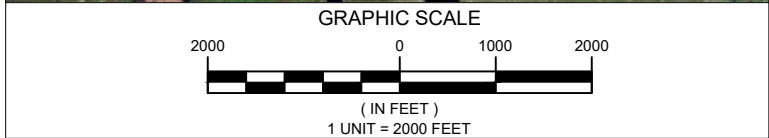


ATC SITE NAME: MOUNT ZION NY
ATC SITE NUMBER: 10330
T-MOBILE SITE NAME: MT ZION
T-MOBILE SITE NUMBER: UP50577A
SITE ADDRESS: 366 MOUNT ZION RD
MARLBORO, NY 12542
SITE CLASS: GUYED



LOCATION MAP

T-MOBILE COVERAGE STRATEGY COLLOCATION PLAN

4SEC-67E998E 6160 (LRP) CONFIGURATION

[illegible]

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
<u>0</u>	<u>FOR CONSTRUCTION</u>	<u>AP</u>	<u>06/17/25</u>
<u>1</u>	<u>JX COMMENTS</u>	<u>AAP</u>	<u>11/24/25</u>
<u>2</u>	<u>JURISICITIONAL CHECKLIST</u>	<u>TJC</u>	<u>12/04/25</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>
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ATC SITE NUMBER:

10330

ATC SITE NAME:

MOUNT ZION NY

T-MOBILE SITE NAME:

MT ZION

SITE ADDRESS:
366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:



ATC PROJ. #:	14912089_D2
CUST. ID:	MT ZION
CUST. #:	UP50577A

TITLE SHEET

SHEET NUMBER:

G-001

REVISION:

2

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
- A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
- B. AC/TELCO INTERFACE BOX (PPC)
- C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
- D. TOWERS, MONOPOLES
- E. TOWER LIGHTING
- F. GENERATORS & LIQUID PROPANE TANK
- G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
- H. ANTENNAS (INSTALLED BY OTHERS)
- I. TRANSMISSION LINE
- J. TRANSMISSION LINE JUMPERS
- K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
- L. TRANSMISSION LINE GROUND KITS
- M. HANGERS
- N. HOISTING GRIPS
- O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. WHEN THE PROJECT SCOPE REQUIRES THE USE OF THE SAFETY CLIMB, THE GENERAL CONTRACTOR SHALL ENSURE THE SAFETY CLIMB IS FREE OF OBSTRUCTIONS, NOT RUBBING ON OR TRAPPED BY ANY INSTALLED CUSTOMER EQUIPMENT, IS VISUALLY TAUT, MEETS MANUFACTURER INSTALLATION SPECIFICATIONS, AND IS FIRMLY SECURED AT ALL CABLE GUIDE LOCATIONS UPON PROJECT COMPLETION.
29. COMPLETION OF PROJECT SHALL NOT OBSTRUCT, TRAP, LOOSEN, OR OTHERWISE CAUSE FAILURE TO MEET MANUFACTURER INSTALLATION REQUIREMENTS FOR THE SAFETY CLIMB.
30. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
31. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
32. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
33. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
34. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
35. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
2. STRUCTURAL STEEL ROLLED SHAPES, PLATES AND BARS SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS:
- A. ASTM A-572, GRADE 50 - ALL W SHAPES, UNLESS NOTED OR A992 OTHERWISE
- B. ASTM A-36 - ALL OTHER ROLLED SHAPES, PLATES AND BARS UNLESS NOTED OTHERWISE.
- C. ASTM A-500, GRADE B - HSS SECTION (SQUARE, RECTANGULAR, AND ROUND)
- D. ASTM A-325, TYPE SC OR N - ALL BOLTS FOR CONNECTING STRUCTURAL MEMBERS
- E. ASTM F-1554 07 - ALL ANCHOR BOLTS, UNLESS NOTED OTHERWISE
3. ALL EXPOSED STRUCTURAL STEEL MEMBERS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION PER ASTM A123. EXPOSED STEEL HARDWARE AND ANCHOR BOLTS SHALL BE GALVANIZED PER ASTM A153 OR B695.
4. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES AND GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

5. DO NOT DRILL HOLES THROUGH STRUCTURAL STEEL MEMBERS EXCEPT AS SHOWN AND DETAILED ON STRUCTURAL DRAWINGS.
6. CONNECTIONS:
- A. ALL WELDING TO BE PERFORMED BY AWS CERTIFIED WELDERS AND CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D1.1.
- B. ALL WELDS SHALL BE INSPECTED VISUALLY. 25% OF WELDS SHALL BE INSPECTED WITH DYE PENETRANT OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D1.1. REPAIR ALL WELDS AS NECESSARY.
- C. INSPECTION SHALL BE PERFORMED BY AN AWS CERTIFIED WELD INSPECTOR.
- D. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE BURNING/WELDING PERMITS AS REQUIRED BY LOCAL GOVERNING AUTHORITY AND IF REQUIRED SHALL HAVE FIRE DEPARTMENT DETAIL FOR ANY WELDING ACTIVITY.
- E. ALL ELECTRODES TO BE LOW HYDROGEN, MATCHING FILLER METAL, PER AWS D1.1, UNLESS NOTED OTHERWISE.
- F. MINIMUM WELD SIZE TO BE 0.1875 INCH FILLET WELDS, UNLESS NOTED OTHERWISE.
- G. PRIOR TO FIELD WELDING GALVANIZING MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING ½" BEYOND ALL FIELD WELD SURFACES. AFTER WELD AND WELD INSPECTION IS COMPLETE, REPAIR ALL GROUND AND WELDED SURFACES WITH ZRC GALVILITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
- H. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL CONNECTIONS ARE COMPLETE.
- I. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER, AND T-MOBILE PROJECT MANAGER IN WRITING

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
- A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL
- B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
- C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
- D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE AND PROVIDE PRINTOUT OF THAT TEST.
- E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER, SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
- F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
- G. ANTENNA AND COAXIAL CABLE GROUNDING:

2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).

CONCRETE AND REINFORCING STEEL NOTES:

1. DESIGN AND CONSTRUCTION OF ALL CONCRETE ELEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF ALL APPLICABLE CODES INCLUDING: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", ACI 117 "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", AND ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
2. MIX DESIGN SHALL BE APPROVED BY T-MOBILE REP PRIOR TO PLACING CONCRETE.
3. CONCRETE SHALL BE NORMAL WEIGHT, 6 % AIR ENTRAINED (+/- 1.5%) WITH A SLUMP RANGE OF 3-6" AND HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500 PSI UNLESS OTHERWISE NOTED.
4. THE FOLLOWING MATERIALS SHALL BE USED:
- PORTLAND CEMENT: ASTM C150, TYPE 2
- REINFORCEMENT: ASTM A185, PLAIN STEEL WELDED WIRE FABRIC

- REINFORCEMENT BARS: ASTM A615, GRADE 60, DEFORMED
- NORMAL WEIGHT AGGREGATE: ASTM C33
- WATER: ASTM C 94/C 94M
- WELDED WIRE FABRIC: ASTM A185
- ADMIXTURES:
- WATER-REDUCING AGENT: ASTM C 494/C 494M, TYPE A
- AIR-ENTERING AGENT: ASTM C 260/C 260M
- SUPERPLASTICIZER: ASTM C494, TYPE F OR TYPE G
- RETARDING: ASTM C 494/C 494M, TYPE B
5. MINIMUM CONCRETE COVER FOR REINFORCING STEEL SHALL BE NO LESS THAN 3".
6. A 3/4" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE IN ACCORDANCE WITH ACI 301 SECTION 4.2.4, UNLESS NOTED OTHERWISE.
7. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHOR SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL, OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR APPROVAL FROM AN ATC ENGINEER WHEN DRILLING HOLES IN CONCRETE.
8. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN "METHOD 1" OF ACI 301.
9. DO NOT WELD OR TACK WELD REINFORCING STEEL.
10. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT.
11. REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
12. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
13. FOR COLD-WEATHER (ACI 306) AND HOT-WEATHER (ACI 301M) CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE FROM WEATHER FOR 7 DAYS, MINIMUM.
14. ALL CONCRETE SHALL HAVE A "SMOOTH FORM FINISH."
15. SPLICING OF REINFORCEMENT IS PERMITTED ONLY AT LOCATIONS SHOWN IN THE CONTRACT DRAWINGS OR AS ACCEPTED BY THE ENGINEER. UNLESS OTHERWISE SHOWN OR NOTED REINFORCING STEEL SHALL BE SPLICED TO DEVELOP ITS FULL TENSILE CAPACITY (CLASS A) IN ACCORDANCE WITH ACI 318.
16. DETAILING OF REINFORCING STEEL SHALL CONFORM TO "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
17. ALL SLAB CONSTRUCTION SHALL BE CAST MONOLITHICALLY WITHOUT HORIZONTAL CONSTRUCTION JOINTS, UNLESS SHOWN IN THE CONTRACT DRAWINGS.
18. LOCATION OF ALL CONSTRUCTION JOINTS ARE SUBJECT TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS, CONFORMANCE WITH ACI 318, AND ACCEPTANCE OF THE ENGINEER. DRAWINGS SHOWING LOCATION OF DETAILS OF THE PROPOSED CONSTRUCTION JOINTS SHALL BE SUBMITTED WITH REINFORCING STEEL PLACEMENT DRAWINGS.
19. SPLICES OF WWF, AT ALL SPLICED EDGES, SHALL BE SUCH THAT THE OVERLAP MEASURED BETWEEN OUTERMOST CROSS WIRES OF EACH FABRIC SHEET IS NOT LESS THAN THE SPACING OF THE CROSS WIRE PLUS 2 INCHES, NOR LESS THAN 6".
20. BAR SUPPORTS SHALL BE ALL-GALVANIZED METAL WITH PLASTIC TIPS.
21. ALL REINFORCEMENT SHALL BE SECURELY TIED IN PLACE TO PREVENT DISPLACEMENT BY CONSTRUCTION TRAFFIC OR CONCRETE. TIE WIRE SHALL BE OF SUFFICIENT STRENGTH FOR INTENDED PURPOSE, BUT NOT LESS THAN NO. 18 GAUGE.
22. SLAB ON GROUND: COMPACT STRUCTURAL FILL TO 95% DENSITY AND THEN PLACE 6" GRAVEL BENEATH SLAB.

ELECTRICAL NOTES:






1. ELECTRICAL WORK SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH AS BREAKER SIZES, WIRE SIZES, CONDUITS SIZES) ARE FOR ZONING PURPOSES ONLY. IT IS THE RESPONSIBILITY OF TO THE ELECTRICAL CONTRACTOR TO CONFIRM COMPLIANCE WITH LOCAL ELECTRICAL CODES AND PASS ALL APPLICABLE AND NECESSARY INSPECTIONS. IN SOME EVENTS, IT MAY BE NECESSARY TO PERFORM AN ELECTRICAL LOAD STUDY TO VERIFY THE CAPACITY OF THE EXISTING SERVICE. THIS IS NOT THE RESPONSIBILITY OF ATC. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3. CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUNDING CABLES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUNDING LINES THAT MAY BECOME DISTURBED OR CONFLICTING IN THE COURSE OF CONSTRUCTION.

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



AMERICAN TOWER®
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SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
#0012746

THE USE AND PUBLICATION OF THESE DRAWINGS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OR THE SPECIFIED CARRIER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION.

REV.	DESCRIPTION	BY	DATE
	FOR CONSTRUCTION	AP	06/17/25
			
			
			
			

ATC SITE NUMBER:

10330

ATC SITE NAME:

MOUNT ZION NY

T-MOBILE SITE NAME:

MT ZION

SITE ADDRESS:

366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:

T-Mobile

ATC PROJ. #:	14912089_D2
CUST. ID:	MT ZION
CUST. #:	UP50577A

GENERAL NOTES

SHEET NUMBER:

G-002

REVISION:

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WELSH ENGINEERING & LAND SURVEYING, P.C.

343 MANVILLE ROAD
PLEASANTVILLE, N.Y. 10570 (914) 773-1701

NOTES

1. FIELD WORK WAS CONDUCTED JULY, 2005 BY WELSH ENGINEERING & LAND SURVEYING, P.C..
2. ULSTER COUNTY TAX MAP DESIGNATION: SECTION 102.003, BLOCK 1, LOTS 36 & 37.
3. BEARINGS AND NORTH ARROW ARE BASED UPON DEED FOR LOT 36 FILED WITH THE ULSTER COUNTY CLERK IN LIBER 3091 PAGE 1.
4. PROPERTY LINES ARE BASED UPON CLIENT PROVIDED SURVEY AND DEEDS FILED WITH THE ULSTER COUNTY CLERK.
5. ALL EASEMENTS MAY NOT BE SHOWN AND THIS SURVEY IS SUBJECT TO ANY STATE OF FACTS A FULL AND CURRENT TITLE REPORT MAY REVEAL.
4. UNDERGROUND UTILITIES ARE NOT SHOWN. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CALL "CALL BEFORE YOU DIG" AT (800) 952-7962 AND HAVE ALL UTILITY LOCATIONS MARKED ON THE GROUND.
5. THE EXISTING GRAVEL ROAD IS THE PHYSICAL LOCATION OF MT. ZION ROAD.

DEDICATION

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE TOWN OF MARLBOROUGH, COUNTY OF ULSTER AND STATE OF NEW YORK, BEING BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF EXISTING TAX LOT 36, AS SHOWN ON THE OFFICIAL TAX MAP FOR ULSTER COUNTY (SECTION 102.003-BLOCK 1-LOT 36), SAID CORNER BEING IN THE EXISTING GRAVEL ROAD BED OF MOUNT ZION ROAD (PUBLIC ROAD); RUNNING THENCE SOUTH 63 DEGREES 54 MINUTES 00 SECONDS EAST, 400.14 FEET TO THE POINT OR PLACE OF BEGINNING;

RUNNING THENCE FROM SAID POINT OR PLACE OF BEGINNING, AND ALONG THE SOUTHERLY BOUNDARY OF EXISTING TAX LOT 36, SOUTH 63 DEGREES 54 MINUTES 00 SECONDS EAST 1089.86 FEET TO THE SOUTHEAST CORNER OF EXISTING TAX LOT 36; THENCE NORTH 30 DEGREES 00 MINUTES 00 SECONDS EAST 300.00 FEET TO THE NORTHEAST CORNER OF EXISTING TAX LOT 36; THENCE NORTH 63 DEGREES 54 MINUTES 00 SECONDS WEST ALONG THE NORTHERLY BOUNDARY OF EXISTING TAX LOT 36 (BEING PARALLEL TO THE FIRST DESCRIBED COURSE) 1089.86 FEET; THENCE RUNNING THROUGH THE EXISTING TAX LOT 36, SOUTH 30 DEGREES 00 MINUTES 00 SECONDS WEST 300.00 FEET TO THE POINT OR PLACE OF BEGINNING; CONTAINING 326,200 SQUARE FEET OR 7.4885 ACRES MORE OR LESS.

INCLUDING ANY AND ALL RIGHTS OF GRANTOR IN AND TO MT. ZION ROAD, ALSO KNOWN AS MOUNTAIN ROAD AS THE SAME MAY CROSS, BOUND OR BE CONTIGUOUS TO THE ABOVE DESCRIBED PREMISES, TOGETHER WITH ANY NECESSARY RIGHTS OF INGRESS AND EGRESS FROM ANY PART OR PORTION OF THE ABOVE DESCRIBED PREMISES TO SAID ROAD.

ACQUISITION

ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE TOWN OF MARLBOROUGH, COUNTY OF ULSTER AND STATE OF NEW YORK, BEING BOUNDED AND DESCRIBED AS FOLLOWS:

COMMENCING AT THE SOUTHWEST CORNER OF EXISTING TAX LOT 36, AS SHOWN ON THE OFFICIAL TAX MAP FOR ULSTER COUNTY (SECTION 102.003-BLOCK 1-LOT 36), SAID CORNER BEING IN THE EXISTING GRAVEL ROAD BED OF MOUNT ZION ROAD (PUBLIC ROAD); RUNNING THENCE ALONG THE WESTERLY BOUNDARY OF EXISTING TAX LOT 36 AND ACROSS AND THROUGH THE EXISTING GRAVEL ROAD KNOWN AS MOUNT ZION ROAD (PUBLIC ROAD), NORTH 30 DEGREES 00 MINUTES 00 SECONDS EAST 300.00 FEET TO THE NORTHWEST CORNER OF EXISTING TAX LOT 36; THENCE EASTERLY AND ALONG THE NORTHERLY BOUNDARY OF EXISTING TAX LOT 36 AND ACROSS THE EXISTING GRAVEL ROAD KNOWN AS MOUNT ZION ROAD (PUBLIC ROAD) SOUTH 63 DEGREES 54 MINUTES 00 SECONDS EAST 34.61 FEET TO THE POINT OR PLACE OF BEGINNING;

RUNNING THENCE FROM SAID POINT OR PLACE OF BEGINNING, AND THROUGH LAND NOW OR FORMERLY OF PARKER THE FOLLOWING THREE (3) COURSES AND DISTANCES:

1. NORTH 30 DEGREES 00 MINUTES 00 SECONDS EAST 40.00 FEET;
2. SOUTH 63 DEGREES 54 MINUTES 00 SECONDS EAST 51.90 FEET;
3. SOUTH 30 DEGREES 00 MINUTES 00 SECONDS WEST 40.00 FEET TO THE NORTHERLY BOUNDARY OF EXISTING TAX LOT 36;

THENCE RUNNING WESTERLY AND ALONG THE NORTHERLY BOUNDARY OF EXISTING TAX LOT 36, NORTH 63 DEGREES 54 MINUTES 00 SECONDS WEST 51.90 FEET TO THE POINT OR PLACE OF BEGINNING; CONTAINING 2,071 SQUARE FEET OR 0.0475 ACRES MORE OR LESS.

INCLUDING ANY AND ALL RIGHTS OF GRANTOR IN AND TO MT. ZION ROAD, ALSO KNOWN AS MOUNTAIN ROAD AS THE SAME MAY CROSS, BOUND OR BE CONTIGUOUS TO THE ABOVE DESCRIBED PREMISES, TOGETHER WITH ANY NECESSARY RIGHTS OF INGRESS AND EGRESS FROM ANY PART OR PORTION OF THE ABOVE DESCRIBED PREMISES TO SAID ROAD.

