



BELLINGHAM ZONING BOARD

10 MECHANIC STREET
BELLINGHAM, MASSACHUSETTS 02019
(508) 657-2893 ZoningBoard@bellinghamma.org

SPECIFY TYPE OF APPLICATION

(circle)

Appeal

Special Permit

Variance

APPEAL OF BUILDING INSPECTORS DECISION:

- ☐ Please attach a copy of the Building Inspector's letter/decision.

SPECIAL PERMIT: (check all that apply)

- | | | |
|---|---|--|
| <input type="checkbox"/> Principal Use | <input type="checkbox"/> Non-Conforming Situation | <input type="checkbox"/> Flood Plain |
| <input checked="" type="checkbox"/> Accessory Use | <input type="checkbox"/> Home Occupation | <input type="checkbox"/> Comprehensive Permit |
| <input type="checkbox"/> Multi-Family Housing | <input type="checkbox"/> Earth Removal | <input type="checkbox"/> Family Apartment <input type="checkbox"/> Other |

VARIANCE: (check all that apply)

- | | | |
|---|---------------------------------------|--|
| <input type="checkbox"/> Rear Yard Setback | <input type="checkbox"/> Area | <input type="checkbox"/> Lot Width |
| <input type="checkbox"/> Side Yard Setback | <input type="checkbox"/> Lot Frontage | <input type="checkbox"/> Percent Area Building |
| <input type="checkbox"/> Front Yard Setback | | |

Petitioner:(type/print) Brian Martinelli for AT&T

Signature _____

Email bmartinelli@clinellc.com

Address 750 W. Center St., West Bridgewater, MA Phone 856-701-3372

Property Owner:

Signature American Tower - See LOA

Email _____

Address 236 Maple St., Bellingham, MA Phone 718-926-4500

Address of Subject Premises 236 Maple Street

If no address, description of property _____



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Dimensions of Lot:

Frontage: 300 Depth: 669
Area: 2.47 acres Lot Width: 250

Zoning District(s) subject premises located: Suburban

Assessor's Map: 37 Lot: 5

Describe proposed activity:

Extend the existing 122.5' monopole 20' to a top of 142.5' with a new antenna mount and up to 9 antennas. Also add equipment cabinets on the existing 10'x12' concrete pad.

Are there any buildings on the premises (if so, please describe them including their dimension)?

1 Story warehouse and what appears to be a large shed/ barn.

Describe the subject premises (terrain, septic system, description of area, etc.)

Flat terrain with piles of dirt and mulch for business.

How long have you owned the subject premises? _____**What is the present use of the subject premises?**

Mulch and landscaping supply. Cell tower is pre existing.

State grounds for the Special Permit/Variance or Appeal: (please be specific)

Relief is appropriate because this cell tower is pre existing and approved by the municipality and co-location is preferred rather than building a new tower.

I attest that I, to the best of my knowledge have paid any and all real estate taxes, excise taxes, license and/or permit fees.

Owner: See LOA

Signature _____ Date _____

Applicant: Brian Martinelli

Signature Brian Martinelli Date 11/3/22

Effective 8/2017

Please note: This application cannot be processed unless initialed by the Town Collector:

Town Collector: _____ **Date:** _____



VICINITY MAP

CURRENT PROJECTS:

LTE Only 1C - PACE #: MRCTB048320
LTE 5C - PACE #: MRCTB048786
LTE 4C - PACE #: MRCTB048787
5G NR 1DR-1 - PACE #: MRCTB048788
LTE 2C - PACE #: MRCTB048781



AMERICAN TOWER®

ATC SITE NAME: RJ COBB
ATC SITE NUMBER: 91567
AT&T PACE NUMBER: MRCTB048320, MRCTB048786,
MRCTB048787, MRCTB048788, MRCTB048781
AT&T SITE ID: MA1833
AT&T FA CODE:15336751
AT&T SITE NAME: BELLINGHAM MAPLE STREET
SITE ADDRESS: 236 MAPLE STREET
BELLINGHAM, MA 02019-3019
AT&T MOBILITY
COLOCATION PLAN



LOCATION MAP



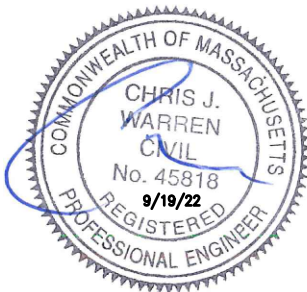
AMERICAN TOWER®
ATC TOWER SERVICES, LLC

INFINIGY®
ENGINEERING, PLLC
1033 WATERVLIT SHAKER RD
ALBANY, NY 12205

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| A | PRELIM | DB | 12/30/20 |
| B | PRELIM | SP | 08/15/22 |
| C | PRELIM | RCD | 08/16/22 |
| D | PRELIM | DGD | 09/14/22 |
| 0 | FOR CONSTRUCTION | DGD | 09/16/22 |

ATC SITE NUMBER:
91567
ATC SITE NAME:
RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

SEAL:



| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

TITLE SHEET

SHEET NUMBER:
G-001
REVISION:
0

COMPLIANCE CODE

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

- 2015 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
- 2014 NATIONAL ELECTRIC CODE (NEC)
- LOCAL BUILDING CODE
- CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: MASS ELECTRIC
PHONE: (800) 322-3223

TELEPHONE COMPANY: VERIZON
PHONE: (800) 919-9900



Know what's below.
Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

236 MAPLE STREET

BELLINGHAM, MA 02019-3019

COUNTY: NORFOLK

GEOGRAPHIC COORDINATES:

LATITUDE: 42.10234722

LONGITUDE: -71.44709444

GROUND ELEVATION: 212' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

ENGINEER:

INFINIGY ENGINEERING, PLLC
1033 WATERVLIT SHAKER RD
ALBANY, NY 12205

PROPERTY OWNER:

PINNACLE TOWERS INC
236 MAPLE STREET -
BELLINGHAM - MA - 02019

APPLICANT:

AT&T MOBILITY

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS IN A PROPOSED WIC SHELTER INSIDE A 10' X 20' GROUND SPACE, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.

TOWER WORK:

PROPOSED (3) SECTOR FRAMES, (9) ANTENNAS, (9) RRUS, (2) SQUIDS, (4) DC CABLES AND (1) FIBER TRUNK TO BE INSTALLED

GROUND WORK:

PROPOSED WIC SHELTER ON A EXISTING 9'-5" X 12'-3" CONCRETE PAD; 15'-0" ICE BRIDGE FROM WIC SHELTER TO EXISTING TOWER TO BE INSTALLED

PROJECT NOTES

- THE FACILITY IS UNMANNED.
- A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
- THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
- NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
- HANDICAP ACCESS IS NOT REQUIRED.

PROJECT LOCATION DIRECTIONS

495 TO EXIT 18. RTE 126 NORTH TO RIGHT ON MAPLE STREET. DRIVE INTO D&D LANDSCAPING SUPPLY. TOWER WILL BE IN PARKING LOT

SHEET INDEX

| SHEET NO: | DESCRIPTION: | REV: | DATE: | BY: |
|-----------|--------------------------------------|------|----------|-----|
| G-001 | TITLE SHEET | 0 | 09/16/22 | DGD |
| G-002 | GENERAL NOTES | 0 | 09/16/22 | DGD |
| C-001 | OVERALL SITE PLAN | 0 | 09/16/22 | DGD |
| C-101 | DETAILED SITE PLAN | 0 | 09/16/22 | DGD |
| C-102 | DETAILED EQUIPMENT LAYOUT | 0 | 09/16/22 | DGD |
| C-201 | TOWER ELEVATION | 0 | 09/16/22 | DGD |
| C-401 | ANTENNA INFORMATION & SCHEDULE | 0 | 09/16/22 | DGD |
| C-501 | CONSTRUCTION DETAILS | 0 | 09/16/22 | DGD |
| C-502 | CONSTRUCTION DETAILS | 0 | 09/16/22 | DGD |
| C-503 | CONSTRUCTION DETAILS | 0 | 09/16/22 | DGD |
| C-504 | CONSTRUCTION DETAILS | 0 | 09/16/22 | DGD |
| E-101 | OVERALL ELECTRICAL LAYOUT | 0 | 09/16/22 | DGD |
| E-102 | ENLARGED ELECTRICAL LAYOUT | 0 | 09/16/22 | DGD |
| E-103 | ELECTRICAL ONE-LINE & PANEL SCHEDULE | 0 | 09/16/22 | DGD |
| E-104 | DETAILED GROUNDING LAYOUT | 0 | 09/16/22 | DGD |
| E-501 | GROUNDING DETAILS | 0 | 09/16/22 | DGD |
| E-502 | GROUNDING DETAILS | 0 | 09/16/22 | DGD |
| R-601 | SUPPLEMENTAL | | | |
| R-602 | SUPPLEMENTAL | | | |
| R-603 | SUPPLEMENTAL | | | |
| R-604 | SUPPLEMENTAL | | | |
| R-605 | SUPPLEMENTAL | | | |
| R-606 | SUPPLEMENTAL | | | |
| R-607 | SUPPLEMENTAL | | | |
| R-608 | SUPPLEMENTAL | | | |
| R-609 | SUPPLEMENTAL | | | |
| | | | | |
| | | | | |
| | | | | |

GENERAL CONSTRUCTION NOTES:

1.

OWNER FURNISHED MATERIALS, AT&T MOBILITY "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 AT&T MOBILITY 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 AT&T MOBILITY REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE AT&T MOBILITY REP PRIOR TO PROCEEDING.
13.

EACH CONTRACTOR SHALL COOPERATE WITH THE AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MOBILITY MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23.

CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T MOBILITY SPECIFICATIONS AND REQUIREMENTS.
24.

CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T MOBILITY FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25.

ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T MOBILITY 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 AT&T MOBILITY 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.

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.
29.

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.
30.

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 AT&T MOBILITY REP. ANY WORK FOUND BY THE AT&T MOBILITY REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31.

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.
32.

AT&T MOBILITY FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T MOBILITY 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.
33.

AT&T MOBILITY 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 AT&T MOBILITY 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 AT&T MOBILITY UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
- B.

INSTALL ANTENNA AS INDICATE ON DRAWINGS AND AT&T MOBILITY 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 GREED 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 AT&T MOBILITY 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 4000 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. THE 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 DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL 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 TO OF 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 CONCORDIA. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
3.

