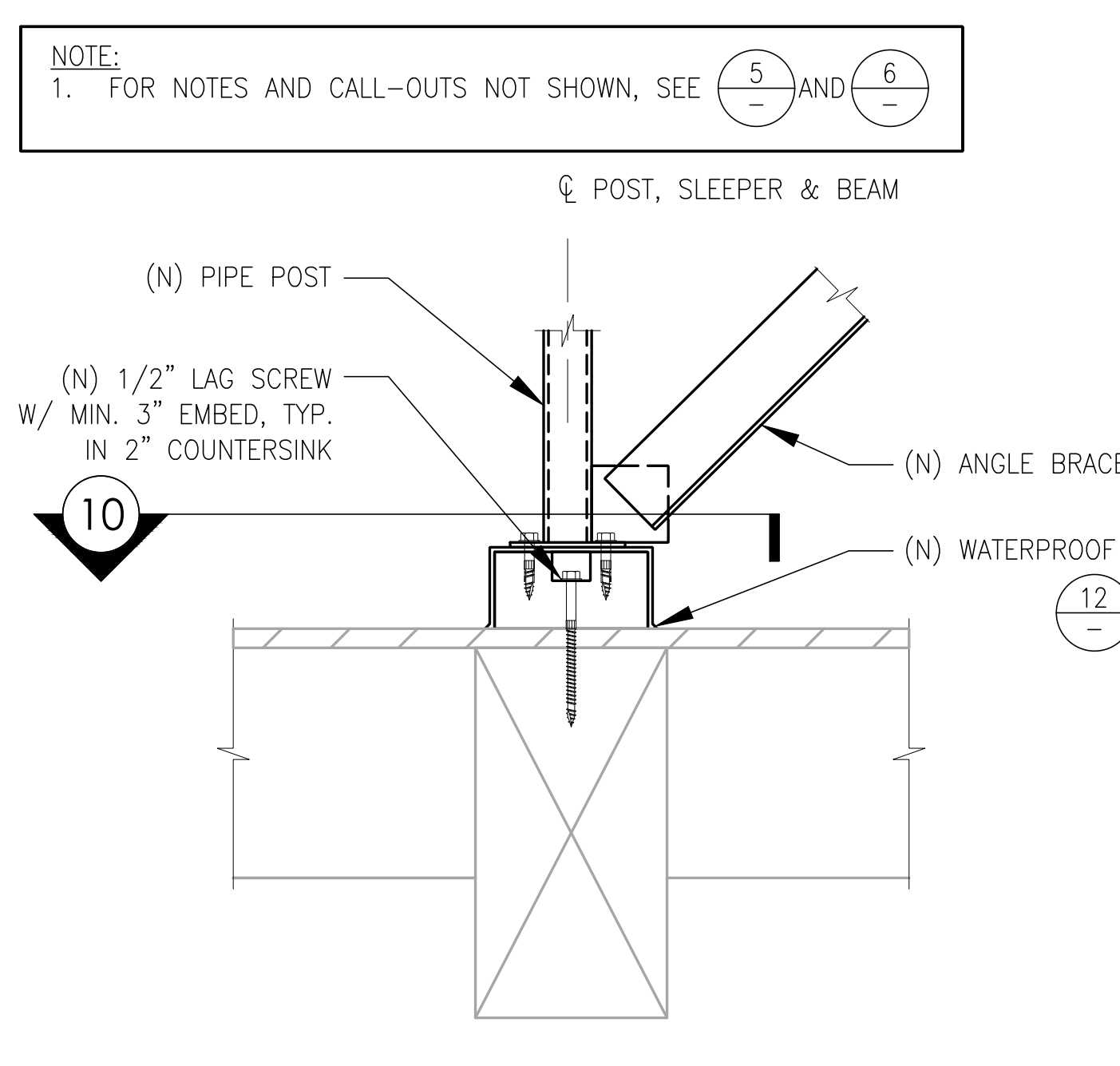
BRACE CONNECTION

SCALE
N.T.S. 5



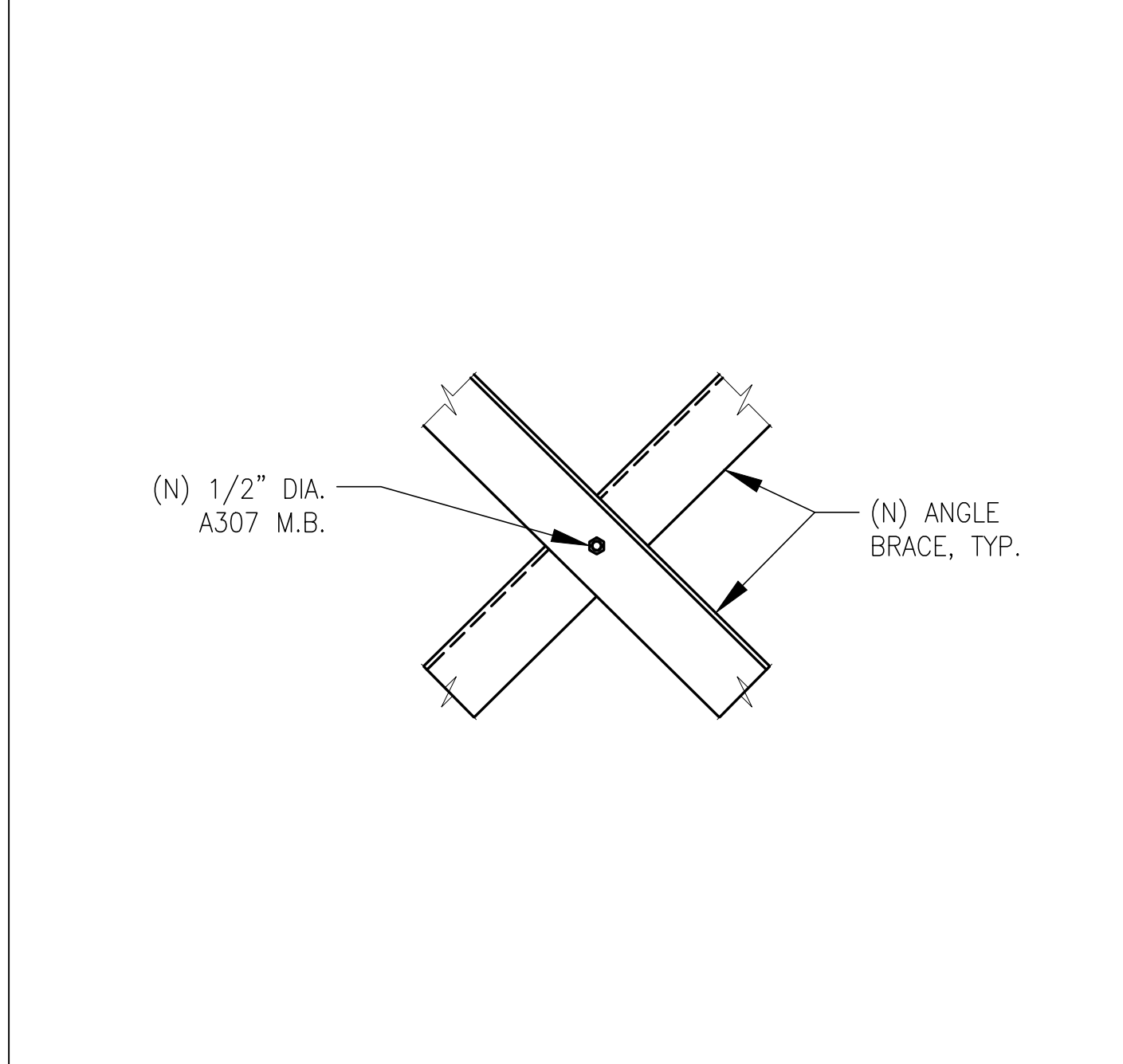
BRACE CONNECTION

SCALE
N.T.S. 6



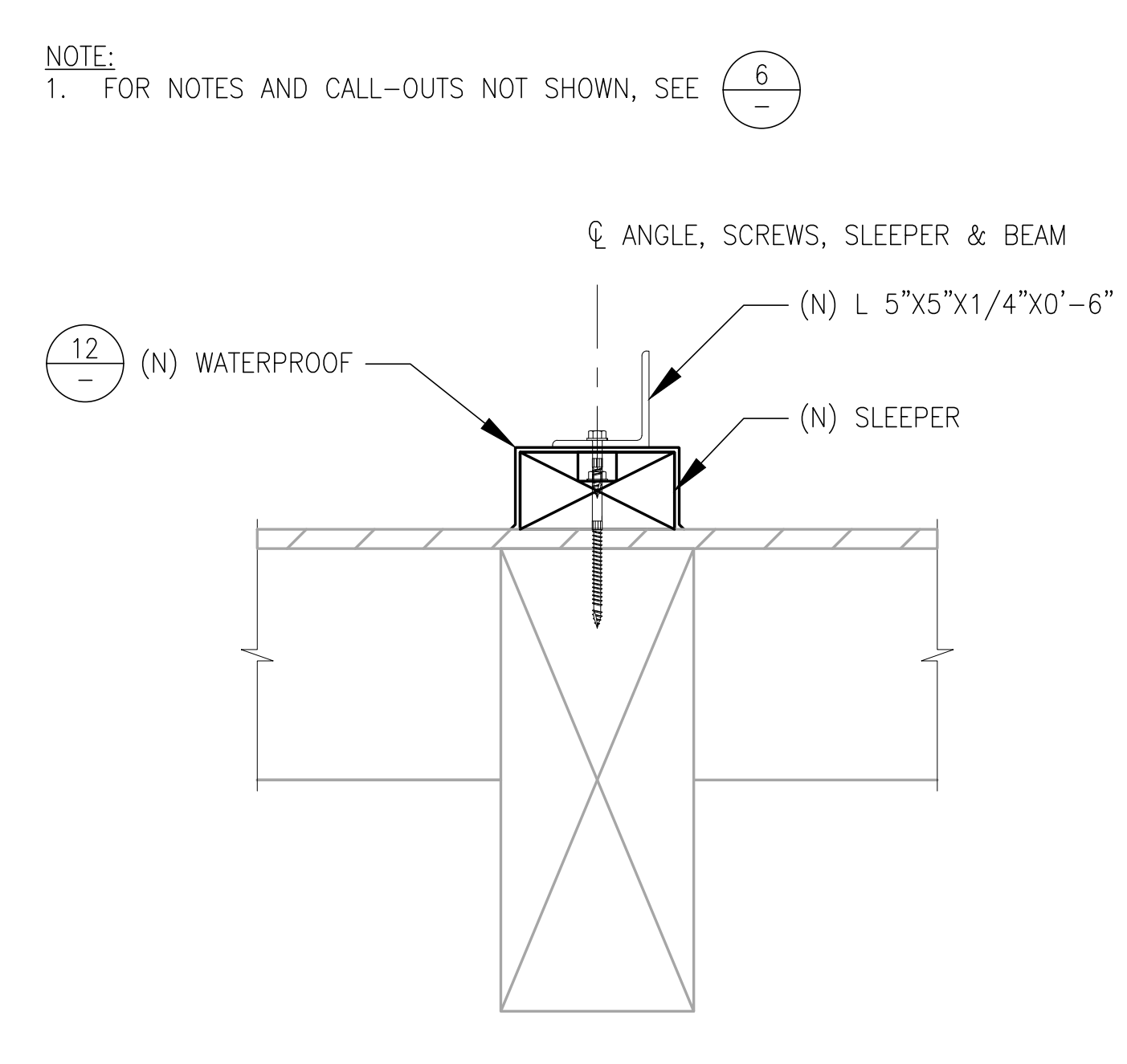
POSTE BASE CONNECTION

SCALE
N.T.S. 7



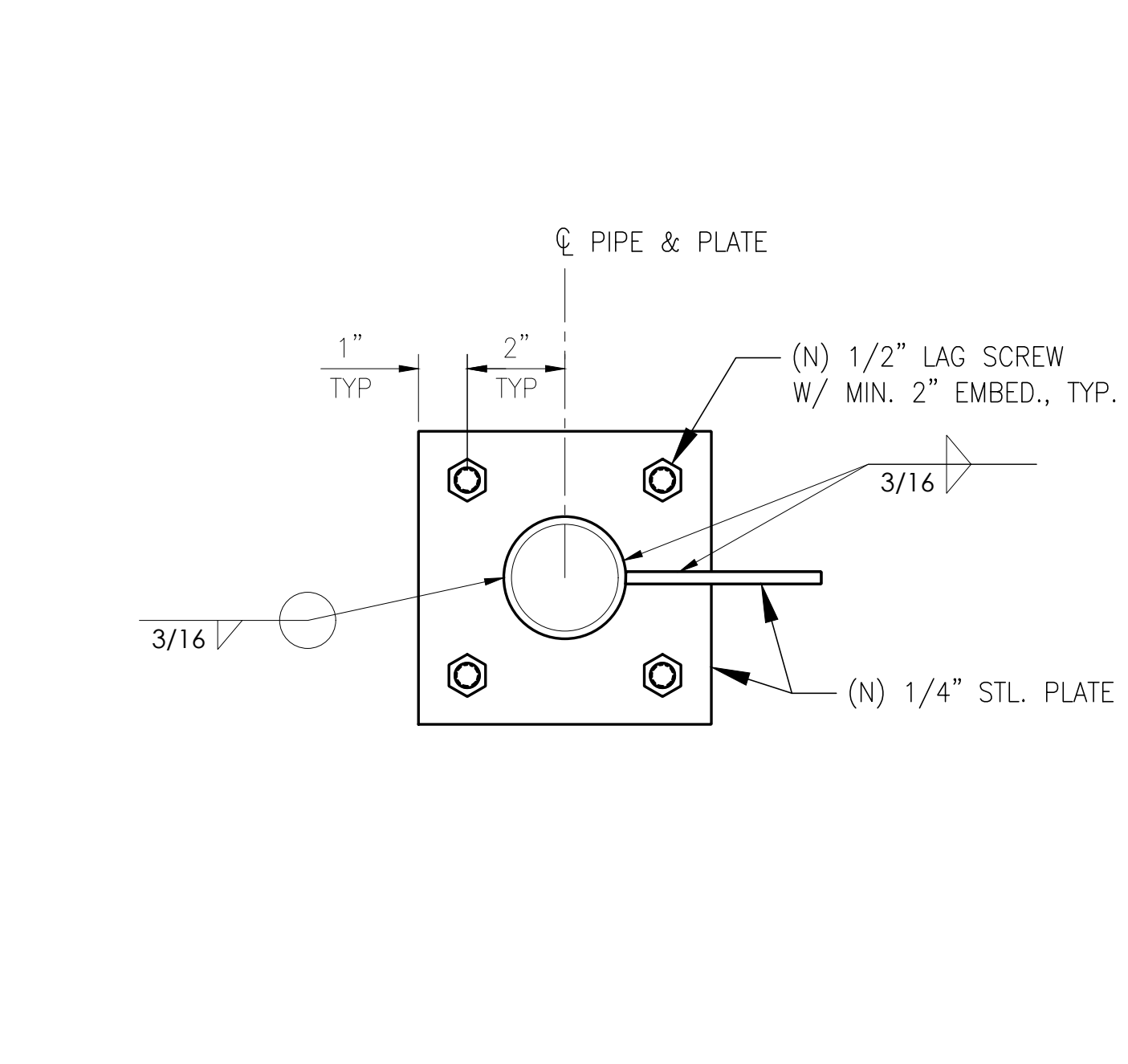
BRACE-TO-BRACE

SCALE
N.T.S. 8



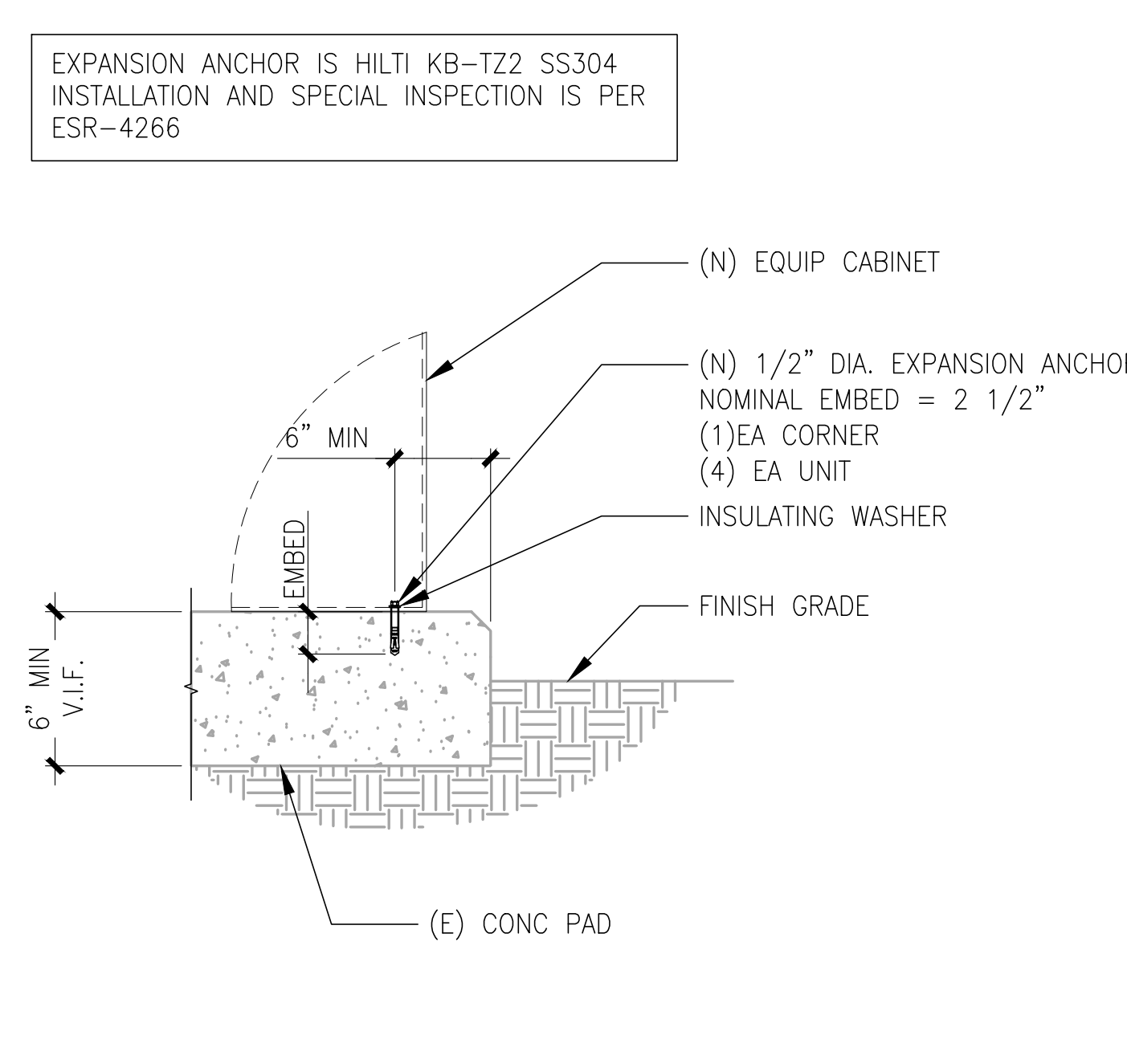
BRACE ANCHORAGE

SCALE
N.T.S. 9

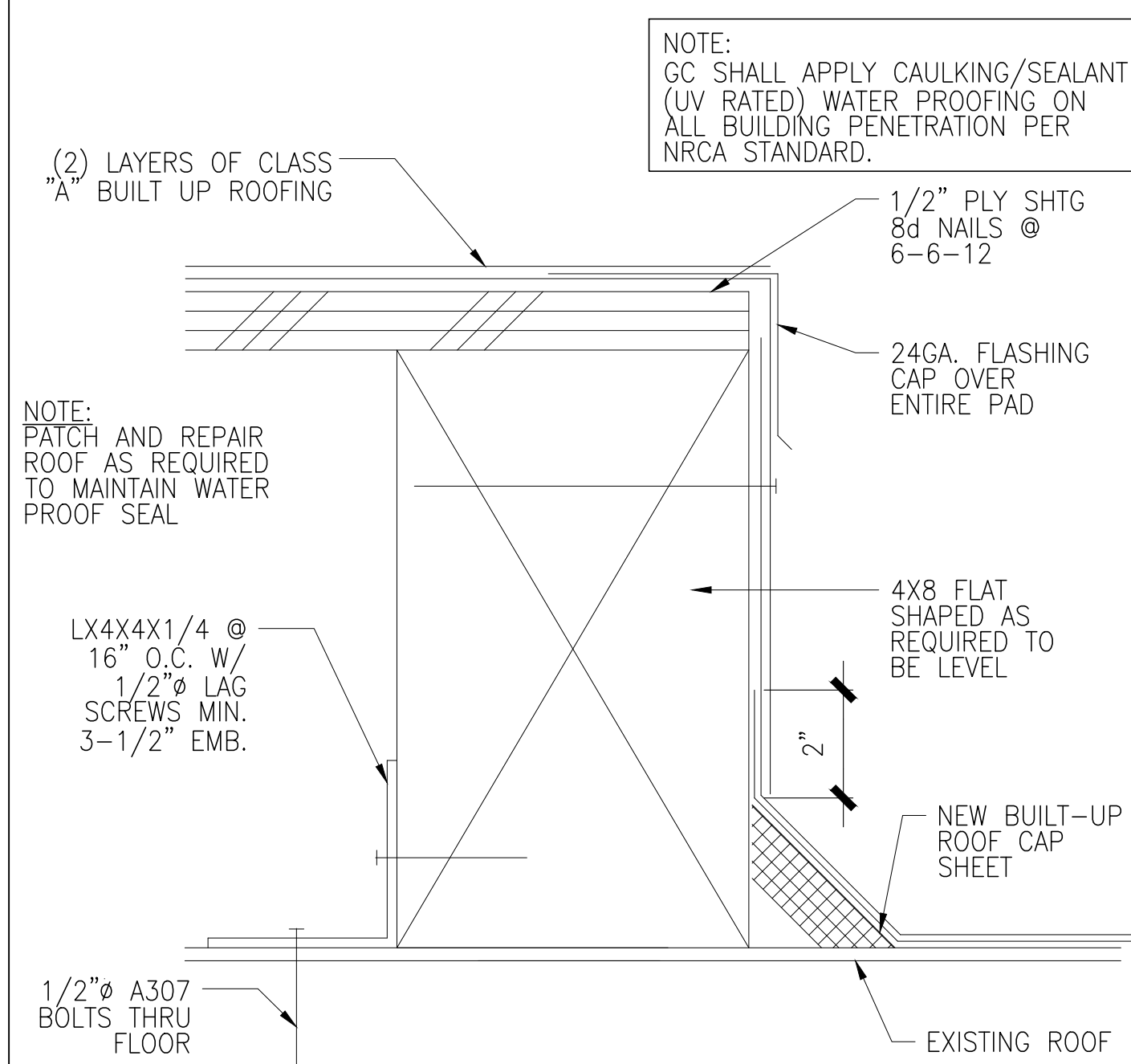


