



9JK2098A
SBA BASS

SBA SITE: FL10961-A

4741 SW BIRLEY AVENUE
LAKE CITY, FL 32024

NEW SITE BUILD

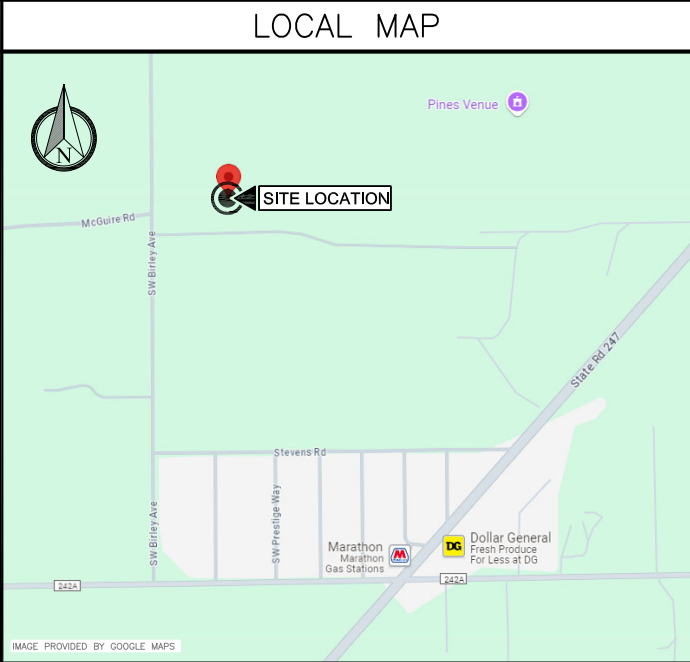
REV	DATE	DESCRIPTION
A	11/13/24	PRELIMINARY
B	12/16/24	REVISED
C	12/18/24	REVISED
D	2/17/25	REVISED
O	3/10/25	FOR PERMIT

APX PROJECT NO.:	24-0375.08
DRAWN BY:	A. WARREN
CHECKED BY:	M. ABBEY

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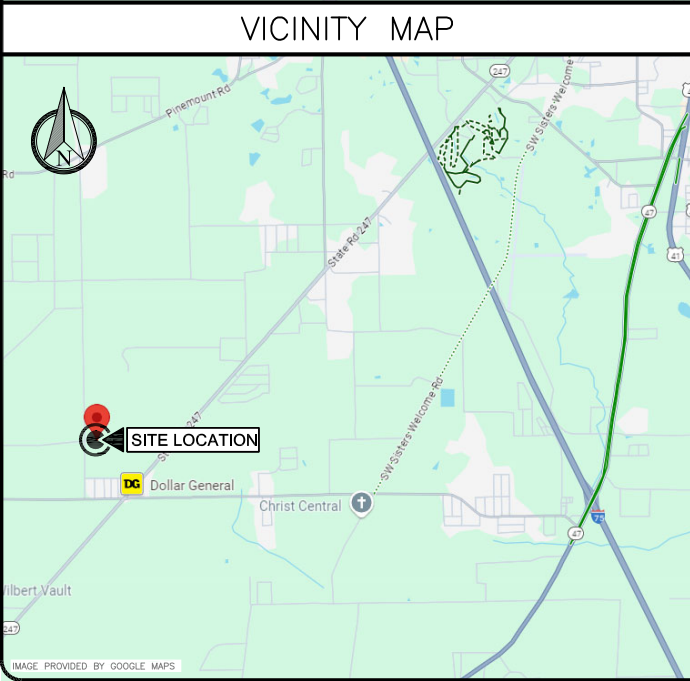
14471 MIRAMAR PARKWAY, SUITE 202
MIRAMAR, FL 33027
(954) 744-1538
CERTIFICATE OF AUTHORIZATION 31948



PROPERTY SUMMARY
FOLIO 20-4S-16-03007-008 (14382)
PROPERTY OWNER WILLIAM DAVID JR. & CLAIRE D. DURRANCE 4601 SW BIRLEY AVENUE LAKE CITY, FL 32024
LATITUDE 30.126086° N
LONGITUDE 82.732994° W
ZONING JURISDICTION COLUMBIA COUNTY

PROJECT DESCRIPTION
1. THE WIRELESS COMMUNICATIONS FACILITY IS NOT INTENDED FOR HUMAN OCCUPANCY.
2. THIS FACILITY DOES NOT REQUIRE POTABLE WATER AND WILL NOT PRODUCE ANY SEWAGE.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. THE SCOPE OF WORK CONSISTS OF CONSTRUCTING A NEW WIRELESS INSTALLATION AS FOLLOWS: INSTALLATION OF (6) PROPOSED ANTENNAS ON EXISTING TOWER. INSTALLATION OF ASSOCIATED TELECOMMUNICATIONS EQUIPMENT WITHIN EXISTING TOWER COMPOUND.

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C3	ELEVATION AND ANTENNA PLAN	0
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C5	DETAILS	0
C6	DETAILS	0
C7	DETAILS	0
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E4	ELECTRICAL DETAILS	0
E5	GROUNDING DETAILS AND NOTES	0
E6	ELECTRICAL AND GROUNDING DETAILS	0
E7	ELECTRICAL AND GROUNDING DETAILS	0



DESIGN CRITERIA
DESIGN WIND SPEED: 119 MPH (ULTIMATE, 3-SECOND GUST) EXPOSURE: C RISK CATEGORY: II OPEN STRUCTURE
CALL 48 HOURS BEFORE YOU DIG IT'S THE LAW ! 1-800-432-4770 SUNSHINE STATE ONE CALL OF FLORIDA, INC.

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.
1. FLORIDA BUILDING CODE, 8th EDITION (2023).
2. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 70-20, NATIONAL ELECTRICAL CODE, 2020 EDITION.
3. ASCE 7-22.
4. TIA-222-H APPLICABLE STANDARDS.
5. LIFE SAFETY CODE NFPA-101-2021.
6. FLORIDA FIRE PREVENTION CODE, 8th EDITION (2023).
7. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360-16 AND 341-16.
8. UNDERWRITERS LABORATORIES (U.L.) APPROVED ELECTRICAL PRODUCTS.
9. LOCAL JURISDICTIONAL REQUIREMENTS.
10. CITY/COUNTY ORDINANCES.

SBA SITE MANAGER'S NOTES
1. NO WORK PRIOR TO A PRECON WITH SBA RSM.
2. NO WORK WITHOUT A VALID NTP.
3. ALL CONTRACTORS NEED TO BE AVETTA APPROVED WITH SBA.
4. IF A CRANE IS GOING TO BE USED THE ACCESS ROAD HAS POWERLINES ON ONE SIDE. TREES MAY NEED TO BE TRIMMED BACK , THAT WILL BE THE RESPONSIBILITY OF T-MOBILE. ANY DAMAGE CAUSED BY THE CRANE WILL BE THE RESPONSIBILITY OF T-MOBILE AND THEIR CONTRACTOR TO REPAIR AT THEIR COST. NEED PICTURES OF WERE THE CRANE SETS UP. BEFORE AND AFTER PICTURES. ANY DAMAGE WILL NEED TO BE FIX IMMEDIATELY.
5. ALL TRASH AND EXTRA MATERIALS NEED TO BE PICKED UP AND REMOVED FROM THE SITE UPON COMPLETION. DO NOT DISPOSE OF TRASH ANYWHERE ON THE SITE. DO NOT THROW TRASH IN THE WOODS AROUND THE SITE.

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SHEET NAME
TITLE SHEET

SHEET NUMBER
T1

1. FOR THE PURPOSES OF THESE CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY: OWNER – T–MOBILE USA, LLC. ENGINEER – APX ENGINEERING GROUP, INC. CONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION) 2. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR SHALL VISIT THE JOB SITE IN ORDER TO (1) VERIFY ALL EXISTING CONDITIONS, (2) CONFIRM WHETHER ALL DIMENSIONS ARE AS SHOWN ON THE PLANS AND (3) CONFIRM WHETHER THE WORK MAY BE ACCOMPLISHED AS SHOWN. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER. 3. A 20 FOOT HORIZONTAL CLEARANCE DISTANCE SHALL BE MAINTAINED FROM ALL EXISTING POWER LINES. 4. THE CONTRACTOR’S USE OF A CONSTRUCTION STAGING AREA SHALL BE COORDINATED WITH THE OWNER WELL IN ADVANCE OF THE CONSTRUCTION START DATE. 5. LABOR, MATERIAL, TOOLS, EQUIPMENT, TRANSPORTATION AND TEMPORARY POWER SERVICES NECESSARY FOR AND INCIDENTAL TO COMPLETION OF ALL WORK SHALL BE PROVIDED AS INDICATED ON THE DRAWINGS AND/OR AS SPECIFIED HEREIN. LABOR AND MATERIALS SHALL BE FURNISHED AS REQUIRED FOR COMPLETE SYSTEMS, INCLUDING ALL ELEMENTS OBVIOUSLY OR REASONABLY INCIDENTAL TO A COMPLETE INSTALLATION, WHETHER OR NOT SPECIFICALLY INDICATED ON THE PLANS. 6. FOR TASKS REQUIRED TO BE PERFORMED BUT NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL NOT START WORK ON SUCH TASKS WITHOUT HAVING RECEIVED WRITTEN AUTHORIZATION FROM THE CONSTRUCTION MANAGER TO PROCEED. 7. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND EQUIPMENT UNLESS OTHERWISE INDICATED BY DIMENSIONS OR DETAILS. EXACT EQUIPMENT LOCATIONS MAY BE MODIFIED AS REQUIRED BY ACTUAL FIELD CONDITIONS. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION FOR APPROVAL BY THE ENGINEER AND THE CONSTRUCTION MANAGER. 8. THE CONTRACTOR SHALL OBTAIN, PAY FOR AND DELIVER ALL REQUIRED PERMITS, CERTIFICATES OF INSPECTION, INCLUDING UTILITY CONNECTION FEES, ETC., REQUIRED BY THE AUTHORITIES HAVING JURISDICTION AND SHALL DELIVER SUCH DOCUMENTS TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK. 9. THE CONTRACTOR’S OPERATIONS SHALL BE CONFINED TO AREAS OF NEW CONSTRUCTION. 10. ALL NECESSARY PROVISIONS SHALL BE MADE TO PROTECT EXISTING IMPROVEMENTS, LANDSCAPING, PAVING, CURBS, GALVANIZED SURFACES, ETC, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO SAME RESULTING FROM THE CONSTRUCTION WORK. ALL DISTURBED AND DAMAGED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER UPON COMPLETION OF ALL WORK TO THE SATISFACTION OF THE CONSTRUCTION MANAGER. 11. THE FOLLOWING CLEANUP TASKS SHALL BE PERFORMED AS FOLLOWS: (1) ON A DAILY BASIS, KEEP THE GENERAL AREA CLEAN AND HAZARD FREE, REMOVING ALL WASTE, DEBRIS AND TRASH FROM THE SITE AND DISPOSING OF SAME IN A LEGAL MANNER. (2) UPON COMPLETION, LEAVE THE PREMISES IN A CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. 12. ALL EQUIPMENT AND MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE RESPECTIVE MANUFACTURER’S RECOMMENDATIONS EXCEPT WHERE IT IS SPECIFICALLY INDICATED OTHERWISE IN THE CONTRACT DOCUMENTS OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE. 13. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY HAVING JURISDICTION OVER THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AS WELL AS LOCAL AND STATE CODES, ORDINANCES AND APPLICABLE REGULATIONS. 14. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AT ALL TIMES, USING THE BEST SKILLS AND ATTENTION. HE SHALL BE SOLELY RESPONSIBLE FOR ALL OF THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK, INCLUDING CONTACT AND COORDINATION WITH THE CONSTRUCTION MANAGER AND WITH THE OWNER’S AUTHORIZED REPRESENTATIVE. 15. WITHIN TEN WORKING DAYS AFTER PROJECT COMPLETION, THE CONTRACTOR SHALL PROVIDE A COMPLETE SET OF AS–BUILT DRAWINGS, SWEEP TEST, CYLINDER TESTS, LIEN RELEASES, AND OTHER CLOSEOUT DOCUMENTATION AS REQUIRED BY THE OWNER. ALL SYSTEMS SHALL BE COMPLETELY ASSEMBLED, TESTED, ADJUSTED AND DEMONSTRATED TO BE READY FOR OPERATION PRIOR TO THE OWNER’S ACCEPTANCE. 16. THE APPROPRIATE UTILITY LOCATING SERVICES SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION IN ORDER TO VERIFY THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. 17. THE INSTALLATION OF NEW UTILITIES SHALL BE COORDINATED WITH LOCAL AUTHORITIES. 18. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AT ALL TIMES. WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SUCH UTILITIES SHALL BE RELOCATED AS DIRECTED BY THE CONSTRUCTION MANAGER. EXTREME CAUTION SHALL BE USED WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. 19. RUBBISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY. 20. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES THAT INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS THAT WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF THE LANDLORD AND/OR LOCAL UTILITIES. 21. DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION SHALL BE MINIMIZED. 22. ANY AREAS OF THE CONSTRUCTION SITE DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE. SUCH GRADING SHALL CAUSE SURFACE WATER TO FLOW AWAY FROM ANY EQUIPMENT SHELTER AND TOWER AREAS AND THE SOIL SHALL BE STABILIZED TO PREVENT EROSION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL. 23. AS REQUIRED, THE SUB–GRADE SHALL BE COMPACTED AND BROUGHT TO A UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION. 24. BACKFILL SHALL CONSIST OF CLEAN SAND FILL APPROVED FOR USE BY THE ENGINEER. NO UNAPPROVED MATERIAL WILL BE ALLOWED. 25. CLEAN SAND FILL SHALL BE FREE OF ALL ROOTS, BOULDERS, OR OTHER DELETERIOUS MATERIAL. 26. THE CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO EQUAL TO OR BETTER CONDITION THAN ORIGINAL. 27. SITE SIGNAGE SHALL BE PROVIDED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS FOR SUCH SIGNAGE AS MAY BE CONTAINED IN THESE DRAWINGS.	1
SITE WORK NOTES	