CONTRACTOR SHALL FIELD LOCATE ALL BELOW GRADE GROUND LINES AND UTILITY LINES PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR RELOCATION OF ALL UTILITIES AND GROUND 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 INFINIGY ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH INFINIGY ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM INFINIGY ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



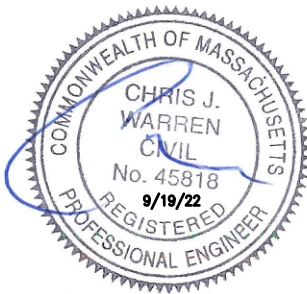
INFINIGY8
ENGINEERING, PLLC
1033 WATERVLIT SHAKER RD
ALBANY, NY 12205

| REV. | DESCRIPTION | BY | DATE |
|--------------|------------------|-----|----------|
| <div>A</div> | PRELIM | DB | 12/30/20 |
| <div>B</div> | PRELIM | SP | 08/15/22 |
| <div>C</div> | PRELIM | RCD | 08/16/22 |
| <div>D</div> | PRELIM | DGD | 09/14/22 |
| <div>0</div> | FOR CONSTRUCTION | DGD | 09/16/22 |

ATC SITE NUMBER:
91567
ATC SITE NAME:
RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET

SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

SEAL:



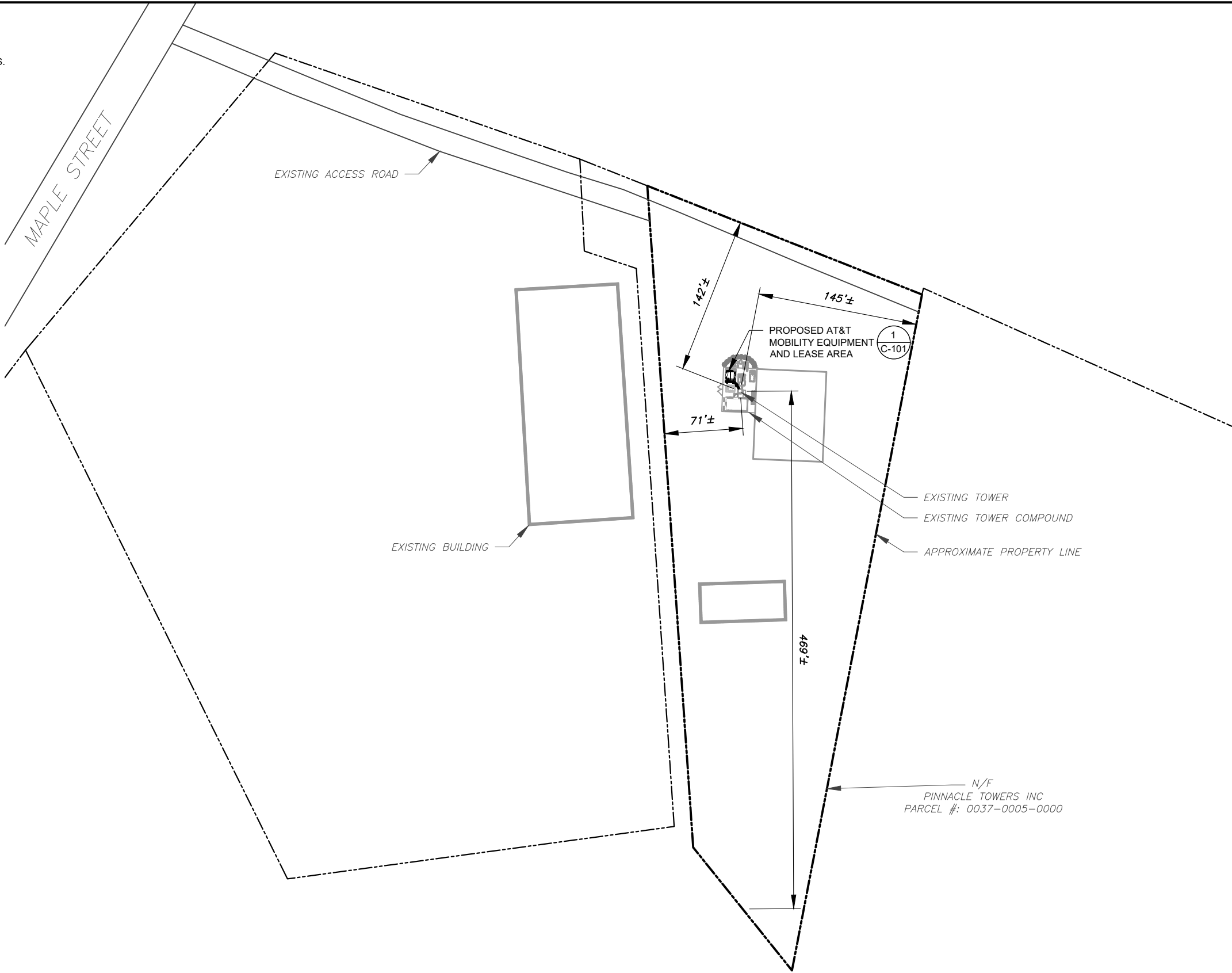
| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

GENERAL NOTES

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: G-002 | REVISION: 0 |
|-------------------------------|-----------------------|

NOTES:

1. BOUNDARY LINES OBTAINED FROM JURISDICTION COUNTY/CITY ONLINE GIS.
2. ZONING INFORMATION OBTAINED FROM ZONING ORDINANCE.



1 OVERALL SITE PLAN

0 100' 200'

SCALE: 1"=100' (11X17)
1"=50' (22X34)



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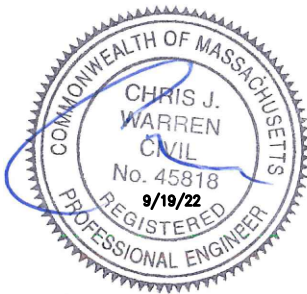
ATC SITE NUMBER:
91567

ATC SITE NAME:
RJ COBB

AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET

SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

SEAL:



| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
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| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

OVERALL SITE PLAN

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-001 | 0 |

SITE PLAN NOTES:

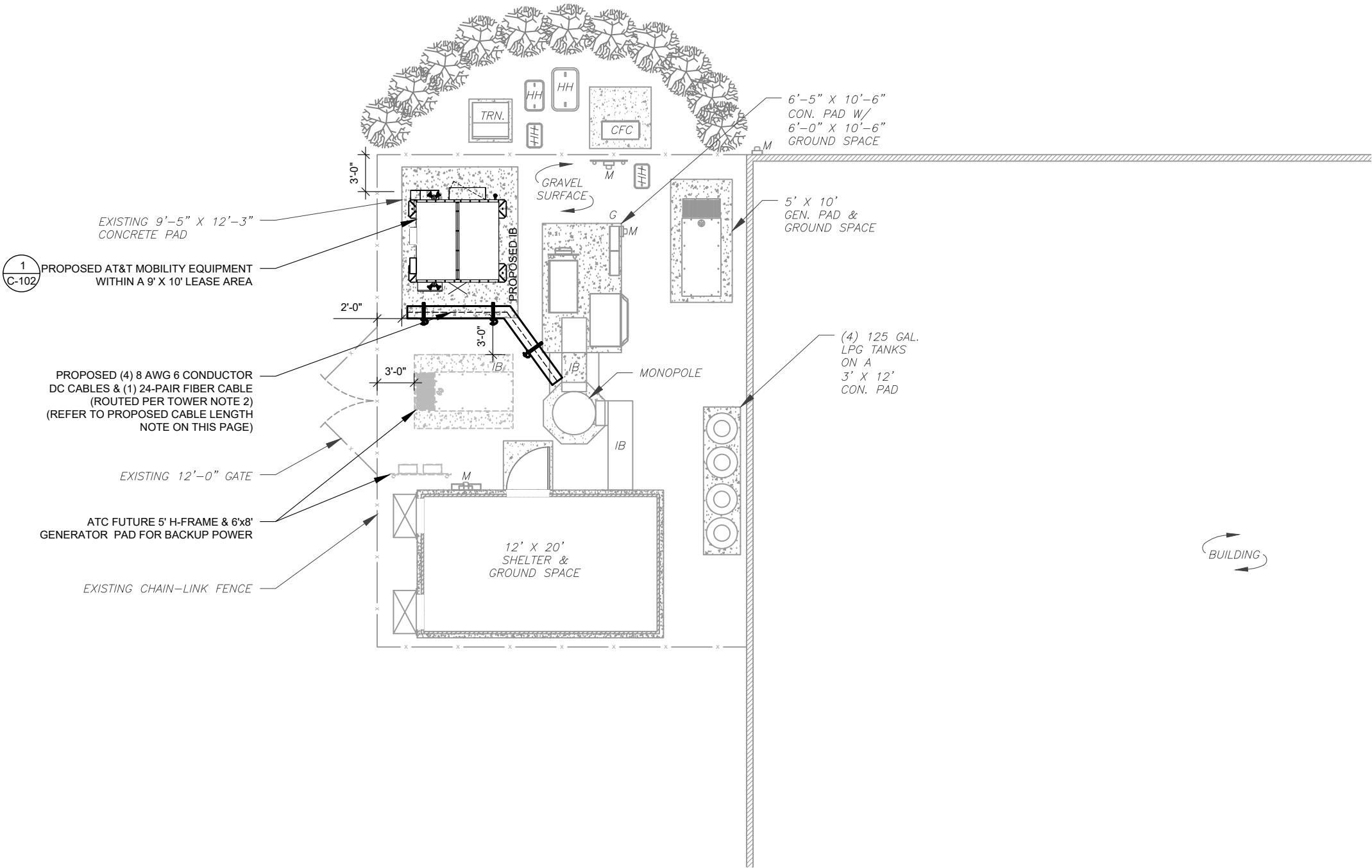
1.

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.
2.

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.
3.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE AT&T MOBILITY 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.

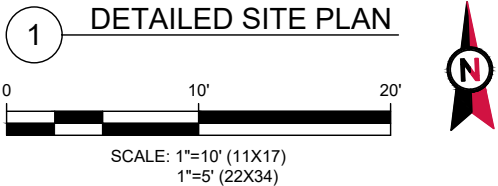
| LEGEND | |
|--------|---------------------------|
| ⊗ | GROUNDING TEST WELL |
| ATS | AUTOMATIC TRANSFER SWITCH |
| B | BOLLARD |
| CSC | CELL SITE CABINET |
| D | DISCONNECT |
| E | ELECTRICAL |
| F | FIBER |
| GEN | GENERATOR |
| G | GENERATOR RECEPTACAL |
| HH, V | HAND HOLE, VAULT |
| IB | ICE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



- PROPOSED CABLE LENGTH:**
1.

ESTIMATED LENGTH OF PROPOSED CABLE IS **155'**. 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.
2.

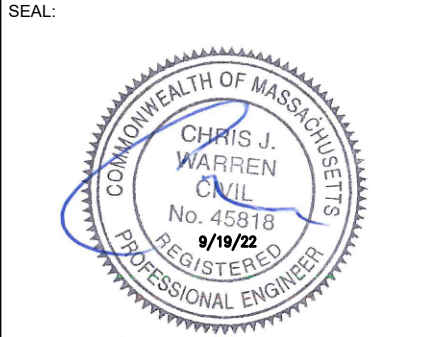
ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.