BASE PLATE

SCALE
N.T.S. 10



EQUIP. ANCHORAGE



WATERPROOF FLASHING

SCALE
N.T.S. 12



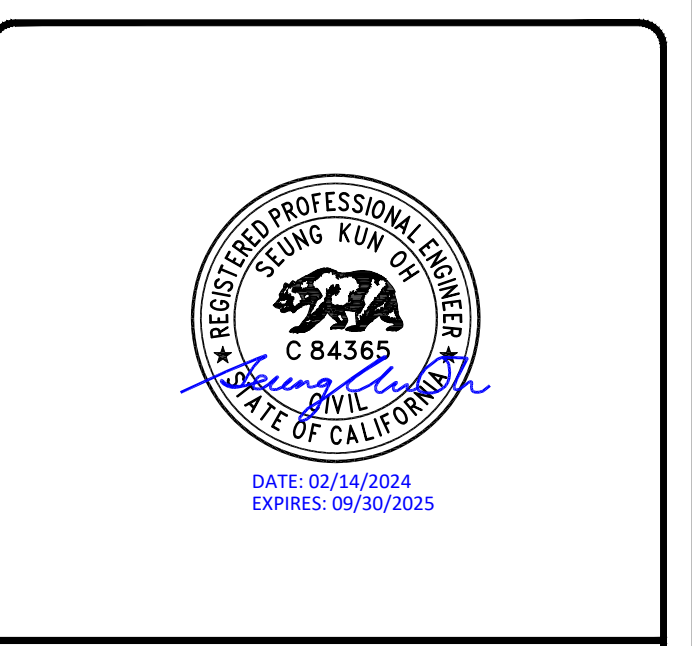
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SHEET TITLE
STRUCTURAL DETAILS

SHEET NUMBER
S-2

VOLTAGE: 120/240V, 1 PHASE, 3W, 100A, 22 KAIC MOUNTING: SURFACE
 MAIN CB: 2P/100A NEMA: 3R LOCATION: AT LEASE AREA

VOLT AMPS		DESCRIPTION	POLE	BKR	CKT	PANEL PPC		CKT	BKR	POLE	DESCRIPTION	VOLT AMPS	
PHASE A	PHASE B					A	B					PHASE A	PHASE B
		UNKNOWN	2	30	1	●	●	2	20	1	GFI/REC	360	
		-	-	-	3	●	●	4	20	2	UNKNOWN		
2400		6102 CABINET	2	100	5	●	●	6			SPACE		
	2400	GEN HEATER	-	-	7	●	●	8					
		SPACE	1	20	9	●	●	10					
		SPACE			11	●	●	12					
2400	2400	VA/LINE										2760	0
PHASE A =			5160 VA			PHASE B =			2400 VA				
CONNECTED LOAD:				7560 VA									
CONNECTED AMPS:				31.5 A									