AS OUTLINED BELOW, THE CONTRACTOR SHALL INSPECT THE T–MOBILE EQUIPMENT AREA AND ACCESS PATHS TO THE EQUIPMENT FOR OSHA VIOLATIONS. VIOLATIONS SHALL BE CORRECTED. DISCREPANCIES OR QUESTIONS REGARDING THE OSHA SCOPE OF WORK SHALL BE DIRECTED TO THE T–MOBILE FM. 1. RF RADIATION SIGNS SHALL BE INSTALLED AT ROOFTOP DOORS AND EACH SECTOR. 2. HOLES IN A PLATFORM WALKING SURFACES SHALL BE COVERED AND SECURED WITH CARRIAGE BOLTS. 3. INSTALL A NON–SLIP PATH LEADING TO THE T–MOBILE LEASE AREA. 4. HANDRAILS SHALL BE INSTALLED WITHIN 15 FEET OF WORKING/WALKING SURFACES WHEN THE PARAPET OR THE EXPOSED WALKING EDGES RAILINGS IS LESS THAN 42 INCHES ABOVE WALKING EDGE. 5. TRIP HAZARDS NEAR WORKING/WALKING SURFACES SHALL BE MARKED WITH HIGH VISIBILITY PAINT OR TAPE. 6. INSTALL A CROSSOVER STAIR WHEN OBSTRUCTIONS PREVENT A DIRECT WALKING PATH TO THE T–MOBILE LEASE AREA. 7. PLATFORM LADDERS SHALL HAVE A CHAIN AT THE TOP WHICH CAN BE SECURED TO PREVENT ACCIDENTAL FALLS. 8. OVERHEAD OBSTRUCTIONS NEAR WORKING AND WALKING SURFACES THAT REQUIRE A PERSON TO DUCK SHALL BE COVERED WITH HIGH VISIBILITY PAINT OR TAPE. 9. LIGHTS NEAR THE ROOFTOP DOOR AND OR LEASE AREA SHALL BE VERIFIED AND MADE FUNCTIONAL FOR AFTER–HOURS WORK. 10. THERE SHOULD BE NO SCREW THAT CAUSE A PENETRATION INTO ANY CABINETS THAT ARE NOT FACTORY PROVIDED.	
SAFETY COMPLIANCE NOTES	
1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST EDITION OF THE AISC "STEEL CONSTRUCTION MANUAL". 2. MATERIAL: A. ALL STRUCTURAL STEEL WF BEAMS SHALL BE ASTM A992 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS. B. ALL STRUCTURAL PLATES, ANGLES, AND CHANNELS SHALL BE ASTM A36 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS, UNLESS NOTED OTHERWISE. C. ALL HSS MEMBERS SHALL BE ASTM A1085 AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS. D. ALL NON–STRUCTURAL PIPE MEMBERS SHALL BE ASTM A53 GRADE B, AND "HOT DIPPED" GALVANIZED IN ACCORDANCE WITH ASTM A123 AND ASTM A153 STANDARDS. 2. DESIGN, FABRICATION, AND CONSTRUCTION OF ALL CONNECTIONS SHALL CONFORM TO AISC STEEL CONSTRUCTION MANUAL. 3. WELDING: A. ALL WELDS, WELDERS, AND WELD INSPECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AWS D 1.1, LATEST REVISION. B. ALL WELDS SHALL BE MADE WITH E70XX LOW HYDROGEN ELECTRODES. C. ALL STEEL SHALL BE SPRAY GALVANIZED AFTER WELDING. 4. ALL BOLTS SHALL BE GALVANIZED 3/4 INCH DIAMETER, A325–N, UNLESS NOTED OTHERWISE AND TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC. SECURE NUT WITH LOCKING WASHER. 5. ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 GRADE 36, UNLESS NOTED OTHERWISE. 6. THE CONTRACTOR/STEEL FABRICATOR SHALL LOCATE ANY REINFORCEMENT IN THE STRUCTURAL MEMBERS IN SUCH A MANNER SO THAT THERE WILL NOT BE CONFLICT WITH THE REINFORCEMENT WHEN INSTALLING ANCHORS. THE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER’S INSTRUCTION. 7. THE CONTRACTOR/STEEL FABRICATOR SHALL CONFORM TO THE MINIMUM EDGE DISTANCE REQUIREMENTS IN ACCORDANCE WITH THE AISC MANUAL OF STEEL CONSTRUCTION. 8. ALL STRUCTURAL STEEL SHALL BE FABRICATED TO FIT AT BOLTED CONNECTIONS WITHIN 1/16 INCH TOLERANCE. STRUCTURAL STEEL SHALL NOT BE FLAME CUT UNDER ANY CIRCUMSTANCES WITHOUT APPROVAL OF THE ENGINEER. 9. THE CONTRACTOR/STEEL FABRICATOR SHALL CAP OR SEAL ALL PIPES AS REQUIRED TO PREVENT WATER INTRUSION. 10. THE CONTRACTOR/STEEL FABRICATOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO ANY STEEL FABRICATION. AT THE CONTRACTOR’S OPTION, FIELD SPLICES MAY BE USED FOR ERECTION PURPOSES. IF FIELD SPLICES ARE USED, THE SHOP DRAWINGS SHALL INCLUDE ALL DETAILS FOR THE PROPOSED FIELD SPLICES. 11. AT THE CONTRACTOR’S OPTION, SHOP WELDS MAY BE USED INSTEAD OF FIELD WELDS. 12. SUBMIT ORIGINAL SHOP DRAWINGS, INCLUDING COMPLETE DETAILS, SCHEDULES OF FABRICATION AND ASSEMBLY, PROCEDURES, AND DIAGRAMS. INCLUDE DETAILS OF CUTS, CONNECTIONS, CAMBER, HOLE, AND OTHER PERTINENT DATA. INDICATE WELDS BY STANDARD AWS A2.1 AND A2.4 SYMBOLS, AND SHOW SIZE, LENGTH, AND TYPE OF WELD. PROVIDE SETTING DRAWINGS, TEMPLATES, AND DIRECTIONS FOR INSTALLATION OF ANCHOR BOLTS AND OTHER ANCHORAGES TO BE INSTALLED AS WORK OF OTHERS’ SECTIONS.	
STRUCTURAL STEEL NOTES	

REV	DATE	DESCRIPTION
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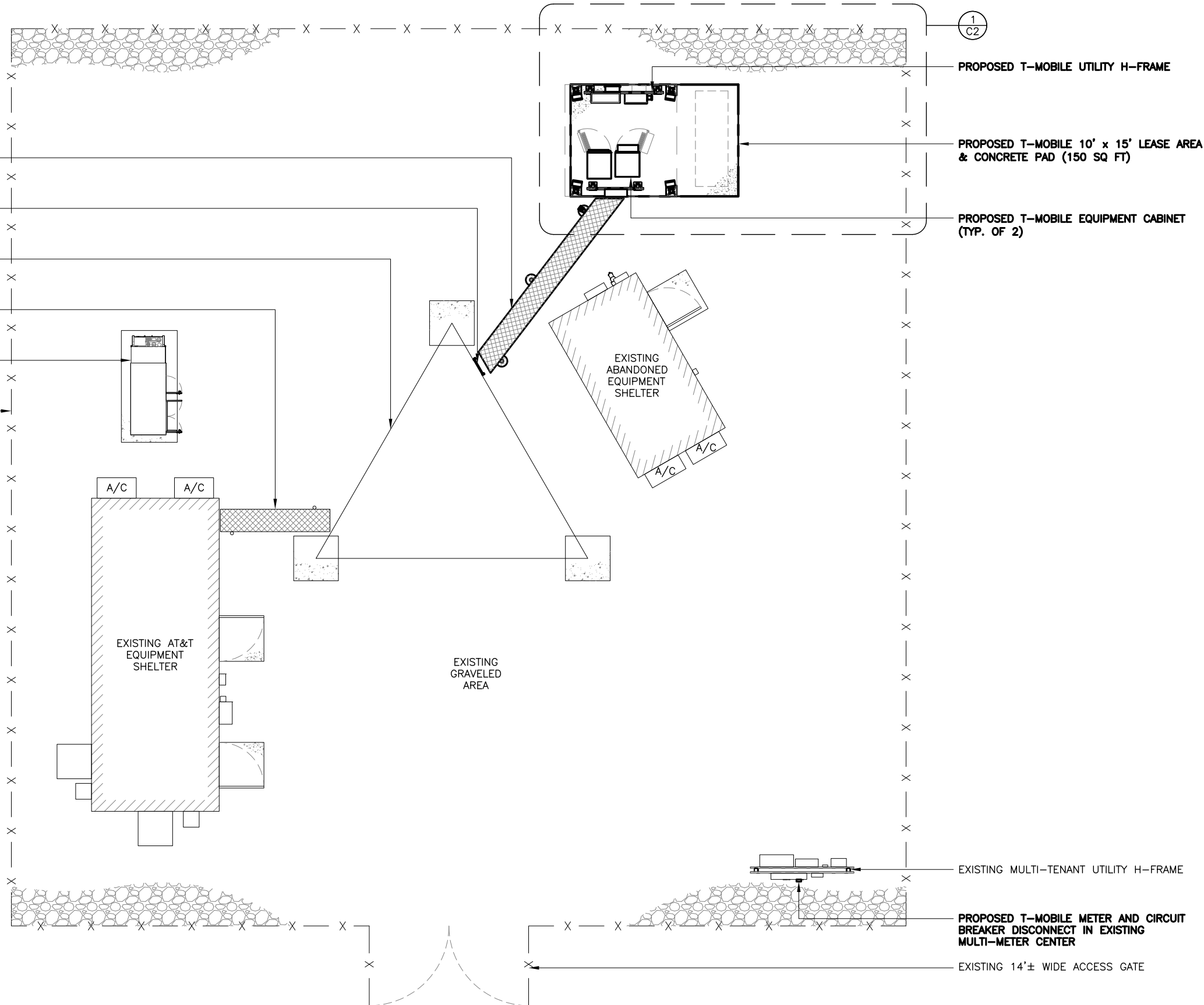
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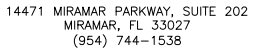
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SHEET NAME
GENERAL NOTES
SHEET NUMBER
T2



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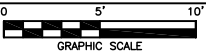
4741 SW BIRLEY AVENUE
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SHEET NAME

COMPOUND PLAN

SHEET NUMBER

C1





EXISTING 6'± HIGH CHAIN-LINK FENCE W/ 3-STRAND BARBED WIRE

FUTURE T-MOBILE 200A ATS

PROPOSED T-MOBILE 200A PPC

PROPOSED T-MOBILE CIENA BOX

PROPOSED T-MOBILE UTILITY H-FRAME (TYP. OF 2)

PROPOSED KENWOOD TELECOM CANOPY BASEPLATE (TYP. OF 4)

PROPOSED T-MOBILE SERVICE LIGHT WITH 60 MINUTE TIMER (TYP. OF 4)

PROPOSED T-MOBILE TELCO CABINET

PROPOSED T-MOBILE SITE SUPPORT CABINET (ERICSSON 6160)

PROPOSED T-MOBILE BATTERY CABINET (ERICSSON B160)

PROPOSED T-MOBILE 10' x 15' LEASE AREA (150 SQ FT)

OUTLINE OF PROPOSED KENWOOD TELECOM 10' x 10' CANOPY ABOVE, #Z2052KTF10X10 (DESIGN PROVIDED BY OTHERS)

PROPOSED T-MOBILE GPS ANTENNA

PROPOSED T-MOBILE CABLE BRIDGE

PROPOSED T-MOBILE HYBRID CABLE SPOOL BOX

FUTURE T-MOBILE GENERATOR

EXISTING GRAVELED AREA

1
C8

6
C7

4
C4

1
C7

1
C7

3
C6

1
C6

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CHECKED BY: M. ABBEY

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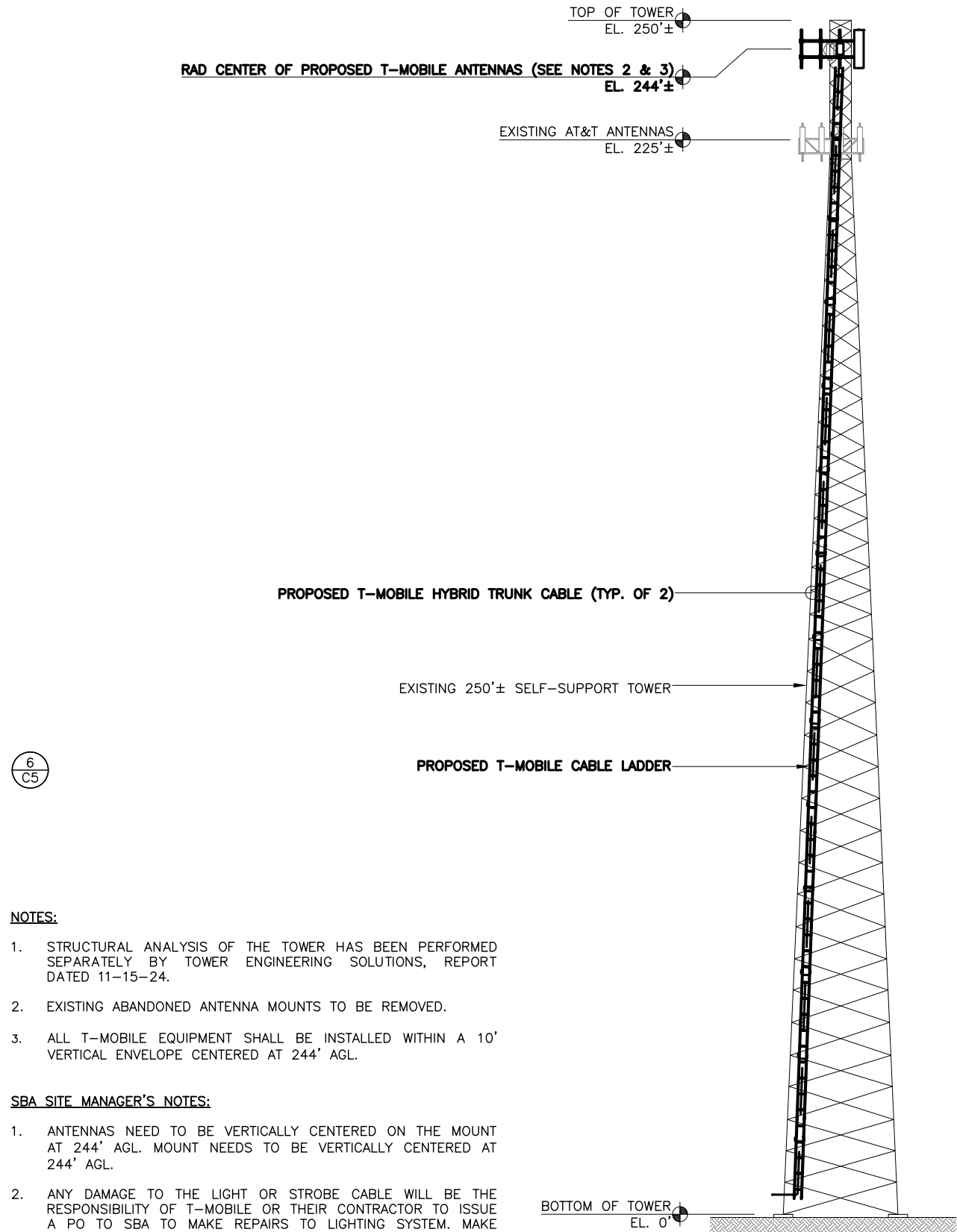
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SHEET NAME

EQUIPMENT PLAN

SHEET NUMBER

C2



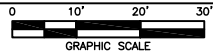
NOTES:

- STRUCTURAL ANALYSIS OF THE TOWER HAS BEEN PERFORMED SEPARATELY BY TOWER ENGINEERING SOLUTIONS, REPORT DATED 11-15-24.
- EXISTING ABANDONED ANTENNA MOUNTS TO BE REMOVED.
- ALL T-MOBILE EQUIPMENT SHALL BE INSTALLED WITHIN A 10' VERTICAL ENVELOPE CENTERED AT 244' AGL.