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ATC SITE NUMBER:
91567
ATC SITE NAME:
RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

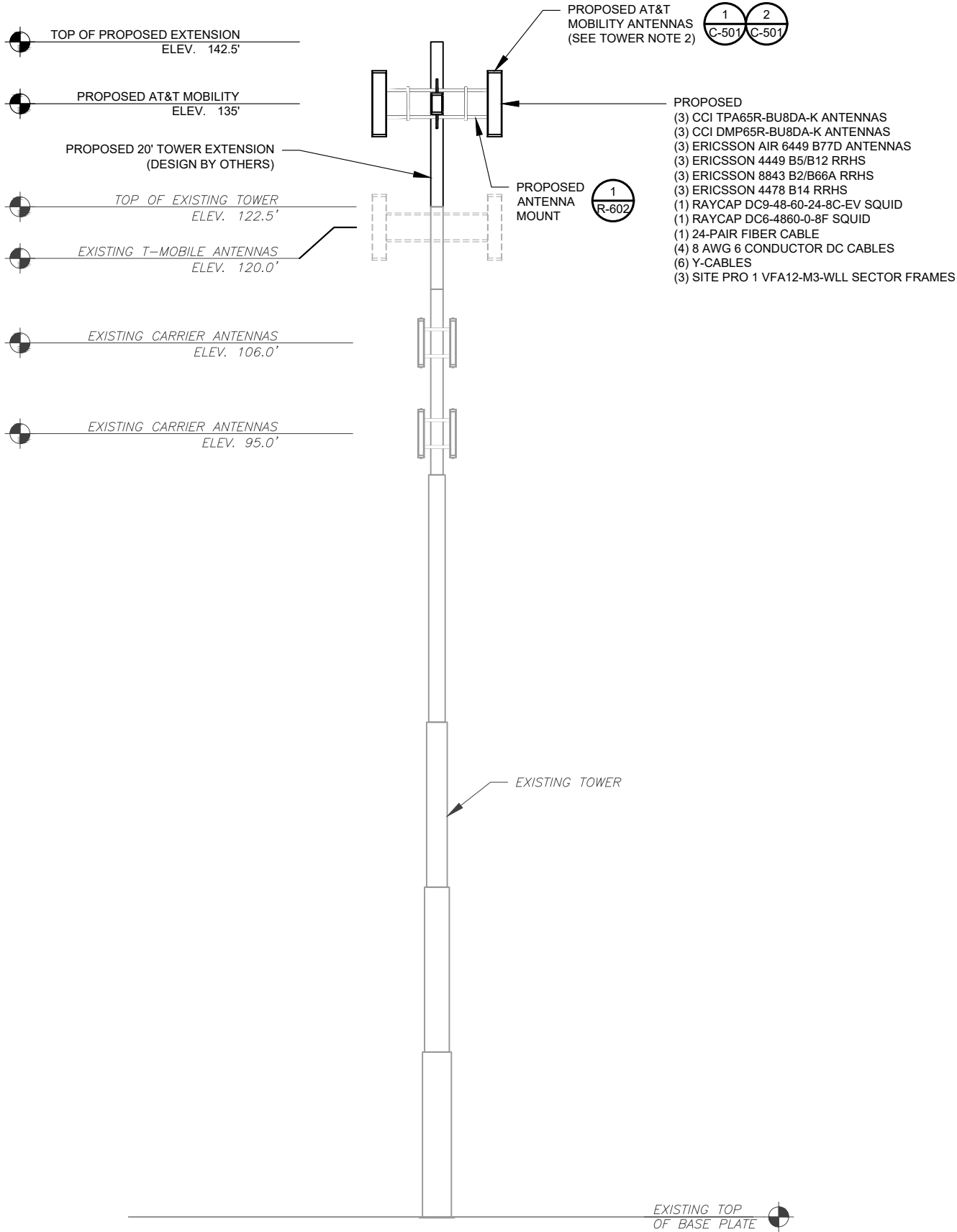


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|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

| DETAILED SITE PLAN | |
|-------------------------------|-----------------------|
| SHEET NUMBER: C-101 | REVISION: 0 |

EXISTING CONFIGURATION IS BASED ON RFDS.
CONTRACTOR TO VERIFY EXISTING CONDITIONS.

INFINIGY ENGINEERING HAS NOT EVALUATED THE
TOWER OR MOUNTS FOR THIS PROJECT AND
ASSUMES NO LIABILITY FOR ITS STRUCTURAL
INTEGRITY. REFER TO STRUCTURAL ANALYSIS
REPORT PRIOR TO CONSTRUCTION.



PER MOUNT ANALYSIS COMPLETED BY ATC,
DATED 03/25/2021, THE EXISTING MOUNT CAN
ADEQUATELY SUPPORT THE PROPOSED LOADING

PER STRUCTURAL ANALYSIS COMPLETED BY ATC,
DATED 12/04/20, THE EXISTING TOWER CAN NOT
ADEQUATELY SUPPORT THE PROPOSED LOADING.
A TOWER MODIFICATION DESIGN SHALL BE
COMPLETED AND MODIFICATION MUST BE
INSTALLED PRIOR TO THE INSTALLATION OF THE
PROPOSED ANTENNAS AND OTHER EQUIPMENT

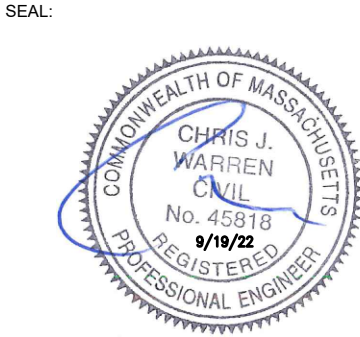
- TOWER NOTE:**
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. IF ADEQUATE SPACE EXISTS, ROUTE CABLES THROUGH ENTRY PORT HOLE, UP INSIDE OF MONOPOLE, AND THROUGH EXIT PORT HOLE. IF ROUTING OUTSIDE THE MONOPOLE, ATTACH CABLES USING STAND-OFF ADAPTERS MOUNTED TO TOWER USING STAINLESS STEEL BANDING. ADEQUATELY SECURE CABLES USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER.
 - TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)



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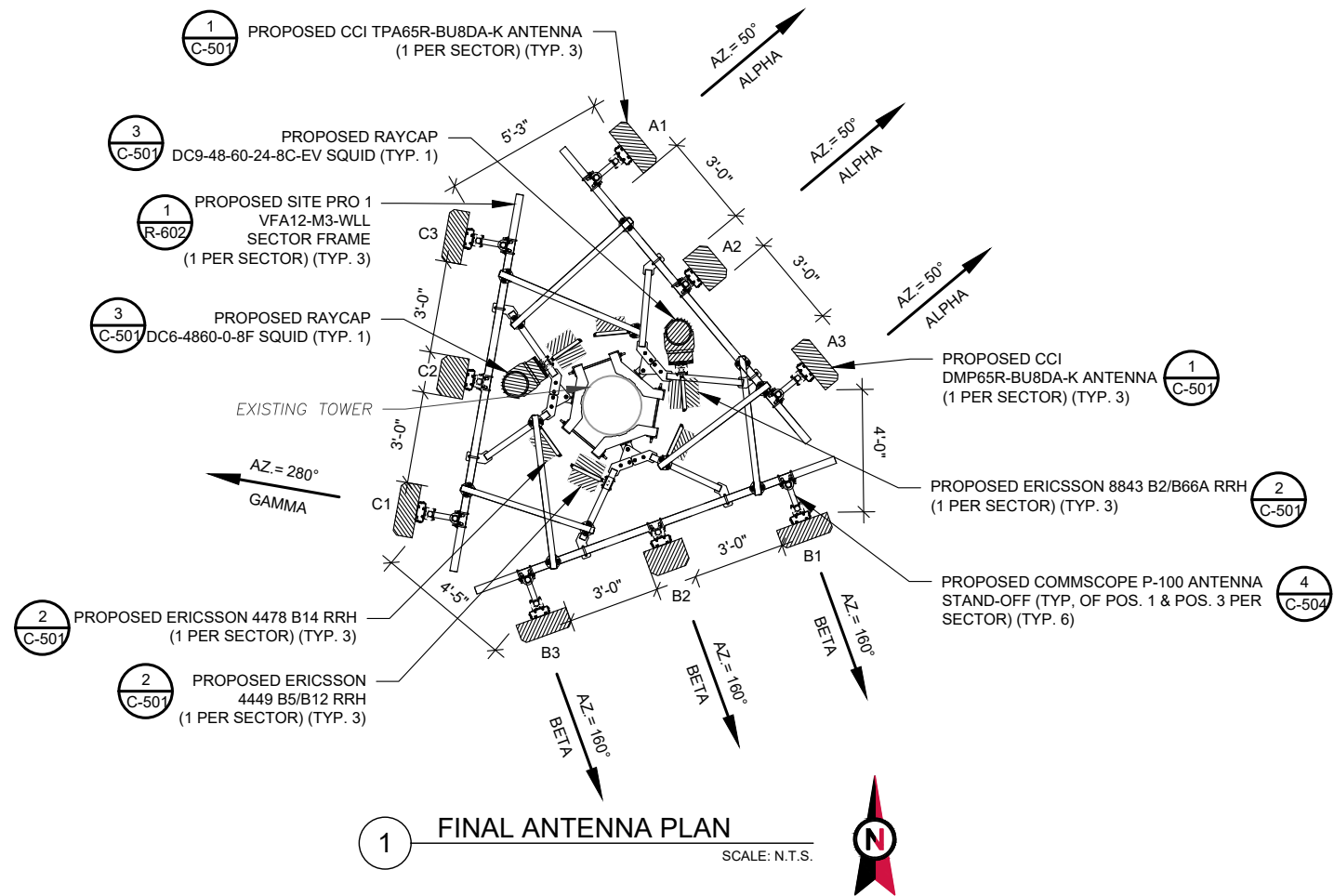
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ATC SITE NAME:
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AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019



| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

TOWER ELEVATION

SHEET NUMBER:
C-201
REVISION:
0



| FINAL ANTENNA SCHEDULE | | | | | | | | | | |
|--|------|------|-----------------|-----------------------------|-----------------------------|-------------|-------------|--------|------------------------------------|--------|
| LOCATION | | | ANTENNA SUMMARY | | | | | | NON ANTENNA SUMMARY | |
| SECTOR | RAD | AZ | POS | ANTENNA | BAND | MECH D-TILT | ELEC D-TILT | STATUS | ADDITIONAL TOWER MOUNTED EQUIPMENT | STATUS |
| ALPHA | 135° | 50° | A1 | CCI ANTENNAS TPA65R-BU8DA-K | LTE 700, LTE AWS | 0 | - | ADD | 4478 B14 | ADD |
| | | | A2 | ERICSSON AIR 6449 B77D | LTE 3.5 GHZ | 0 | - | ADD | - | - |
| | | | A3 | CCI ANTENNAS DMP65R-BU8DA-K | LTE 700, 5G 850 LTE 1900 | 0 | - | ADD | 4449 B5/B12 8843 B2/B66A | ADD |
| BETA | 135° | 160° | B1 | CCI ANTENNAS TPA65R-BU8DA-K | LTE 700, LTE AWS | 0 | - | ADD | 4478 B14 | ADD |
| | | | B2 | ERICSSON AIR 6449 B77D | LTE 3.5 GHZ | 0 | - | ADD | - | - |
| | | | B3 | CCI ANTENNAS DMP65R-BU8DA-K | LTE 700, 5G 850 LTE 1900 | 0 | - | ADD | 4449 B5/B12 8843 B2/B66A | ADD |
| GAMMA | 135° | 280° | C1 | CCI ANTENNAS TPA65R-BU8DA-K | LTE 700, LTE AWS | 0 | - | ADD | 4478 B14 | ADD |
| | | | C2 | ERICSSON AIR 6449 B77D | LTE 3.5 GHZ | 0 | - | ADD | - | - |
| | | | C3 | CCI ANTENNAS DMP65R-BU8DA-K | LTE 700, 5G 850 LTE 1900 | 0 | - | ADD | 4449 B5/B12 8843 B2/B66A | ADD |
| 1. CONFIRM WITH AT&T MOBILITY REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS. 2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS. | | | | | | | | | | |