NEW TAX LOT 36

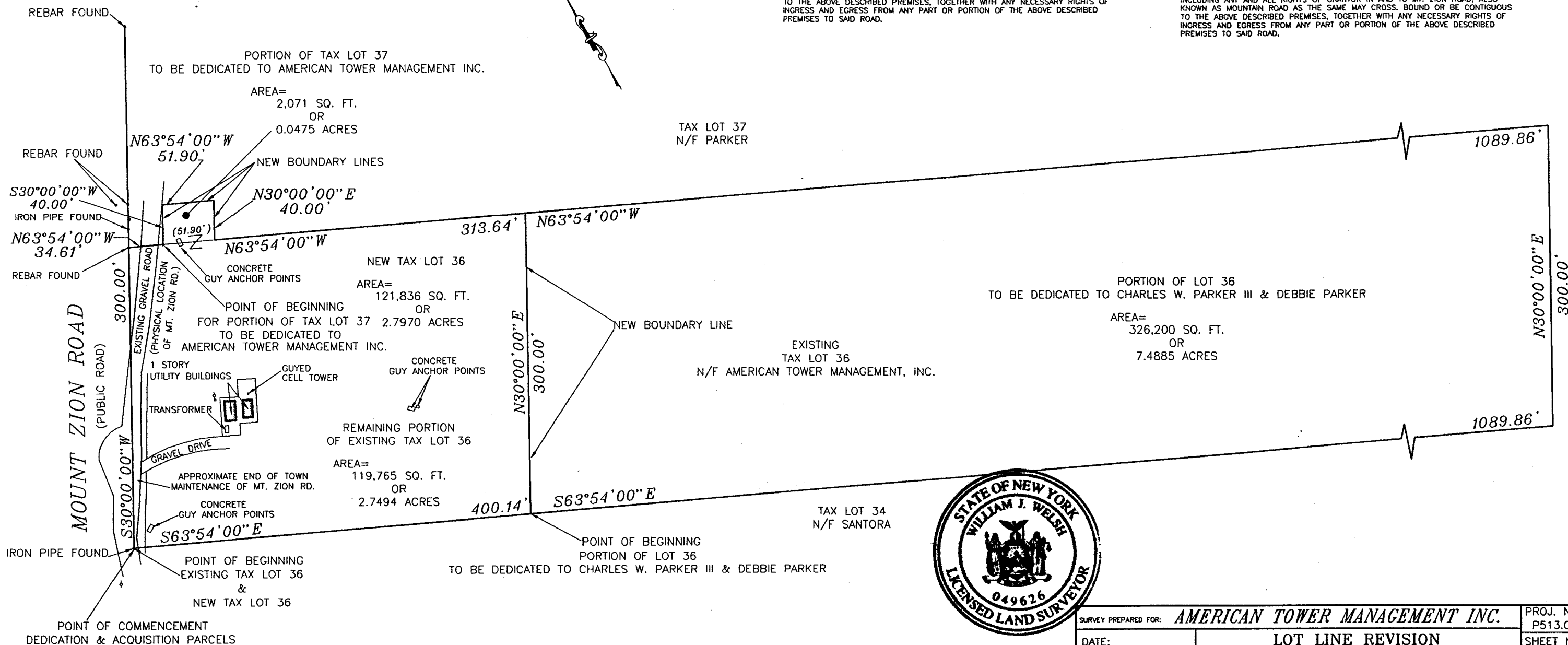
ALL THAT CERTAIN PLOT, PIECE, OR PARCEL OF LAND SITUATE, LYING AND BEING IN THE TOWN OF MARLBOROUGH, COUNTY OF ULSTER AND STATE OF NEW YORK, BEING BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHWEST CORNER OF EXISTING TAX LOT 36, AS SHOWN ON THE OFFICIAL TAX MAP FOR ULSTER COUNTY (SECTION 102.003-BLOCK 1-LOT 36), SAID CORNER BEING IN THE EXISTING GRAVEL ROAD BED OF MOUNT ZION ROAD (PUBLIC ROAD); RUNNING THENCE EASTERLY AND ALONG THE SOUTHERLY BOUNDARY OF EXISTING TAX LOT 36, SOUTH 63 DEGREES 54 MINUTES 00 SECONDS EAST 400.14 FEET; THENCE RUNNING THROUGH EXISTING TAX LOT 36, NORTH 30 DEGREES 00 MINUTES 00 SECONDS EAST 300.00 FEET TO THE NORTHERLY BOUNDARY OF EXISTING TAX LOT 36; THENCE RUNNING WESTERLY AND ALONG THE NORTHERLY BOUNDARY OF EXISTING TAX LOT 36 NORTH 63 DEGREES 54 MINUTES 00 SECONDS WEST 313.64 FEET; THENCE RUNNING THROUGH LAND NOW OR FORMERLY OF PARKER THE FOLLOWING THREE (3) COURSES AND DISTANCES:

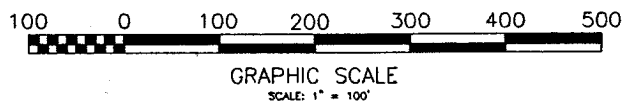
1. NORTH 30 DEGREES 00 MINUTES 00 SECONDS EAST 40.00 FEET;
2. NORTH 63 DEGREES 54 MINUTES 00 SECONDS WEST 51.90 FEET;
3. SOUTH 30 DEGREES 00 MINUTES 00 SECONDS WEST 40.00 FEET TO THE NORTHERLY BOUNDARY OF THE EXISTING TAX LOT 36;

THENCE RUNNING WESTERLY AND ALONG THE NORTHERLY BOUNDARY OF THE EXISTING TAX LOT 36 AND ACROSS THE EXISTING GRAVEL ROAD KNOWN AS MOUNT ZION ROAD (PUBLIC ROAD), NORTH 63 DEGREES 54 MINUTES 00 SECONDS WEST 34.61 TO THE NORTHWEST CORNER OF EXISTING TAX LOT 36; THENCE RUNNING SOUTHERLY AND ALONG THE WESTERLY BOUNDARY OF EXISTING TAX LOT 36 AND ACROSS AND THROUGH THE EXISTING GRAVEL ROAD KNOWN AS MOUNT ZION ROAD (PUBLIC ROAD), SOUTH 30 DEGREES 00 MINUTES 00 SECONDS WEST 300.00 FEET TO THE POINT OR PLACE OF BEGINNING; CONTAINING 121,836 SQUARE FEET OR 2.7970 ACRES MORE OR LESS.

INCLUDING ANY AND ALL RIGHTS OF GRANTOR IN AND TO MT. ZION ROAD, ALSO KNOWN AS MOUNTAIN ROAD AS THE SAME MAY CROSS, BOUND OR BE CONTIGUOUS TO THE ABOVE DESCRIBED PREMISES, TOGETHER WITH ANY NECESSARY RIGHTS OF INGRESS AND EGRESS FROM ANY PART OR PORTION OF THE ABOVE DESCRIBED PREMISES TO SAID ROAD.



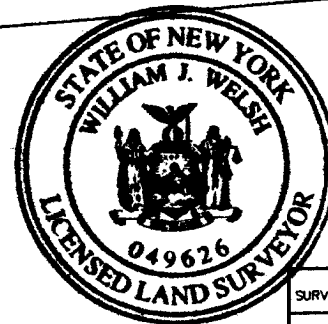
Unauthorized alteration or addition to this survey is a violation of section 7209, subdivision 2, of the New York State Education Law. Copies of this survey map not bearing the land surveyor's inked or embossed seal shall not be considered to be a valid copy.



William J. Welsh

DATE: Aug. 31, '05

WILLIAM J. WELSH N.Y. STATE LAND SURVEYOR LIC. # 49626



SURVEY PREPARED FOR: AMERICAN TOWER MANAGEMENT INC.		PROJ. NO. P513.00
DATE: AUGUST 30, 2005	LOT LINE REVISION SECTION 102.003 BLOCK 1 LOTS 36 & 37 MOUNT ZION, TOWN OF MARLBOROUGH, ULSTER COUNTY, STATE OF NEW YORK	SHEET NO. 1 OF 1
DRAWN BY: J.H.		JOB # P513.01
CHK BY: W.J.W.		CAD FILE: P51301F.DWG
SCALE: 1" = 100'		

NOTES:

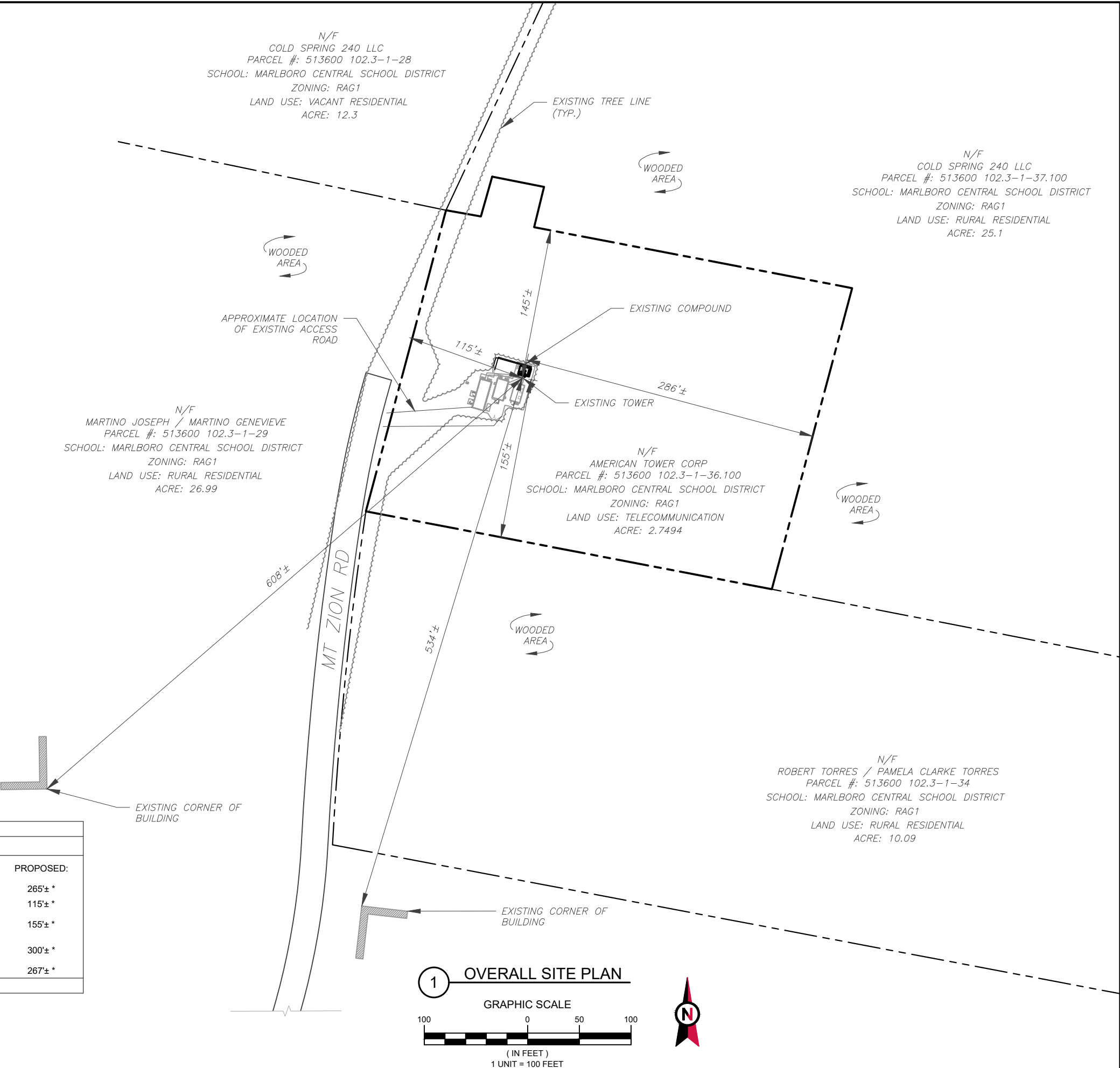
1. BOUNDARY LINES OBTAINED FROM DATATREE ONLINE GIS AND SURVEY COMPLETED BY WELSH ENGINEERING AND LAND SURVEYING DATED 08/30/2005.
2. THIS SITE IS NOT INTERCONNECTED WITH OTHER SITES. IT IS A STANDALONE STRUCTURE THAT PROVIDES CELL PHONE SERVICE TO THE SURROUNDING AREA.
3. THIS SITE IS LOCATED WITHIN A FLOOD ZONE X PER FIRM PANEL 36122C0770E DATED 09/25/2009
4. THIS SITE IS IN USE GROUP "U" AND IS THEREFORE UNMANNED. THE PROPERTY DOES NOT REQUIRE PERSONNEL TO BE STATIONED ANYWHERE ON SITE EXCEPT FOR CONSTRUCTION.
5. PARKING DURING CONSTRUCTION SHALL BE LIMITED TO THE EXISTING ACCESS ROAD WITHIN AMERICAN TOWER PROPERTY.
6. THIS IS A MINOR INSTALLATION WITHIN A PRE-EXISTING IMPERVIOUS AREA WITHIN AMERICAN TOWER'S COMPOUND. THERE WILL BE NO IMPACT TO NATURAL LAND FEATURES, ROAD WAYS, ACCESS WAYS OF ANY KIND, OR DRAINAGE CHANNELS.
7. ALL WASTE CREATED DURING CONSTRUCTION SHALL BE DISPOSED OF AT AN APPROVED NEW YORK STATE SOLID WASTE MANAGEMENT FACILITY

LEGEND

EXISTING PROPERTY LINE
EXISTING ADJACENT PROPERTY LINE
EXISTING LEASE AREA
EXISTING EASEMENT
EXISTING WOOD FENCE
EXISTING WIRE FENCE
EXISTING METAL FENCE
EXISTING GUARD RAIL
EXISTING CHAINLINK FENCE
EXISTING ROAD (DIRT)
EXISTING ROAD (STONE)
EXISTING ROAD (PAVED)

PARCEL SETBACK INFORMATION			
DISTRICT: MARLBOROUGH			
	REQUIRED (MINIMUM):	EXISTING:	PROPOSED:
MAX HEIGHT:	15'±	265'±	265'± *
MIN FRONT YARD SETBACK:	50'±	115'±	115'± *
MIN SIDE YARD SETBACK (ONE SIDE):	35'±	155'±	155'± *
MIN SIDE YARD SETBACK (BOTH SIDES):	80'±	300'±	300'± *
MIN REAR YARD SETBACK:	75'±	267'±	267'± *
* NO CHANGE TO EXISTING			

NOTE:
EXISTING VEGETATION, COUNT, SPACING AND SPECIES SHOWN IS AN APPROXIMATION AND HAS NOT BEEN FIELD VERIFIED.



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1 FENTON MAIN
SUITE 300
CARY, NC 27511
PHONE: (919) 468-0112
#0012746

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REV.	DESCRIPTION	BY	DATE
1	JX COMMENTS	AAP	11/24/25
2	JURISCICTIONAL CHECKLIST	TJC	12/04/25

ATC SITE NUMBER:

10330

ATC SITE NAME:

MOUNT ZION NY

T-MOBILE SITE NAME:

MT ZION

SITE ADDRESS:

366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:

T-Mobile

ATC PROJ. #: 14912089_D2

CUST. ID: MT ZION

CUST. #: UP50577A

OVERALL SITE PLAN

SHEET NUMBER:

C-001

REVISION:

2

- ⊗

ATS
- B

BOLLARD
- CSC

CELL SITE CABINET
- D

DISCONNECT
- E

ELECTRICAL
- F

FIBER
- GEN

GENERATOR
- G

GENERATOR RECEPTACLE
- HH, V

HAND HOLE, VAULT
- IB

ICE BRIDGE
- K

KENTROX BOX
- LC

LIGHTING CONTROL
- M

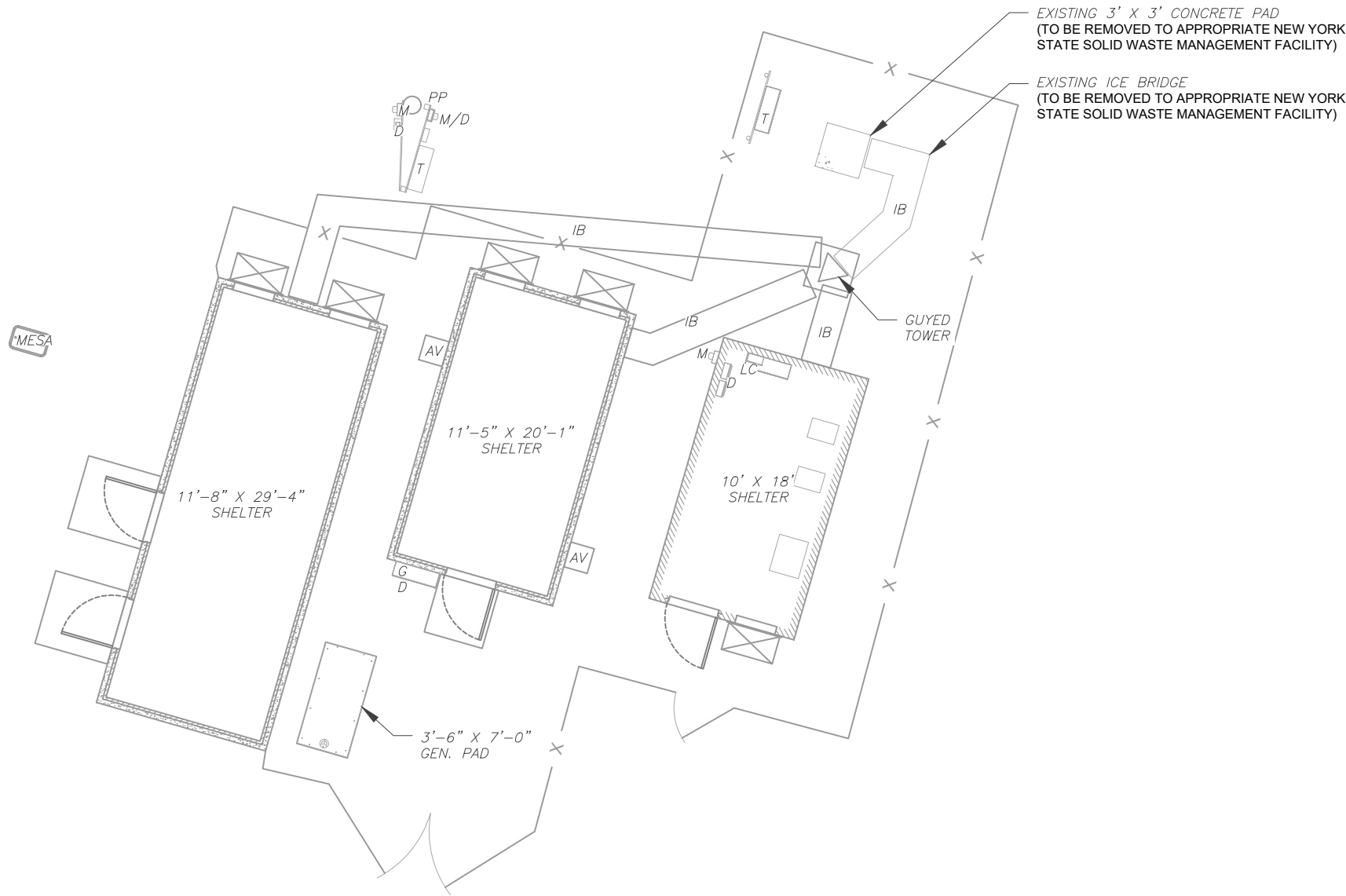
METER
- PB

PULL BOX
- PP

POWER POLE
- T

TELCO
- TRN

TRANSFORMER
- CHAINLINK FENCE



1 DEMOLITION PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)

1 UNIT = 10 FEET



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REV.	DESCRIPTION	BY	DATE
①	FOR CONSTRUCTION	AP	06/17/25
②	JURISCITIONAL CHECKLIST	TJC	12/04/25

ATC SITE NUMBER:

10330

ATC SITE NAME:

MOUNT ZION NY

T-MOBILE SITE NAME:

MT ZION

SITE ADDRESS:

366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:

T-Mobile

ATC PROJ. #:	14912089_D2
CUST. ID:	MT ZION
CUST. #:	UP50577A

DEMOLITION PLAN

SHEET NUMBER:

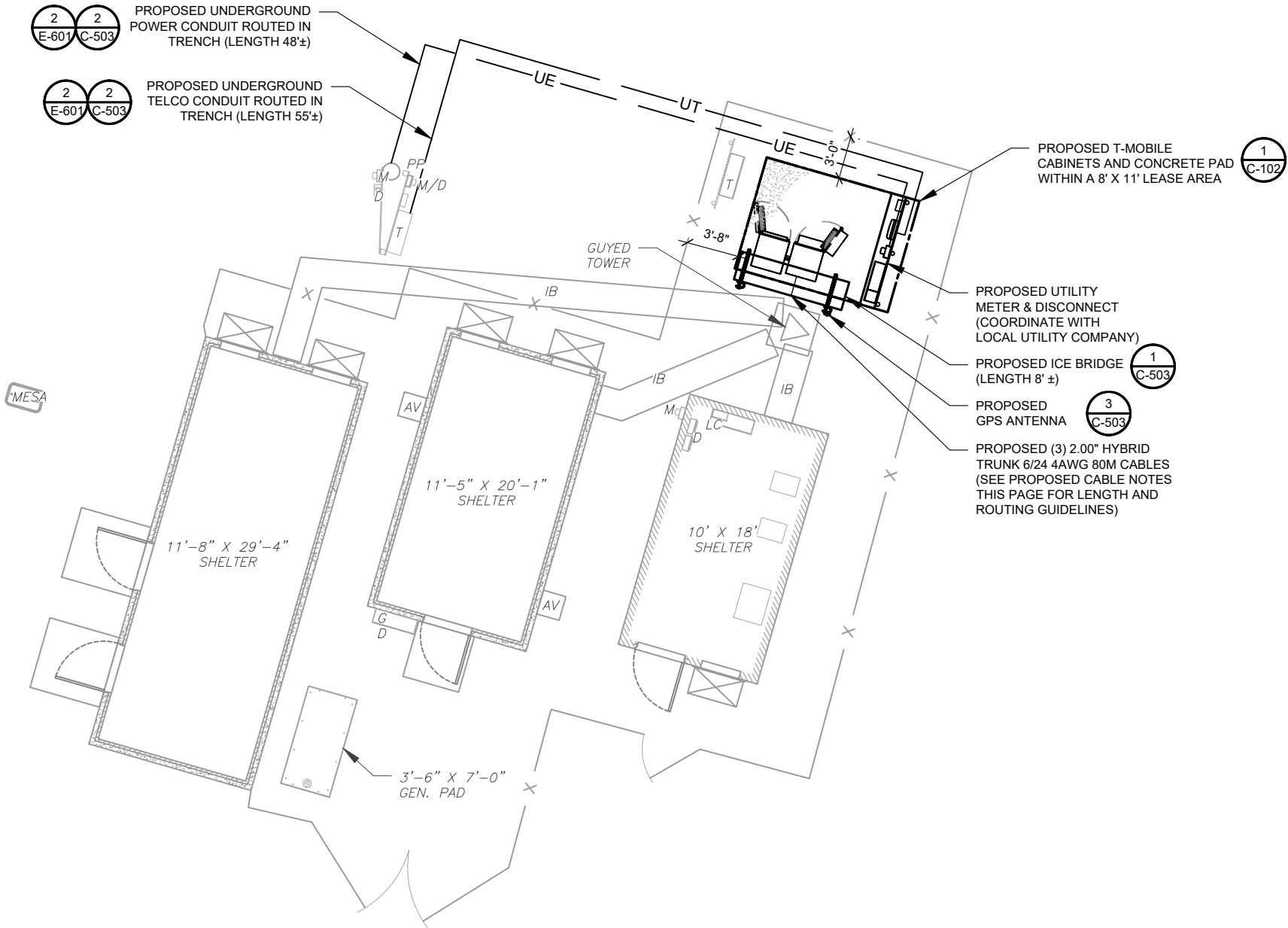
C-100

REVISION:

2

SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE T-MOBILE REPRESENTATIVE AND LOCAL UTILITY COMPANY FOR THE INSTALLATION OF CONDUITS, CONDUCTORS, BREAKERS, DISCONNECTS, OR ANY OTHER EQUIPMENT REQUIRED FOR ELECTRICAL SERVICE. ALL ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE STATE AND NATIONAL CODES, ORDINANCES AND REGULATIONS APPLICABLE TO THIS PROJECT.



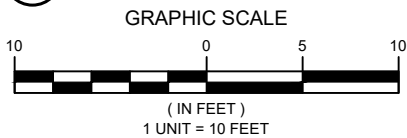
LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
—	CHAINLINK FENCE

PROPOSED CABLE NOTES:

- ESTIMATED LENGTH OF PROPOSED CABLE IS **250'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).

1 DETAILED SITE PLAN



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REV.	DESCRIPTION	BY	DATE
1	FOR CONSTRUCTION	AP	06/17/25
2	JURISCITIONAL CHECKLIST	TJC	12/04/25

ATC SITE NUMBER:

10330

ATC SITE NAME:

MOUNT ZION NY

T-MOBILE SITE NAME:

MT ZION

SITE ADDRESS:

366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:

T-Mobile

ATC PROJ. #: 14912089_D2

CUST. ID: MT ZION

CUST. #: UP50577A

DETAILED SITE PLAN

SHEET NUMBER:

C-101

REVISION:

2



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②	JURISCITIONAL CHECKLIST	TJC	12/04/25
△			
△			
△			

ATC SITE NUMBER:

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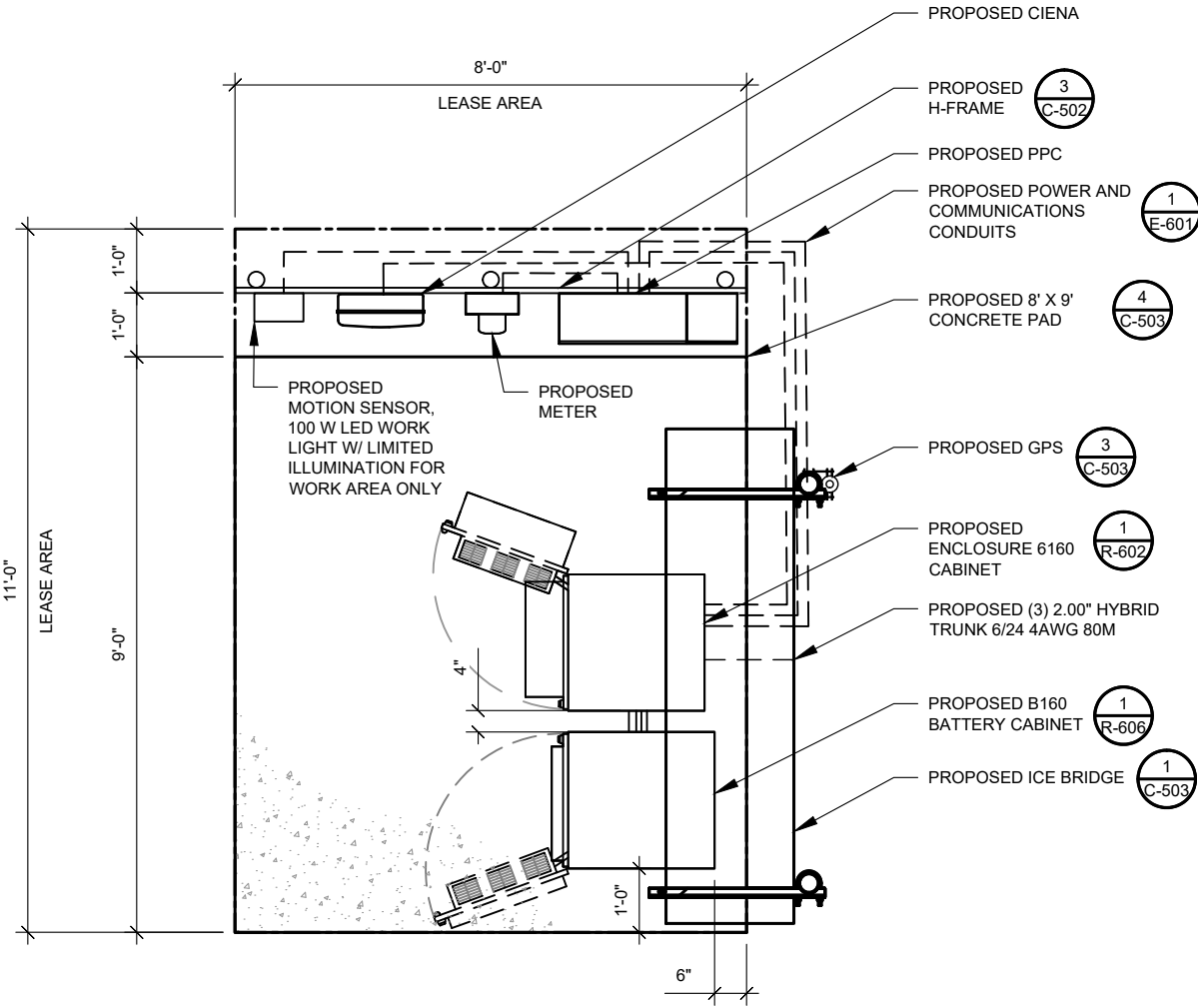
**DETAILED EQUIPMENT
PLAN**

SHEET NUMBER:

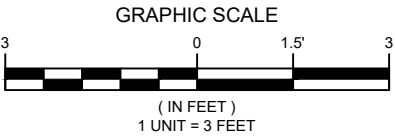
C-102

REVISION:

2



1 PROPOSED GROUND EQUIPMENT LAYOUT



TOP OF EXISTING
HIGHEST APPURTENANCE
ELEV 265'

TOP OF EXISTING TOWER
ELEV 260'

2 1
C-401 C-401

PROPOSED T-MOBILE
EQUIPMENT

PROPOSED T-MOBILE
RAD CENTER @ 212'

EXISTING CARRIER ANTENNAS
RAD CENTER @ ELEV 180'

EXISTING CARRIER ANTENNAS
RAD CENTER @ ELEV 175'

EXISTING CARRIER ANTENNAS
RAD CENTER @ ELEV 154'

EXISTING CARRIER ANTENNAS
RAD CENTER @ ELEV 131'

EXISTING CARRIER ANTENNAS
RAD CENTER @ ELEV 111'

PROPOSED (3) 2.00" HYBRID
TRUNK 6/24 4AWG 80M (250')
(SEE CABLE NOTES ON C-101)

EXISTING TOWER

EXISTING GRADE
ELEV 0'

1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY ATC,
DATED 01/02/25, THE PROPOSED MOUNT CAN
ADEQUATELY SUPPORT THE PROPOSED
LOADING.

ALL ELEVATIONS REFLECT ABOVE GROUND LEVEL (A.G.L.)

TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
- TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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MT ZION

SITE ADDRESS:

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MARLBORO, NY 12542

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T-Mobile

ATC PROJ. #: 14912089_D2

CUST. ID: MT ZION

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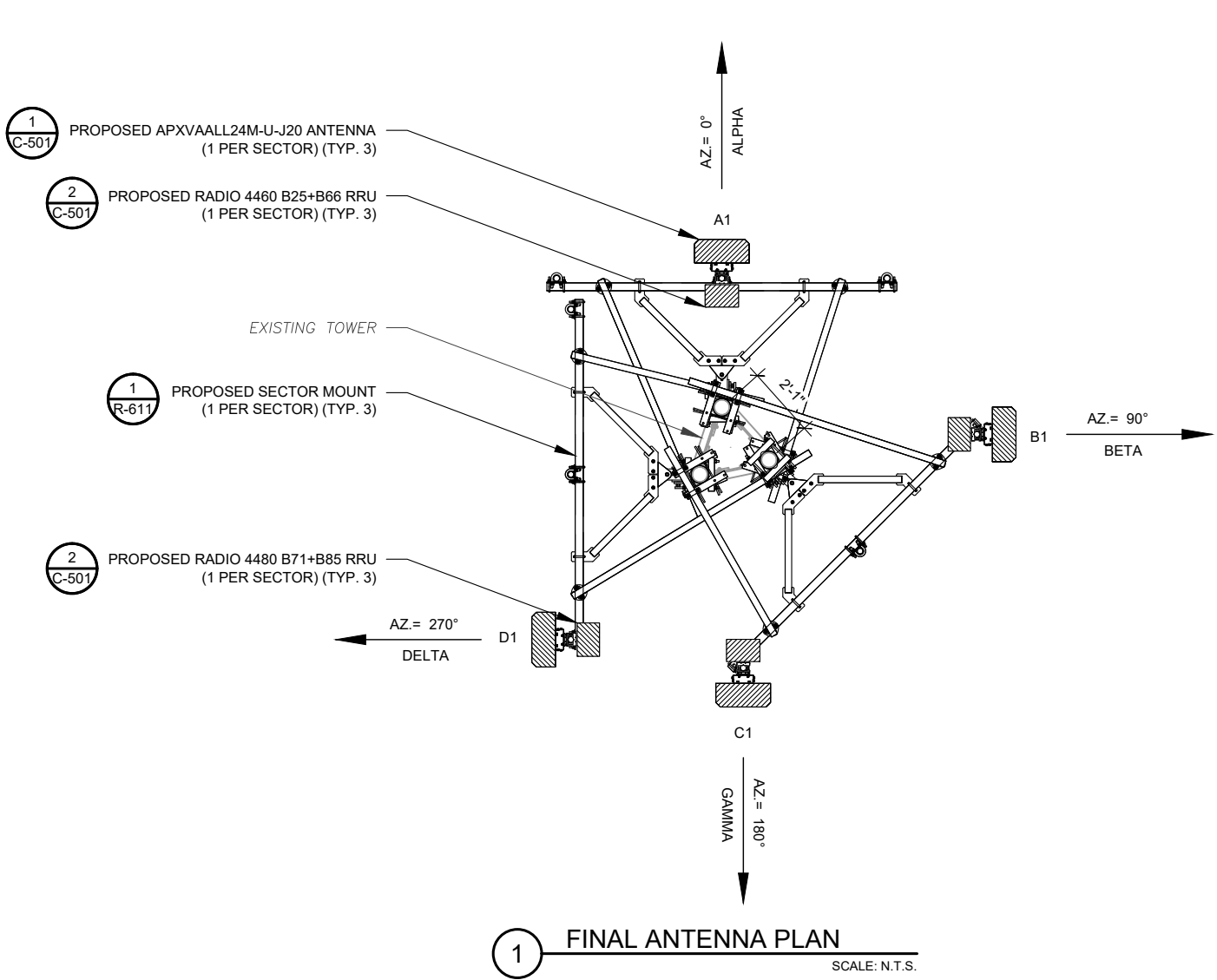
TOWER ELEVATION

SHEET NUMBER:


C-201

REVISION:

0



PER MOUNT ANALYSIS COMPLETED BY ATC, DATED 01/02/25, THE PROPOSED MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.



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T-MOBILE SITE NAME:
MT ZION
SITE ADDRESS:
366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:



ATC PROJ. #:	14912089_D2
CUST. ID:	MT ZION
CUST. #:	UP50577A

ANTENNA INFORMATION
& SCHEDULE

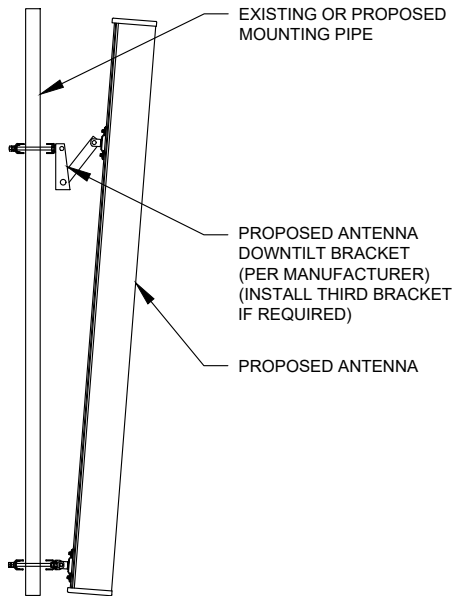
SHEET NUMBER: C-401	REVISION: 0
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FINAL ANTENNA/ COAX SCHEDULE						
SECTOR	ANT.	MODEL #	RAD CENTER	AZIMUTH	ADDITIONAL TOWER MOUNTED EQUIPMENT	CABLE DESCRIPTION
ALPHA	A1	APXVAALL24M-U-J20	212'	0°	RADIO 4460 B25+B66 RADIO 4480 B71+B85	(3) 2.00" HYBRID TRUNK 6/24 4AWG 80M (250')
BETA	B1	APXVAALL24M-U-J20		90°	RADIO 4460 B25+B66 RADIO 4480 B71+B85	
GAMMA	C1	APXVAALL24M-U-J20		180°	RADIO 4460 B25+B66 RADIO 4480 B71+B85	
DELTA	D1	APXVAALL24M-U-J20		270°	RADIO 4460 B25+B66 RADIO 4480 B71+B85	
1. GC TO VERIFY THE FINAL RFDS MATCHES THE FINAL CONSTRUCTION DRAWINGS. GC TO NOTIFY ATC PM OF ANY DISCREPANCY PRIOR TO INSTALLING THE EQUIPMENT. 2. GC TO CAP ALL UNUSED PORTS. 3. GC TO CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.						

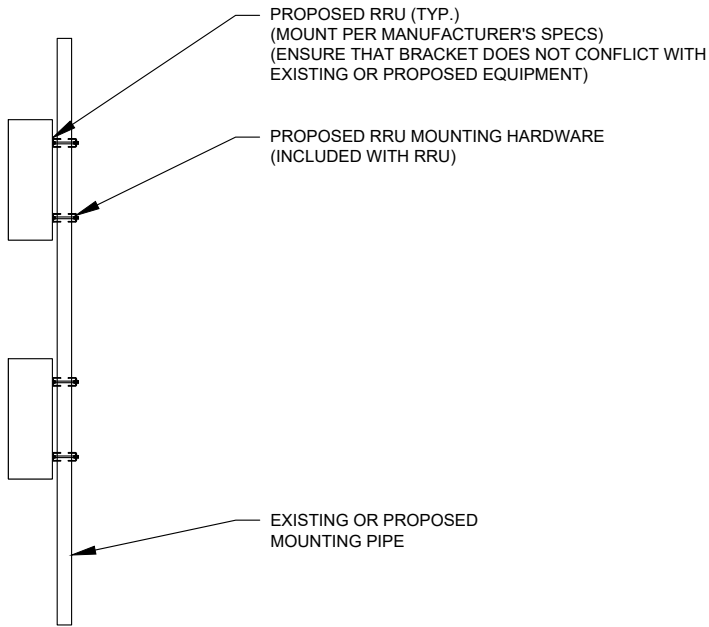
2 ANTENNA SCHEDULE

RF JUMPER LENGTH
MONOPOLE = 15'± GUYED / SELF SUPPORT = FACE WIDTH + 15'
REFER TO FINAL RFDS FOR TYPE AND QUANTITY

EXISTING/PROPOSED MOUNTS AND/OR MOUNT MODIFICATIONS NOT SHOWN FOR CLARITY. REFER TO ANTENNA PLANS, MOUNT ANALYSES AND/OR MOUNT MODIFICATION DOCUMENTS FOR ADDITIONAL DETAIL.