EXISTING PANEL SCHEDULE

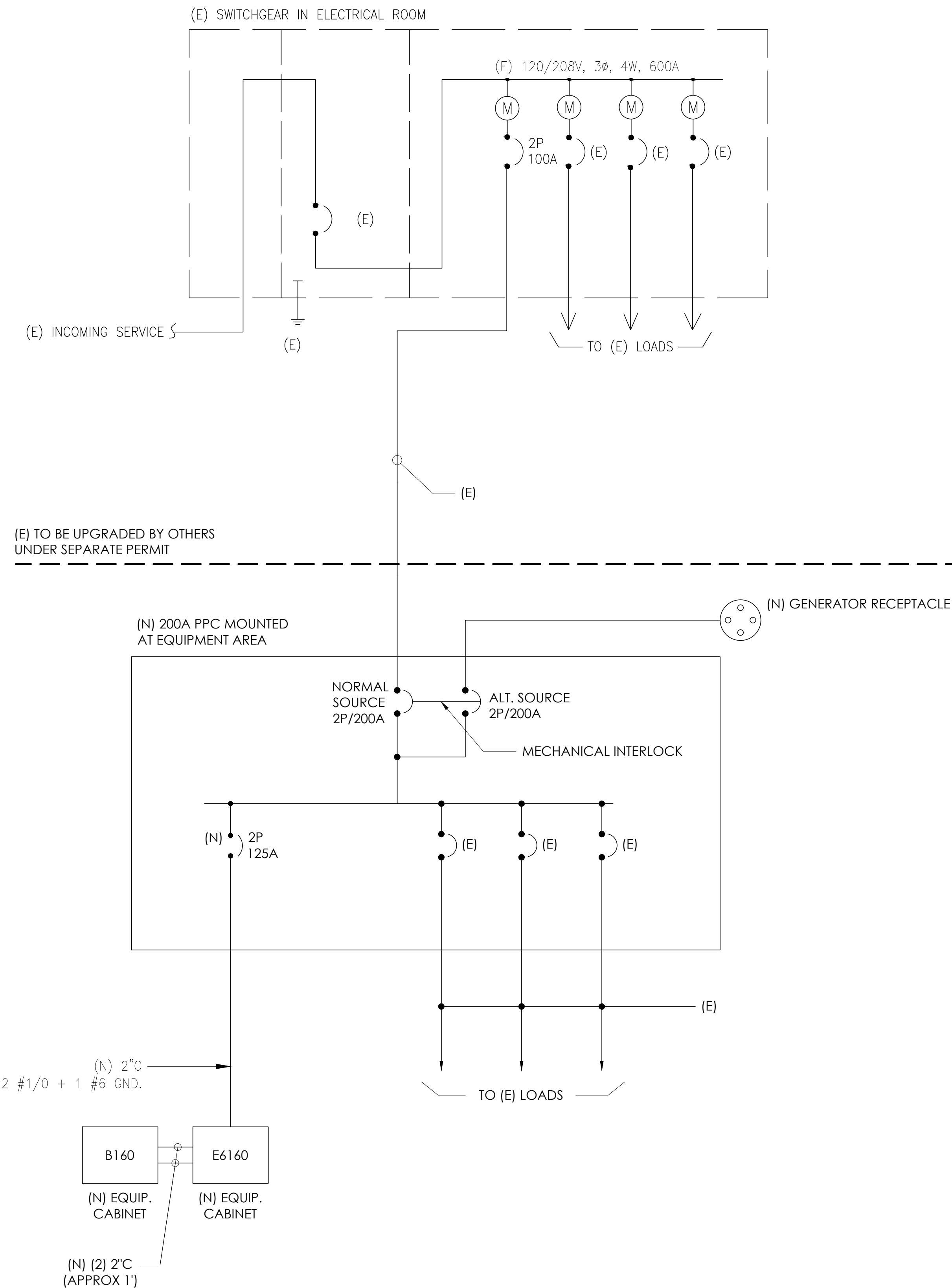
1

VOLTAGE: 120/240V, 1-PHASE, 3W, 200A, 42 KAIC MOUNTING: SURFACE
 MAIN CB: 2P/200A NEMA: 1 LOCATION: AT LEASE AREA

VOLT AMPS		DESCRIPTION	POLE	BKR	CKT	PANEL PPC		CKT	BKR	POLE	DESCRIPTION	VOLT AMPS	
PHASE A	PHASE B					A	B					PHASE A	PHASE B
		UNKNOWN	2	30	1	●	●	2	20	1	GFI/REC	360	
		-	-	-	3	●	●	4	100	2	UNKNOWN		
100		LIGHT	1	20	5	●	●	6	125	2	E6160	8640	
	480	GEN HEATER	1	20	7	●	●	8	-	-	-		8640
380		GEN BAT. CHARGER	1	20	9	●	●	10			SPACE		
		SPACE			11	●	●	12					
					13	●	●	14					
					15	●	●	16					
					17	●	●	18					
					19	●	●	20					
					21	●	●	22					
					23	●	●	24					
480	480	VA/LINE										9000	8640
PHASE A =			9480 VA			PHASE B =			9120 VA				
CONNECTED LOAD:				18600 VA									
CONNECTED AMPS:				77.5 A									

NEW PANEL SCHEDULE

2



- NOTE:
- (E) CONDUITS/CONDUCTORS TO BE REPLACED AS SHOWN ON SINGLE LINE DIAGRAM. KEEP THE SAME ROUTING
 - SOURCE POWER OF 100A TO BE UPGRADED TO 200A BY OTHERS UNDER SEPARATE PERMIT
 - (E) 100A PANEL TO BE REMOVED AND REPLACED BY (N) 200A PANEL



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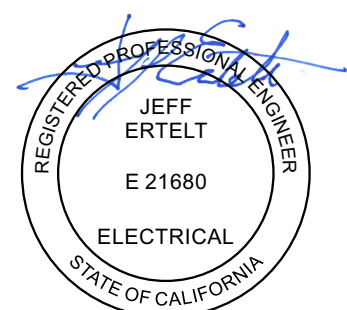
SITE NUMBER:

BA00324A

SITE NAME:
 SF324 MEADOW PARK SCHOOL

5400 NAVE DR
 NOVATO, CA, 94949

REV	DATE	DESCRIPTION
1	02/14/2024	100% CONSTRUCTION
0	12/13/2023	100% CONSTRUCTION
A	10/23/2023	90% CONSTRUCTION



2/21/2024

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SHEET TITLE
 PANEL SCHEDULES
 & ONE LINE
 DIAGRAM

SHEET NUMBER

E1

24"x36" SCALE: NTS
 11"x17" SCALE: NTS

3

SINGLE LINE DIAGRAM

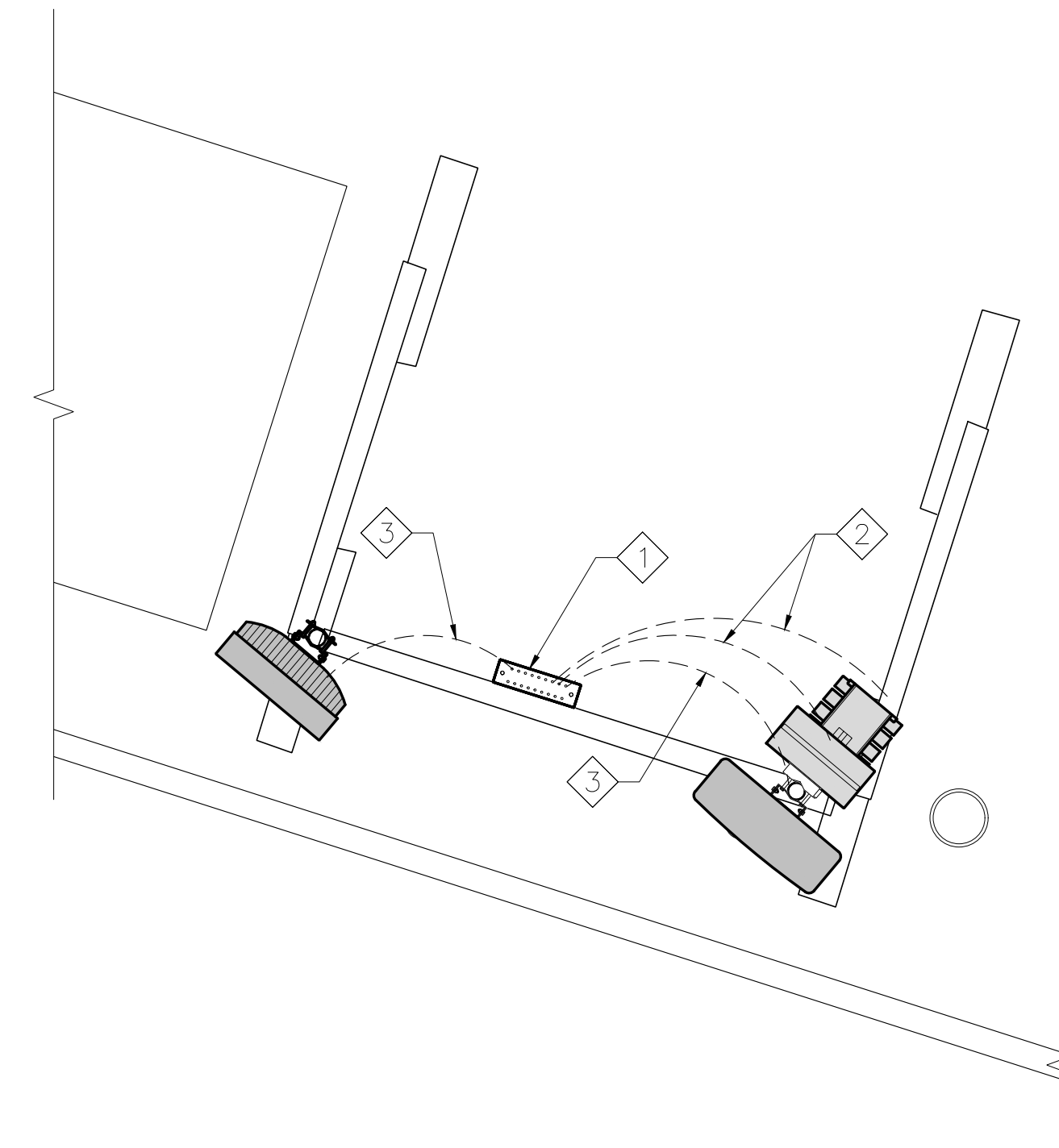
GROUNDING NOTES:

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION ACCORDING TO SITE CONDITIONS.
- ALL GROUNDING CONDUCTORS: 2/0 SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
- GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
- ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
- GROUND RING SHALL BE LOCATED A MINIMUM OF 18" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
- INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD FOOTING, OR FENCE.
- EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
- GROUND BARS:
A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
- OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
- GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
- IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
- GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
- ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
- ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
- USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
- POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
- NO LB'S ALLOWED ON GROUNDING.
- PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
- ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
- IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
- EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE MADE USING COMPRESSION TYPE-2 HOLES, LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE COATED WITH ANTI-OXIDANT (COPPER SHIELD) BEFORE MAKING THE CONNECTIONS. THE MANUFACTURER'S TORQUING RECOMMENDATIONS ON THE BOLT ASSEMBLY TO SECURE CONNECTIONS SHALL BE FOLLOWED.
- THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID-POINT.
- ALL GROUNDING CONDUCTORS INSIDE THE BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS. THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT.
- PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND /OR CEILINGS.
- INSTALL GROUND BUSHINGS ON ALL METALLIC CONDUITS AND BOND TO THE EQUIPMENT GROUND BUSS IN THE PANEL BOARD.
- GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
- ALL PROPOSED GROUNDING CONDUCTORS SHALL BE ROUTED AND CONNECTED TO THE MAIN GROUND BAR OR EXISTING GROUND RING.