2 ANTENNA SCHEDULE

CABLE LENGTHS FOR JUMPERS
FIBER DISTRIBUTION/OVP TO RRU: 15'
RRU TO COMBINER: 10'
COMBINER TO ANTENNA: 10'

| PROPOSED FIBER DISTRIBUTION/SQUID | | PROPOSED CABLING SUMMARY | | | |
|-----------------------------------|--------|--------------------------|-------------------------|-------------|--------|
| MODEL NUMBER | STATUS | COAX | DC | FIBER | STATUS |
| (1) DC9-48-60-24-8C-EV | ADD | - | (2) #8 AWG, 6 CONDUCTOR | (1) 24-PAIR | ADD |
| (1) DC6-4860-0-8F | ADD | - | (2) #8 AWG, 6 CONDUCTOR | - | ADD |

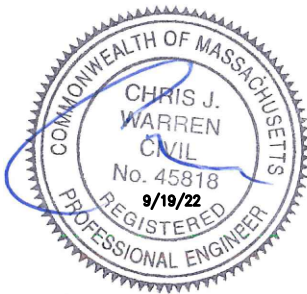


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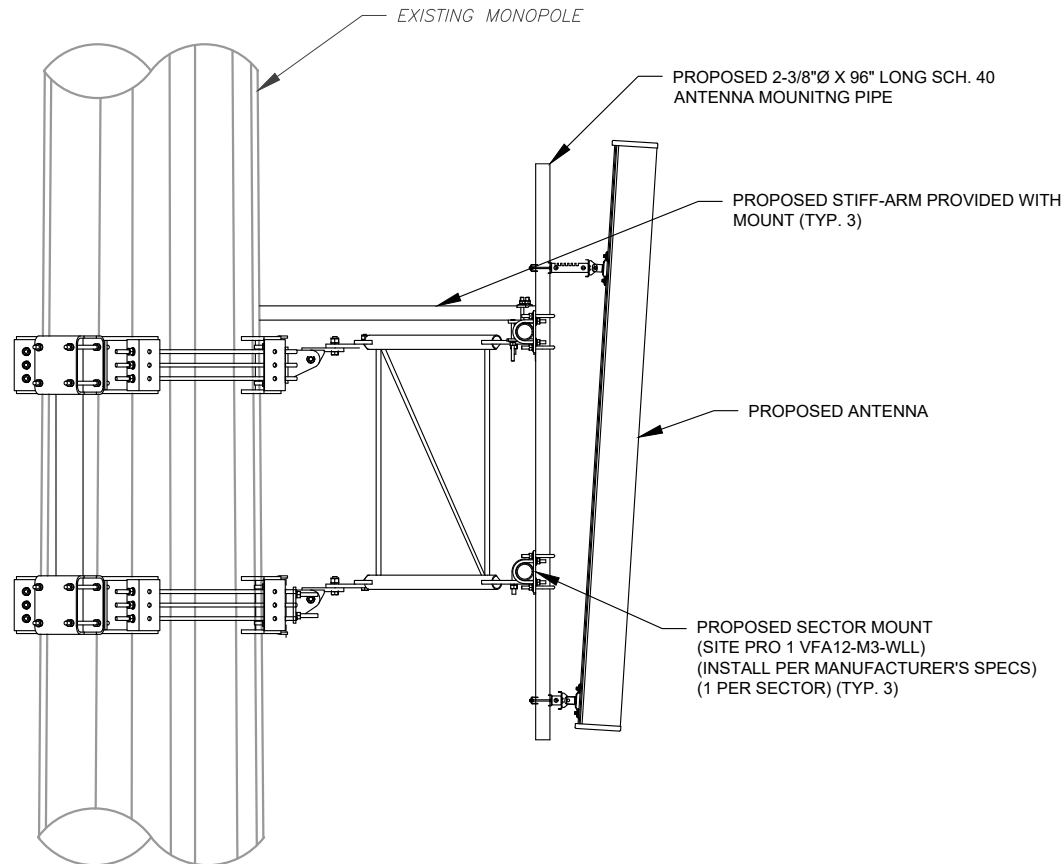
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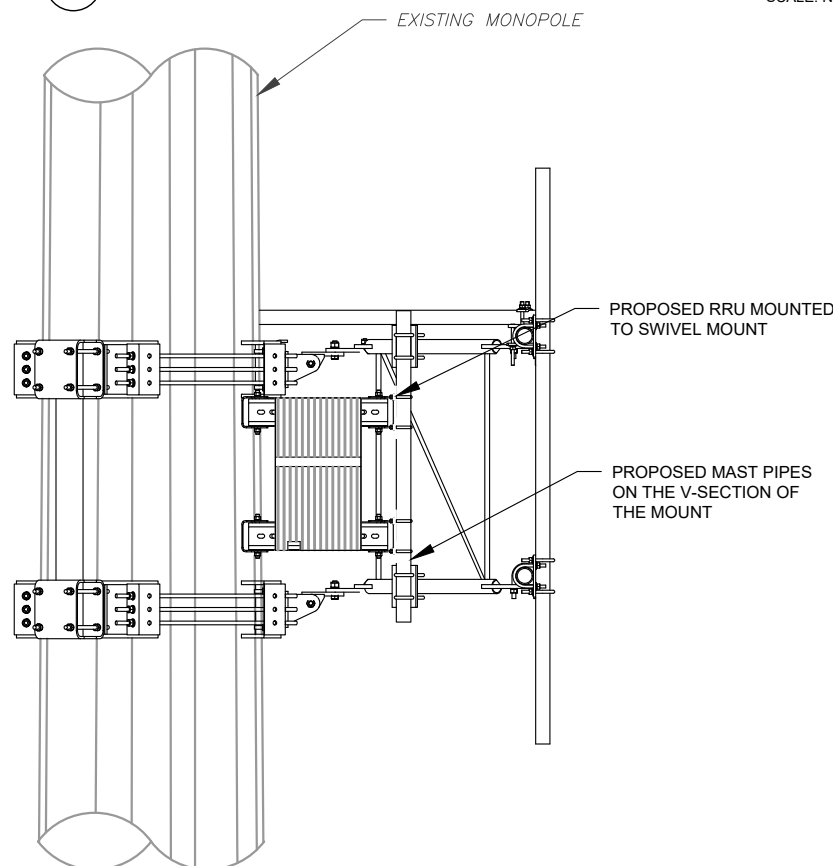
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| DATE DRAWN: | 09/16/22 |
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| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

ANTENNA INFORMATION
& SCHEDULE

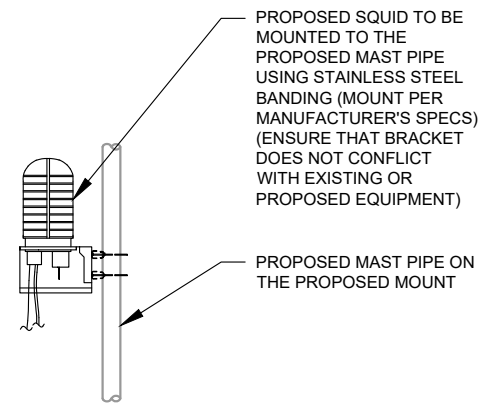
SHEET NUMBER:
C-401
REVISION:
0



1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)
SCALE: NOT TO SCALE



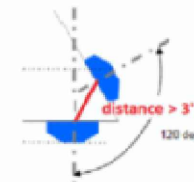
2 RRU DETAIL
SCALE: N.T.S.



3 PROPOSED SQUID MOUNTING
SCALE: N.T.S.

RF REQUIREMENTS FOR 700 B14 FIRSTNET, 700 B12, 700D B29 ANTENNA SEPARATION

- ☐ Horizontal separation (side to side of antenna): $\geq 3'$
- ☐ Vertical separation (between the tips of the antennas): $> 3'$
- ☐ Inter-sector separation: $> 3'$ between the center of the antenna backplanes.



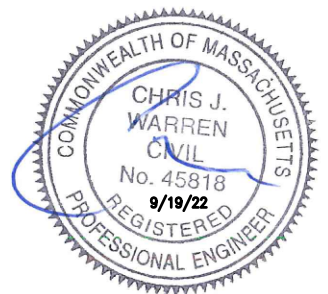
- ☐ Please note additional horizontal separation may be required if B14 antennas azimuth are different from others or antennas are severely angled with respect to the mount.
- ☐ Typical 3' horizontal separation can tolerate skew angle up to 6° .