1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



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10330

ATC SITE NAME:

MOUNT ZION NY

T-MOBILE SITE NAME:

MT ZION

SITE ADDRESS:

366 MOUNT ZION RD
MARLBORO, NY 12542

SEAL:

T-Mobile

ATC PROJ. #: 14912089_D2

CUST. ID: MT ZION

CUST. #: UP50577A

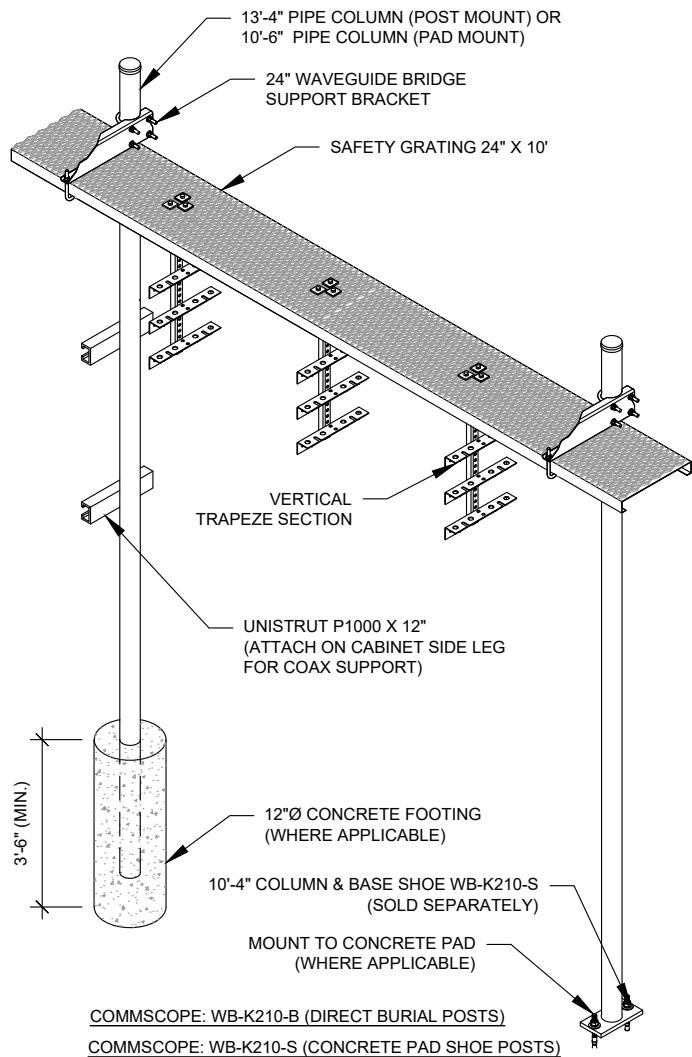
MOUNT DETAILS

SHEET NUMBER:

C-501

REVISION:

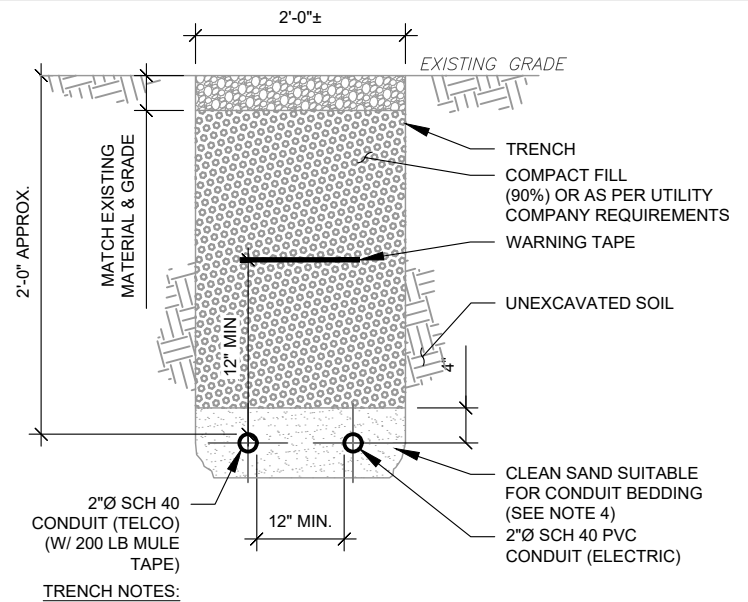
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CONSTRUCTION NOTE:

1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.
2. INSTALL PER MANUFACTURES SPECIFICATION.

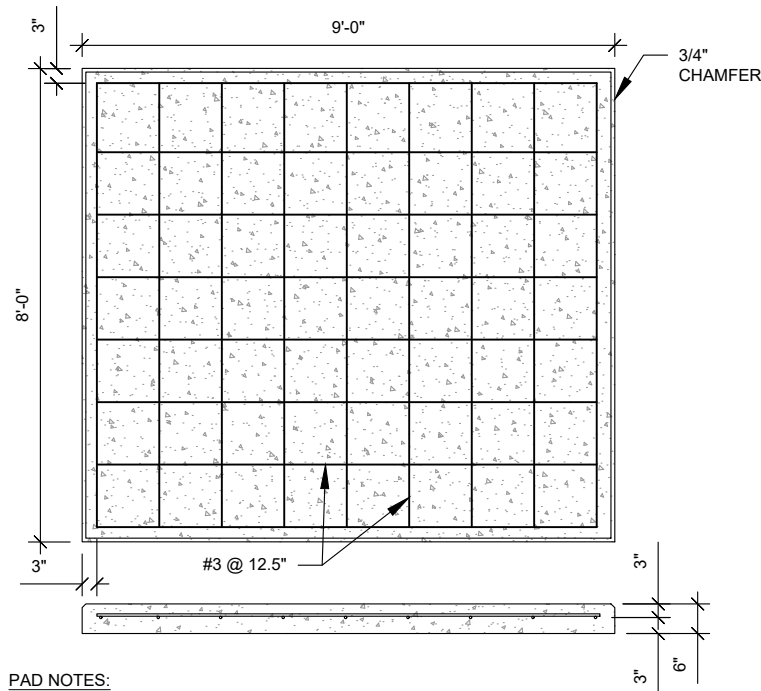
1 WAVEGUIDE BRIDGE KIT
SCALE: N.T.S.



TRENCH NOTES:

1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL.
2. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
4. CONCRETE ENCASE CONDUIT WHEN TRENCHING UNDER SITE ACCESS ROAD.

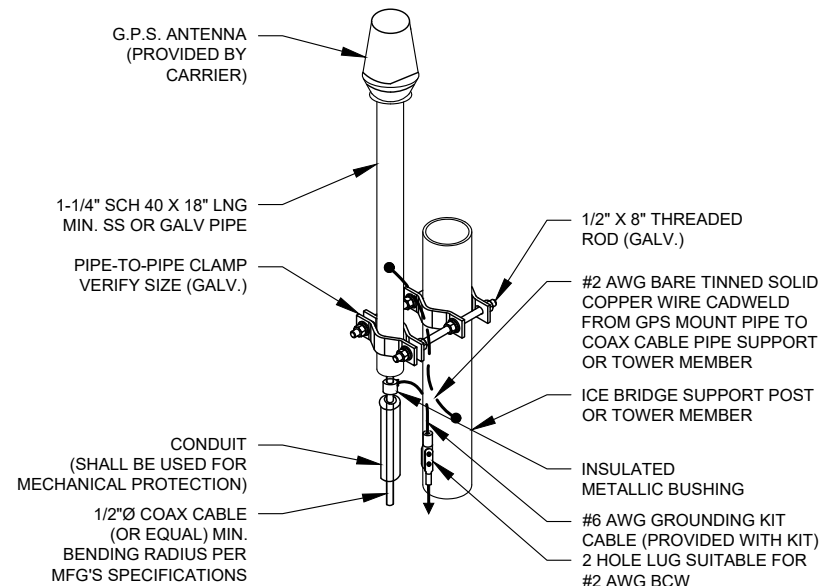
2 TELCO AND POWER CONDUIT JOINT TRENCH
SCALE: N.T.S.



PAD NOTES:

1. PADS SHALL BE PRE-CAST MATCHING THIS DESIGN WHERE ALLOWED BY LOCAL JURISDICTION.
2. REFER TO CONCRETE & REINFORCED STEEL NOTES ON SHEET G-002 & ATC SPEC 033000 FOR CAST-IN-PLACE PADS.

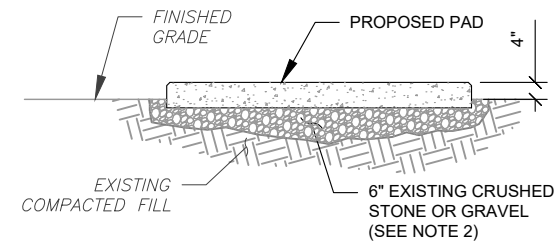
4 REINFORCED PAD LAYOUT
SCALE: N.T.S.



NOTE:

1. GPS SHALL BE PLACED WITH CLEAR SIGHT LINE TO THE SOUTHERN SKY.
2. CONTRACTOR TO SUPPLY COAX FOR GPS UNIT.

3 GPS ANTENNA ATTACHMENT DETAIL
SCALE: N.T.S.



PAD NOTES:

1. SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETRIOUS MATERIAL AND ORGANICS SHALL BE REMOVED.
2. MECHANICALLY COMPACT FOOTPRINT OF PAD PLUS 2' PERIMETER.
3. USE GALVANIZED HILTI EXPANSION ANCHORS OR, APPROVED EQUAL, FOR EQUIPMENT ANCHORAGE.
4. FOR SIZE AND LOCATION OF ANCHORS AND OTHER REQUIREMENT, SEE EQUIPMENT VENDOR DRAWINGS.

5 GRAVEL PREPARATION
SCALE: N.T.S.

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SEAL:

T-Mobile

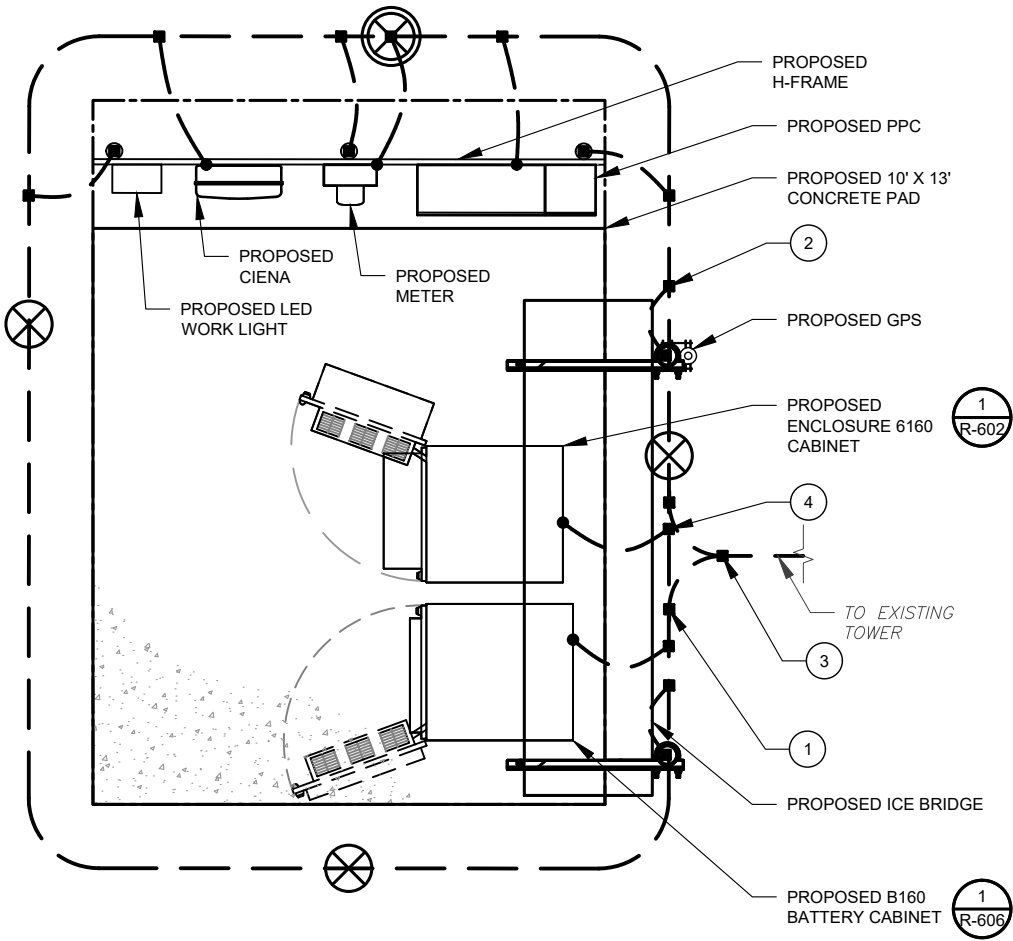
ATC PROJ. #:	14912089_D2
CUST. ID:	MT ZION
CUST. #:	UP50577A

**CONSTRUCTION
DETAILS**

SHEET NUMBER: C-503	REVISION: 0
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GROUNDING NOTES:

1. ALL EQUIPMENT ENCLOSURES, DEVICES AND CONDUITS SHALL BE GROUNDED TO CONFORM WITH THE LATEST REQUIREMENTS OF THE NEC BY THE INSTALLATION OF A SEPARATE, GREEN, INSULATED GROUND CONDUCTOR FOR ALL FEEDER AND BRANCH CIRCUITS. GROUND CONDUCTORS SHALL BE OF THE SIZE INDICATED ON THE DRAWINGS. GROUND CONDUCTORS SHALL BE CONTINUOUS IN LENGTH AND SHALL BE BONDED TO EACH ENCLOSURE THEY PASS THROUGH. CONDUIT SHALL NOT BE USED AS A GROUNDING CONDUCTOR.
2. GROUNDING CONDUCTORS SHALL:
- A. BE #2 AWG SOLID BARE TINNED COPPER (SBTC) FOR ALL GROUNDING SYSTEM WIRE UNLESS OTHERWISE NOTED, OR OTHERWISE REQUIRED BY CODE.
 - B. BE MINIMUM 12" BEND RADIUS. KEEP NUMBER OF BENDS TO A MINIMUM.
 - C. AVOID LONG BONDING CONNECTION RUNS. MAKE DIRECT AS POSSIBLE.
 - D. NOT HAVE ANY U-SHAPED RUNS.
 - E. BE IN NON-METALLIC CONDUIT ONLY, IF IN CONDUIT.
 - F. BE PLACED THROUGH NON-METALLIC SLEEVES IN FLOORS, WALLS, CEILINGS, ETC.
 - G. PROTECTED IN NON-METALLIC CONDUIT WHERE EXPOSED ABOVE GRADE.
2. INSTALL ALL GROUNDING RINGS AND RADIALS WITH CONDUCTIVE CEMENT, SANKOSHA AS DISTRIBUTED BY ELECTRIC MOTION COMPANY, INC., WINSTED, CT 06098, OR AS SPECIFICALLY INDICATED. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
3. GROUND RINGS SHALL BE:
- A. MINIMUM 30" BELOW GRADE, OR BELOW FROST LINE WHICHEVER IS DEEPER.
 - B. MINIMUM 2" FROM FOUNDATIONS, FOOTINGS, OTHER GROUNDING SYSTEMS AND ALL CONDUCTIVE OBJECTS.
 - C. WITH MINIMUM 12" BEND RADII.
 - D. WITH ALL CONNECTIONS IN CONTACT WITH EARTH, BONDED BY EXOTHERMIC WELDING.
 - E. BONDED TO A SINGLE POINT GROUND (SPG) WITH A SINGLE WIRE AS INDICATED ON DRAWINGS.
4. GROUND RODS SHALL BE:
- A. MINIMUM 5/8" DIAMETER.
 - B. MINIMUM 10' LONG.
 - C. COPPER-CLAD GALVANIZED STEEL OR STAINLESS STEEL.
 - D. PLACED IN UNDISTURBED SOIL AND BELOW THE FROST LINE.
 - E. INSTALLED WITH MINIMUM SEPARATION DISTANCE OF TWICE THE DEPTH OF THE ROD(S), OR AS INDICATED ON DRAWINGS.
 - F. MINIMUM TWO (2) RODS ON THE TOWER RING OR ONE (1) PER LEG WHICHEVER IS LARGER, MINIMUM FOUR (4) RODS ON EVERY EQUIPMENT BUILDING RING WITH ONE AT EACH CORNER OR AS INDICATED, MINIMUM ONE (1) ROD FOR POWER SERVICE GROUNDING ELECTRODE, AND MINIMUM ONE (1) ROD AT END OF EACH RADIAL.
5. CONDUCTIVE OBJECTS, SUCH AS FENCES, SHALL BE BONDED TO THE GROUNDING SYSTEM IF WITHIN 20' OF THE TOWER GROUNDING SYSTEM, OR 5' OF ANY OTHER GROUNDED COMPONENT.

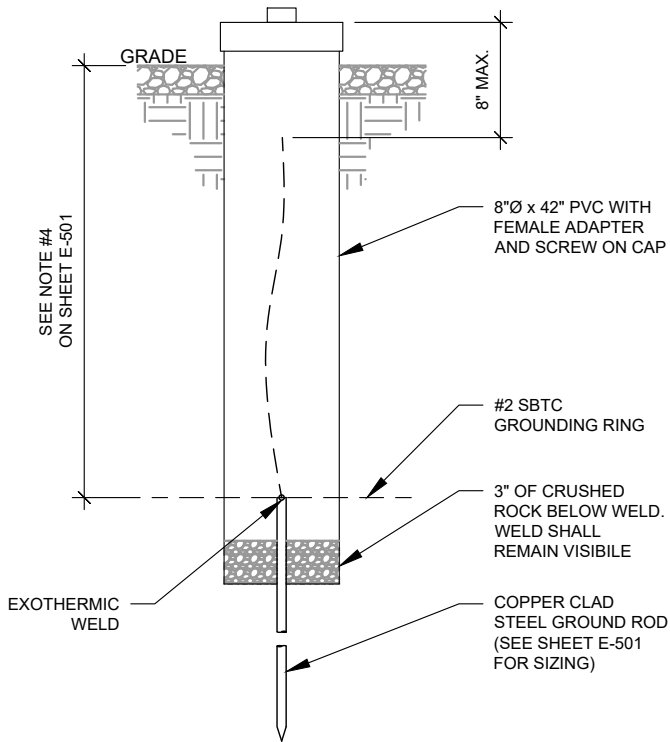


1 DETAILED GROUNDING PLAN
SCALE: N.T.S.

GROUNDING PLAN LEGEND:			
	EXISTING GROUND WIRE		5/8"Ø X 10' COPPER GROUND ROD
	GROUND WIRE		TEST WELL
	EXOTHERMIC WELD		
	MECHANICAL WELD		

GROUNDING KEYED NOTES:

- 1 BOND TO TOWER GROUND RING
- 2 #2 AWG BOND FROM VERTICAL H-FRAME AND ICE BRIDGE POST TO EXTERNAL GROUND RING (TYP. EVERY POST).
- 3 #2 AWG SBTC BOND FROM TOWER GROUND RING TO EQUIPMENT.
- 4 EQUIPMENT BOND TO GROUND RING (TYP.)