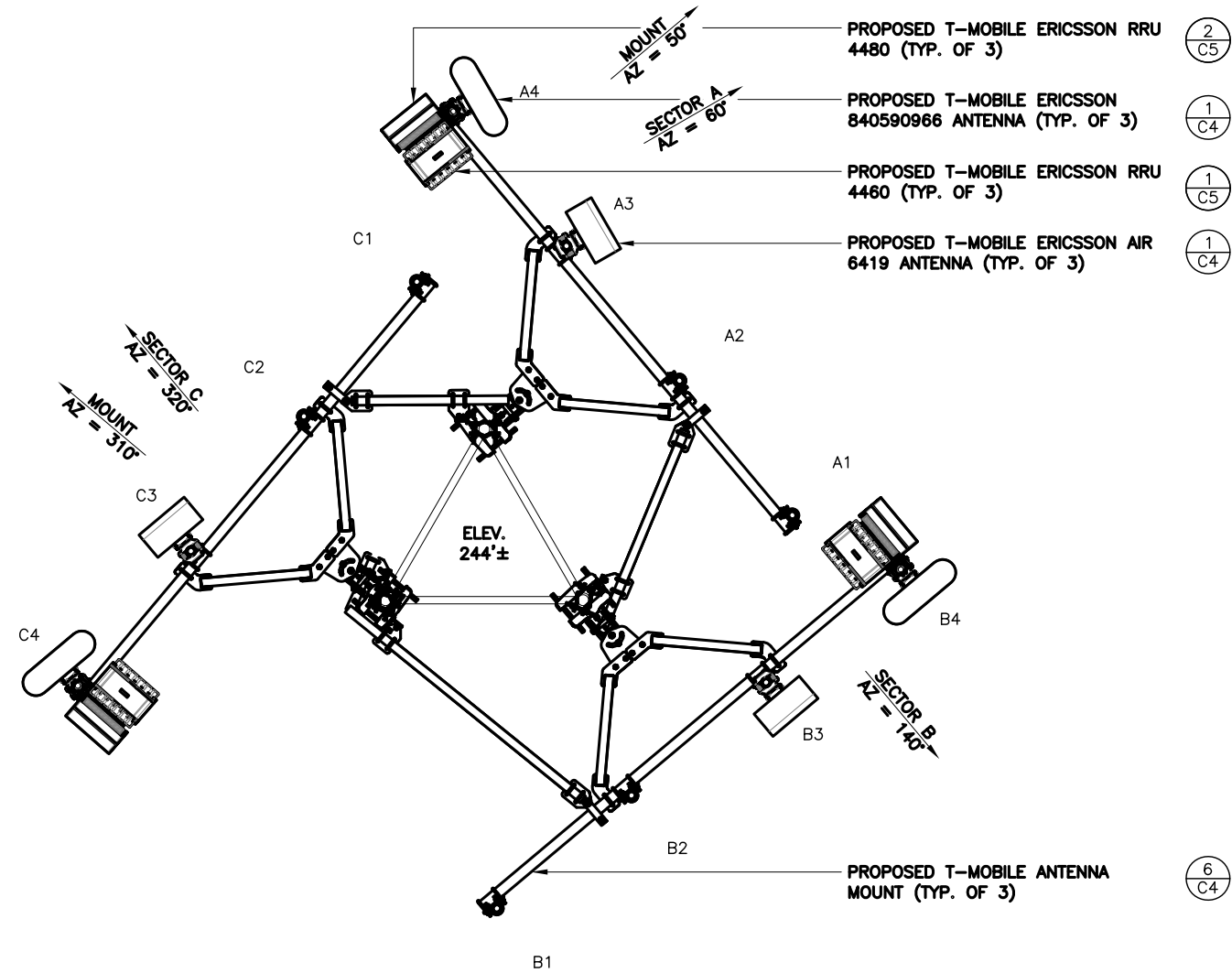
SBA SITE MANAGER'S NOTES:

- ANTENNAS NEED TO BE VERTICALLY CENTERED ON THE MOUNT AT 244' AGL. MOUNT NEEDS TO BE VERTICALLY CENTERED AT 244' AGL.
- ANY DAMAGE TO THE LIGHT OR STROBE CABLE WILL BE THE RESPONSIBILITY OF T-MOBILE OR THEIR CONTRACTOR TO ISSUE A PO TO SBA TO MAKE REPAIRS TO LIGHTING SYSTEM. MAKE SURE YOU HAVE PRE AND POST PICTURES WERE THE STROBE CABLE RUNS PAST THE MOUNTS. DO NOT TRAP STROBE CABLE BEHIND MOUNTING BRACKETS FOR THE MOUNTS OR STIFF ARMS.
- DO NOT OBSTRUCT THE PEGS/LADDER WITH ANY TOWER TOP EQUIPMENT. THIS INCLUDES COAX RUNNING ACROSS CLIMBING FACE. DO NOT PINCH TRAP OR KINK THE SAFETY CLIMB CABLE. IT IS T-MOBILE RESPONSIBILITY TO INSTALL A CABLE GUIDE ONTO THEIR MOUNT TO KEEP SAFETY CLIMB CABLE FROM RUBBING ON MOUNT.

TOWER ELEVATION



1



NOTE:

STRUCTURAL ANALYSIS OF THE PROPOSED MOUNTS HAS BEEN PERFORMED SEPARATELY BY TOWER ENGINEERING SOLUTIONS, REPORT DATED 11-05-24.

ANTENNA PLAN

NTS 2

REV	DATE	DESCRIPTION
A	11/13/24	PRELIMINARY
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CHECKED BY:	M. ABBEY

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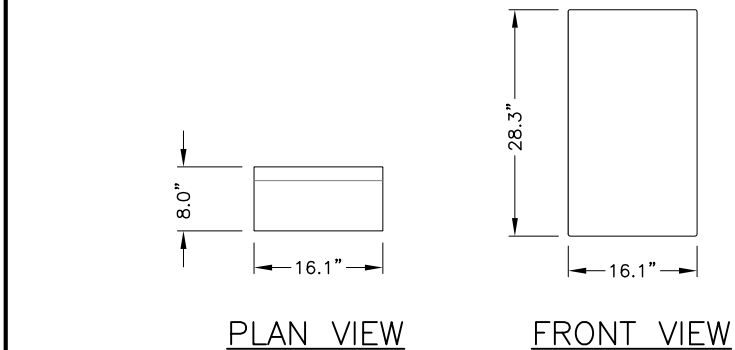
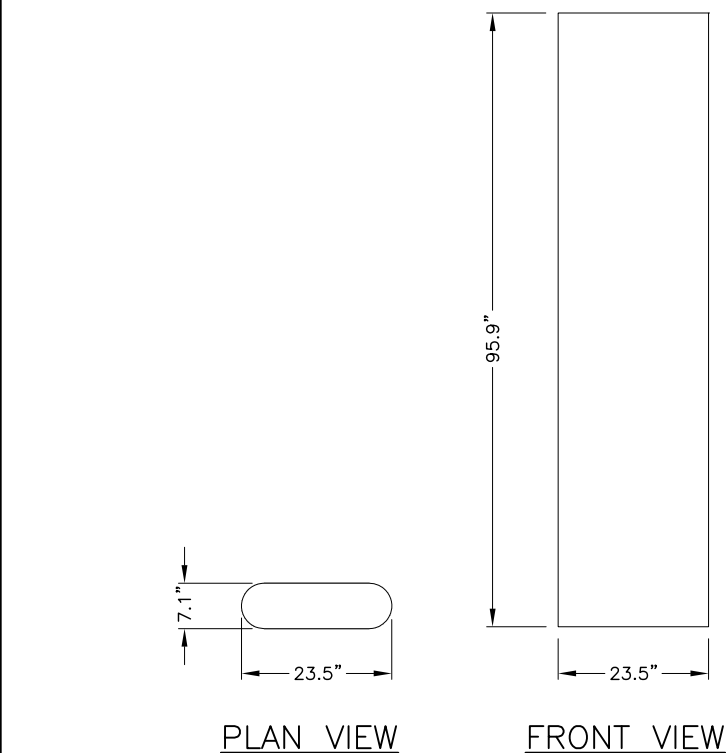
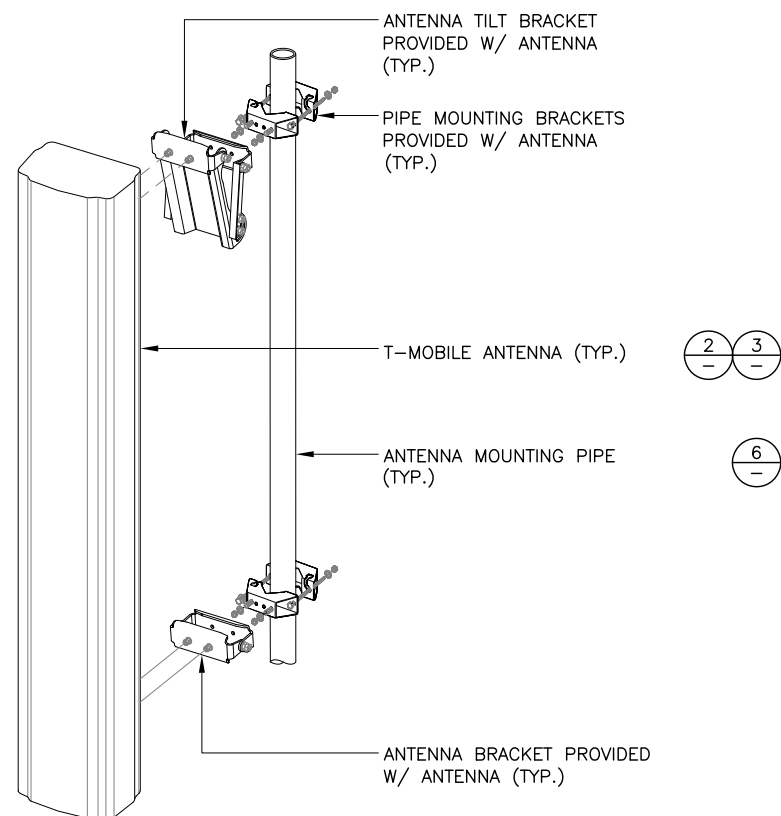
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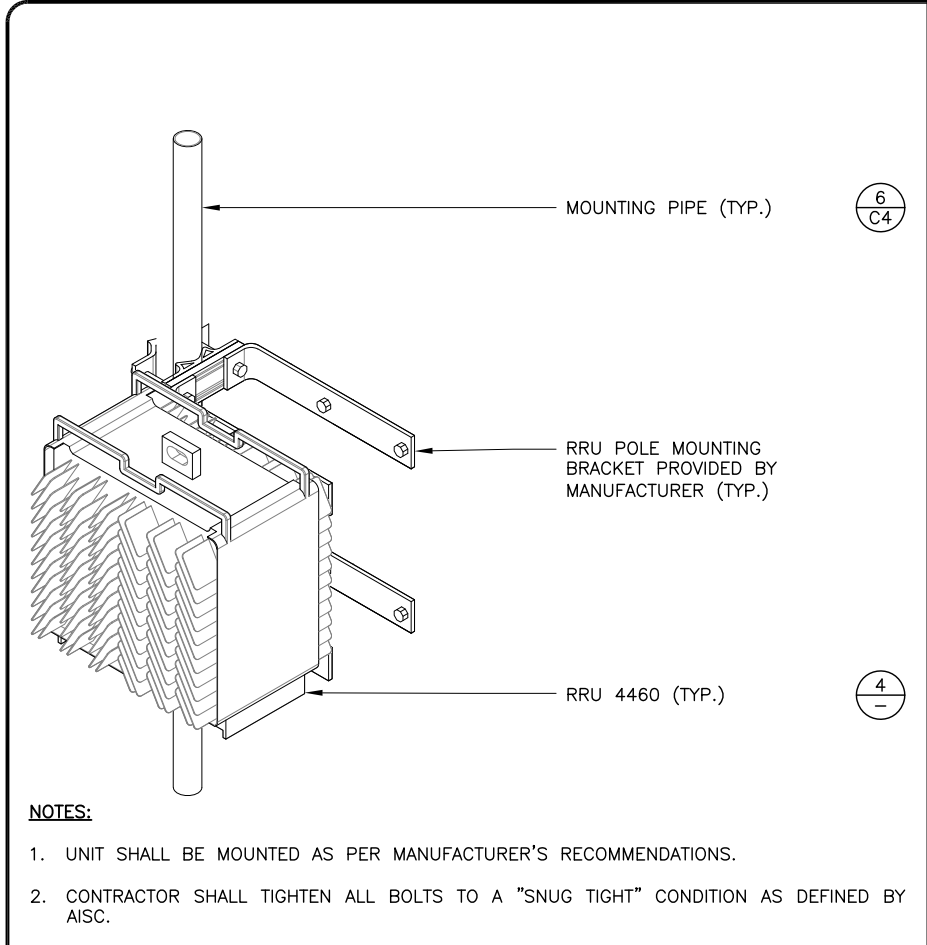
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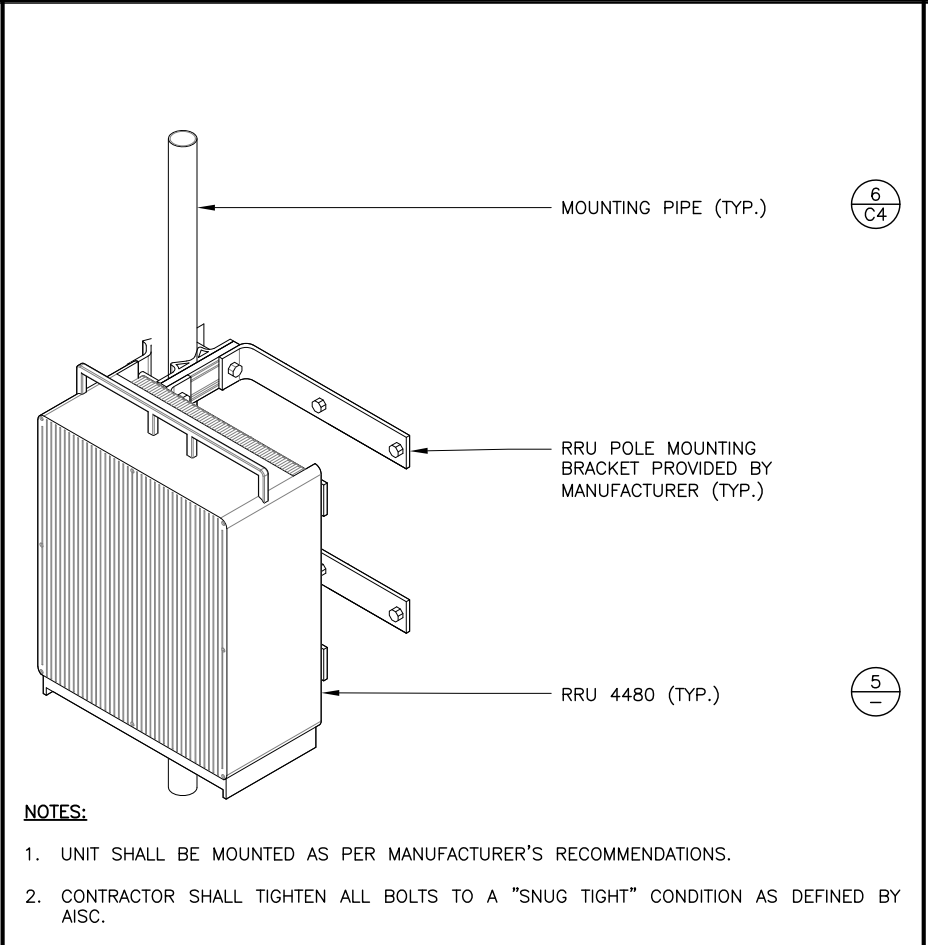
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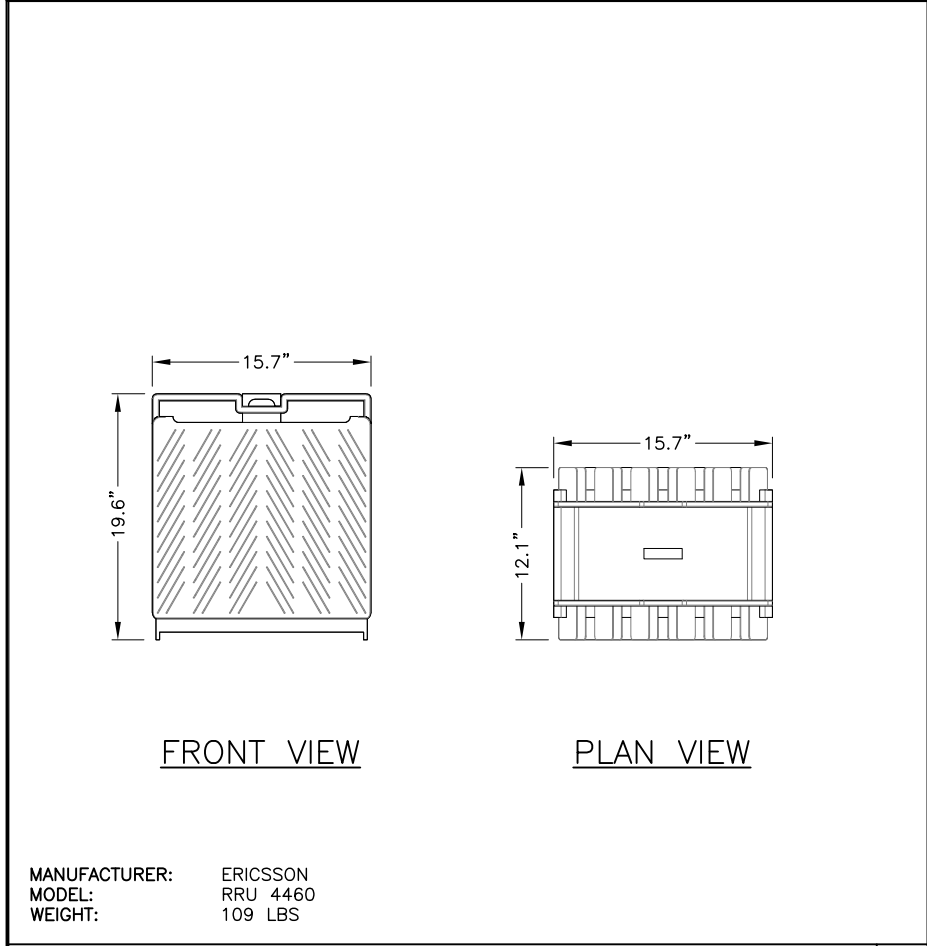