KEY NOTES:

- ① (E) ANTENNA GROUND BAR TO BE VERIFIED @ FIELD
- ② (N) AWG 2 INSULATED COPPER GROUND WIRE FROM (N) RRUS TO (E) ANTENNA GROUND BAR
- ③ (N) AWG 6 INSULATED COPPER GROUND WIRE FROM (N) ANTENNA GROUND KIT TO (E) ANTENNA GROUND BAR

- NOTES:
1. REFER TO TYP. ANTENNA GROUNDING DIAGRAM
2. (E) GROUND WIRES ARE NOT SHOWN FOR CLARITY

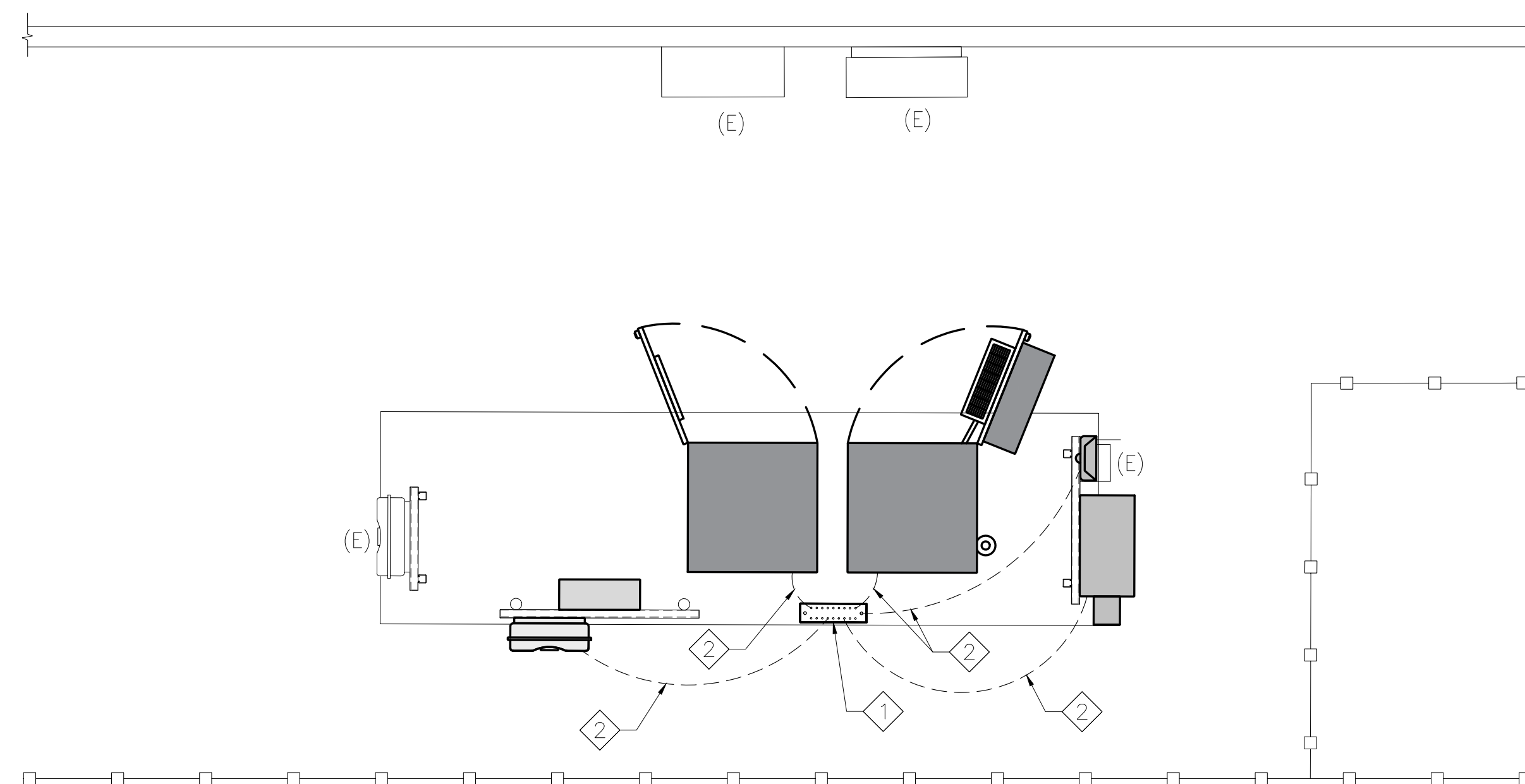


ANTENNA GROUNDING PLAN, TYP. PER SECTOR

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

KEY NOTES:

- ① (E) GROUND BAR TO BE VERIFIED AT FIELD
- ② (N) AWG 2 INSULATED COPPER GROUND WIRE

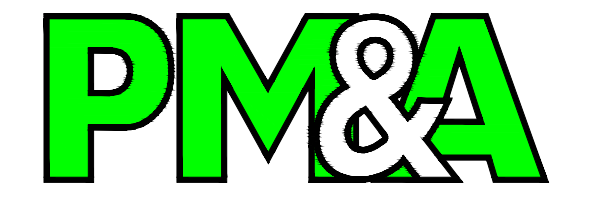


3 EQUIPMENT GROUNDING PLAN

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



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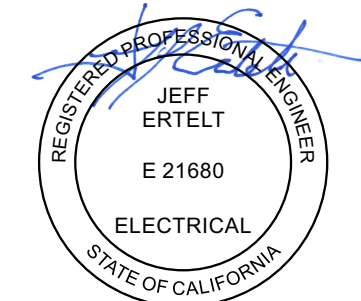
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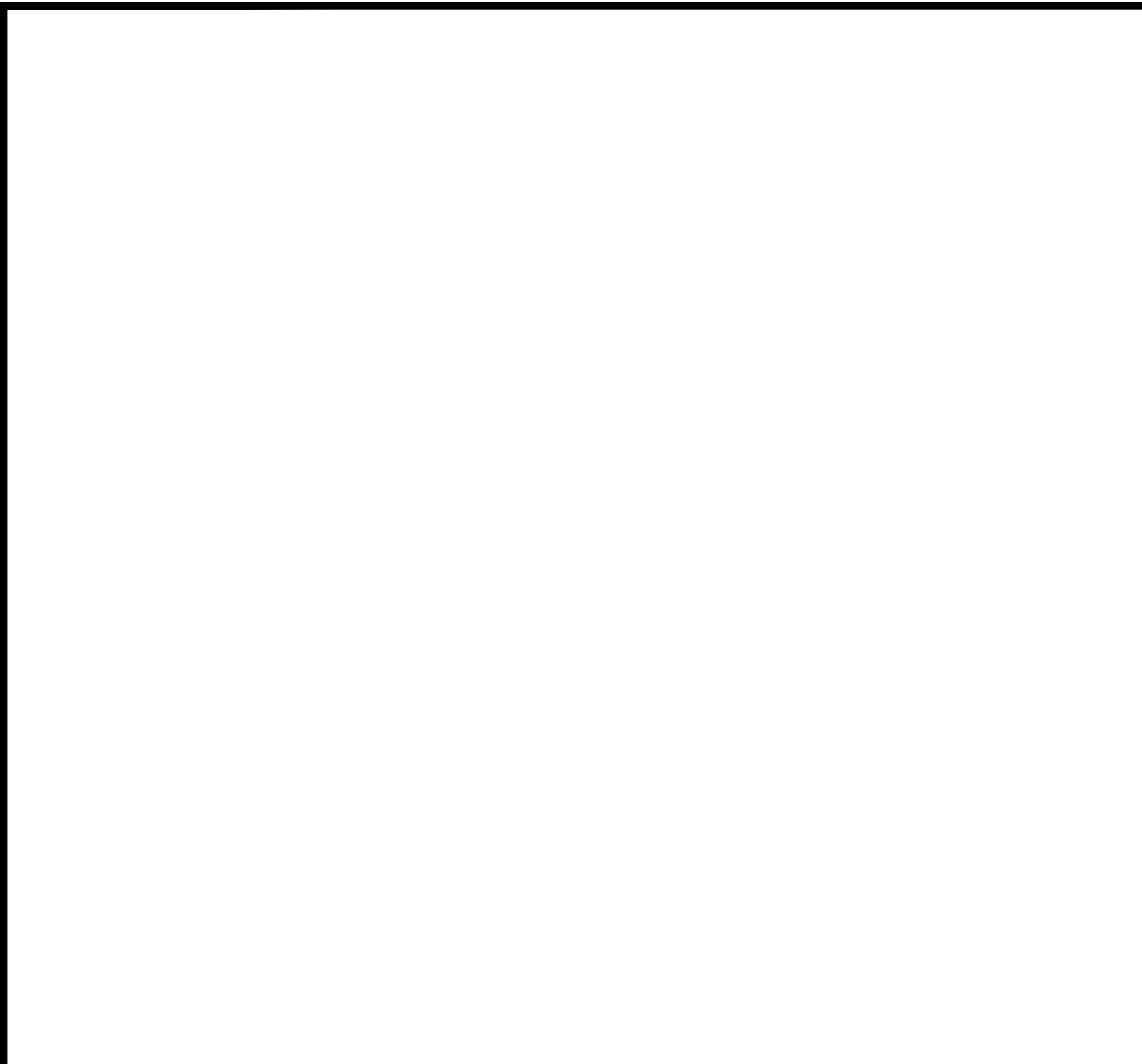
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SHEET TITLE
GROUNDING PLAN & NOTES