2 TEST WELL DETAIL
SCALE: N.T.S.


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MARLBORO, NY 12542

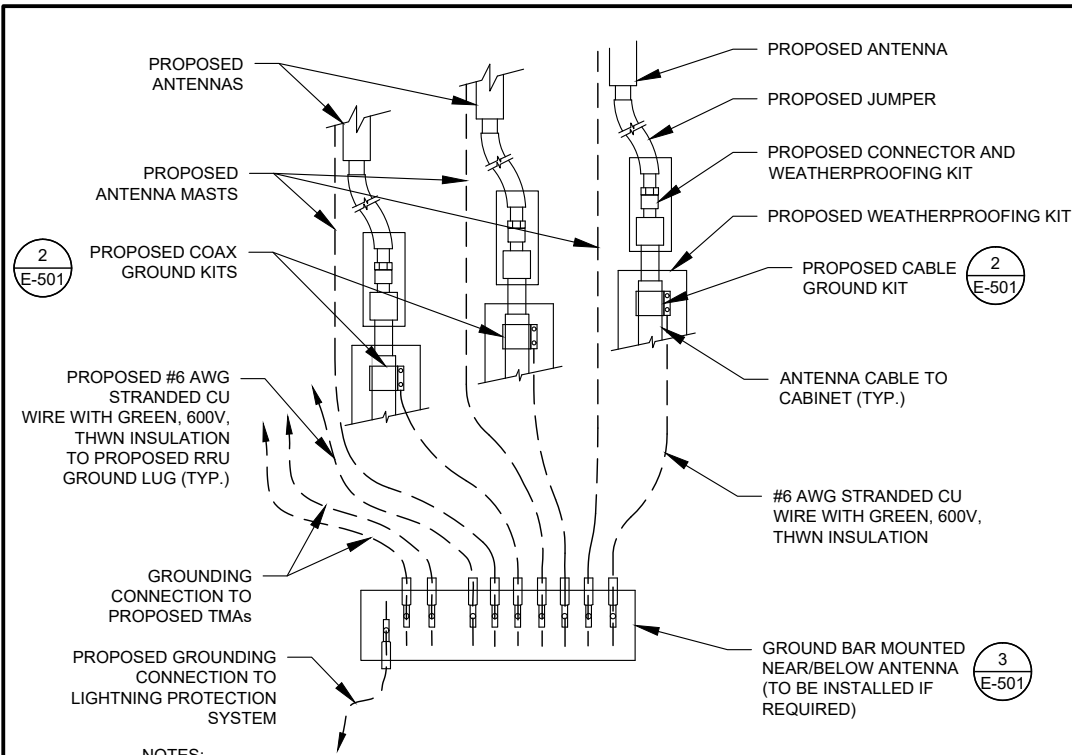
SEAL:



ATC PROJ. #:	14912089_D2
CUST. ID:	MT ZION
CUST. #:	UP50577A

GROUNDING PLAN
AND NOTES

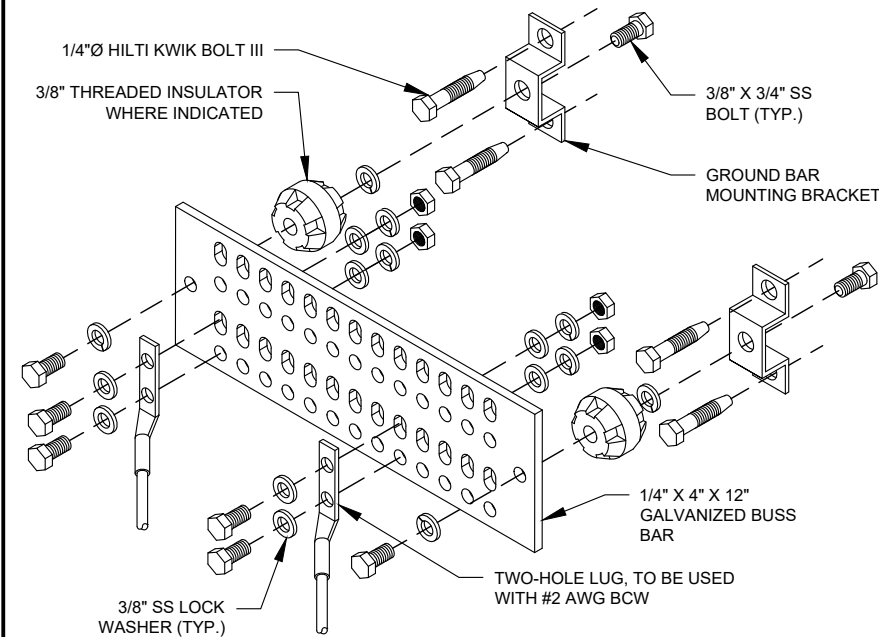
SHEET NUMBER: E-101	REVISION: 0
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NOTES:

- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
- SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

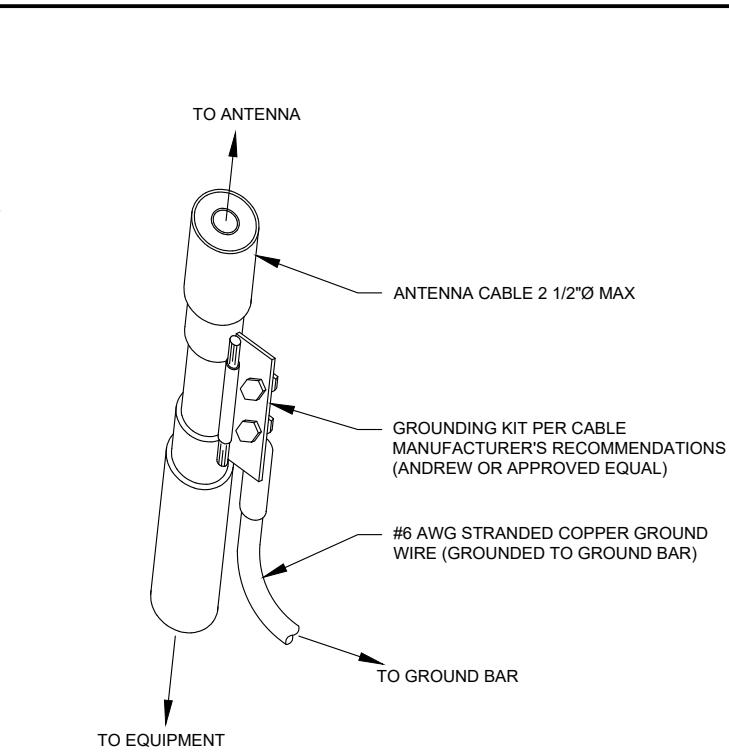
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



GROUND BAR NOTES

- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

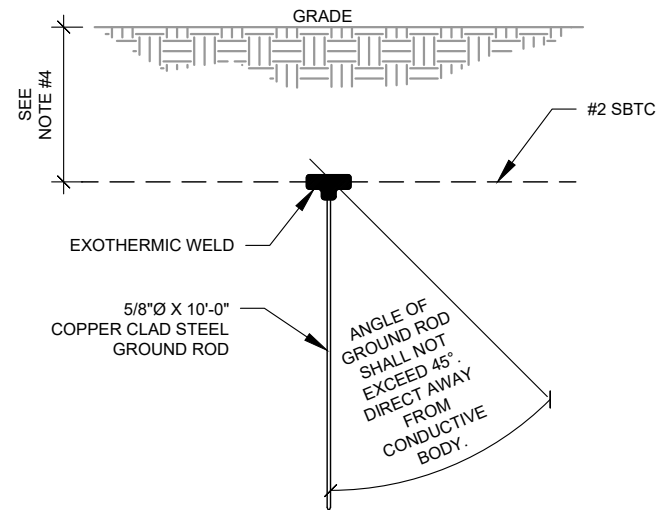
4 MAIN GROUND BAR DETAIL
SCALE: N.T.S.



GROUND KIT NOTES:

- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
- CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

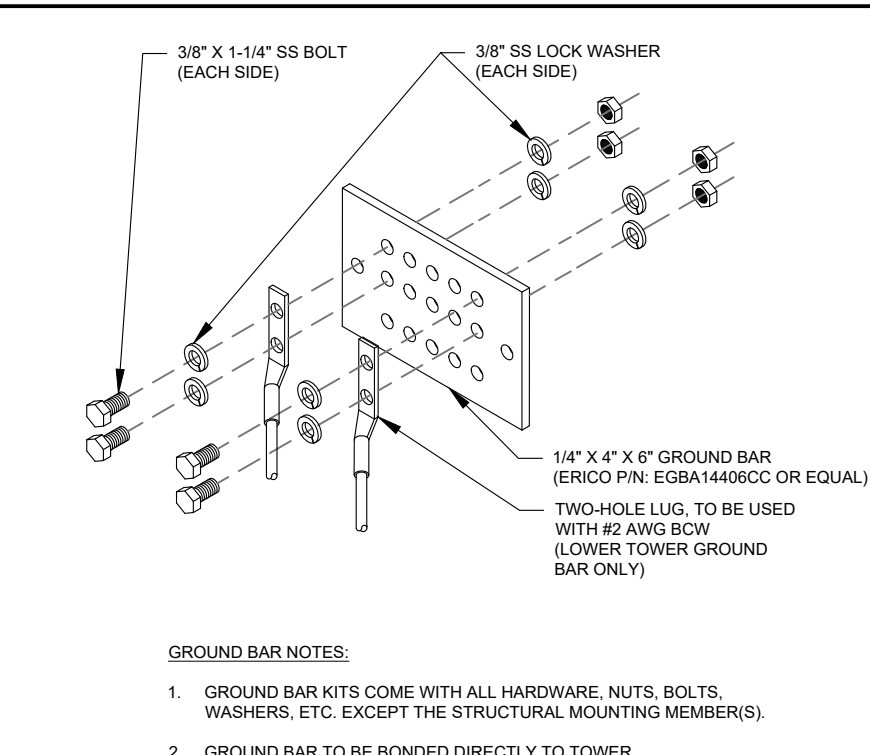
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



NOTES:

- SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.
- COORDINATE UTILITY, LOCATE BEFORE DIGGING.
- CONDUIT TRENCHING DEPTHS AT 36" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.
- ALL RING AND RADIAL DEPTHS AT 30" OR 6" BELOW FROST LINE, WHICHEVER IS GREATER.

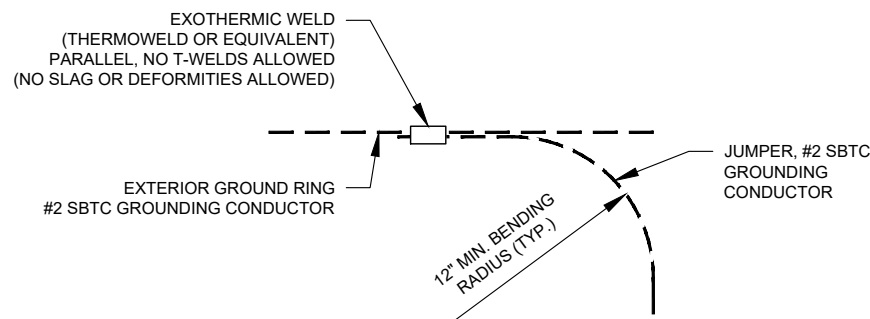
5 GROUND ROD DETAIL
SCALE: N.T.S.



GROUND BAR NOTES:

- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
- GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



6 TIE CONNECTION DETAIL
SCALE: N.T.S.

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MARLBORO, NY 12542

SEAL:

T-Mobile

ATC PROJ. #: 14912089_D2

CUST. ID: MT ZION

CUST. #: UP50577A

GROUNDING DETAILS

SHEET NUMBER:

E-501

REVISION:

0

PANEL DESIGNATION: TMO		TYPE: LIGHTING & APPLIANCE	SYSTEM: 120/240V, 1Ø, 3W, 24 CKT		LOCATION: TMO LEASE EQUIPMENT AREA	
		MOUNTING: SURFACE	MAIN BREAKER (MB): 200A			
		ENCLOSURE: NEMA 3R	MAIN BUS RATING: 200A		PANEL NOTES: PROPOSED	
			MIN. A.I.C. RATING: N/A			

CONNECTED LOAD (kVA)		BRIEF DESCRIPTION	FEEDER OR BRANCH CIRCUIT						CIRCUIT NOTES	FEEDER OR BRANCH CIRCUIT						BRIEF DESCRIPTION	CONNECTED LOAD (kVA)					
A	B		BREAKER		CIRCUIT		POLE NO.	CIRCUIT NOTES		BREAKER		CIRCUIT		POLE NO.	CIRCUIT NOTES		A	B				
			AMPS	POLES	WIRE	GND				COND.	AMPS	POLES	WIRE				GND	COND.				
0.01	0.01	SURGE	60	2	3-#6	#10	1"	1				2	1/2"	#12	2-#12	1	20	GFI	0.18			
7.50	7.50	ENCLOSURE 6160 v2	200	2	2-#3/0	#6	2"	3				4	1/2"	#12	2-#12	1	20	LIGHT		0.50		
								5				6	1/2"	#12	2-#12	1	20	AAV GFI	0.15			
0.00	0.00							7				8							0.00	0.00		
								9				10							0.00	0.00		
0.00	0.00							11				12							0.00	0.00		
								13				14							0.00	0.00		
0.00	0.00							15				16							0.00	0.00		
								17				18							0.00	0.00		
0.00	0.00							19				20							0.00	0.00		
								21				22							0.00	0.00		
0.00	0.00							23				24							0.00	0.00		
7.5	7.5																		0.3	0.5		
								A	B	TOTAL												
								7.8	8.0	15.9	CONNECTED LOAD (kVA)											
								7.8	8.0	15.9	DEMAND LOAD (kVA)											
																		DERATING FACTOR (80%)				
																		DEMAND LOAD SIZING: 83 AMPS				

- NOTE:
- ALL EQUIPMENTS' SHORT-CIRCUIT CURRENT RATING SHALL EXCEED AVAILABLE FAULT CURRENT PER UTILITY
 - CONTRACTOR TO INSTALL HANDHOLES AT EVERY 3RD 90° TURN



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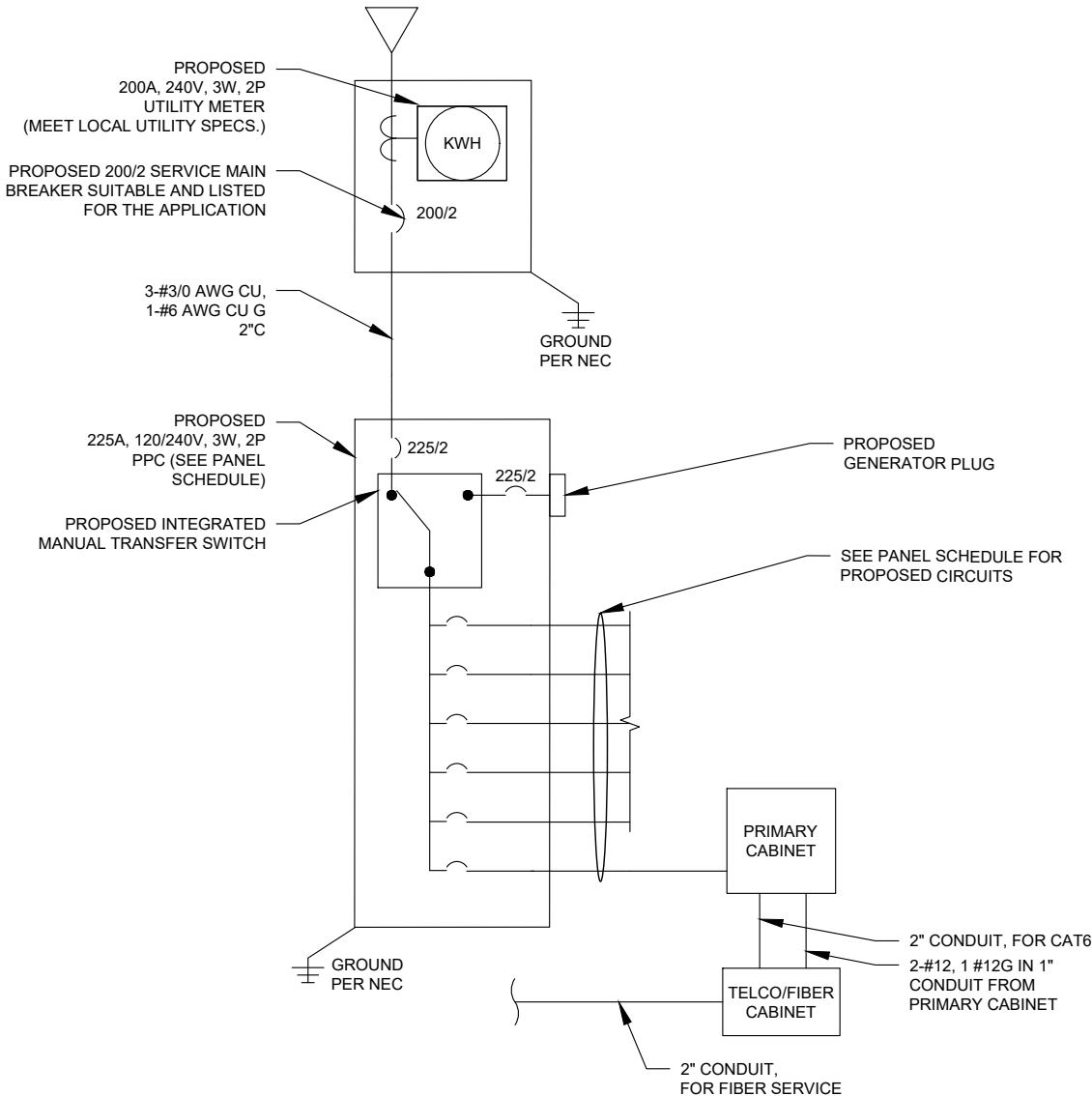
PANEL SCHEDULE & ONE-LINE DIAGRAM

SHEET NUMBER:

E-601

REVISION:

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STANDARD CONDUIT USE TABLE			
CONDUIT TYPE	USE CASE	LOCATION	USE CASE EXAMPLE
RMC (METALLIC)	AC, DC COMM	ABOVE GROUND	ABOVE GROUND PPC TO SSC
PVC	AC POWER	UNDERGROUND	UNDERGROUND PPC TO SSC OR BACKHAUL TRANSPORT HUB TO SSC
LFMC	AC, DC, COMM	MAX 6' PER CONDUIT RUN, ABOVE GROUND ONLY	TIGHT LOCATIONS BETWEEN HUB AND CONDUIT BUT NOT TO BE USED WHERE IT CAN BE STEPPED ON
EMT	INDOOR AC, DC COMM	INDOOR NOT EXPOSED TO THE OUTDOOR ENVIRONMENT (MUST BE DRY)	CIRCUIT PANEL TO JUNCTION BOX
LFNC	GROUND WIRE	CONCEALING AND PROTECTING BTCW RISERS ONLY	GROUND RING TO MGB OR SSC