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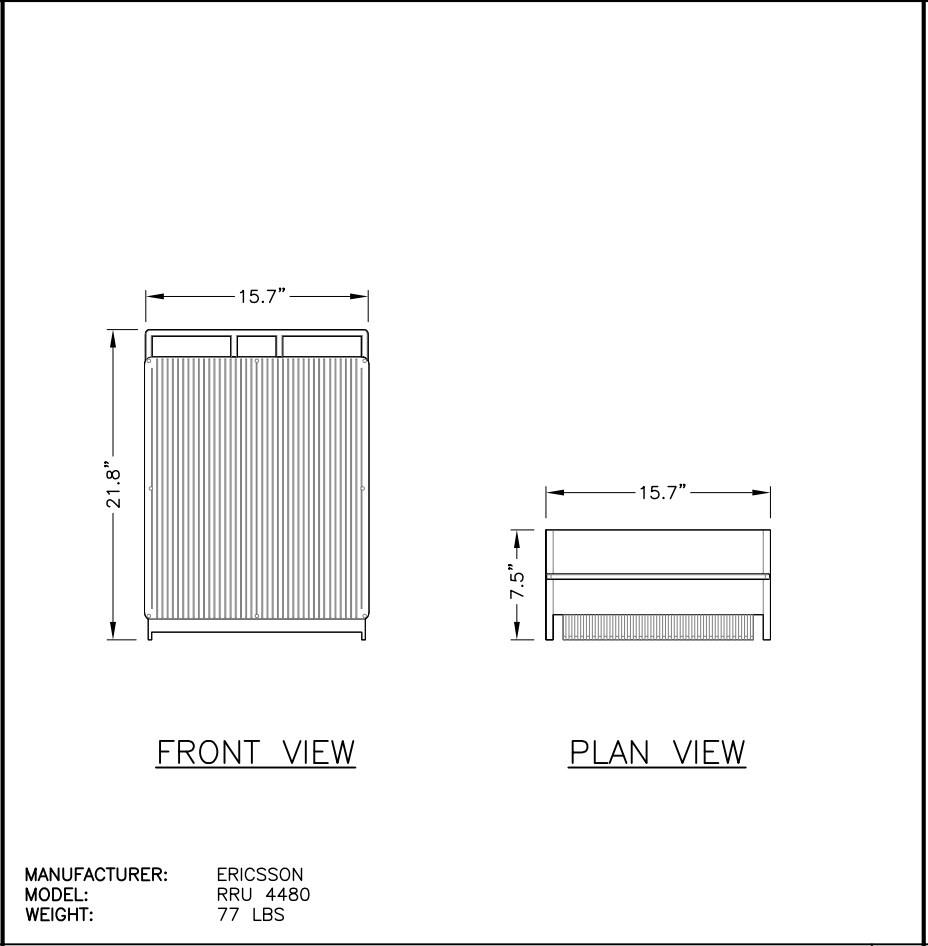


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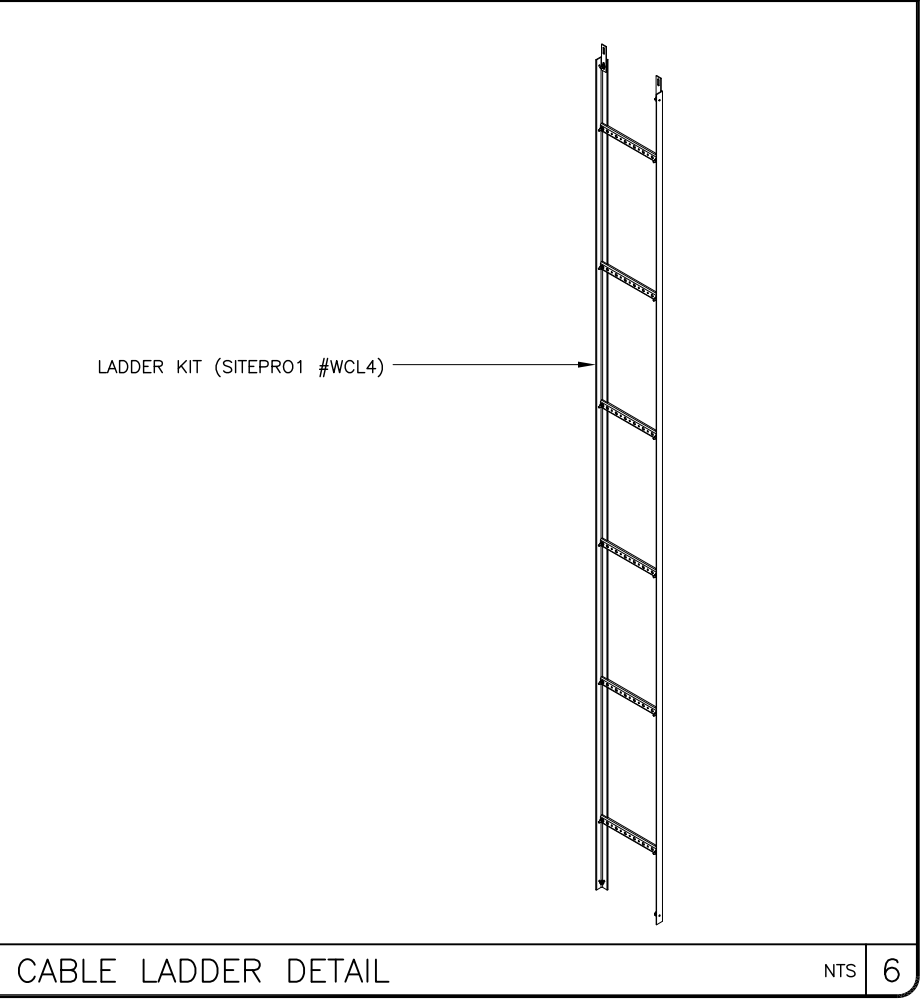
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RRU 4460 SPECS NTS 4