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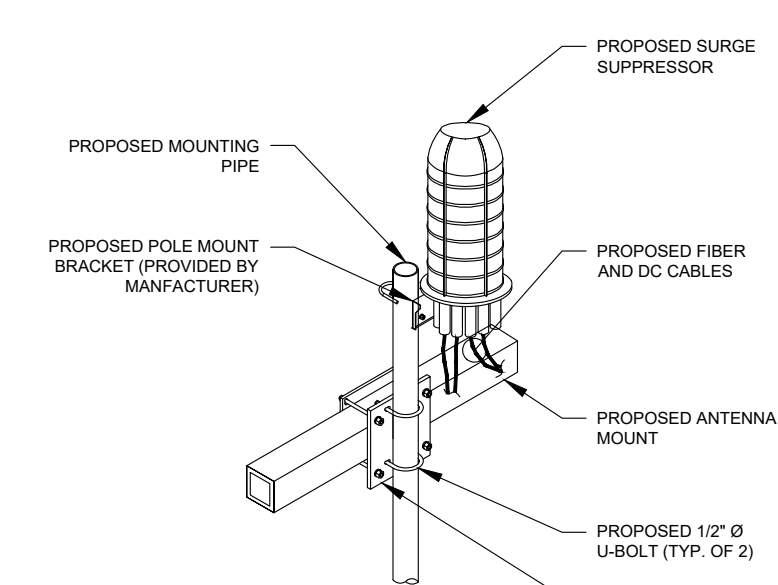
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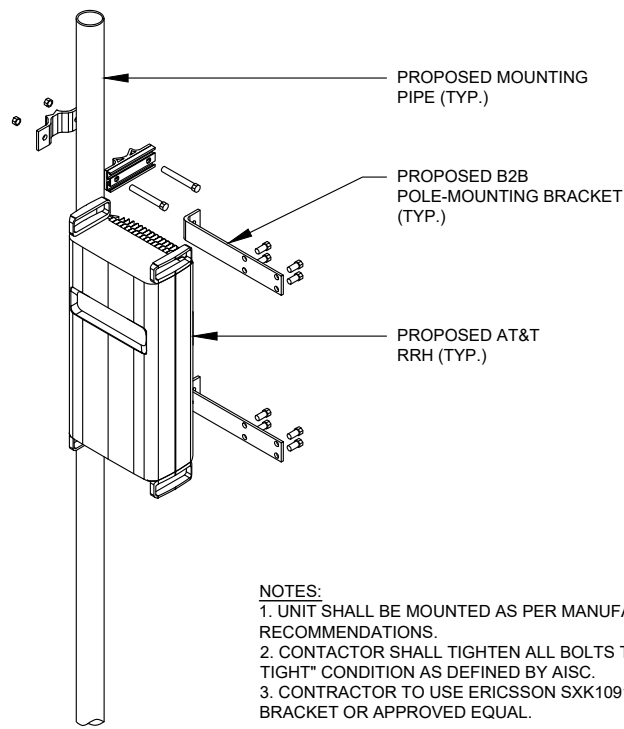
CONSTRUCTION DETAILS

| | |
|---------------|-----------|
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| C-501 | 0 |

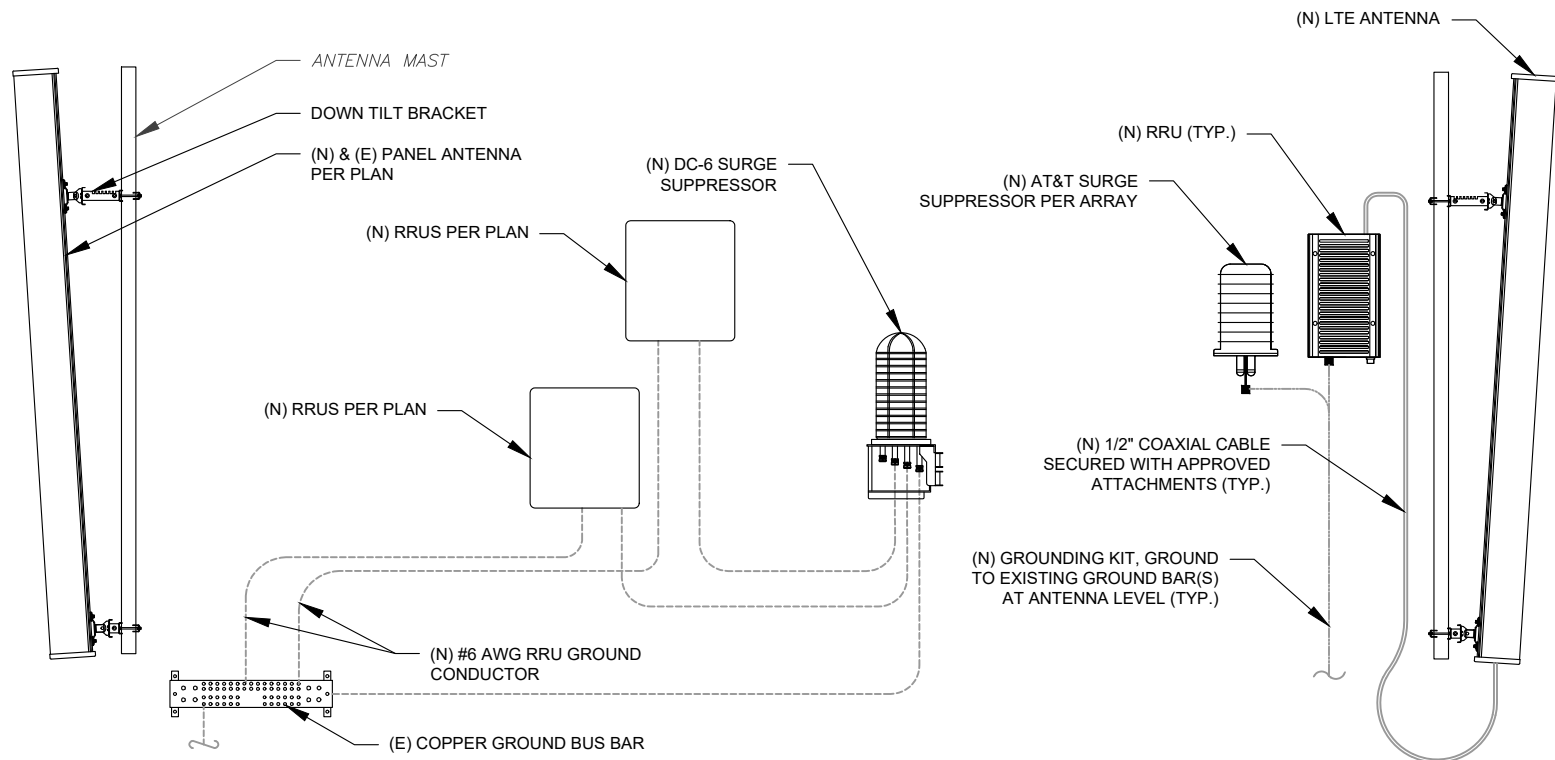


NOTES:
1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
2. CONTACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
3. CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRHS.

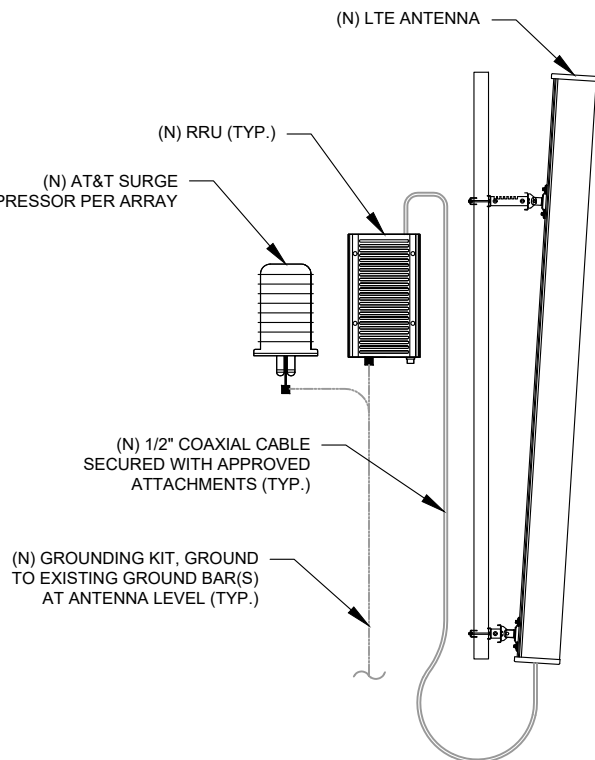
1 SURGE MOUNTING DETAIL
SCALE: N.T.S.



2 RRU MOUNTING DETAIL
SCALE: N.T.S.

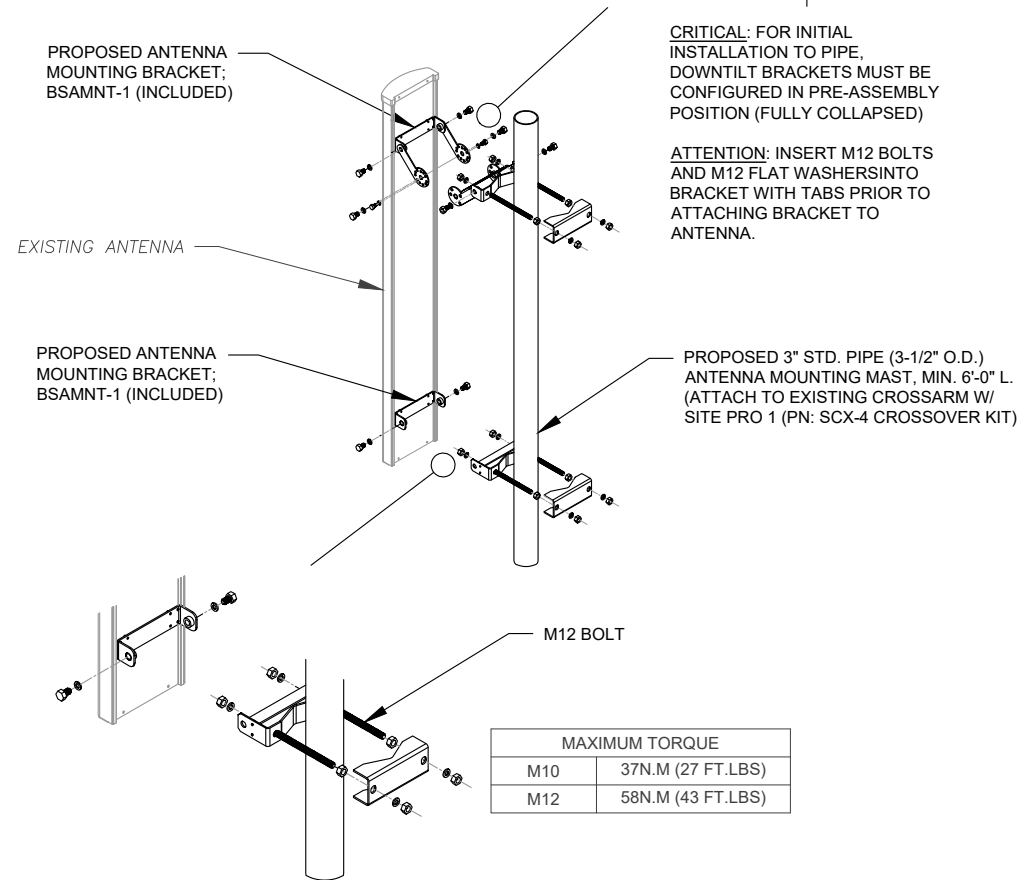


3 ANTENNA/RRU GROUNDING
SCALE: N.T.S.



4 ANTENNA/RRU GROUNDING
SCALE: N.T.S.

| MAXIMUM TORQUE | |
|----------------|-------------------|
| M8 | 15N.M (27 FT.LBS) |
| M10 | 37N.M (27 FT.LBS) |
| M12 | 58N.M (43 FT.LBS) |



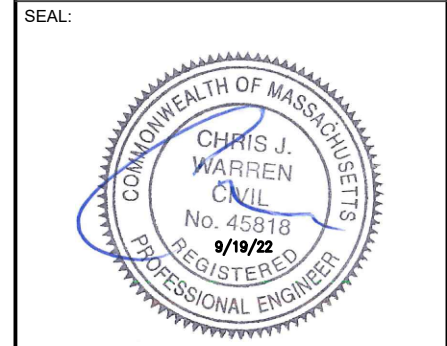
5 ANTENNA MOUNTING DETAIL
SCALE: N.T.S.