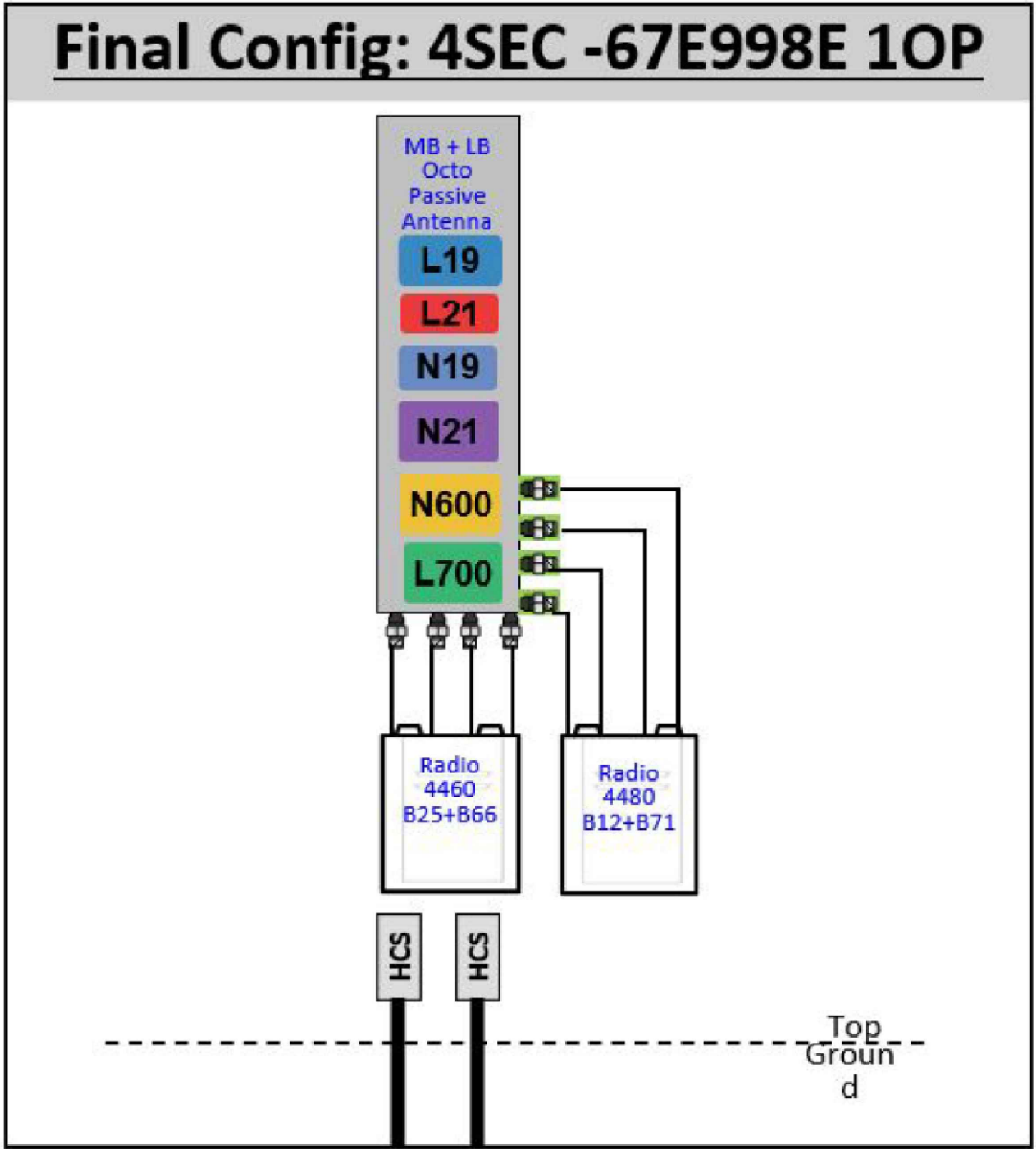
EXCEPTION CONDUIT USE TABLE			
CONDUIT TYPE	USE CASE	LOCATION	USE CASE EXAMPLE
EMT (NOT PREFERRED)	OUTDOOR DC, COMM	OUTDOOR WHEN USED WITH WATERTIGHT HUBS ONLY	BETWEEN EQUIPMENT AND BATTERY CABINET OR EQUIPMENT TO EQUIPMENT CABINETS FOR INTER CABINET CONNECTION
RMC NONMETALLIC (ALUMINUM)	OUTDOOR/INDOOR PER NEC GUIDLINES	ABOVE GROUND	MAT BE USED AS A LOWER COST ALTERNATIVE TO METALLIC RMC, MUST MEET OR EXCEED FEDERAL SPEC: WW-C-540C, UL-6A, ANSI C80.5, NEC 344.10 (A) ALLOWS THE USE OF EITHER ALUMINUM OR GALVANIZED FITTINGS

2 ONE-LINE DIAGRAM

3 CONDUIT USE TABLES

Proposed RAN Equipment		
Template: 4Sec-67E998E 6160 (LRP)		
Enclosure	1	2
Enclosure Type	Enclosure 6160_v2 AC	B160
Baseband	<div>RP 6651</div> <div><div>N1900</div><div>N2100 (RESTRICTED)</div><div>L1800</div><div>L2100</div></div> <div>RP 6651</div> <div><div>N600</div><div>L600 (RESTRICTED)</div><div>L700</div></div>	
Transport System	CSR IXRe V2 (Gen2)	
Hybrid Cable System	Hybrid Trunk 6/24 4AWG 80m (x3)	
RAN Scope of Work:		
<div>Add (1) 6160 and (1) B160 cabinets</div> <div>Add (2) RP 6651 Basebands</div> <div>Add (1) IXRe Router</div> <div>Add (3) 6x24 80M HCS</div>		

1 CABINET CONFIGURATION



Notes:

2 ANTENNA CONFIGURATION

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

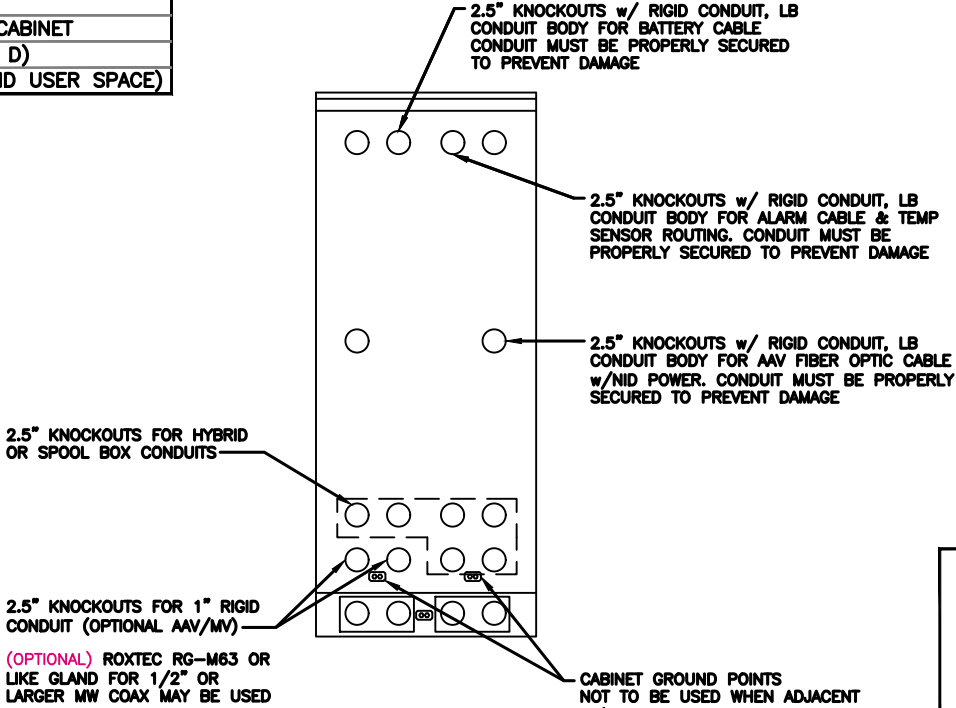
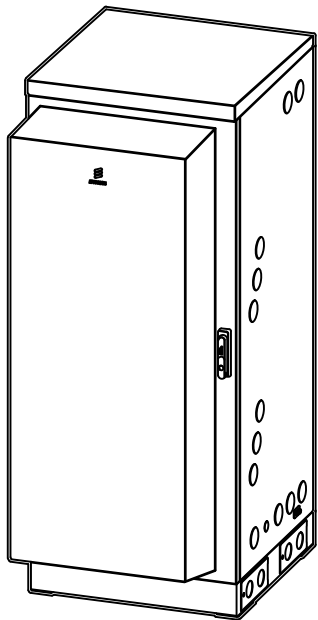
SHEET NUMBER:

R-601

REVISION:

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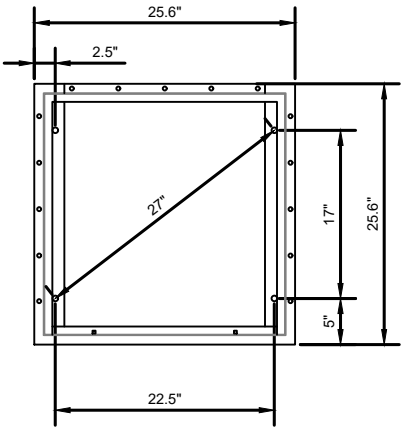
MANUFACTURER:	ERICSSON
MODEL:	UT_E6160_AC_V2 – SITE SUPPORT CABINET
DIMENSIONS:	63" x 25.6" x 33.46" (H x W x D)
WEIGHT:	434.31 LBS (EMPTY POWER RACK AND USER SPACE)



REAR VIEW

NOTE:

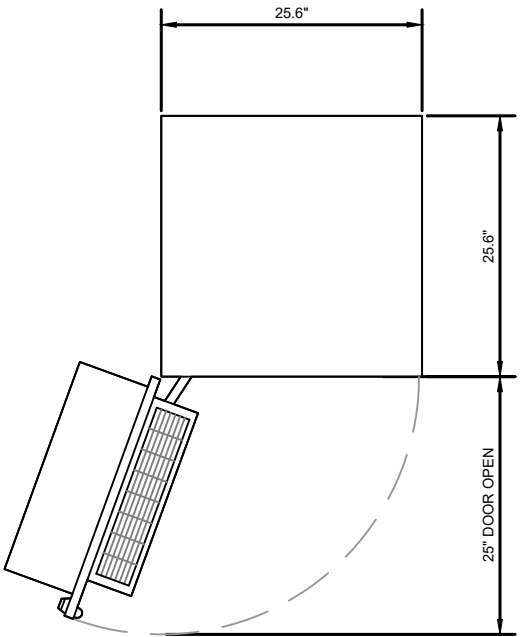
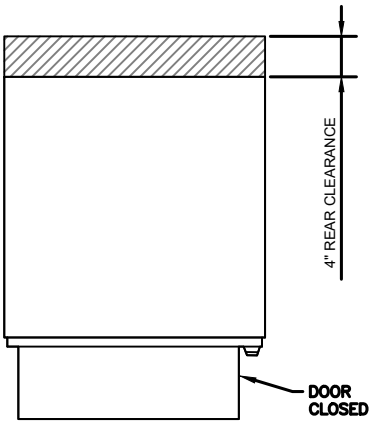
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
- CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING



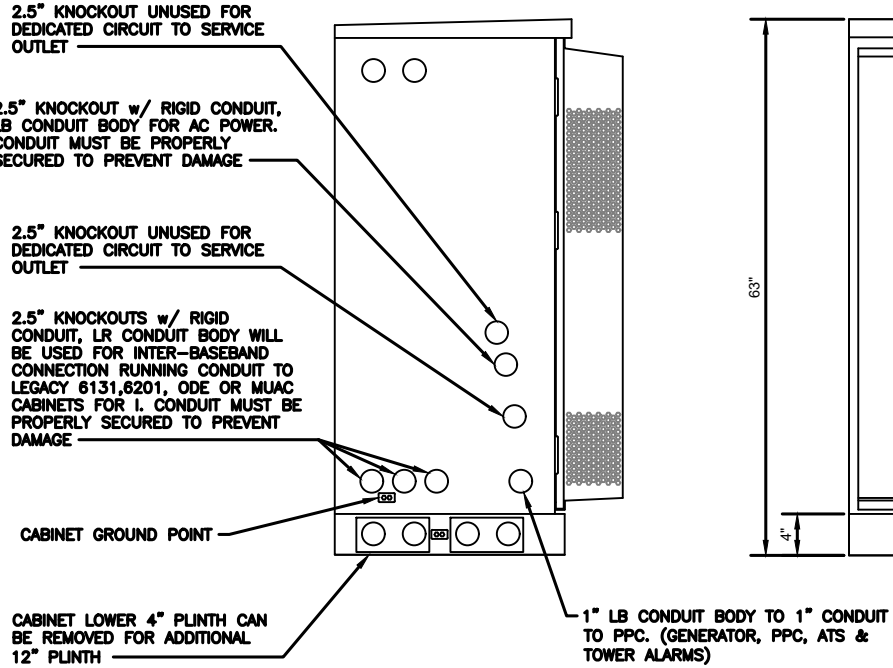
BOLT DOWN PATTERN

GROUNDING NOTE:

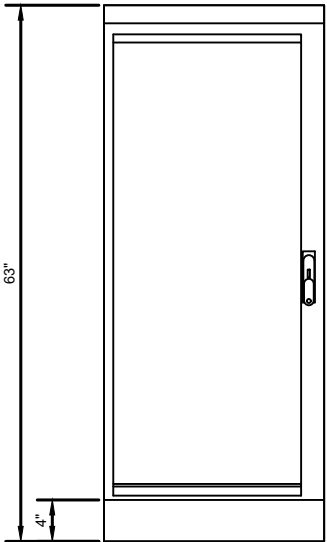
"CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED."