RRU 4480 SPECS NTS 5



CABLE LADDER DETAIL NTS 6

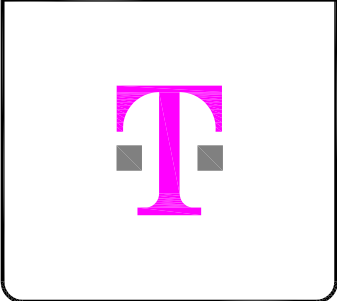
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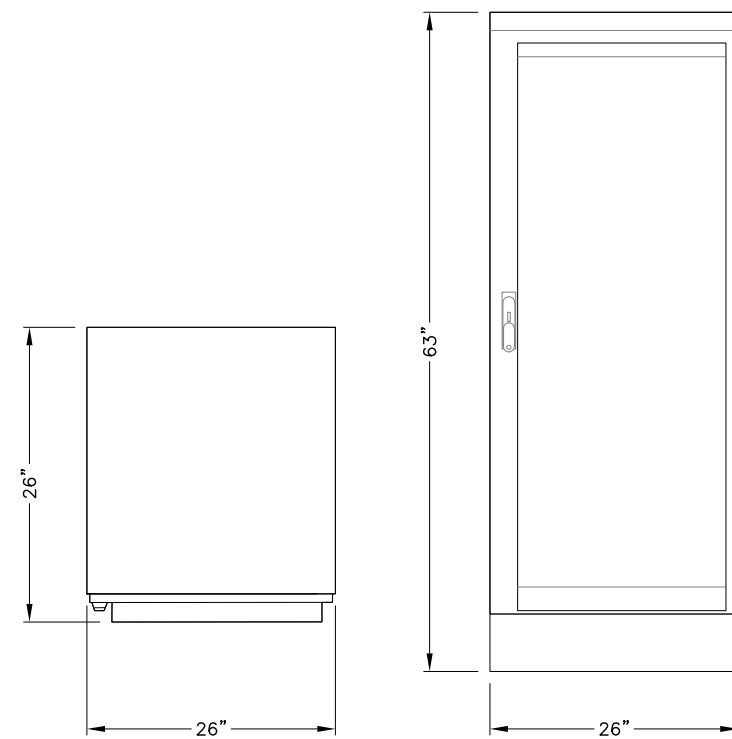
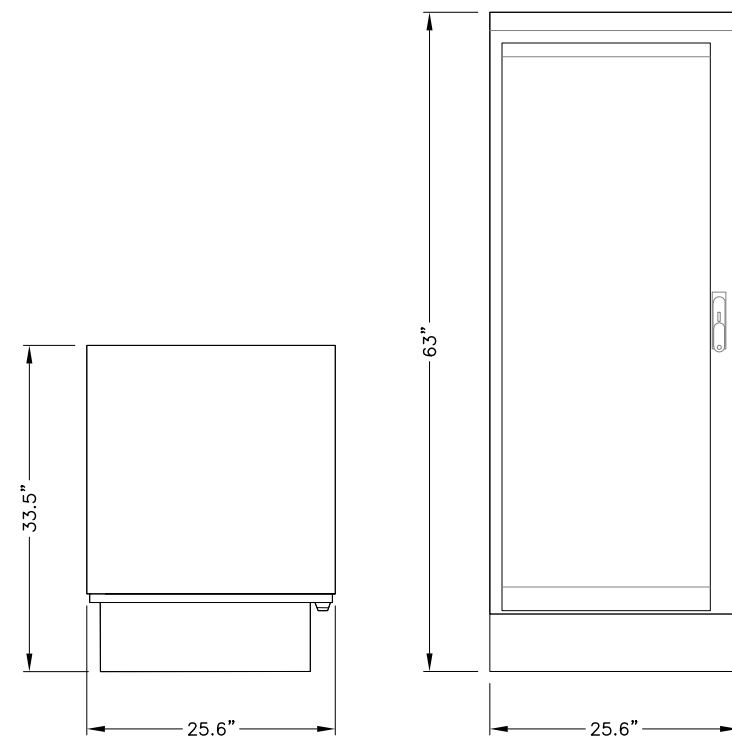
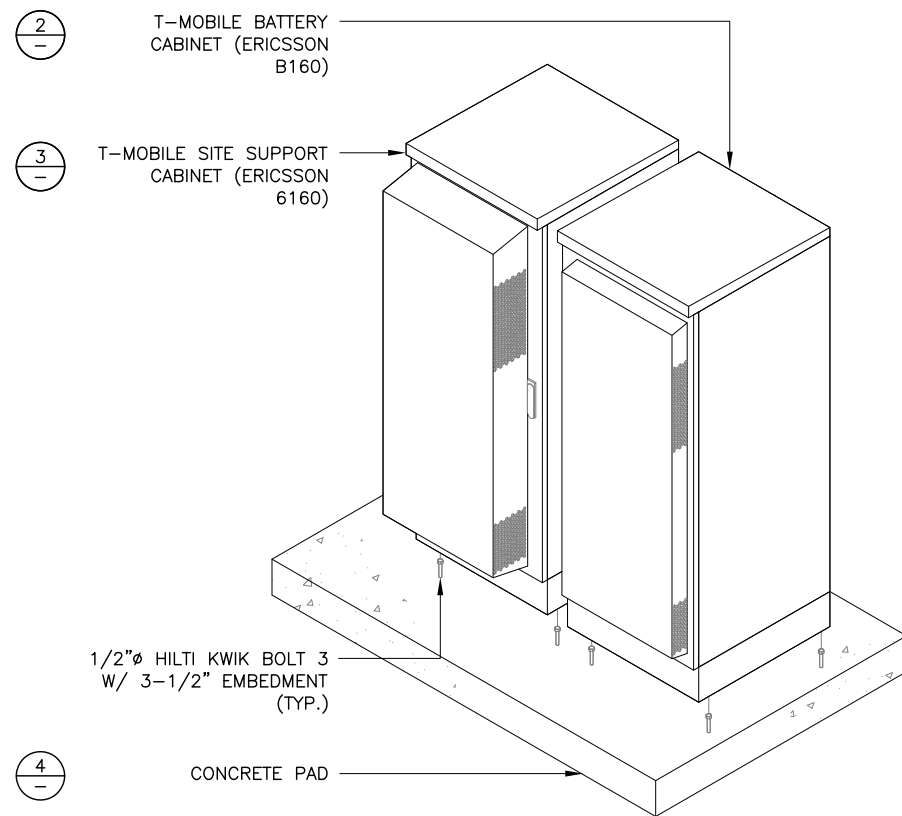
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SHEET NAME
DETAILS
SHEET NUMBER
C5



CABINET MOUNTING DETAIL

NTS

1

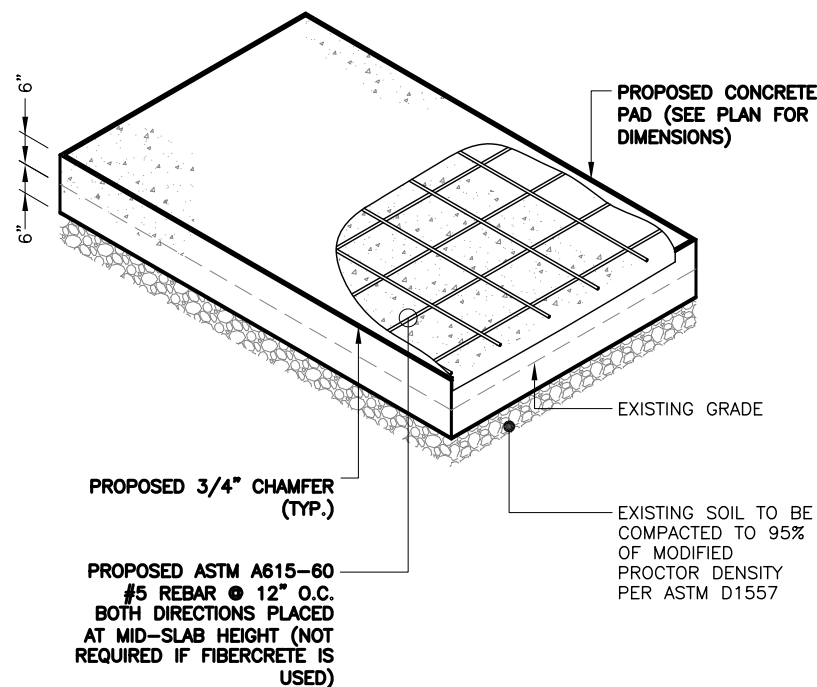
6160 SITE SUPPORT CABINET SPECS

NTS

2

B160 BATTERY CABINET SPECS

NTS



NOTES:

1. ALL CONCRETE SHALL BE 3,000 PSI 28-DAY COMPRESSIVE STRENGTH, NORMAL WEIGHT, MAXIMUM AGGREGATE SIZE OF 3/4 INCHES, 0.45 MAX. W/C, 4-5 INCH SLUMP.
2. FOUNDATION DESIGN BASED UPON AN ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF IN ACCORDANCE WITH FBC TABLE 1806.2.

CONCRETE PAD DETAIL

NTS

4

TOWER TOP EQUIPMENT SCHEDULE

5

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A - GENERAL

- A1. ALL ELECTRICAL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (EDITION ADOPTED BY LOCAL JURISDICTION) AND APPLICABLE LOCAL CODES.
- A2. GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE.
- A3. ALL ELECTRICAL EQUIPMENT AND ACCESSORIES SHALL BE U.L. APPROVED OR LISTED.
- A4. ALL POWER WIRING SHALL BE STRANDED COPPER, TYPE THHN/THHW AND 90 DEGREES C RATED.
- A5. ALL POWER WIRING SHALL BE INSTALLED IN GALVANIZED RIGID STEEL CONDUIT, PVC, OR FLEXIBLE LIQUIDTIGHT CONDUIT, AS INDICATED.
- A6. CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY PERMIT FEES, AND SCHEDULE INSPECTIONS.
- A7. CONTRACTOR SHALL APPLY FOR ELECTRICAL SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS, SERVICE ROUTING, AND METER SOCKET TYPE WITH LOCAL POWER COMPANY.
- A8. CONTRACTOR SHALL APPLY FOR TELEPHONE SERVICE AS SOON AS POSSIBLE AND COORDINATE REQUIREMENTS AND SERVICE ROUTING WITH TELEPHONE COMPANY.
- A9. PROVIDE ALL LABOR AND MATERIAL DESCRIBED ON THIS DRAWING, AND ALL ITEMS INCIDENTAL TO COMPLETING AND PRESENTING THIS PROJECT AS FULLY OPERATIONAL.
- A10. WHERE LONG POWER CABLE RUNS PREVAIL, CONTRACTOR SHALL CALCULATE THE VOLTAGE DROP AND SIZE WIRES AND CONDUIT ACCORDINGLY.
- A11. WHERE TRANSFORMER IS REQUIRED FOR ELECTRICAL SERVICE, TRANSFORMER SECONDARY SHALL BE GROUNDED PER N.E.C., ARTICLE 250-26.
- A12. ALL ELECTRICAL DEVICES EXPOSED TO WEATHER SHALL BE OF RAINPROOF CONSTRUCTION AND SHALL REQUIRE WATER TIGHT CONDUIT HUBS.
- A13. RECORD DRAWINGS: MAINTAIN A RECORD OF ALL CHANGES, SUBSTITUTIONS BETWEEN WORK AS SPECIFIED AND INSTALLED. RECORD CHANGES ON A CLEAN SET OF CONTRACT DOCUMENTS WHICH SHALL BE TURNED OVER TO THE CONSTRUCTION MANAGER UPON COMPLETION OF THE PROJECT.
- A14. GUARANTEE/WARRANTY: GUARANTEE INSTALLATION TO BE FREE OF DEFECTS, SHORTS, GROUNDS, ETC., FOR A PERIOD OF ONE YEAR. FURNISH WARRANTY SO THE DEFECTIVE MATERIAL AND/OR WORKMANSHIP WILL BE REPAIRED/REPLACED IMMEDIATELY UPON NOTIFICATION AT NO COST TO THE OWNER FOR PERIOD OF WARRANTY.
- A15. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP EDGES.
- A16. ELECTRICAL METALLIC TUBING (EMT) OR RIGID NONMETALLIC CONDUIT (I.E., RIGID PVC SCHEDULE 40, OR RIGID PVC SCHEDULE 80 FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) SHALL BE USED FOR EXPOSED INDOOR LOCATIONS.
- A17. LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT (LIQUID-TITE FLEX) SHALL BE USED INDOORS AND OUTDOORS, WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED.
- A18. WIREWAYS SHALL BE EPOXY-COATED (GRAY) AND INCLUDE A HINGED COVER, DESIGNED TO SWING OPEN DOWNWARD; SHALL BE PANDUIT TYPE E (OR EQUAL); AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- A19. EQUIPMENT CABINETS, TERMINAL BOXES, JUNCTION BOXES, AND PULL BOXES SHALL BE GALVANIZED OR EPOXY-COATED SHEET STEEL, SHALL MEET OR EXCEED UL 50, AND RATED NEMA 1 (OR BETTER) INDOORS, OR NEMA 3R (OR BETTER) OUTDOORS.
- A20. METAL RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL BE GALVANIZED, EPOXY-COATED, OR NON-CORRODING; SHALL MEET OR EXCEED UL514A AND NEMA OS 1; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.
- A21. NONMETALLIC RECEPTACLE, SWITCH, AND DEVICE BOXES SHALL MEET OR EXCEED NEMA OS 2; AND RATED NEMA 1 (OR BETTER) INDOORS, OR WEATHER PROTECTED (WP OR BETTER) OUTDOORS.

B - POWER CABLE AND SERVICE

- B1. CONTRACTOR SHALL PROVIDE CONDUIT AND WIRING TO BTS AND VERIFY EXACT CONDUIT ROUTING. RACEWAY SYSTEM MATERIALS AND DEVICES FURNISHED SHALL BE IN ACCORDANCE WITH APPLICABLE STANDARDS OF ANSI, NEMA, AND UL. RACEWAY SYSTEM COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE N.E.C.
- B2. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS THROUGH WALLS, FLOORS AND ROOFS TO PREVENT MOISTURE PENETRATION OR VERMIN INFESTATION.
- B3. CONDUCTORS RUNNING ALONG HORIZONTAL SURFACES (ROOF TOP OR SLAB) SHALL BE INSTALLED IN RIGID CONDUIT SUPPORTED ON SLEEPERS.
- B4. ALL VERTICAL RUNS OF POWER CABLE EXCEEDING 80 FEET IN LENGTH SHALL BE SUPPORTED PER N.E.C. ARTICLE 300 USING KELLEMS GRIPS OR ACCEPTABLE EQUAL CABLE SUPPORT SYSTEM.
- B5. WHERE A SEPARATE ELECTRICAL SERVICE DROP IS ADDED, CONTRACTOR SHALL INSTALL PERMANENT SERVICE DISCONNECT OR GROUPING THEREOF, DENOTING ALL OTHER SERVICE ENTRANCES, LOCATION OF EACH AND THE AREAS SERVED BY EACH.
- B6. WHERE ELECTRICAL POWER IS TO BE SUB-FED FROM AN EXISTING DISTRIBUTION SYSTEM, THE FOLLOWING SHALL APPLY:
 - A) CONTRACTOR SHALL PERFORM LOAD TESTING TO DETERMINE MAXIMUM FEEDER DEMAND PER N.E.C. ARTICLE 220-87.
 - B) CONTRACTOR SHALL VERIFY WHETHER EXISTING FEEDER CAPACITY EXCEEDS VALUE CALCULATED PER N.E.C. ARTICLE 220-87.
 - C) EACH BRANCH CIRCUIT PROTECTIVE DEVICE SHALL HAVE SAME INTERRUPTING RATING AS EQUIPMENT SUPPLYING IT.
 - D) PREFERRED MEANS OF SUPPLY SHALL BE A BRANCH CIRCUIT PROTECTIVE DEVICE LOCATED IN EXISTING PANEL.
 - E) IF A BRANCH CIRCUIT PROTECTIVE DEVICE CANNOT BE OBTAINED OR SPACE IS NOT AVAILABLE, A BRANCH CIRCUIT MAY BE TAPPED FROM EXISTING FEEDER CONDUCTORS USING AN INSTALLED 2-POLE FUSED DISCONNECT AND METER BASE PER N.E.C. ARTICLE 240-21 WITH TEN FEET MAXIMUM TAP CONDUCTORS. FUSED DISCONNECT SHALL BE LISTED SAME OR BETTER INTERRUPTING RATING AS EXISTING SOURCE OF SUPPLY.