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| C | PRELIM | RCD | 08/16/22 |
| D | PRELIM | DGD | 09/14/22 |
| 0 | FOR CONSTRUCTION | DGD | 09/16/22 |

ATC SITE NUMBER:
91567
ATC SITE NAME:
RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

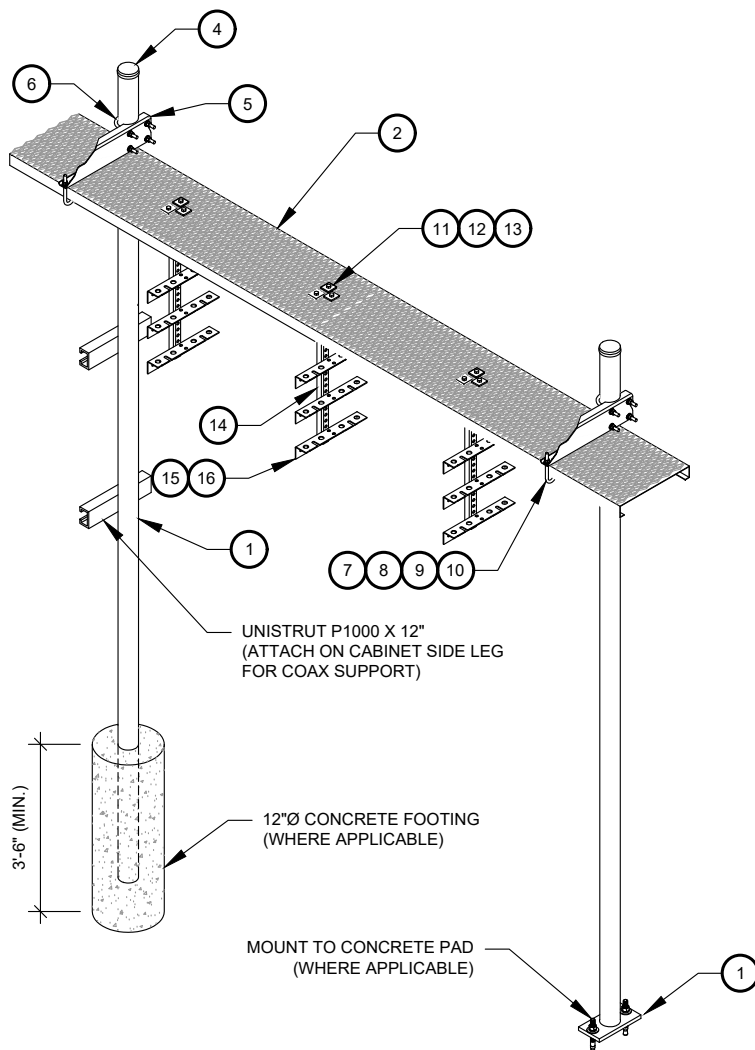


| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

**CONSTRUCTION
DETAILS**

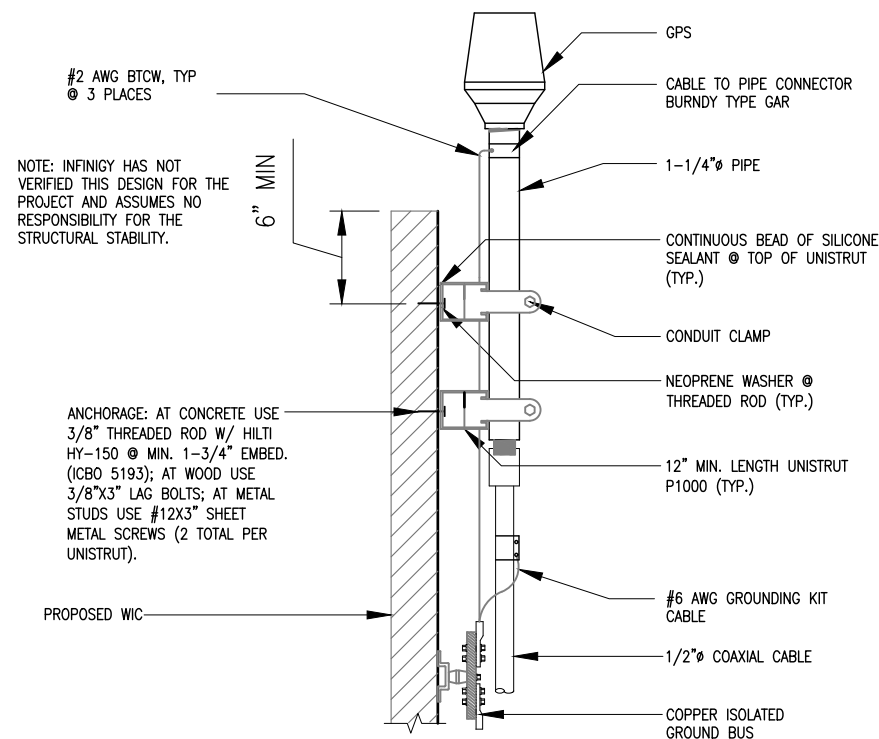
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|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-502 | 0 |

1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.



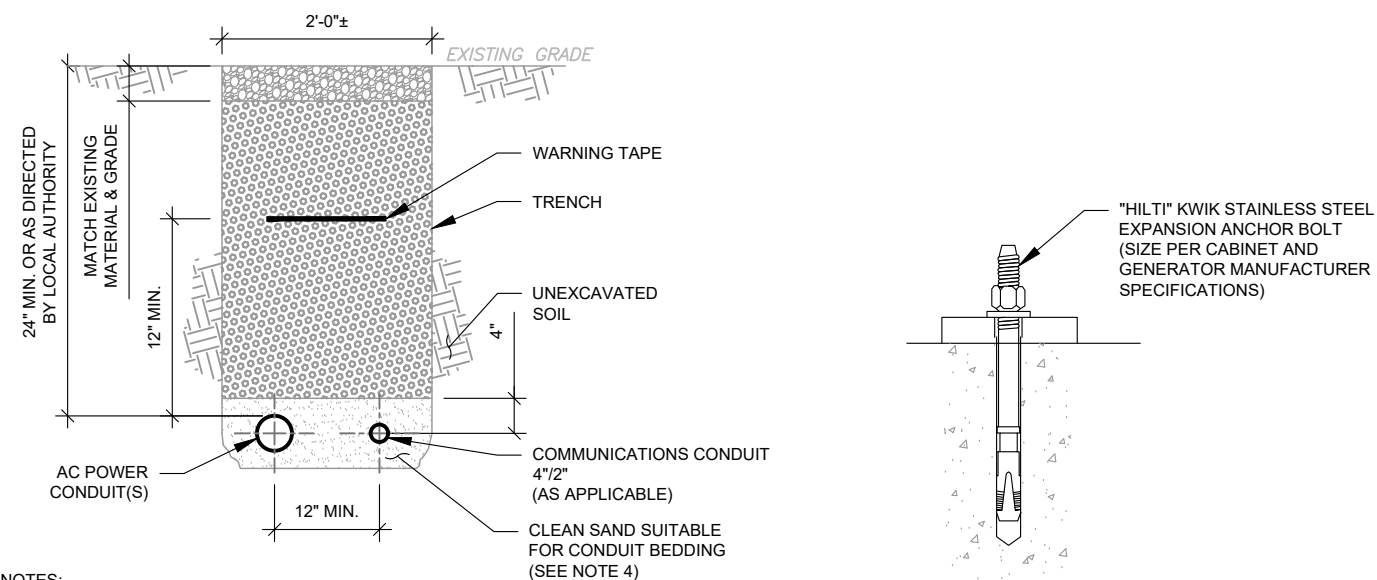
| WB-K210-B WAVEGUIDE BRIDGE KIT - BILL OF MATERIALS (INCLUDED WITH KIT UNLESS NOTED OTHERWISE) | | | | | |
|---|--------------------|--|------|-------------|---|
| ITEM | PART NUMBER | DESCRIPTION | ITEM | PART NUMBER | DESCRIPTION |
| 1 | MF126.01 MF-130 | 10'-4" COLUMN & BASE SHOE* 13'-4" PIPE COLUMN | 9 | GWL-04 | 1/2" GALV LOCK WASHER |
| 2 | WB-CY210 | SAFETY GRATING 24" X 10' | 10 | GN-04 | 1/2" GALV HEX NUT |
| 3 | WBK110BHK | HARDWARE KIT (ITEMS 4-16) | 11 | GB-03205 | 3/8" X 2" GALV BOLT KIT |
| 4 | PC-034 | PIPE CAP 3-1/2" | 12 | MT-387 | SQUARE WASHER, 1-1/2" X 1-1/2" W/ 7/16" HOLE |
| 5 | WBLB243.08 | 24" WAVEGUIDE BRIDGE SUPPORT BRACKET | 13 | GWF-03 | 3/8" GALV FLAT WASHER |
| 6 | GUB-4356 | 1/2" X 3-5/8" X 6" GALV U-BOLT | 14 | WBT243.01 | VERTICAL TRAPEZE SECTION |
| 7 | WB-JB-6 | 1/2" J-BOLT | 15 | GB-03105 | 3/8" X 1" GALV BOLT KIT |
| 8 | GWF-04 | 1/2" GALV FLAT WASHER | 16 | WBT243.02 | HORIZONTAL TRAPEZE SECTION |
| CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT. *BASE SHOE NOT INCLUDED IN WB-K210-B KIT, ORDER COLUMN SEPARATELY OR KIT WB-K210-S. | | | | | |