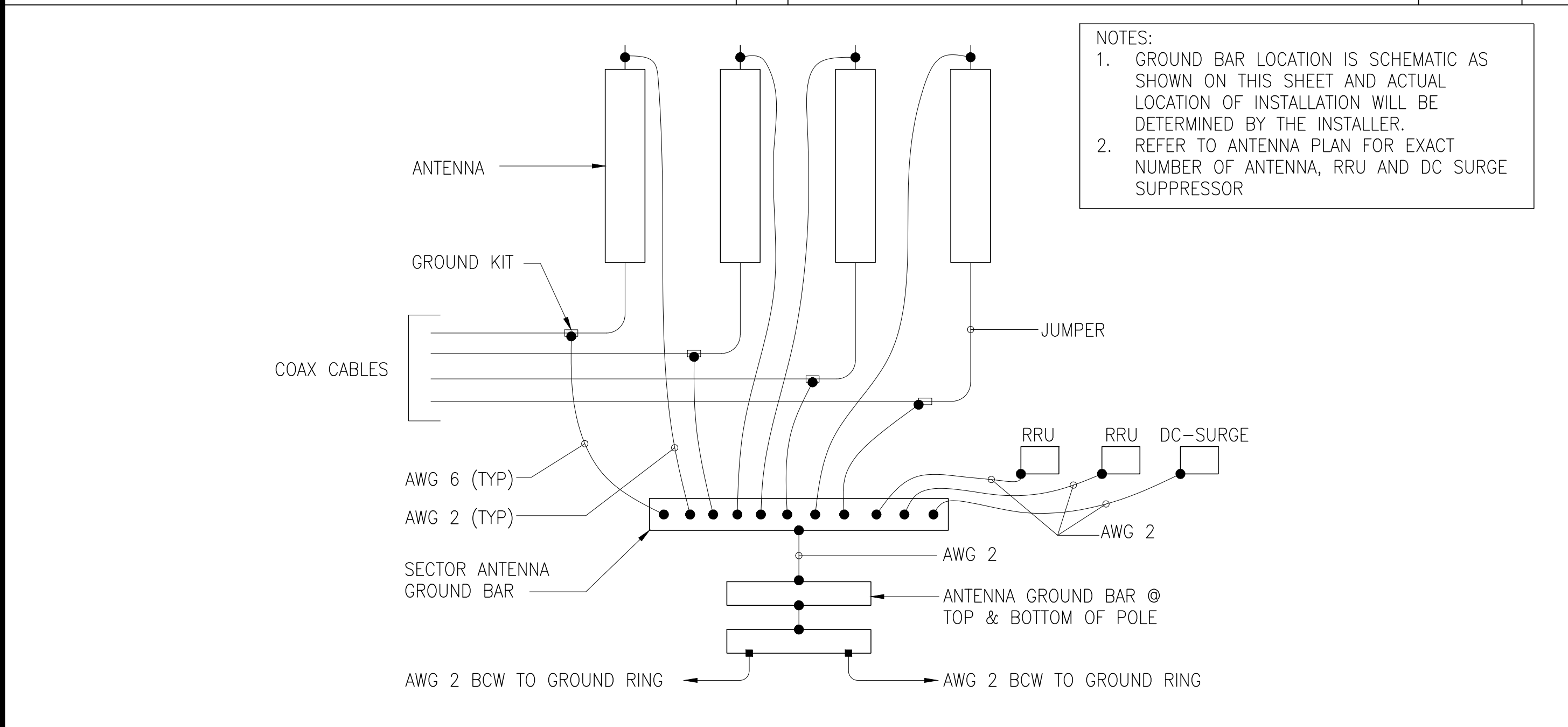
SHEET NUMBER
G1

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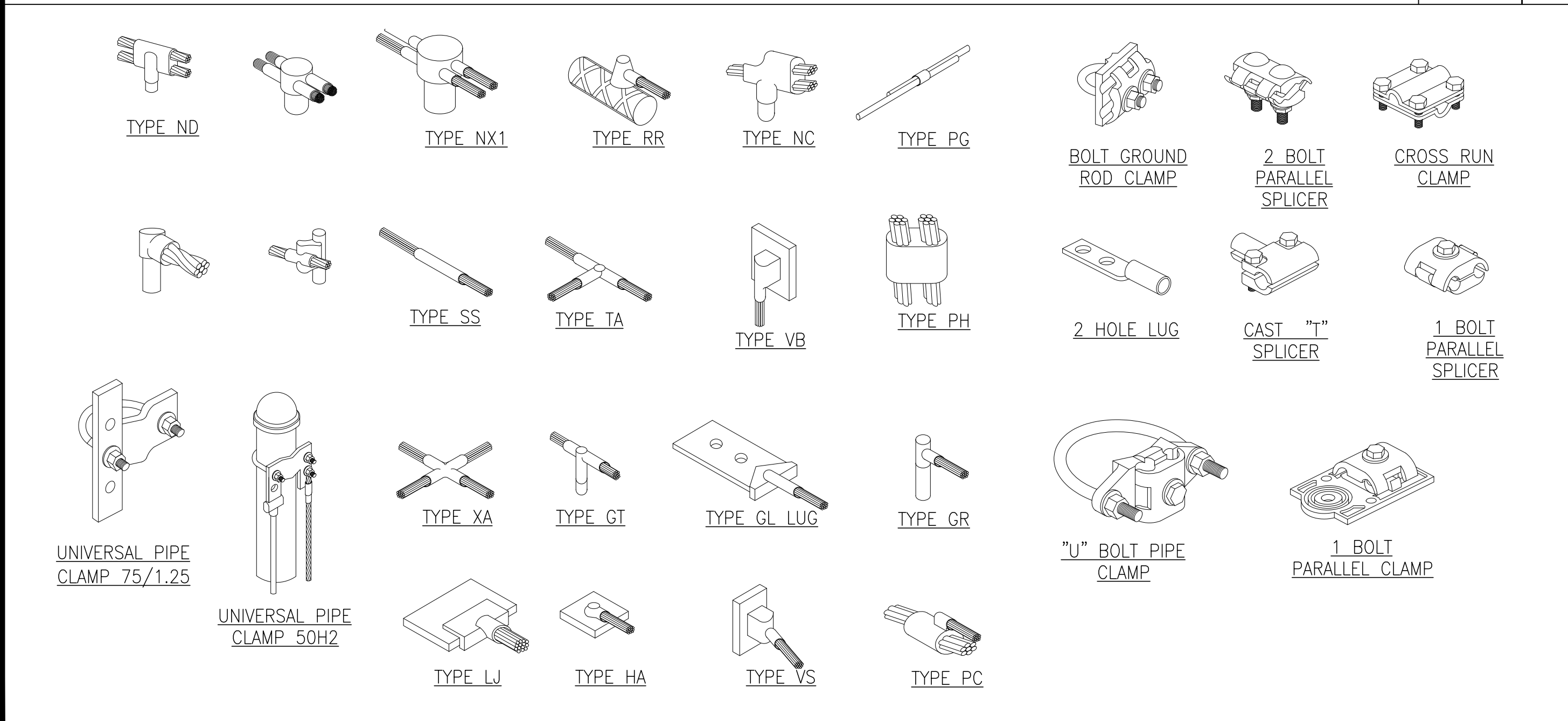


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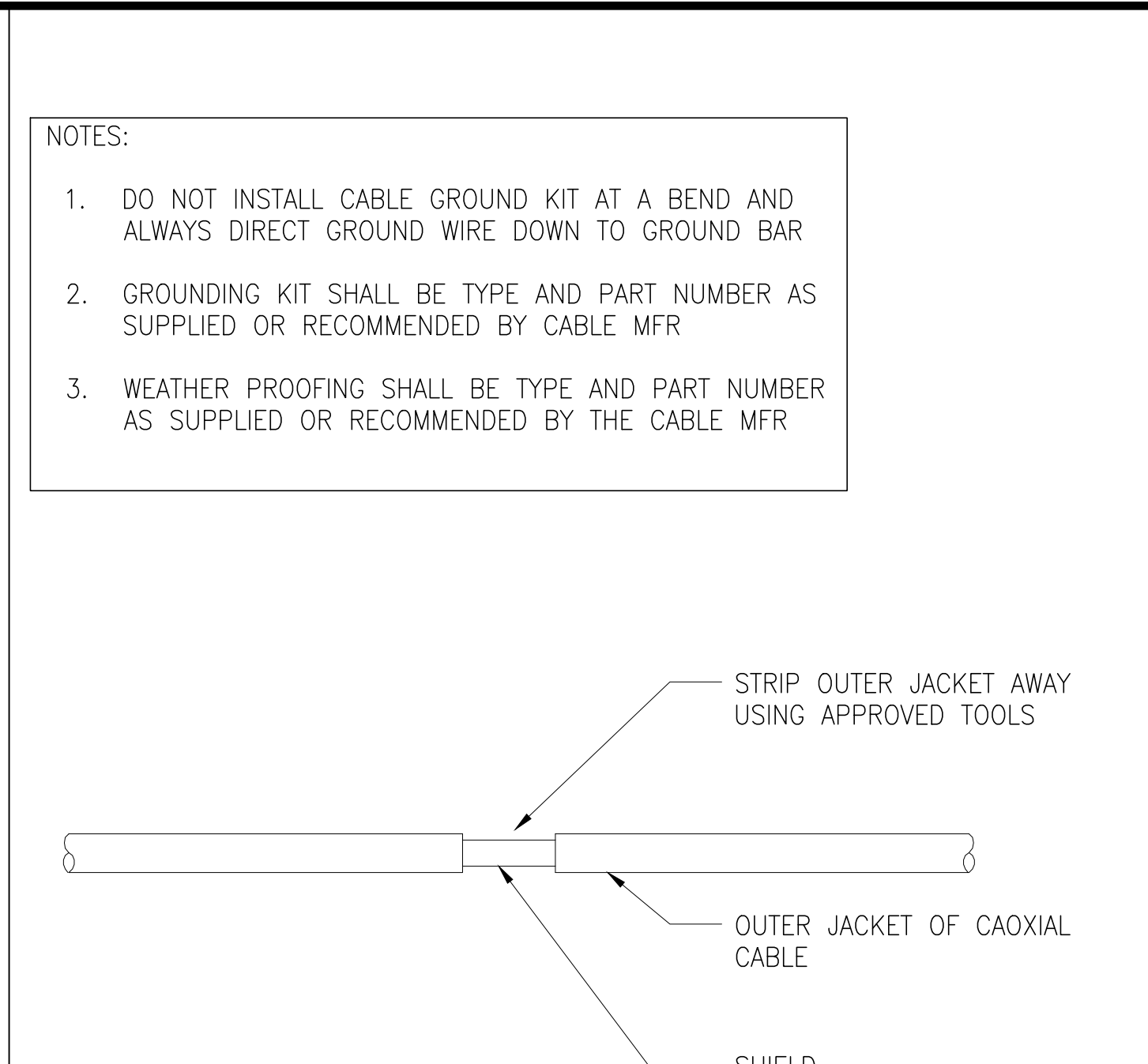
9 GPS ANTENNA GROUNDING TYP. SCALE N.T.S. 8