C - IDENTIFICATION

- C1. LOCATE NAMEPLATE, MARKING, OR OTHER IDENTIFICATION MEANS ON OUTSIDE EQUIPMENT OR BOX FRONT COVERS.
- C2. PROVIDE NAMEPLATE ENGRAVED WITH EQUIPMENT DESIGNATION FOR EACH SAFETY SWITCH AND ALL OTHER ELECTRICAL CABINETS, ETC.
- C3. DURING TRENCH BACK-FILLING FOR EACH UNDERGROUND ELECTRICAL, TELEPHONE, SIGNAL AND COMMUNICATIONS LINE, PROVIDE A CONTINUOUS UNDERGROUND WARNING TAPE TWELVE INCHES BELOW FINISHED GRADE.

A - GENERAL

- A1. INSTALLATION OF GROUNDING SYSTEM SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRIC CODE AND WITH ALL BUILDING CODES OF AUTHORITIES HAVING JURISDICTION.
- A2. GROUNDING CONDUCTORS SHALL BE #2 AWG TINNED SOLID BARE COPPER BELOW AND ABOVE GRADE, UNLESS OTHERWISE NOTED AND SHALL BE ROUTED IN A DOWNWARD PATH TOWARDS GROUND BARS.
- A3. GROUNDING CONDUCTORS SHALL BE KEPT AS SHORT AND DIRECT AS POSSIBLE WITH MINIMUM BEND RADIUS OF 12 INCHES.
- A4. ALL BELOW GRADE CONNECTIONS SHALL BE CADWELD TYPE CONNECTIONS AND ALL CONNECTIONS TO EQUIPMENT AND GROUND BARS SHALL BE 2-HOLE BRONZE COMPRESSION CONNECTORS UNLESS OTHERWISE NOTED.
- A5. GROUNDING CONDUCTORS SHALL BE BONDED TO CABLE SUPPORTS, ANTENNA FRAMES, AND ANY SUPPORT FRAMES OR RACKS USING EXOTHERMIC WELDS OR MECHANICAL CONNECTIONS.
- A6. CONTRACTOR SHALL PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS, STAINLESS STEEL HARDWARE SHALL BE USED THROUGHOUT.
- A7. GROUNDING CONDUCTORS EMBEDDED IN CONCRETE OR PENETRATING WALLS AND FLOORS SHALL BE ENCASED IN PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTORS UNLESS REQUIRED BY LOCAL CODES OR OTHERWISE INDICATED ON DRAWINGS. CONTRACTOR SHALL SEAL AROUND ALL CONDUIT PENETRATIONS TO PREVENT MOISTURE PENETRATION AND VERMIN INFESTATION.
- A8. CONTRACTOR SHALL VERIFY EXACT CONDUIT ROUTING FOR GROUNDING CONDUCTORS WHERE APPLICABLE.
- A9. DOUBLING OR STACKING OF ANY GROUNDING CONNECTIONS IS NOT ACCEPTABLE.

B - PREPARATION

- B1. SURFACES: ALL CONNECTIONS SHALL BE MADE TO BARE METAL. ALL PAINTED SURFACES SHALL BE FIELD INSPECTED TO ENSURE PROPER CONTACT. ALL GALVANIZED SURFACES ON WHICH GALVANIZING HAS BEEN REMOVED BY CUTTING, DRILLING, OR ANY OTHER OPERATION SHALL BE RE-GALVANIZED IN ACCORDANCE WITH ASTM A780 USING "ZINC RICH" COATING AS MANUFACTURED BY ZRC CHEMICAL PRODUCTS COMPANY (LOCATED IN QUINCY, MASSACHUSETTS), OR ACCEPTABLE EQUAL. NO WASHERS ARE ALLOWED BETWEEN ITEMS BEING GROUNDED. ALL CONNECTIONS ARE TO HAVE A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED PRIOR TO INSTALLATION.
- B2. GROUND BAR: ALL COPPER GROUND BARS SHALL BE CLEANED, POLISHED AND A NON-OXIDIZING AGENT ("COPPER SHIELD") APPLIED. NO FINGER PRINTS OR DISCOLORED COPPER SHALL BE PERMITTED.

T-MOBILE GROUNDING REQUIREMENTS

- T1. COAX CABLE OUTER CONDUCTORS (SHIELDS) SHALL BE GROUNDED USING COAX GROUNDING KITS AT A MINIMUM OF TWO POINTS, INCLUDING AT ANTENNA AND AT MASTER GROUND BAR. THE COAXIAL CABLE SHALL NOT EXCEED 100 FEET BETWEEN GROUNDING KITS.
- T2. COAX CABLE ENTERING A BUILDING SHALL BE GROUNDED WITH COAX GROUNDING KITS TO AN INSULATED COAX GROUND BAR WHICH SHALL BE INSTALLED ON THE OUTSIDE FACE OF THE BUILDING, BELOW THE CABLE ENTRY PORTS.
- T3. WHEN COAX CABLES ENTER A BUILDING FROM A TOWER, THE COAX GROUND BAR AT THE BUILDING SHALL BE CONNECTED TO THE EXTERNAL GROUND RING USING #2 AWG BARE TINNED SOLID COPPER ISOLATED IN PVC CONDUIT.

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LAKE CITY, FL 32024

SHEET NAME

ELECTRICAL AND GROUNDING NOTES

SHEET NUMBER

E1



PROPOSED T-MOBILE 2"Ø CONDUIT FOR POWER (125'± IN LENGTH) (SEE NOTES)

PROPOSED T-MOBILE 2"Ø CONDUIT FOR FIBER (120'± IN LENGTH) (SEE NOTES)

PROPOSED T-MOBILE SERVICE LIGHT (TYP. OF 4)

PROPOSED T-MOBILE TELCO CABINET

PROPOSED 1/2"Ø CONDUIT FOR POWER (SEE NOTES)

PROPOSED 2"Ø CONDUIT FOR TELCO (SEE NOTES)

PROPOSED T-MOBILE 200A PPC

PROPOSED T-MOBILE SITE SUPPORT CABINET (ERICSSON 6160)

PROPOSED T-MOBILE BATTERY CABINET (ERICSSON B160)

PROPOSED 2"Ø CONDUIT FOR TELCO/AAV (SEE NOTES)

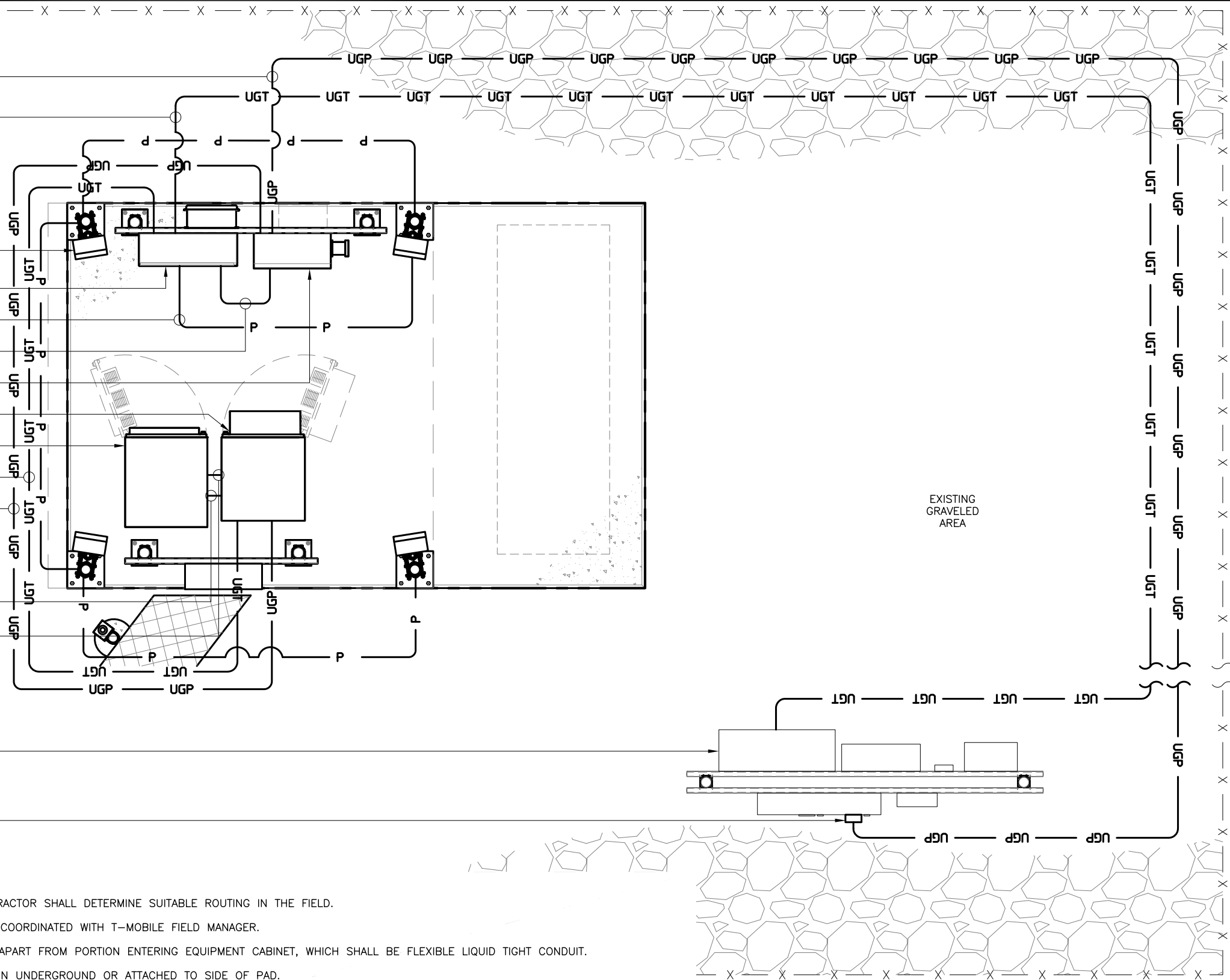
PROPOSED T-MOBILE 2"Ø CONDUIT FOR SSC POWER AND GFCI (SEE NOTES)

PROPOSED 2"Ø CONDUIT FOR BATTERY CABLE & AUX POWER (SEE NOTES)

PROPOSED 2"Ø CONDUIT FOR ALARM AND TEMPERATURE SENSOR (SEE NOTES)

EXISTING COMMUNITY TELCO CABINET

PROPOSED T-MOBILE METER AND CIRCUIT BREAKER DISCONNECT IN EXISTING MULTI-METER CENTER



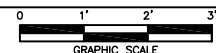
NOTES:

1. PROPOSED CONDUIT ROUTING IS SCHEMATIC ONLY, CONTRACTOR SHALL DETERMINE SUITABLE ROUTING IN THE FIELD.
2. TERMINATION OF NEW CONDUITS AT CABINETS SHALL BE COORDINATED WITH T-MOBILE FIELD MANAGER.
3. PROPOSED CONDUIT SHALL BE GALVANIZED RIGID STEEL APART FROM PORTION ENTERING EQUIPMENT CABINET, WHICH SHALL BE FLEXIBLE LIQUID TIGHT CONDUIT.
4. ALL CONDUIT TO BE ROUTED DIRECTLY OFF PAD AND RUN UNDERGROUND OR ATTACHED TO SIDE OF PAD.
5. ALL CONDUIT FOR SERVICE LIGHTS SHALL BE ATTACHED TO CANOPY.

SBA SITE MANAGER'S NOTES:

1. ALL CONDUITS INSIDE THE COMPOUND NEED TO BE INSTALLED WITHIN 3' OF THE FENCE LINE. CONDUITS NEED TO BE MINIMUM OF 24" TO TOP OF CONDUIT.
2. ANY CONDUITS RUNNING ACROSS THE GATE, ROADS OR THROUGH THE COMPOUND NEED TO BE SCHEDULE 80 AND 36" DEEP TO TOP OF CONDUIT.
3. NO EQUIPMENT INSIDE OF THE COMPOUND. HAND DIGGING ONLY INSIDE THE COMPOUND.
4. IT IS CONTRACTOR'S RESPONSIBILITY TO MAKE SURE GEO FABRIC AND ROCK ARE INSTALLED IN THE AREAS TRENCHED. TRENCHES NEED TO BE BACKFILLED AND TAMPED.
5. NO ELECTRICAL WORK WITHOUT THE PROPER PERMITTING.

UTILITY ROUTING PLAN



1

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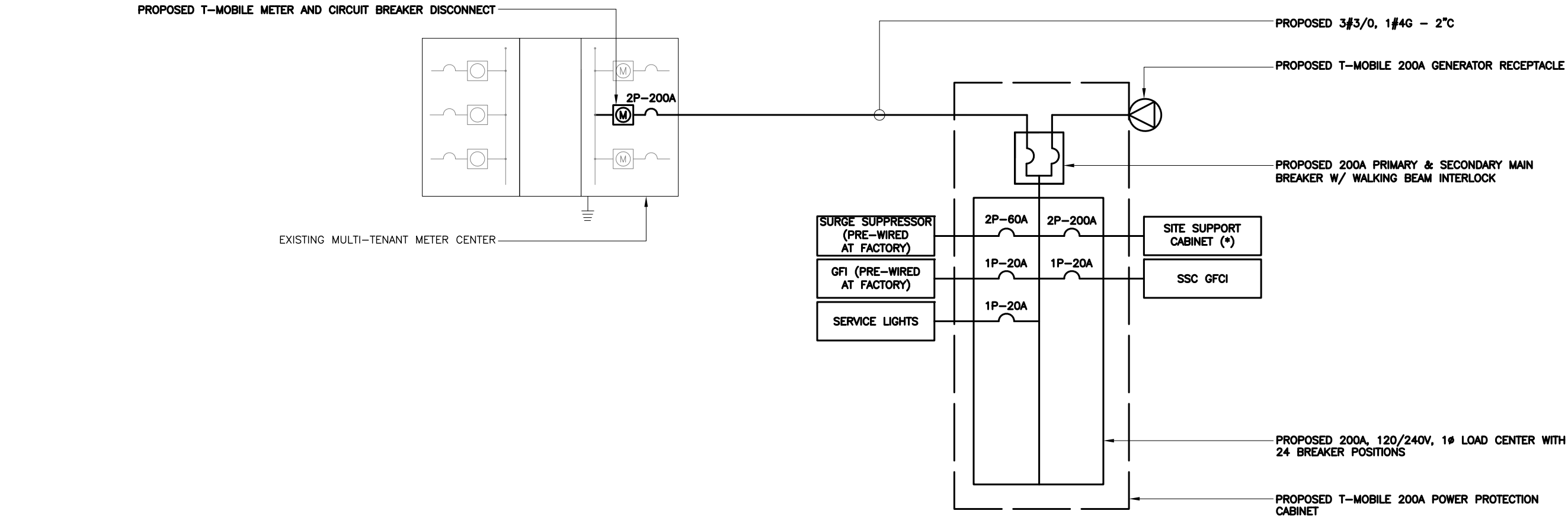
4741 SW BIRLEY AVENUE
LAKE CITY, FL 32024

SHEET NAME

UTILITY
ROUTING PLAN

SHEET NUMBER

E3



NOTE:

* PROPOSED 2P-200A FOUR-POSITION CIRCUIT BREAKER, SQUARE D #QO2200.