1 WAVEGUIDE BRIDGE KIT



2 GPS ANTENNA ATTACHMENT DETAIL

SCALE: NOT TO SCALE



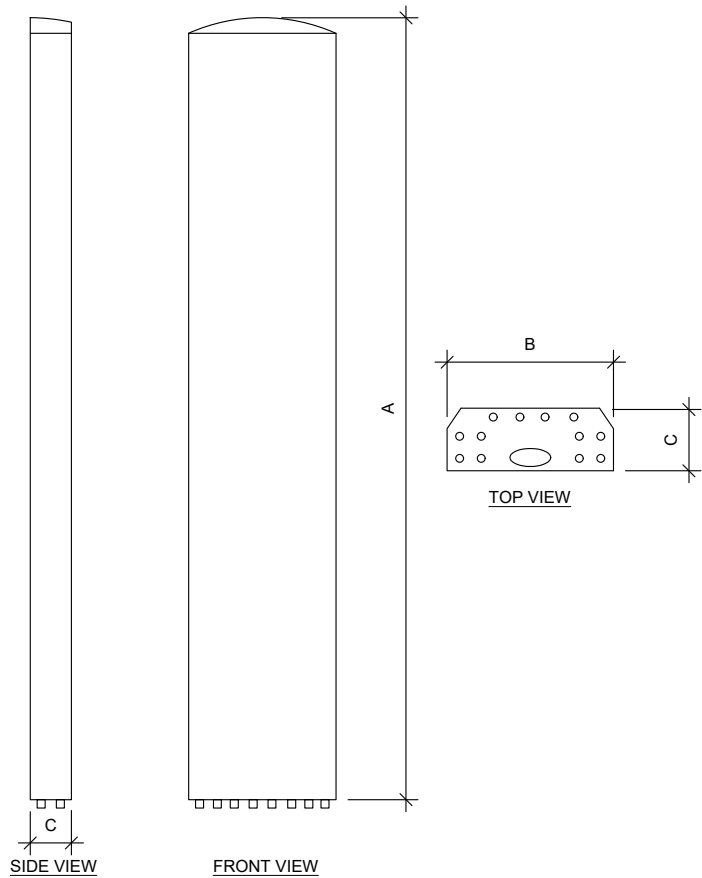
1. IF FREE OF ORGANIC OR OTHER DELETERIOUS MATERIAL, EXCAVATED MATERIAL MAY BE USED FOR BACKFILL. IF NOT, PROVIDE CLEAN, COMPACTIBLE MATERIAL.
2. COMPACT IN 8" LIFTS. REMOVE ANY LARGE ROCKS PRIOR TO BACKFILLING. CONTRACTOR TO VERIFY LOCATION OF EXISTING U/G UTILITIES PRIOR TO DIGGING.
3. IF CURRENT AS-BUILT DRAWINGS ARE NOT AVAILABLE CONTRACTOR SHALL HAND DIG U/G TRENCHING.
4. USE COMMUNICATIONS ONLY TRENCH FOR COMMUNICATIONS CONDUIT UNLESS TRAVELING UNDER PATH OF VEHICLE TRAVEL, THEN CONDUIT MUST BE 24" MIN. BELOW GRADE.
5. CONFIRM SPACING AND DEPTH WITH NEC OR LOCAL CODE REQUIREMENTS

4 EXPANSION ANCHOR DETAIL

3 POWER/TELCO CONDUIT TRENCH DETAILS

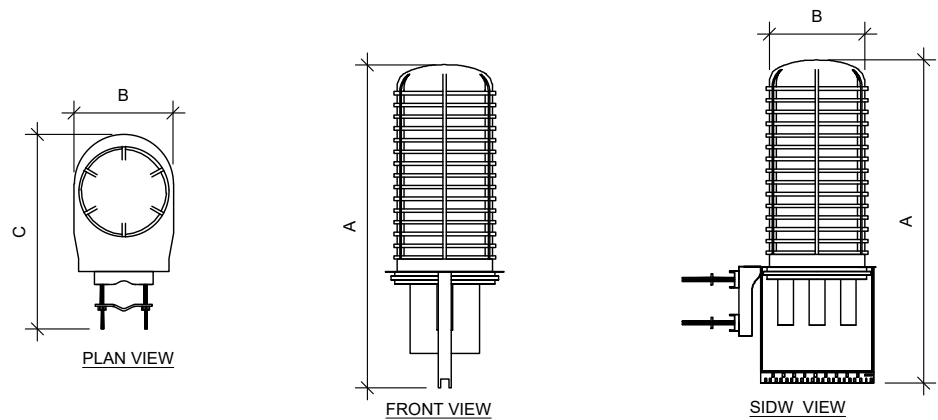


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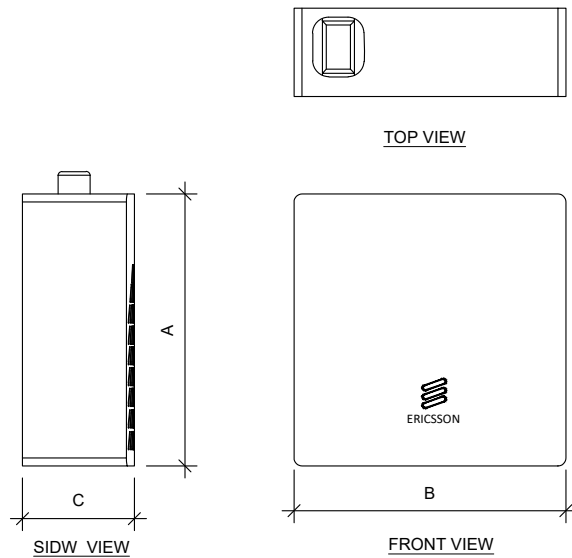
| ANTENNA SPECIFICATIONS | | | | |
|------------------------|-----|-------|-------|--------------|
| ANTENNA MODEL | A | B | C | WEIGHT (LBS) |
| CCI TPA65R-BU8DA-K | 96" | 21" | 7.8" | 83 |
| CCI DMP65R-BU8DA-K | 96" | 20.7" | 7.7" | 96 |
| AIR6449 B77D | 31" | 16" | 10.6" | 81.6 |

1 ANTENNA SPECIFICATIONS
NOT TO SCALE



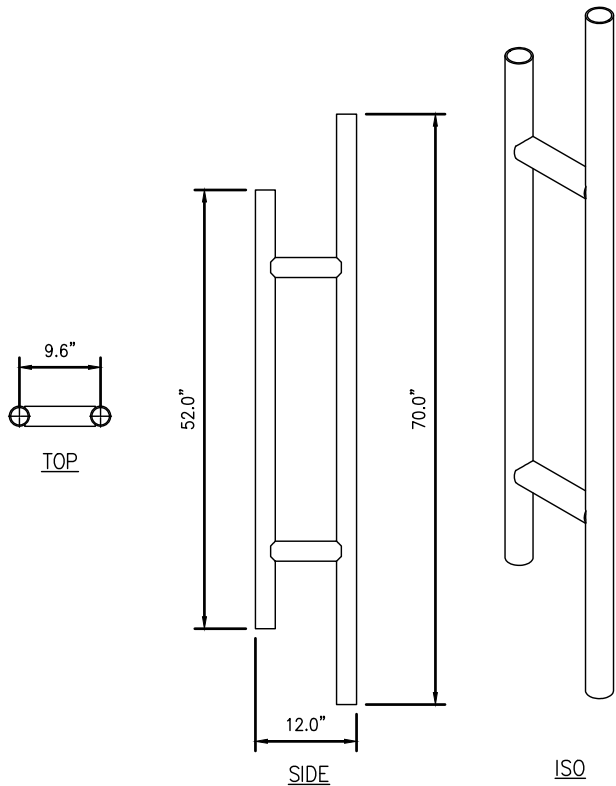
| RAYCAP SPECIFICATIONS | | | | |
|-----------------------|-------|-------|-------|--------------|
| RAYCAP MODEL | A | B | C | WEIGHT (LBS) |
| DC9-48-60-24-8C-EV | 31.4" | 18.3" | 10.2" | 16 |
| DC6-48-60-0-8F | 22.3" | 11" | 11" | 32.8 |

3 RAYCAP SPECIFICATIONS
NOT TO SCALE



| RRU SPECIFICATIONS | | | | |
|--------------------|-------|-------|-------|--------------|
| RRU MODEL | A | B | C | WEIGHT (LBS) |
| 4478 B14 | 16.5" | 13.4" | 5.9" | 59.9 |
| 4449 B5/B12 | 17.9" | 13.2" | 9.4" | 71 |
| 8843 B2/B66A | 14.9" | 13.2" | 10.9" | 72 |

2 RRU SPECIFICATIONS
NOT TO SCALE



4 COMMSCOPE P-100 ANTENNA STAND-OFF MOUNT DETAIL
SCALE: N.T.S.



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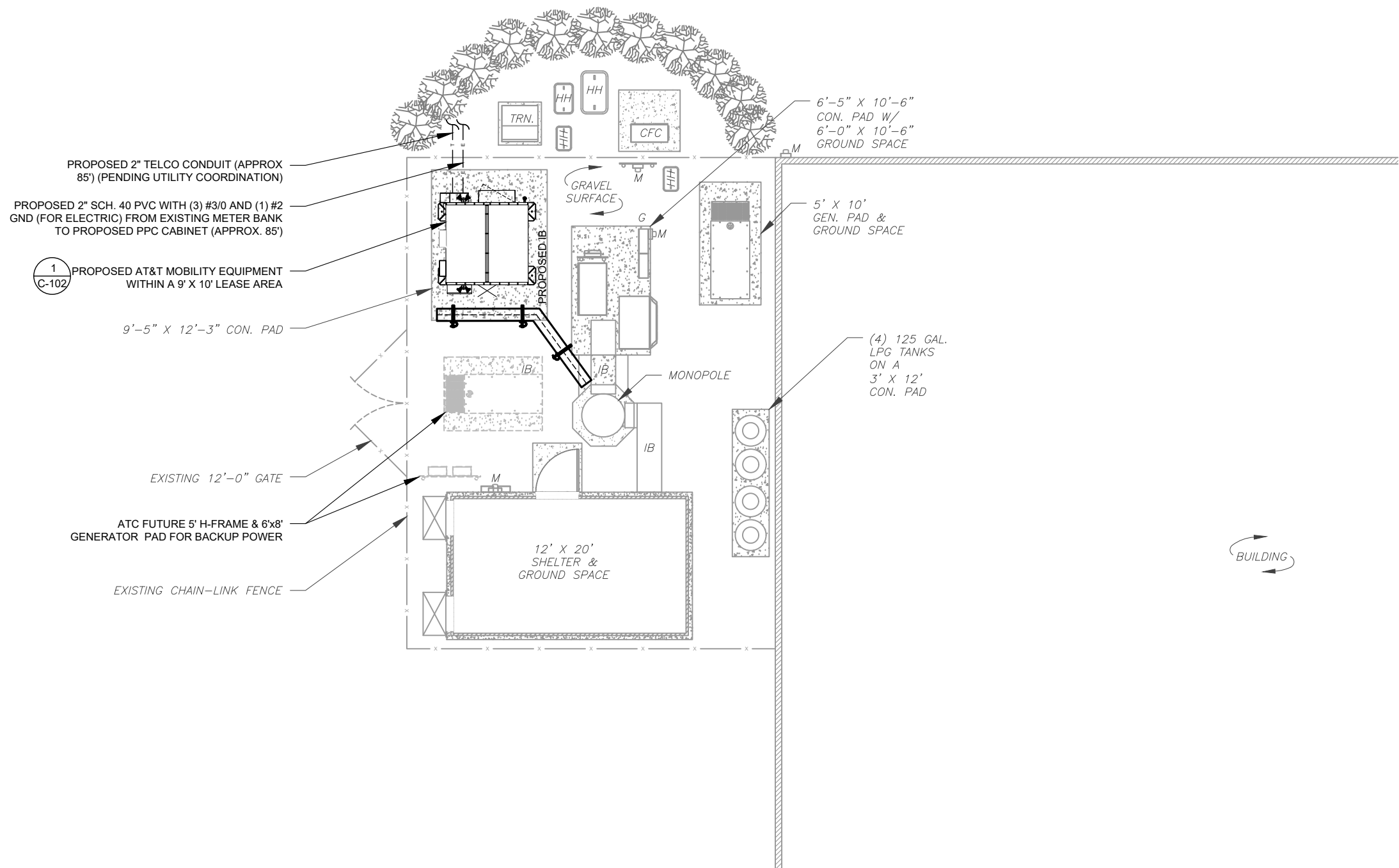
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| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