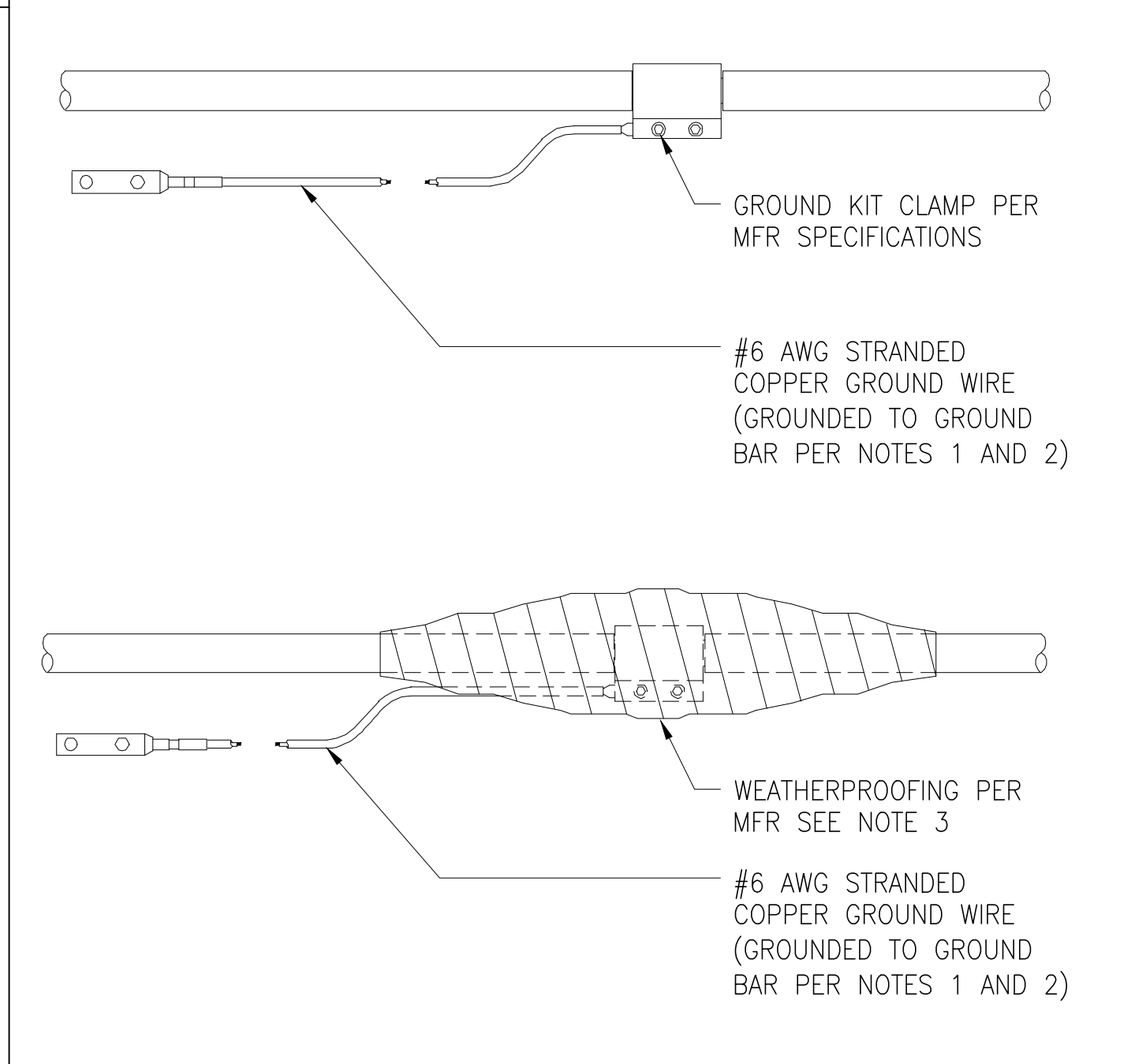
TYP. ANTENNA GROUNDING DIAGRAM SCALE N.T.S. 7



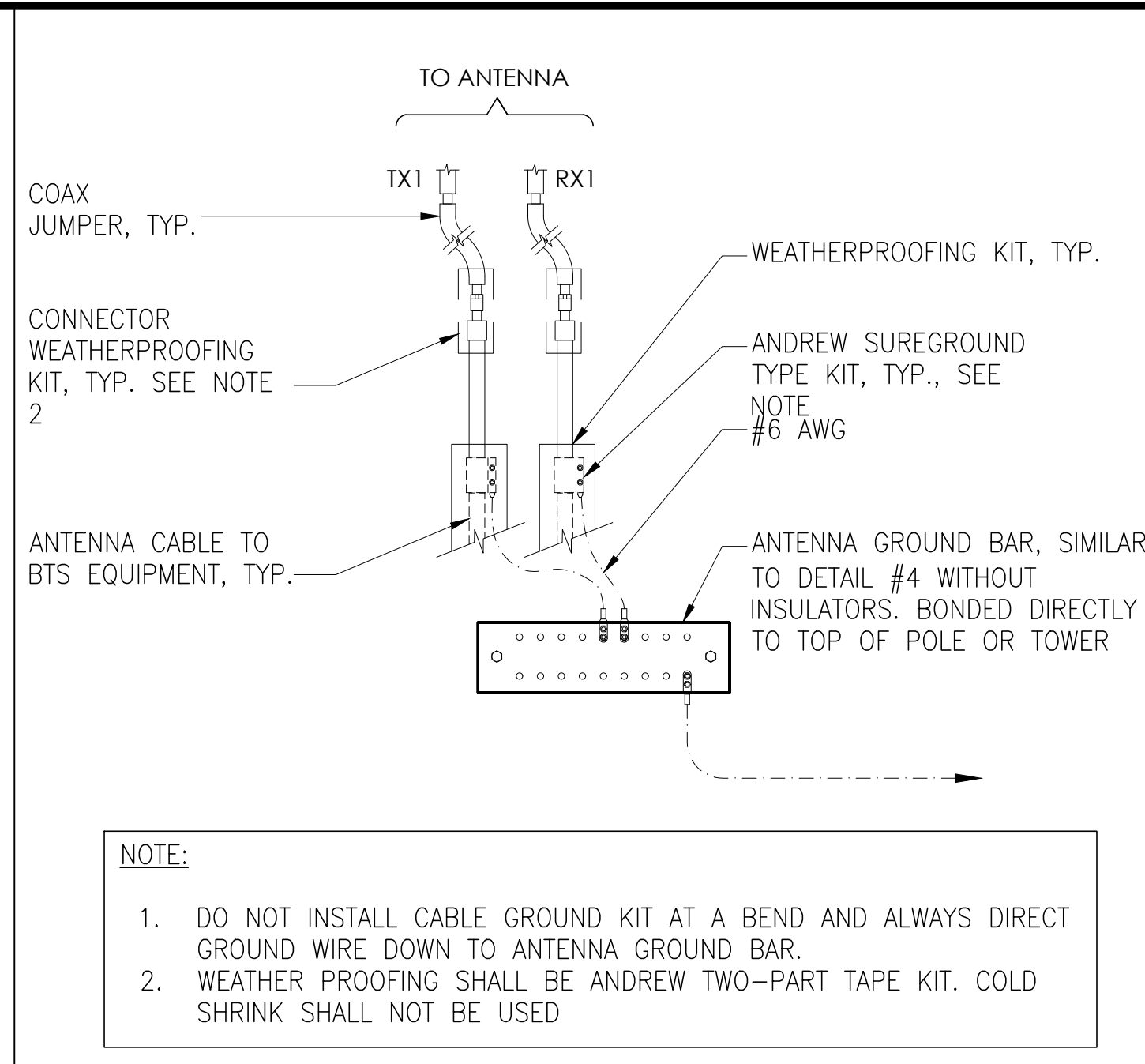
TYPICAL MECHANICAL CONNECTIONS SCALE N.T.S. 6