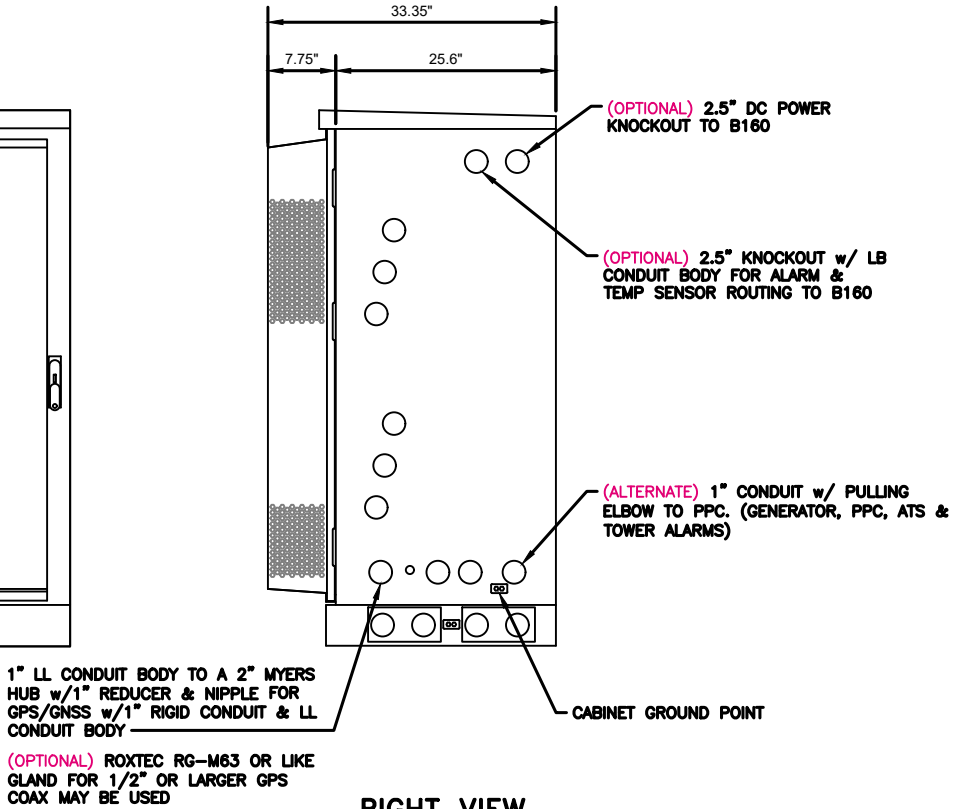
PLAN VIEW



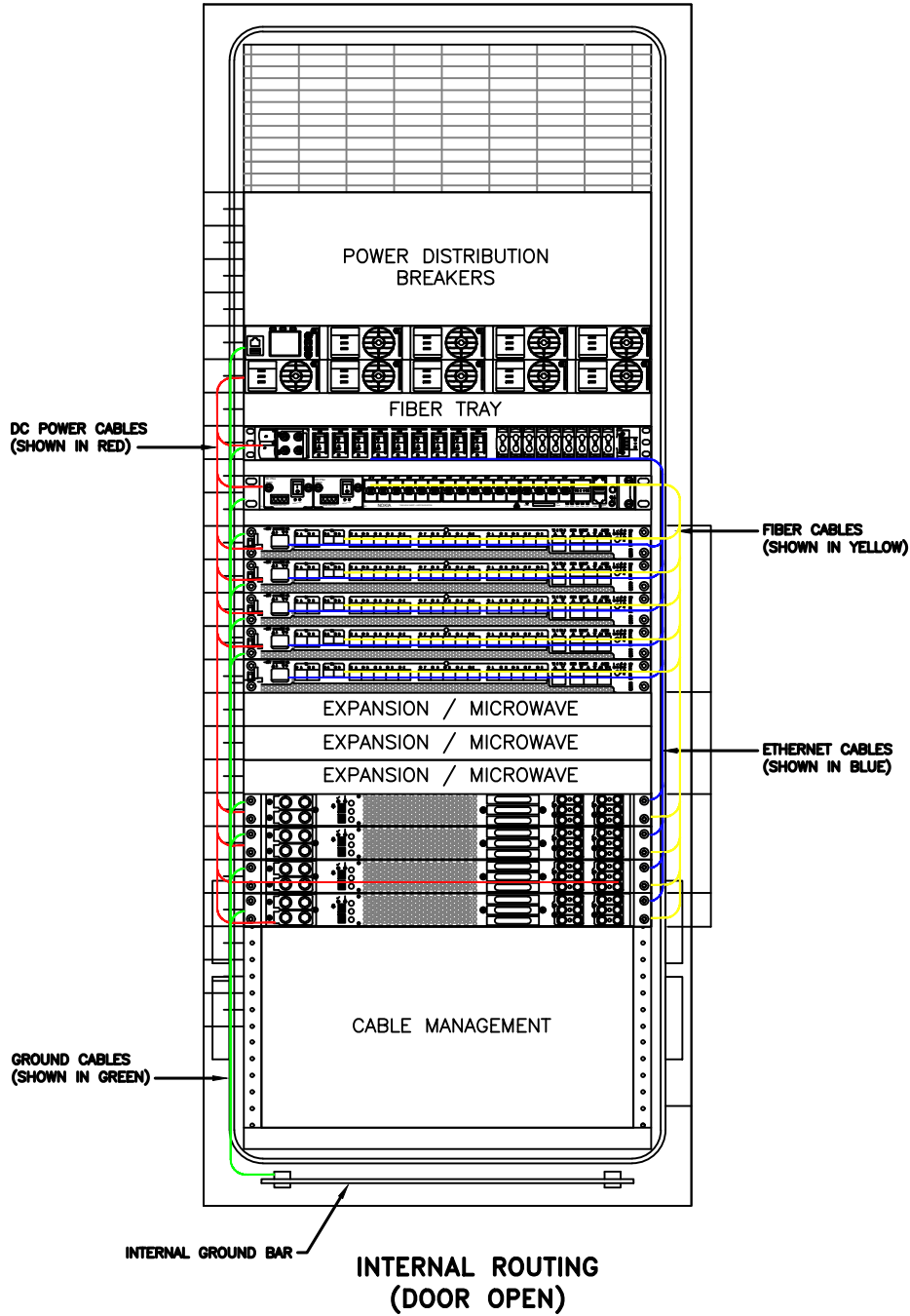
LEFT VIEW



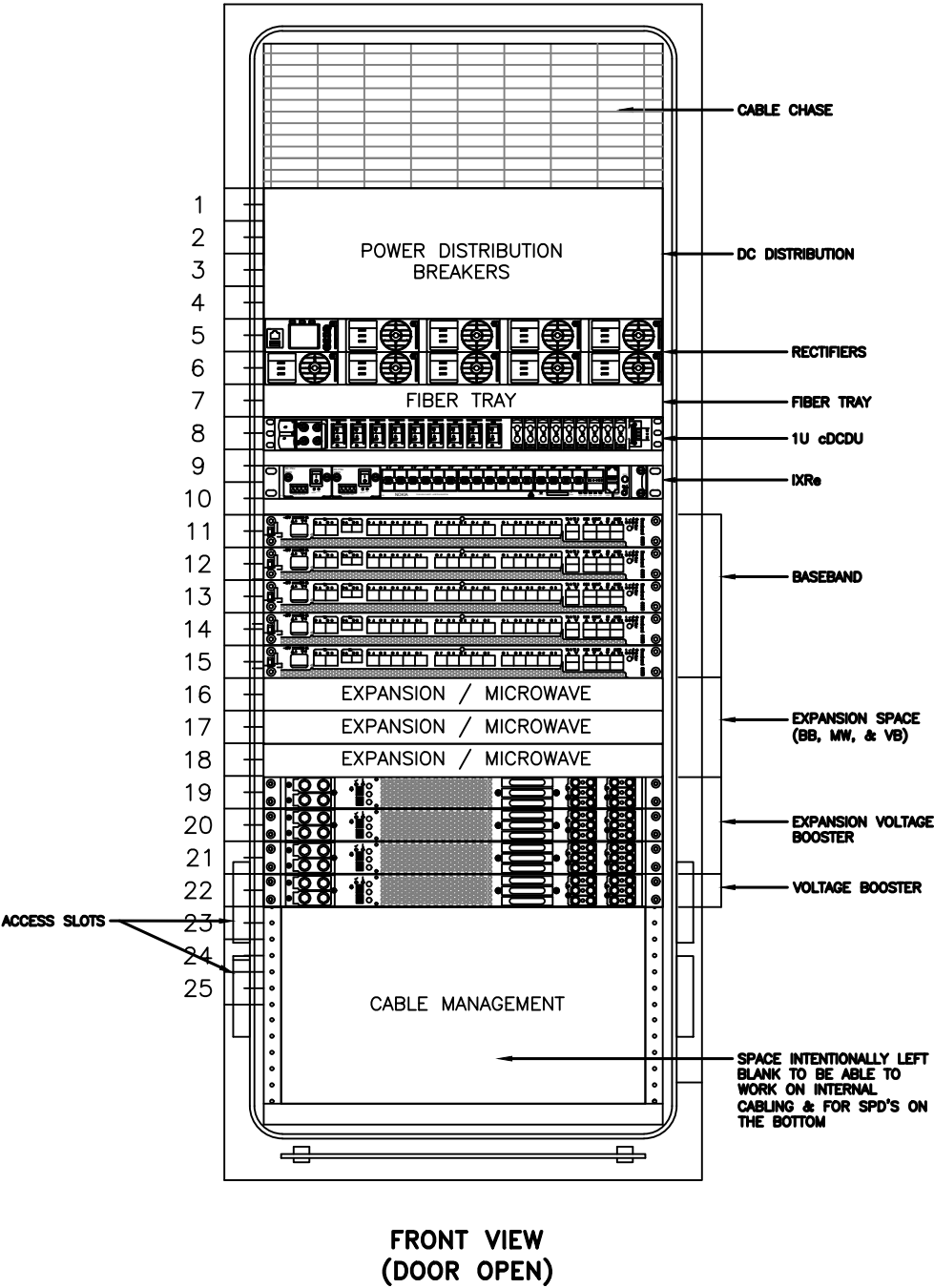
FRONT VIEW



RIGHT VIEW



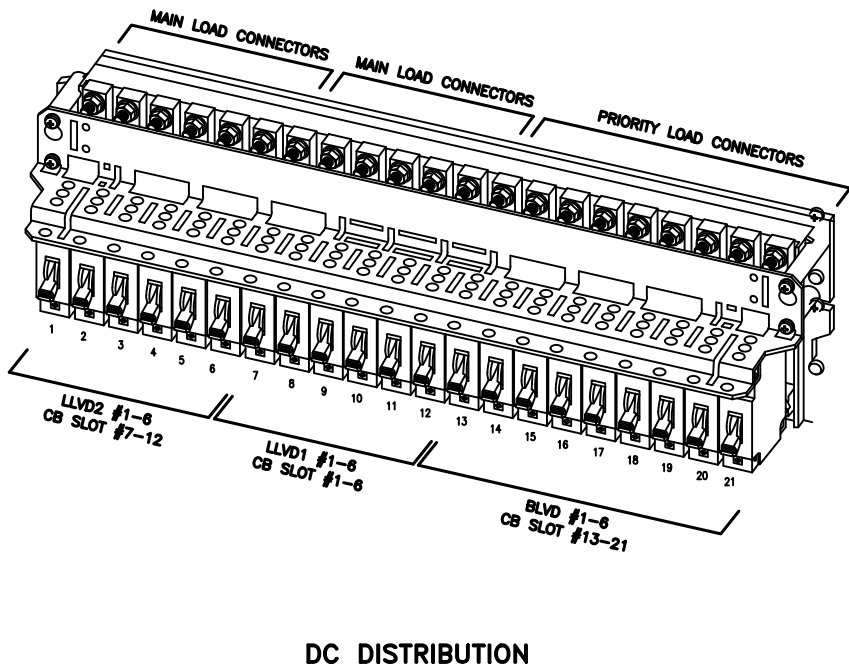
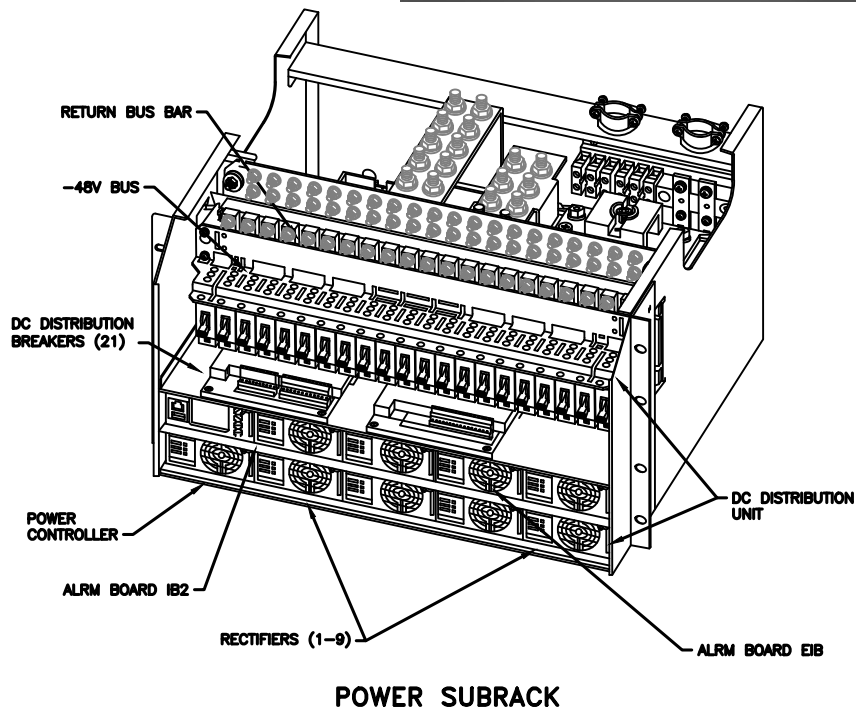
RACK ASSIGNMENTS	
RU SLOTS	DESCRIPTION
1	POWER DISTRIBUTION BREAKERS
2	
3	
4	RECTIFIER SHELF
5	
6	FIBER TRAY
7	
8	cDCDU
9	BACKHAUL ROUTER
10	
11	1ST BASEBAND
12	2ND BASEBAND
13	3RD BASEBAND
14	4TH BASEBAND
15	5TH BASEBAND
16	EXPANSION - MICROWAVE
17	
18	
19	EXPANSION / PSU
20	
21	
22	VOLTAGE BOOSTER
23	OPEN SPACE FOR SPD ACCESS
24	
25	



NOTE:
THIS IS FOR REFERENCE ONLY, CHECK FOR SPECIFIC DETAIL
IN T-MOBILE CABINET SPECIFIC INSTALLATION GUIDES

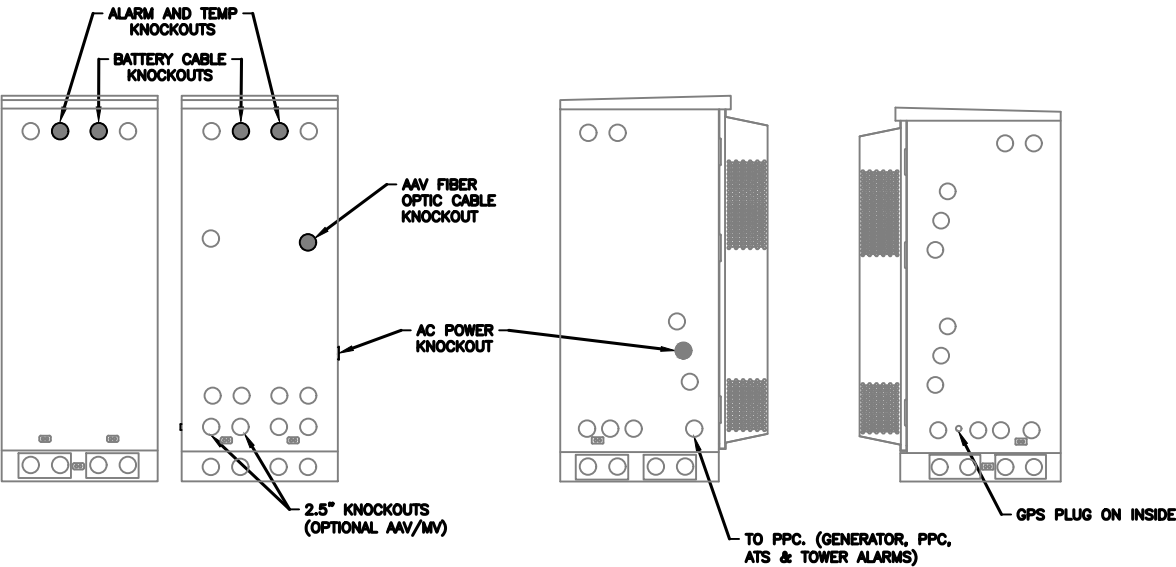
CR SLOT	CKT#	3 Sector B12/71-Radio 4449 B25/66-Radio 4415 B25-Radio 4424 B41-Air 6449 or 6419		3 Sector B12/71-Radio 4480 B25/66-Radio 4460 B41-Air 6419 or Radio 88635		4 Sector B12/71-Radio 4480 B25/66-Radio 4460 B41-Air 6419 or Radio 88635		6 Sector B12/71-Radio 4480 B25/66-Radio 4460 B41-Air 6419 or Radio 8863 (Escalator Only)	
		1	2	3	4	5	6	7	8
1	LV01 47.0V	1	1	1	1	1	1	1	1
2		2	2	2	2	2	2	2	2
3		3	3	3	3	3	3	3	3
4		4	4	4	4	4	4	4	4
5	LV02 45.1V	5	5	5	5	5	5	5	5
6		6	6	6	6	6	6	6	6
7		7	7	7	7	7	7	7	7
8		8	8	8	8	8	8	8	8
9	BLVD 43.2V	9	9	9	9	9	9	9	9
10		10	10	10	10	10	10	10	10
11		11	11	11	11	11	11	11	11
12		12	12	12	12	12	12	12	12
13	LV03 47.0V	13	13	13	13	13	13	13	13
14		14	14	14	14	14	14	14	14
15		15	15	15	15	15	15	15	15
16		16	16	16	16	16	16	16	16
17	LV04 47.0V	17	17	17	17	17	17	17	17
18		18	18	18	18	18	18	18	18
19		19	19	19	19	19	19	19	19
20		20	20	20	20	20	20	20	20
21	LV05 47.0V	21	21	21	21	21	21	21	21
22		22	22	22	22	22	22	22	22
23		23	23	23	23	23	23	23	23
24		24	24	24	24	24	24	24	24

See Breaker Tables for breaker sizes.
α = Alpha, β = Beta, γ = Gamma, δ = Delta, ε = Epsilon, ζ = Zeta

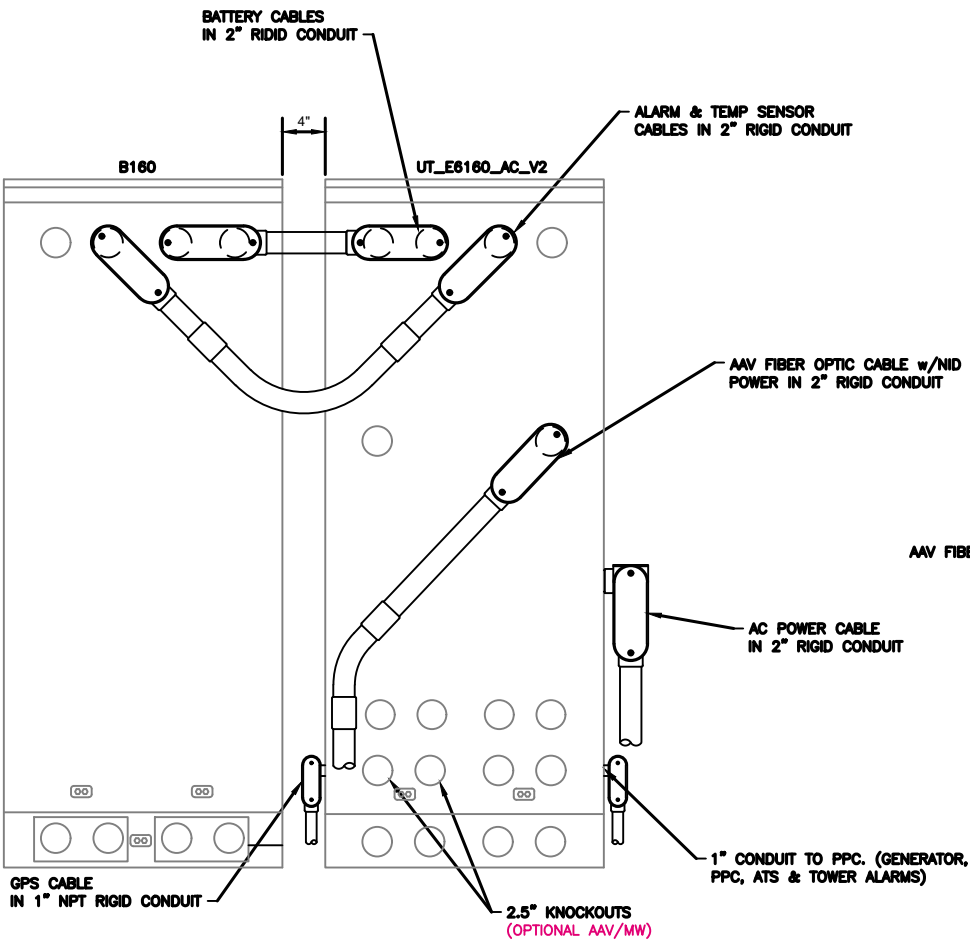


NOTE:

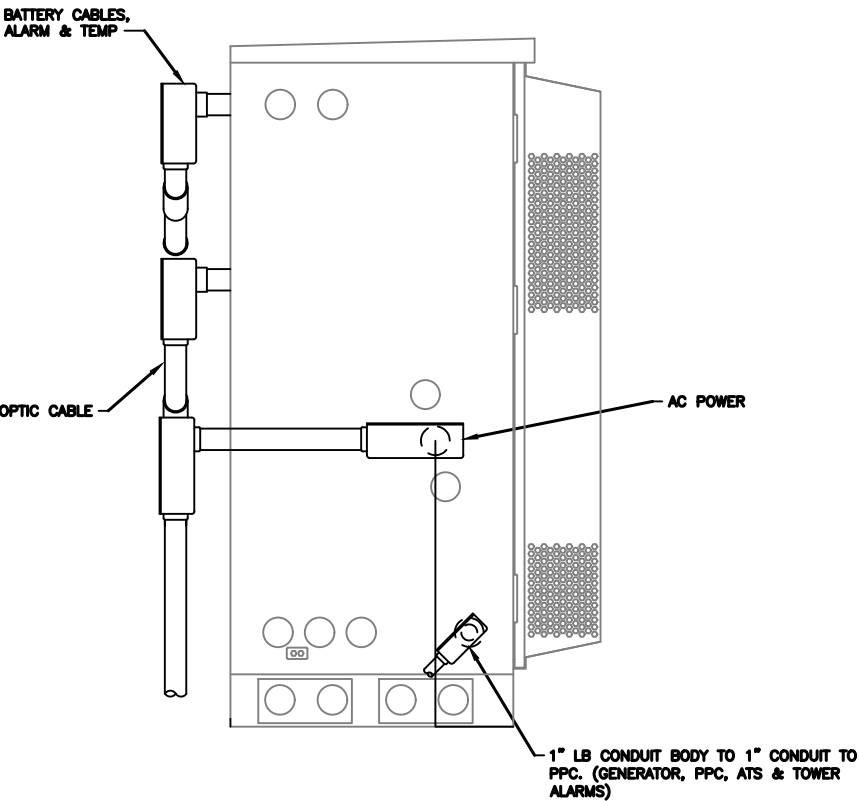
- 1. ALL CONDUIT AND FITTING ENTRANCES INTO CABINETS AND ENCLOSURES MUST UTILIZE MYERS OR EQUIVALENT HUBS TO PREVENT WATER ENTRY/SEEPAGE INTO CABINETS AND ENCLOSURES.
- 2. (LIQUIDFLEX) FLEXIBLE METALLIC CONDUIT (LFMC) & ASSOCIATED FITTINGS CAN BE USED AS NEEDED BUT ONLY FOR TIGHT CONDUIT BENDS AND RUNS SUBJECT TO UL AND NEC LIMITATIONS. 6' MAX PER CONDUIT RUN.
- 3. "DOOR HEX HOOD CLEARANCE MUST BE CONSIDERED WHEN INSTALLING AC POWER CONDUIT BODY TO MYERS HUB BY KEEPING THE CONDUIT BODY AS CLOSE TO THE CABINET AS POSSIBLE.
- 4. PULLING ELBOWS MAY BE USED IN LIEU OF A CONDUIT BODIES WHEN CLEARANCE IS LIMITED.
- 5. ALL EXTERNAL ALARM CONDUITS ARE TOO TERMINATE AT THE PPC WITH A SINGLE 1" ALARM CONDUIT TO THE UT_E6160_AC_V2.