ONE-LINE DIAGRAM

1

PANEL NAME: T-MOBILE		PANEL RATING 200 AMPS							PHASE 1				X MCB RATING 200 AMP				
LOCATION: PPC		120/240 VOLTS							WIRE 3				MAIN LUG ONLY				
CKT NO.	DESCRIPTION	KVA		AMP POLE	WIRE	GND	COND	COND	GND	WIRE	AMP	KVA		DESCRIPTION	CKT NO.		
		A	B	POLE							POLE	A	B				
1	SURGE SUPPRESSOR	-	0	60/2	(*)	(*)	(*)	2"	#6	#3/0	200/2	-	15.75	SITE SUPPORT CABINET (**)	2		
3		0	-												4		
5	GFI	-	0.18	20/1	(*)	(*)	(*)					15.75	-		6		
7	SERVICE LIGHTS	0.5	-	20/1	#12	#12	1/2"									8	
9	SPACE	-							#12	#12	20/1	-	0.18	SSC GFCI	10		
11	SPACE	-	-									-	-	SPACE	12		
13	SPACE	-									-		SPACE	14			
15	SPACE	-	-									-		SPACE	16		
17	SPACE	-										-		SPACE	18		
19	SPACE	-	-									-		SPACE	20		
21	SPACE	-										-		SPACE	22		
23	SPACE	-	-									-		SPACE	24		
SUB TOTAL KVA (CONT)		0	0									0	0	SUB TOTAL KVA (CONT)			
SUB TOTAL KVA (NON-CONT)		0.5	0.18									15.8	15.93	SUB TOTAL KVA (NON-CONT)			
TOTAL KVA		32.4							134.8							TOTAL AMPS	
NON-CONT + 125% CONT.																	

(*) PRE-WIRED AT FACTORY
(**) PROPOSED 200A FOUR-POSITION CIRCUIT BREAKER, SQUARE D #QO2200.

PANEL SCHEDULE

2

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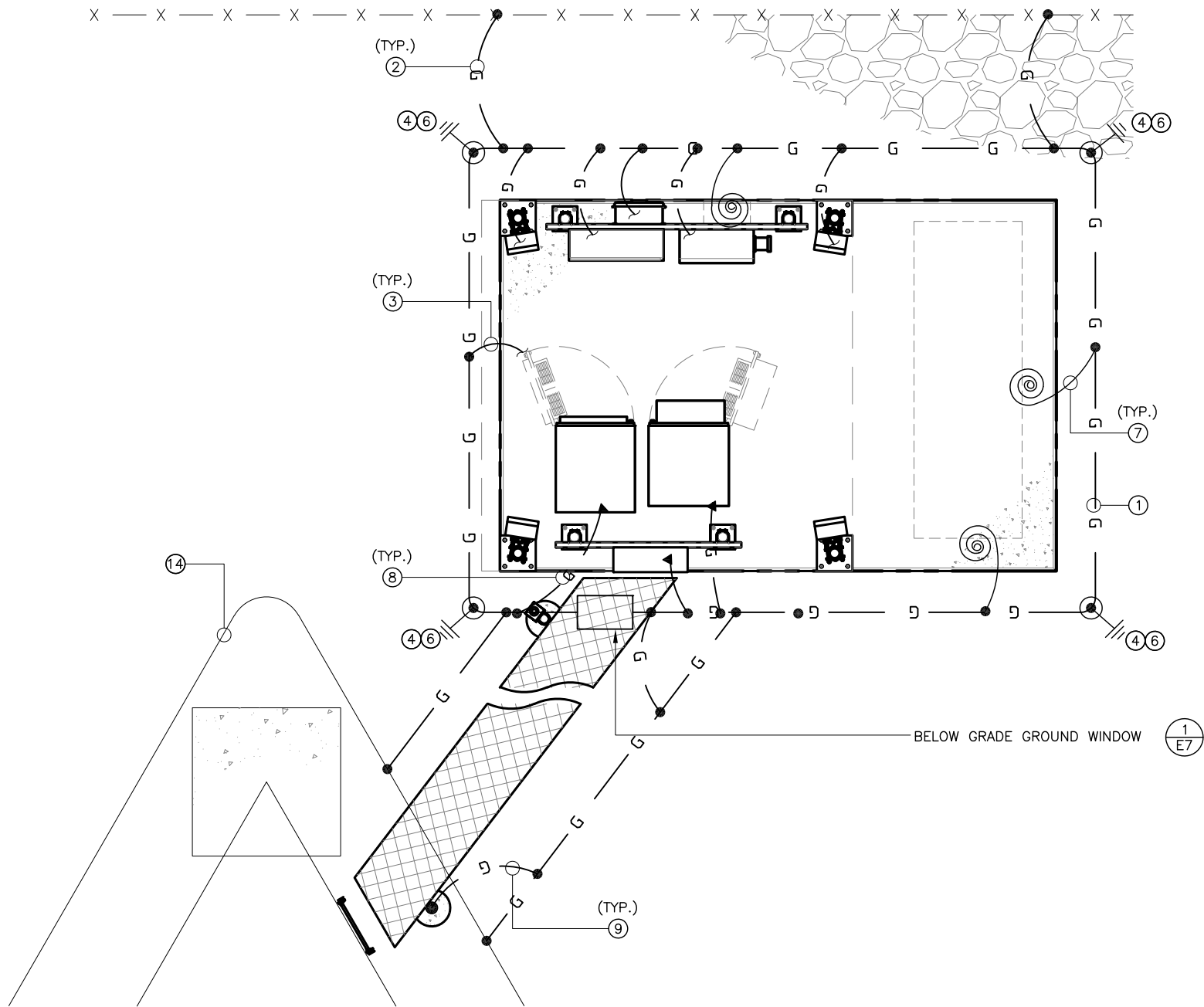
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SHEET NAME

ELECTRICAL DETAILS

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E4



- NOTES:**
- CONTRACTOR SHALL INSPECT AND TEST ANY NEW T-MOBILE GROUNDING SYSTEM WITH A BIDDLE-MEGGER TESTER UTILIZING THE FALL OF POTENTIAL METHOD AND CONTACT CONSTRUCTION MANAGER IF RESISTANCE EXCEEDS 5 OHMS AND SHALL FIELD MODIFY GROUNDING SYSTEM AS NECESSARY TO ACHIEVE COMPLIANCE. TEST RESULTS AND CONCLUSIONS SHALL BE RECORDED FOR PROJECT CLOSE-OUT DOCUMENTATION.
 - CONTRACTOR SHALL PROVIDE PRE-CAST CONCRETE INSPECTION WELL WITH CAST IRON TRAFFIC RATED LID WHEN WELL WILL BE IN AN AREA WHERE THEY CAN BE DAMAGED.

- PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE PADS AS SHOWN. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 18 INCHES BELOW GRADE. THE GROUND RING SHALL BE INSTALLED 1 FOOT AWAY FROM FOUNDATIONS (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). WHERE REQUIRED DUE TO SOIL CONDITIONS AND THE PRESENCE OF ROCK, THE ROUTING OF THE GROUND RING MAY BE ADJUSTED. ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
- BOND FENCE POST TO BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE FENCE POST AT 12 INCHES ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION. BOND OPPOSITE SIDES OF FENCE, AND FENCE POST TO FENCE GATE AS SHOWN USING A WELDING CABLE GROUNDING STRAP.
- BOND REBAR IN CONCRETE FOR PAD TO THE BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE REBAR (AT THE END OF THE REBAR) AND CONNECT THE BURIED GROUND RING.
- PROVIDE A 6 INCHES DIAMETER PVC INSPECTION SLEEVE WITH REMOVABLE COVER WHERE SHOWN FOR ALL PRIMARY CONNECTIONS TO BURIED GROUND RING. SEE GROUND ROD INSPECTION WELL DETAIL, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
- INSTALL GROUNDING CONDUCTOR(S) FROM THE BURIED GROUND RING FOR CONNECTION TO THE GROUND BAR AT BOTTOM OF CABLE CHASE. VERIFY EXACT LOCATION OF GROUNDING BAR AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTOR (LENGTH AS REQUIRED) TO THE GROUND BAR. GROUNDING CONDUCTORS MUST BE HELD AWAY FROM CABLE CHASE BY USING STAND-OFFS OR ROUTING THE CONDUCTORS IN FLEXIBLE PVC CONDUIT. COORDINATE LOCATION WITH CONSTRUCTION MANAGER..
- INSTALL 5/8" x 10'-0" LONG COPPER CLAD STEEL GROUND RODS. SPACING BETWEEN RODS NOT TO EXCEED 20 FEET (NON-LINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. SEE GROUND ROD DETAIL. GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30' FROM VERTICAL IF ROCK IS ENCOUNTERED AND CONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
- COIL (1) 10 FEET SECTION OF #2 AWG SOLID WIRE ADJACENT TO FUTURE T-MOBILE EQUIPMENT.
- BOND EQUIPMENT TO BURIED GROUND RING.
- BOND UTILITY RACK POSTS TO BURIED GROUND RING (TYP.). EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE POST AT 12 INCHES ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
- INSTALL GROUNDING CONDUCTOR(S) FROM THE GROUND BAR AT COMPOUND AT GROUND LEVEL TO ROOFTOP MOUNTED UPPER GROUND BAR(S). VERIFY EXACT LOCATION OF GROUNDING BARS AND PROPER CONDUCTOR LENGTH. EXOTHERMICALLY WELD (2) #2 AWG SOLID BARE TINNED COPPER GROUNDING CONDUCTORS (LENGTH AS REQUIRED) TO THE GROUND BARS.
- PROVIDE (2) #2 AWG SOLID BARE TINNED COPPER CONDUCTORS BETWEEN COAX BRIDGE GROUND BAR AND BURIED GROUND RING.
- PROVIDE GROUND CONDUCTOR IN PVC CONDUIT. REFER TO ONE LINE DIAGRAM FOR WIRE AND CONDUIT SIZE.
- SYSTEM GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS. A THREE POINT SYSTEM RESISTANCE TEST SHALL BE PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH AT&T SPECIFICATION:
 - PERFORM THREE TESTS AT EACH SITE.
 - CONTRACTOR SHALL PROVIDE A WRITTEN REPORT CONSISTING OF THE FOLLOWING: SITE NAME, ADDRESS AND IDENTIFICATION NUMBER, DESCRIPTION OF SITE SOIL AND MOISTURE CONDITION, DESCRIPTION OF WEATHER, MODEL NUMBER OF TESTING EQUIPMENT, DATE OF LAST CALIBRATION, SITE SKETCH SHOWING LOCATION OF TEST PROBES, AND ALL FIELD DATA COLLECTED (READINGS, RANGE, TEST, MILLIAMPS, ETC.).
 - CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF THERE ARE ANY DIFFICULTIES PERFORMING SYSTEM RESISTANCE TESTS OR IF MEASUREMENTS ARE ABOVE 5 OHMS. THE CONSTRUCTION MANAGER SHALL PROVIDE INSTRUCTIONS TO THE CONTRACTOR TO INSTALL ADDITIONAL GROUNDING MEASURES TO MEET THE 5 OHM REQUIREMENT.
- EXISTING COMPOUND GROUND RING.
- PROVIDE #2 AWG SOLID WIRE TO EXISTING GROUND ROD