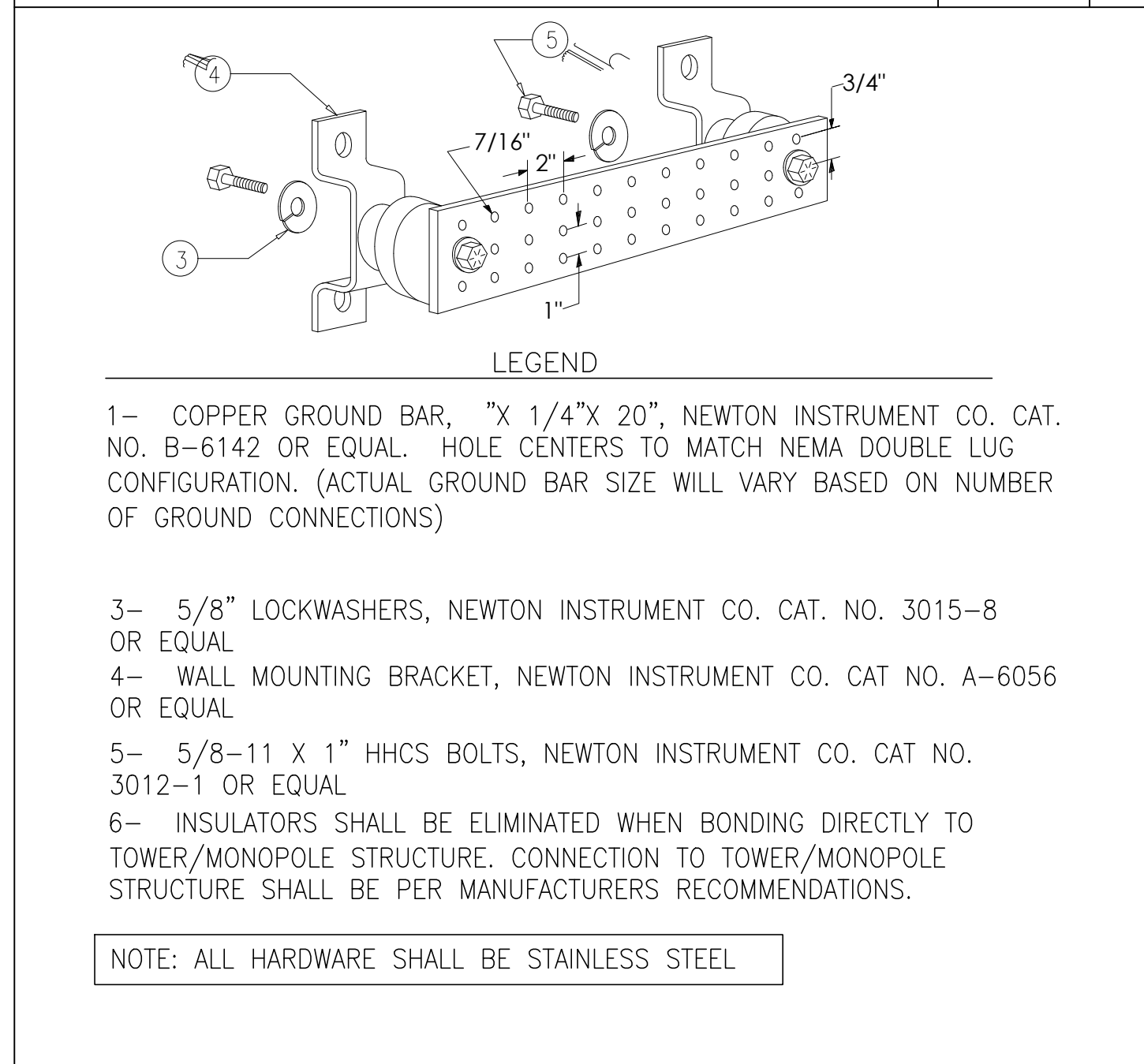
GROUNDING KIT SCALE N.T.S. 3



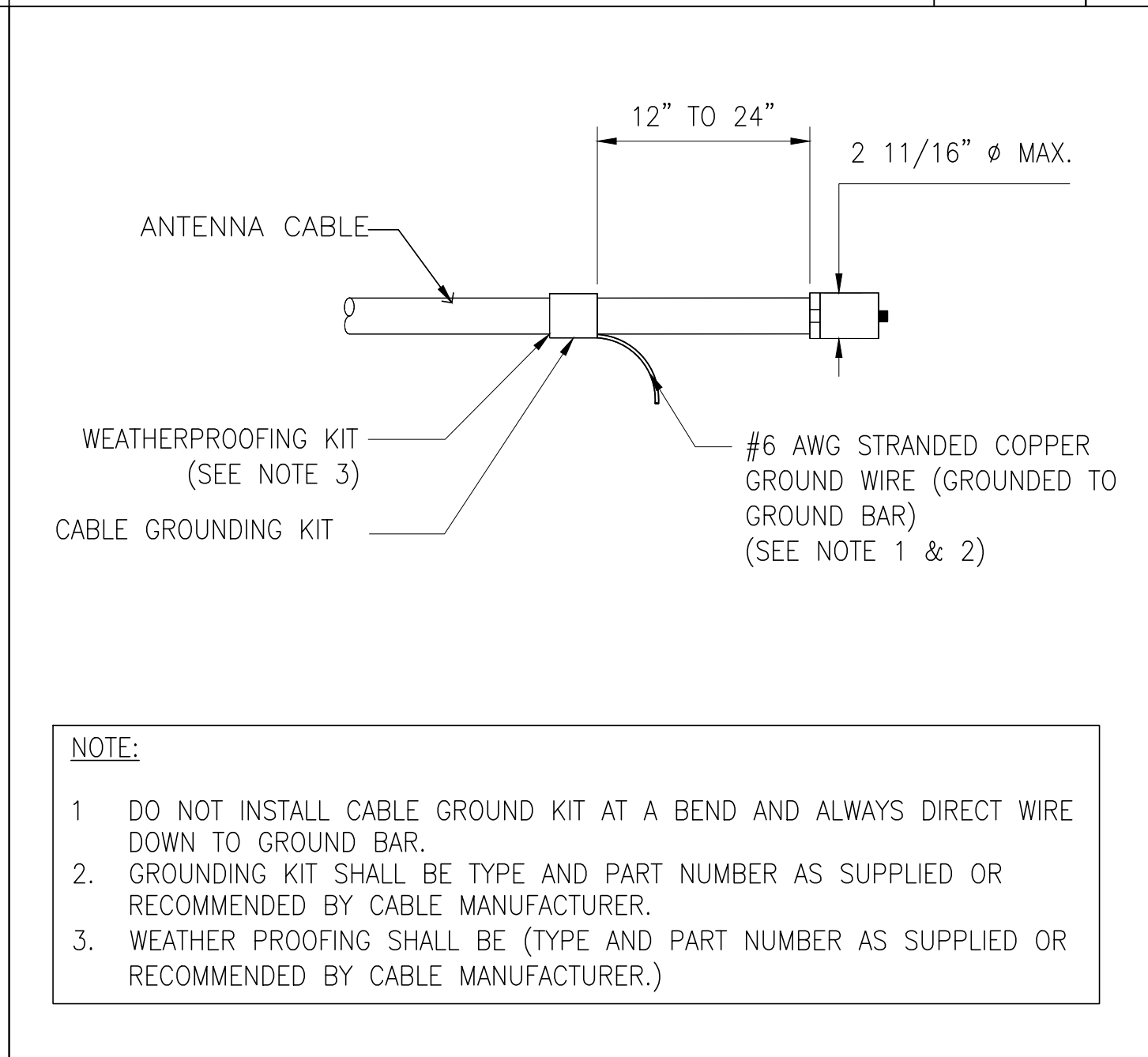
GROUND KIT CONN TO ANT CABL SCALE N.T.S. 4



GROUND BAR DETAIL SCALE N.T.S. 2



GROUND BAR CONNECTION SCALE N.T.S. 1



TYPICAL MECHANICAL CONNECTIONS SCALE N.T.S. 6



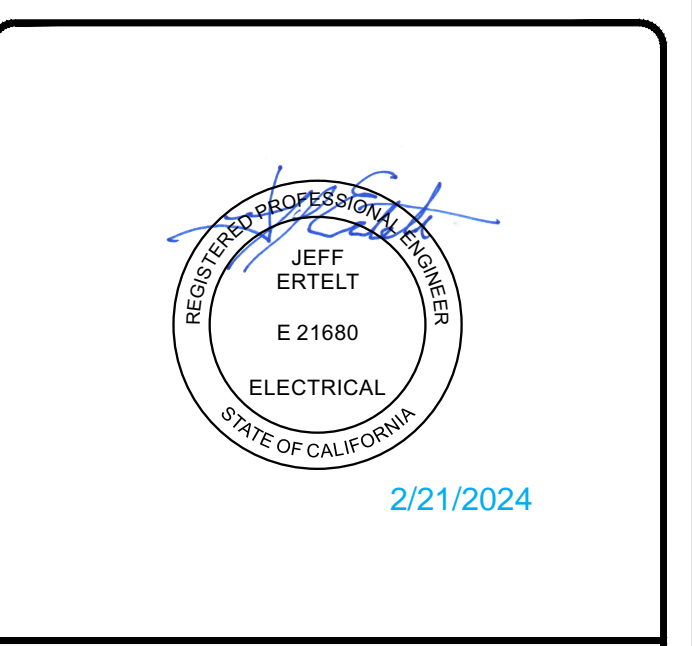
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SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G2