CONDUIT LOCATIONS



REAR VIEW

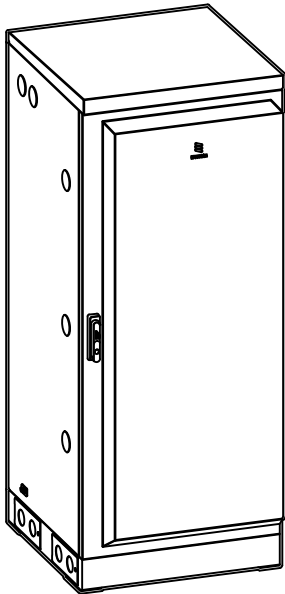


SIDE VIEW

NOTE:
(OPTIONAL) ROXTEC RG-M63 OR LIKE GLAND FOR 1/2" OR LARGER MW COAX MAY BE USED

NOTE:
(OPTIONAL) ROXTEC RG-M63 OR LIKE GLAND FOR 1/2" OR LARGER GPS COAX MAY BE USED

MANUFACTURER:	ERICSSON
MODEL:	B160 BATTERY CABINET
DIMENSIONS:	63" x 25.6" x 29.5" (H x W x D)
WEIGHT:	295 LBS (WITHOUT BATTERIES)

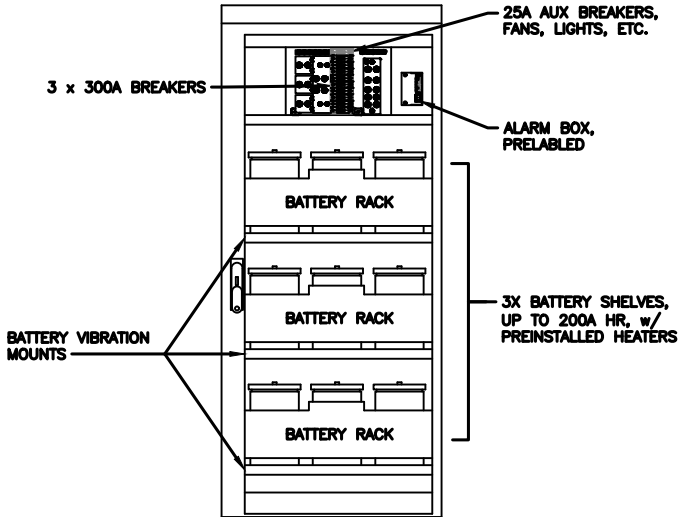


2.5" KNOCKOUTS w/ RIGID CONDUIT, LB CONDUIT BODY FOR ALARM CABLE & TEMP SENSOR ROUTING. CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE

2.5" KNOCKOUTS w/ RIGID CONDUIT, LB CONDUIT BODY FOR BATTERY CABLE CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE

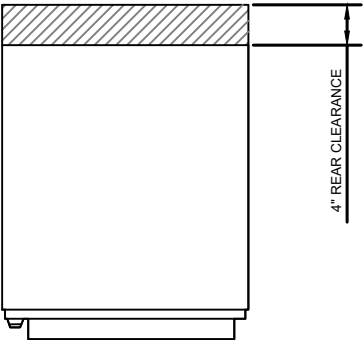
CABINET GROUND POINTS

REAR VIEW



FRONT VIEW
(DOOR OPEN)

- NOTE:
- CORRECT KNOCKOUT TOOL REQUIRED FOR PUNCHING KNOCKOUTS. DO NOT DRILL THROUGH KNOCKOUTS
 - CONDUIT MUST BE PROPERLY SECURED TO PREVENT DAMAGE TO CABINETS AND OR CABLING

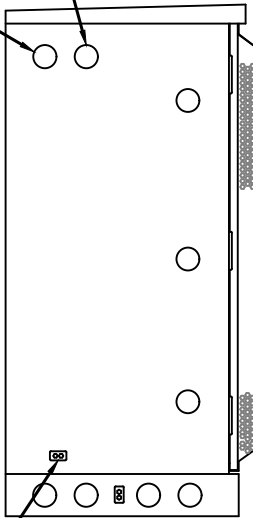


4" REAR CLEARANCE

GROUNDING NOTE:
"CABINET GROUNDING TO USE A SINGLE, #2 BTCW CONDUCTOR, W/ 2-HOLE, 1" C-C, LONG BARREL, WINDOW LUG, IN 3/4" LFNC TO GROUND RING. PLINTH GROUNDING IS NOT REQUIRED."

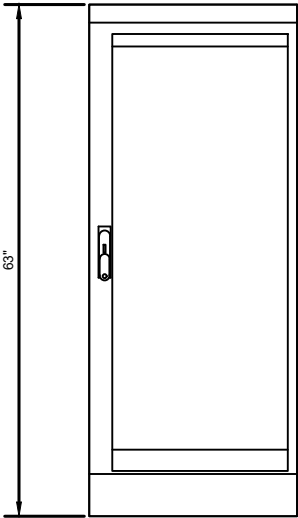
(OPTIONAL) 2.5" KNOCKOUTS FOR ALARM & TEMP SENSOR ROUTING TO 6160

(OPTIONAL) 2.5" DC POWER KNOCKOUTS TO 6160

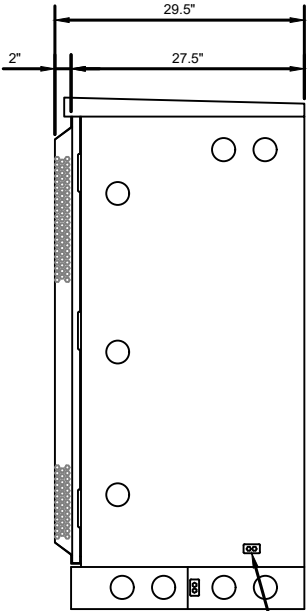


CABINET GROUND POINT

LEFT VIEW

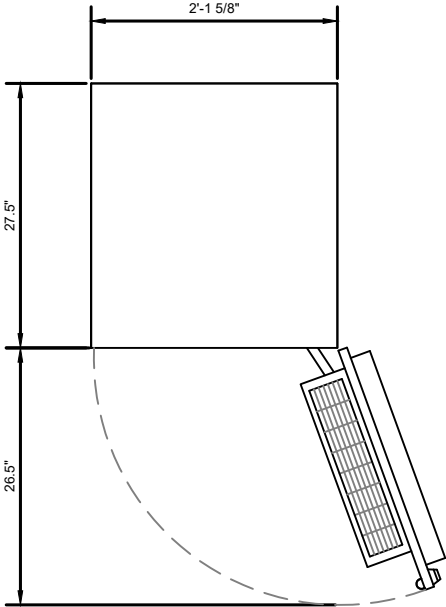


FRONT VIEW



CABINET GROUND POINT

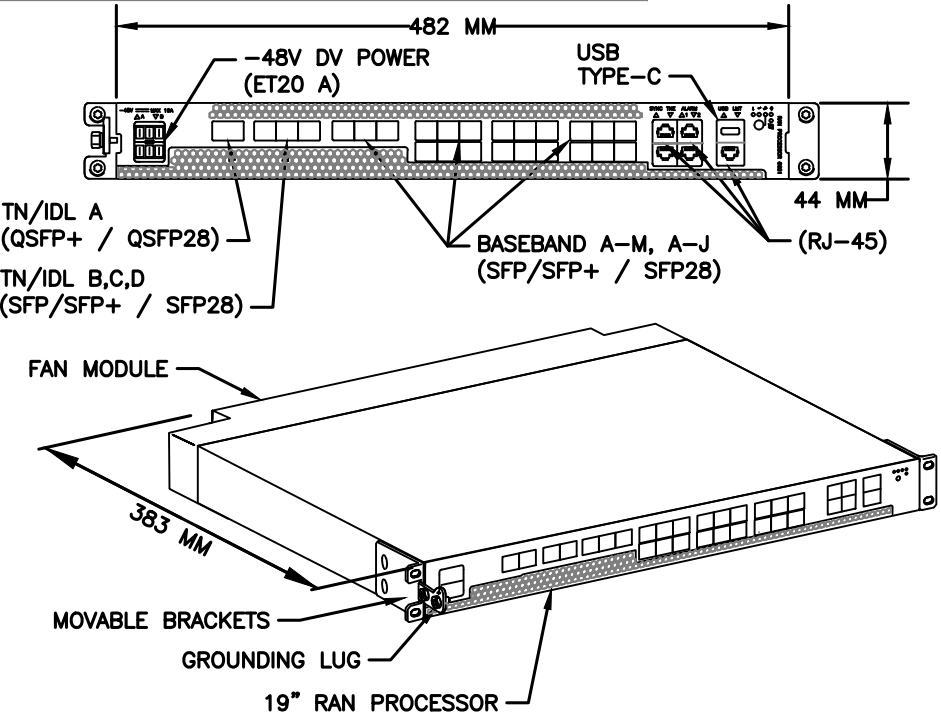
RIGHT VIEW



PLAN VIEW

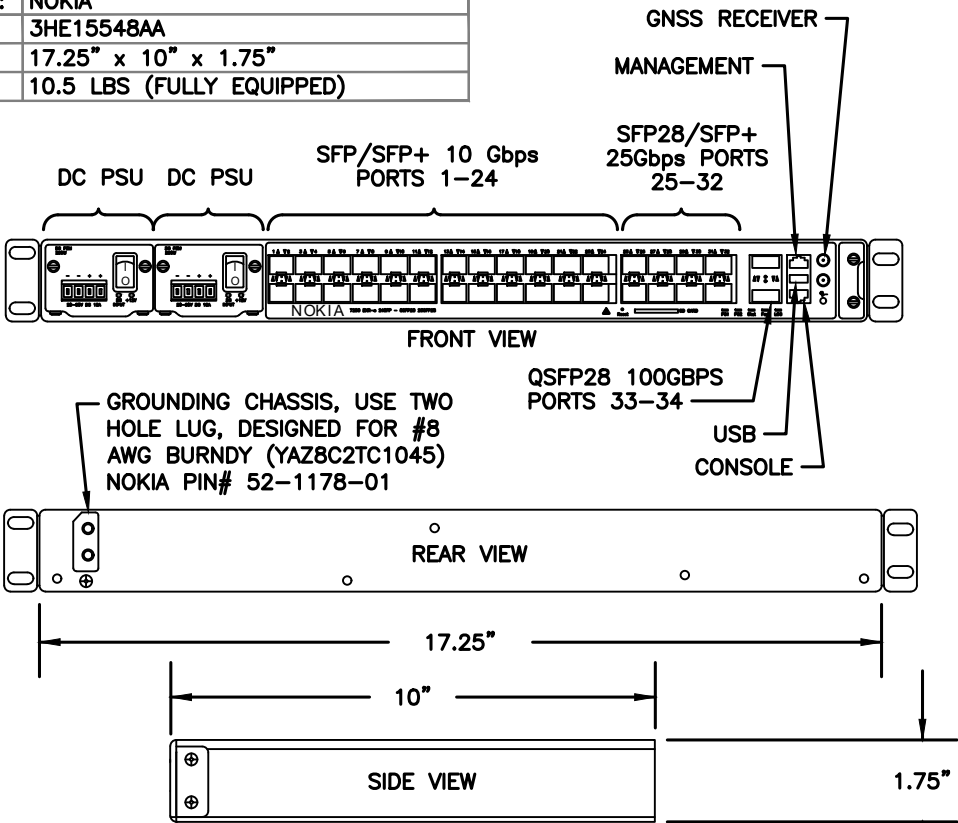
B160 ERICSSON SITE SUPPORT BATTERY CABINET

MANUFACTURER:	ERICSSON
MODEL:	6672 RAN PROCESSOR (KDU1370114/11)
DIMENSIONS:	44 MM X 482 MM X 383 MM (H" X W" X D")
WEIGHT:	8 KG



1 34916 - ERICSSON 6672 RAN PROCESSOR
SCALE: N.T.S.

MANUFACTURER:	NOKIA
MODEL:	3HE15548AA
DIMENSIONS:	17.25" x 10" x 1.75"
WEIGHT:	10.5 LBS (FULLY EQUIPPED)



1 34097 - NOKIA 7250 IXR-e ROUTER w/ GNSS
SCALE: N.T.S.

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

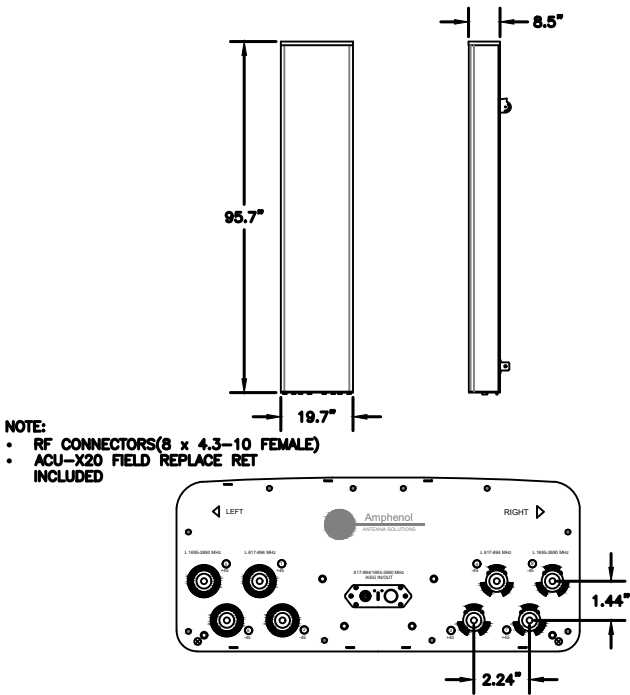
SHEET NUMBER:

R-607

REVISION:

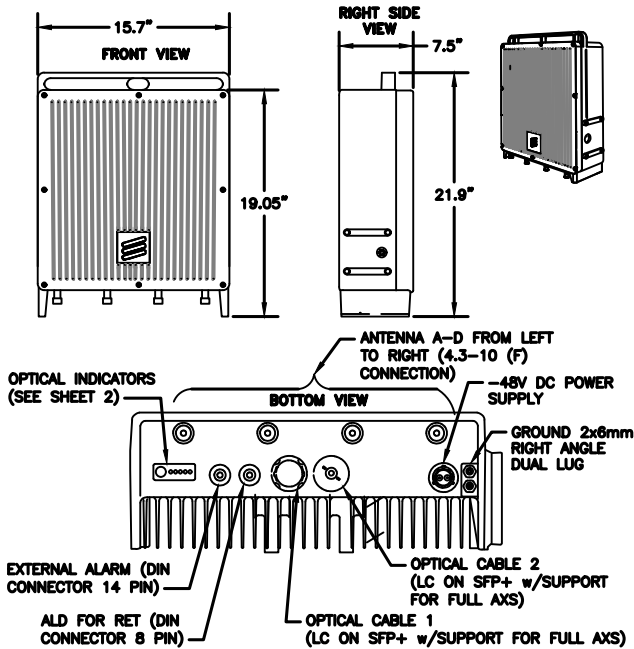
0

MANUFACTURER:	AMPHENOL
MODEL:	APXVAALL24M-U-J20
DIMENSIONS:	95.7" x 19.7" x 8.5" (H x W x D)
WEIGHT:	86 LB
BAND:	MID BAND (5-8 PORT)
MOUNTING KIT:	APM40-5E BEAM TILT KIT & APM40-E10T (19.4 LBS) INCLUDED



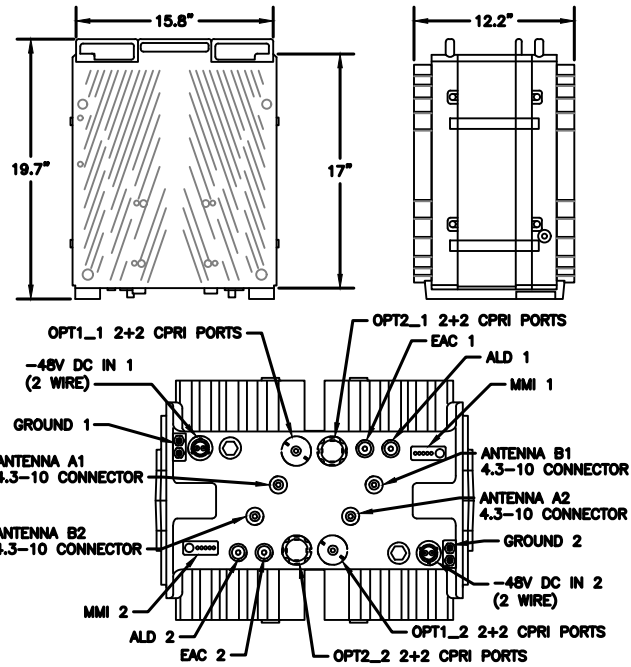
1 34877 - RFS APXVAALL24M-U-J20
SCALE: N.T.S.

MANUFACTURER:	ERICSSON
MODEL:	4480 RADIO (KRC 161 922/1)
DIMENSIONS:	21.9" x 15.7" x 7.5" (H x W x D)
MODEL BAND:	B71, B85 FOR NR AND LTE
WEIGHT:	81 LBS
BRACKET WEIGHT:	3.75 LBS (MULTI ERS #109 1973/2)



2 34372 - ERICSSON 4480 RADIO
SCALE: N.T.S.

MANUFACTURER:	ERICSSON
MODEL:	4460 RADIO B2/25 B66 (KRC 161 912/3)
DIMENSIONS:	19.7" x 15.8" x 12.2" (H" x W" x D")
WEIGHT:	109 LBS
BRACKET WEIGHT:	4.8 LBS (ERS HEAVY #SXX1255993/1)



3 34373 - ERICSSON 4460 RADIO B2/25 B66
SCALE: N.T.S.

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER:

R-608

REVISION:

0



Eng. Number 14912089_C8_01
December 23, 2024
Page 1

Antenna Mount Analysis Report

Mount Type : 10.5 ft Sector
ATC Asset Name : MOUNT ZION NY
ATC Asset Number : 10330
Engineering Number : 14912089_C8_01
Mount Elevation : 212.0 ft
Carrier : T-Mobile
Carrier Site Name : Mt Zion
Carrier Site Number : UP50577A
Site Location : 366 Mount Zion Rd
Marlboro, NY 12542-5020
41.640933, -74.020889
County : Ulster
Date : December 23, 2024
Max Usage : 91%
Result : Contingent Pass

Prepared By:
Yagmur Topcuoglugil Isik, P.E.
TEP # 59023.1042194

Reviewed By:



Michael Berger
Digitally signed by Michael Berger
Date: 2025.01.02 16:11:13 -05'00'

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for T-Mobile at 212.0 ft.

Supporting Documents

Spec. Sheet	Spec Sheet for Site Pro VFA10-HD
RFDS	RFDS dated November 5, 2024
Site Specific Study	ICE Study dated, August 23, 2019

Analysis

This antenna mount was analyzed using RISA-3D v22 analysis software.

Basic Wind Speed:	113 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	68 mph (3-Second Gust) w/ 0.5 in. radial ice thickness
Codes:	ANSI/TIA-222-I
Risk Category:	II
Exposure Category:	B
Topographic Procedure:	Method 2
Topographic Feature:	Hill
Crest Height:	217 ft
Crest Length:	2360 ft
Spectral Response:	Ss = 0.21, S1 = 0.048
Site Class:	D - Stiff Soil
Live Loads:	Lm = 500 lbs*, Lv = 250 lbs*

*Live Load(s) reduction is confirmed to either not govern or not be applicable
**Wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-22 Section 26.5.3, IBC Section 1609.3, and TIA-222-I Section 2.6.6.2.2.
***Ice and concurrent wind pressures have been determined per the site-specific climatic study in accordance with ASCE 7-22 Section 10.1.1, IBC Section 1614, and TIA-222-I Section 2.6.4.1.

Conclusion

Based on the analysis results, the antenna mount meets the requirements per the applicable codes listed above. The mount can support the equipment as described in this report.

- Analysis is based on new Site Pro VFA10-HD-NPNH Sector Mounts.
- Install (9) SitePro P30120 2.9" O.D. x 10'-0" Mount Pipes to accommodate the proposed antenna installation. Utilize Site Pro FCX45-U Crossover Kits.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact MountAnalysis@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

SUPPLEMENTAL

SHEET NUMBER: R-610
REVISION: 0