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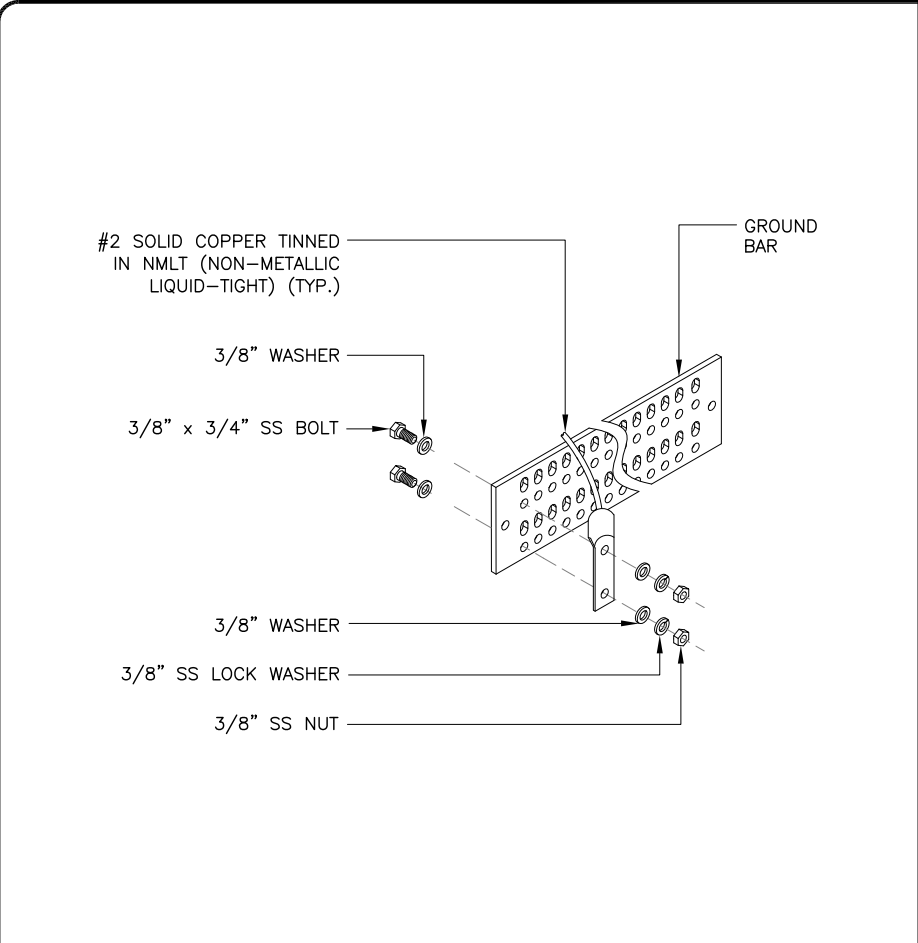
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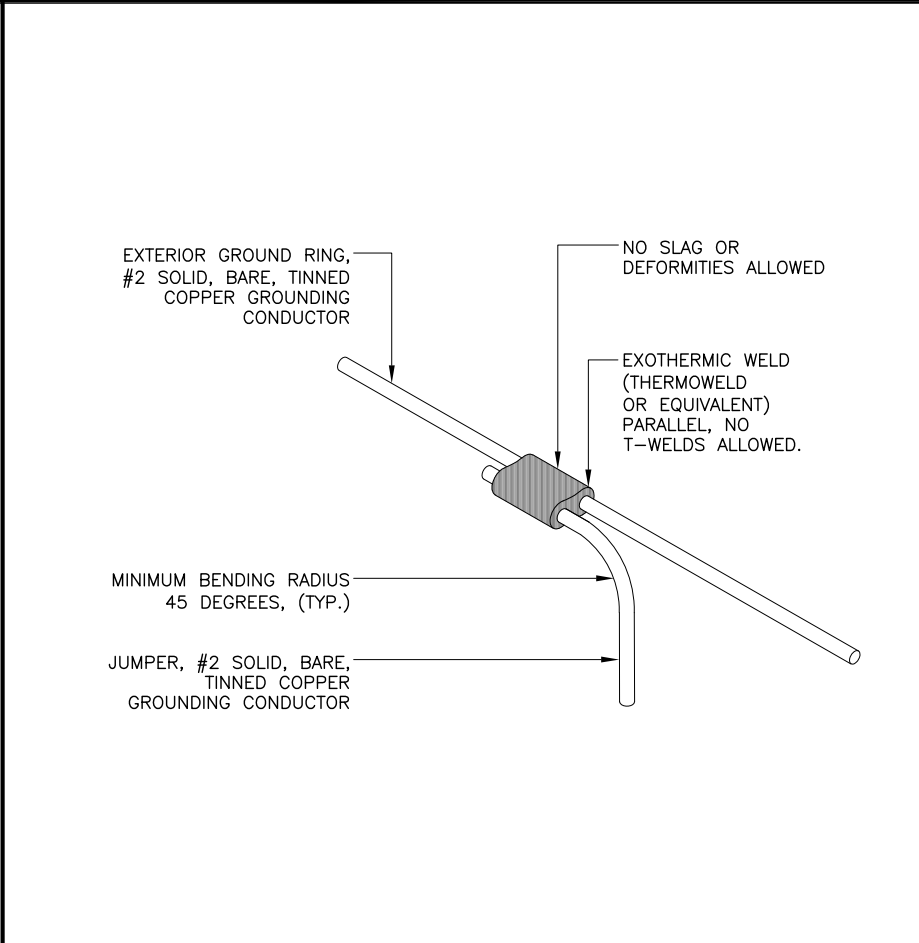
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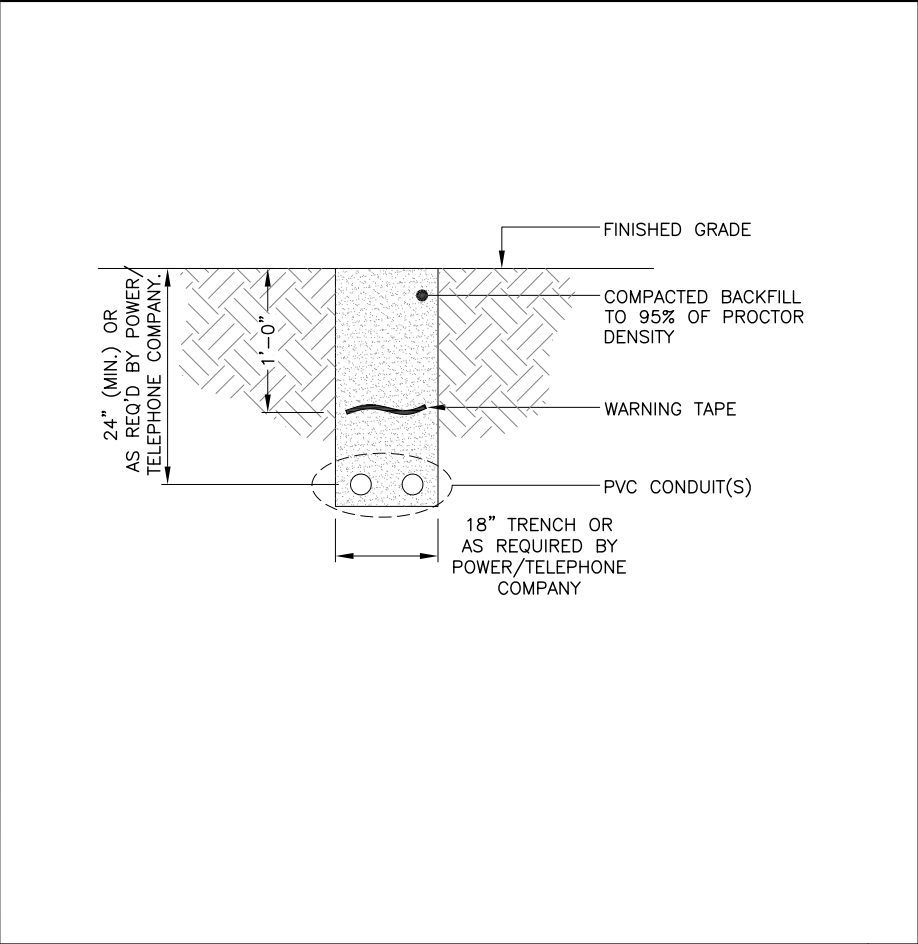
SHEET NAME
GROUNDING DETAILS AND NOTES
SHEET NUMBER
E5



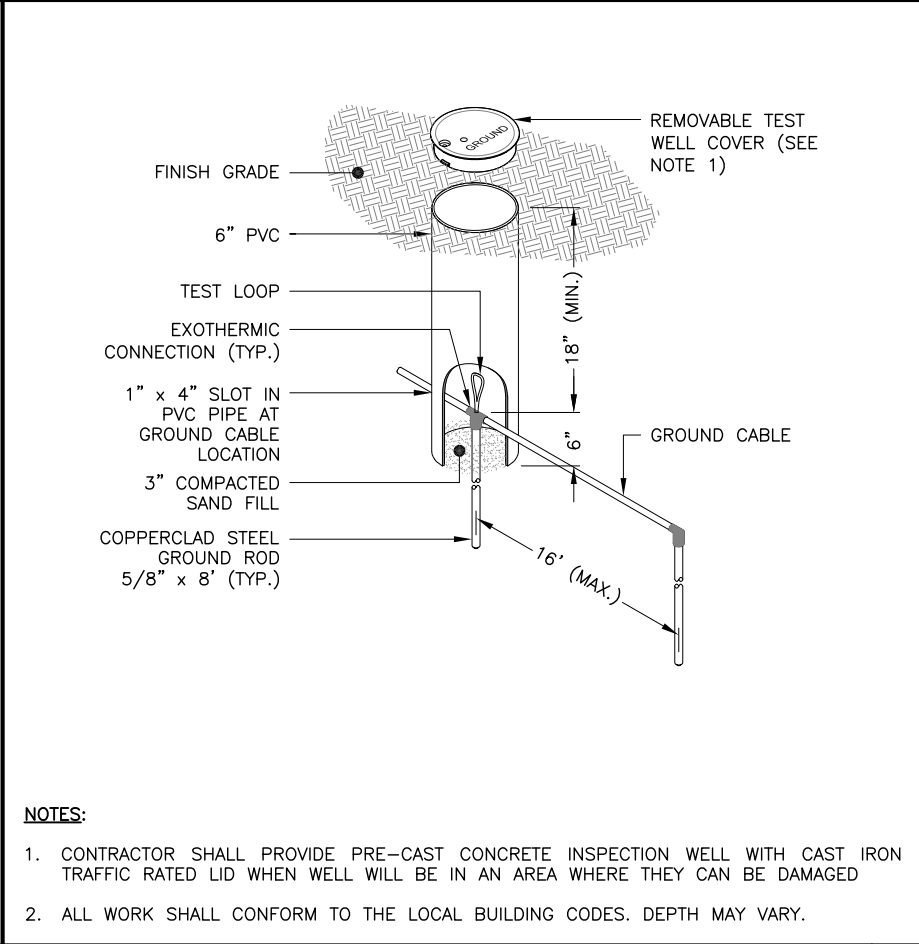
GROUND BAR DETAIL NTS 1



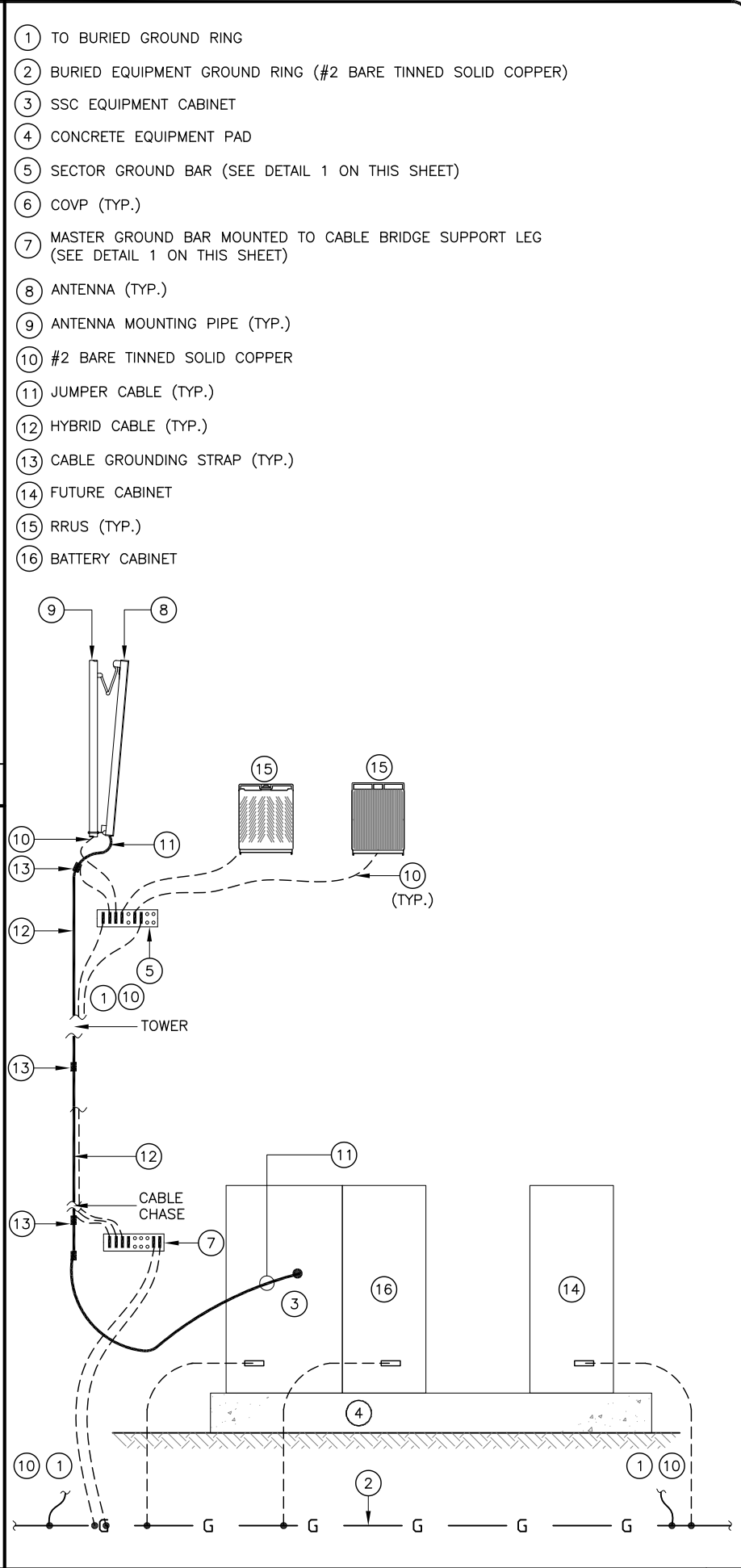
CAD WELD DETAIL NTS 2



TRENCH DETAIL NTS 3



GROUND ROD INSPECTION WELL DETAIL NTS 4



GROUNDING RISER DIAGRAM NTS 5

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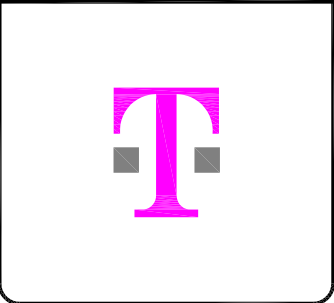
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SHEET NAME
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E6

TO EQUIPMENT GROUND RING TO TOWER GROUND RING TO EQUIPMENT GROUND RING IRRIGATION BOX. SEE NOTE 3 CHERRY INSULATOR COPPER GROUND BAR SECTION A A COPPER GROUND BAR CHERRY INSULATOR MOUNTING BLOCK NOTES: 1. 4"x12-1/4" SOLID COPPER BAR. 2. (2) 3/8" CHERRY ISOLATORS SUPPORT BY 12"x14" MOUNTING BLOCK. 3. PROVIDE IRRIGATION VALVE CONTROL BOX, WINDOW TO BE 17"x12"x9". 4. EXOTHERMIC WELDS. 5. ALL COPPER BARS TO BE TINNED. 6. ADD GRAVEL AROUND BLOCK.					
BELOW GRADE WINDOW	NTS 1	(NOT USED)	2	(NOT USED)	3
(NOT USED)	4	(NOT USED)	5	(NOT USED)	6

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