EQUIPMENT
SPECIFICATIONS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| C-504 | 0 |



1

OVERALL ELECTRICAL LAYOUT


0

10'

20'

SCALE: 1"=10' (11X17)
1"=5' (22X34)

N



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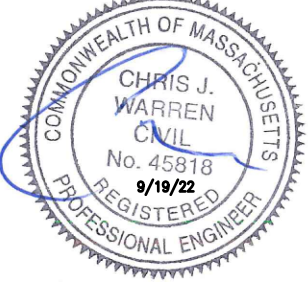
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SEAL:





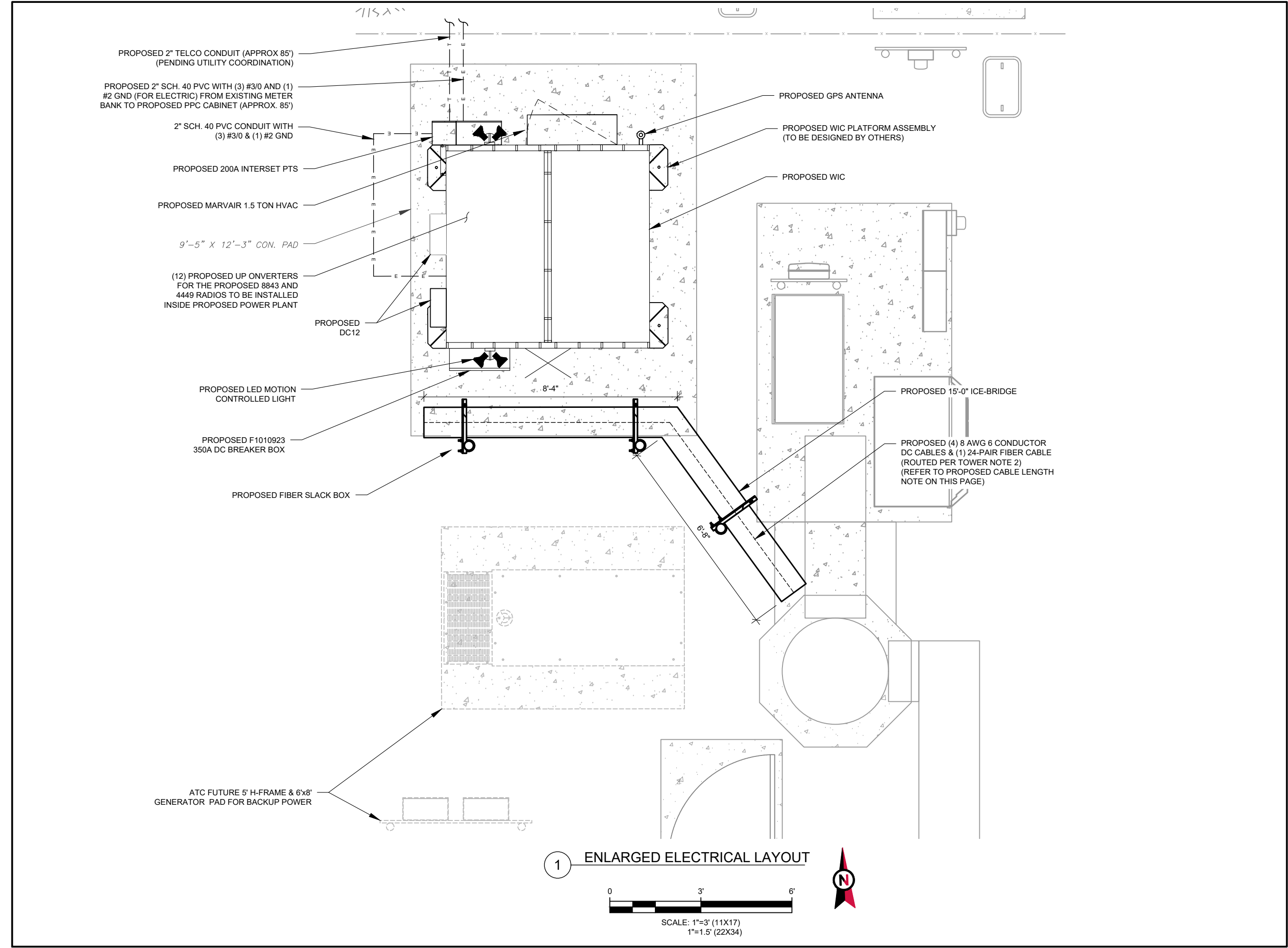
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| CUSTOMER #: | 15336751 |

OVERALL ELECTRICAL
LAYOUT

SHEET NUMBER:
E-101

REVISION:
0

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SEAL:

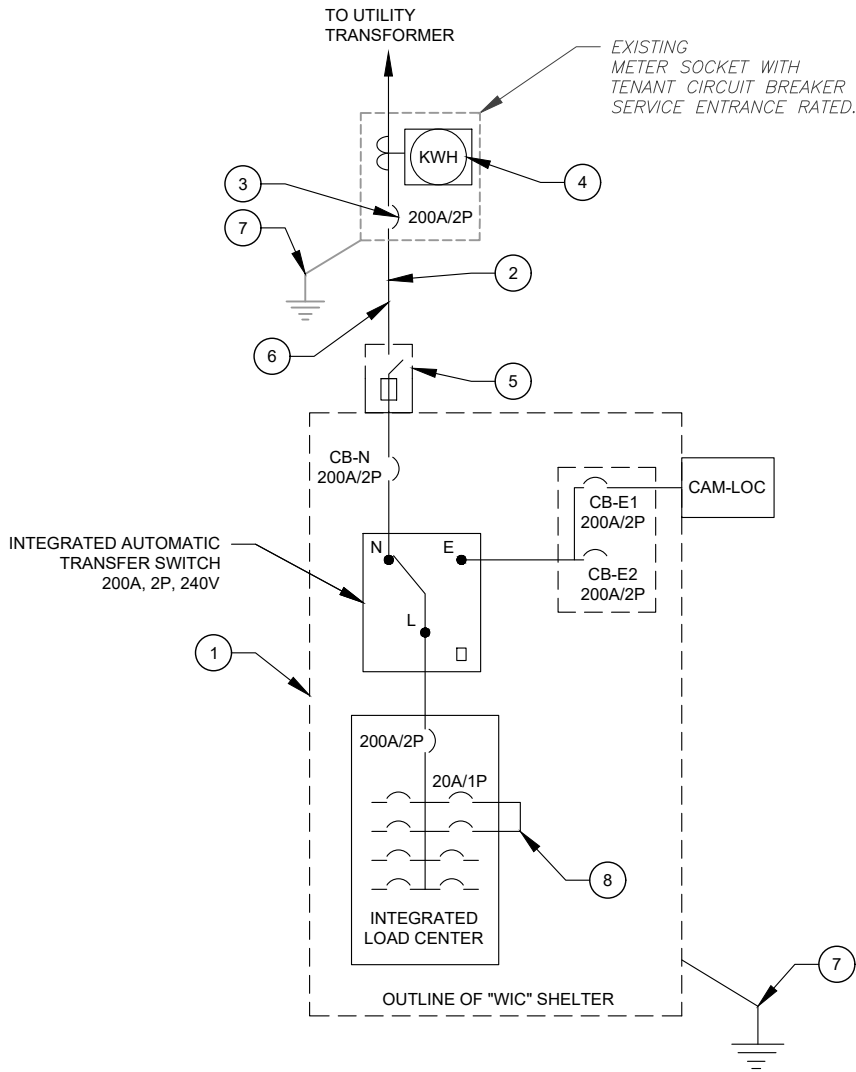
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| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

ENLARGED ELECTRICAL LAYOUT

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: E-102 | REVISION: 0 |
|-------------------------------|-----------------------|

ELECTRICAL NOTES:

- 1
- POWER TRANSFER LOAD CENTER (PTLC) INCLUDES A CAM-LOC GENERATOR CONNECTION PANEL, AND ATS, A MECHANICALLY INTERLOCKED TRANSFER SWITCH, A 200A 42 CIRCUIT PANEL AND SURGE SUPPRESSION.
- 2
- CONTRACTOR SHALL FURNISH AND INSTALL POWER CONDUCTORS (3#3/0, #6 G IN 2"C) FROM METER CENTER TO SHELTER. METER WILL BE FURNISHED AND INSTALLED BY LOCAL UTILITY COMPANY.
- 3
- CONTRACTOR SHALL PROVIDE AND INSTALL CIRCUIT BREAKER IN METER CENTER TO FEED AT&T SHELTER. CIRCUIT BREAKER SHALL BE 200A, 240V, 1PH, 3W TYP AND AIC RATING SHALL MATCH EXISTING.
- 4
- CONTRACTOR SHALL PROVIDE AND INSTALL NAMEPLATE ON METER TO INDICATE "AT&T". NAMEPLATES SHALL BE PHENOLIC, WHITE LETTERS ON BLACK BACKGROUND.
- 5
- SHELTER DISCONNECT IS FURNISHED WITH SHELTER. ON SITES WHERE SERVICE IS OBTAINED FROM AN EXISTING SOURCE (METER CENTER), OR SERVICE DISCONNECT IS LOCATED ON EQUIPMENT RACK, SHELTER DISCONNECT MAY BE OMITTED.
- 6
- BELOW GRADE PVC CONDUIT SHALL TRANSITION TO RMC PRIOR TO RISING ABOVE GRADE, ALL BENDS SHALL HAVE A MINIMUM 24" RADIUS. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. VERIFY CONDUIT TYPE WITH LOCAL CONSTRUCTION MANAGER AND ADJUST IF NECESSARY. ALL CONDUIT SHALL MEET NEC, STATE, AND LOCAL CODE REQUIREMENTS AS REQUIRED.
- 7
- ALL EQUIPMENT SHALL BE GROUNDED PER NEC (MIN #2 SBTC) AND AT&T STANDARDS.
- 8
- CONDUCTOR SIZES AND DISTANCES HAVE BEEN SIZED FOR 3% MAX VOLTAGE DROP. (TOTAL SYSTEM VOLTAGE DROP ON BOTH FEEDERS AND BRANCH CIRCUITS TO THE FARTHEST DEMAND SHALL NOT EXCEED 5%)



- NOTE:
- 1
- ALL EQUIPMENTS' SHORT-CIRCUIT CURRENT RATING SHALL EXCEED AVAILABLE FAULT CURRENT PER UTILITY
- 2
- CONTRACTOR TO INSTALL HANDHOLES AT EVERY 3RD 90° TURN

| | | | | |
|------------------------------------|--|----------------------------|------------------------------|-----------------------------------|
| PANEL DESIGNATION: AT&T | | TYPE: LIGHTING & APPLIANCE | SYSTEM: 120/240V, 3W, 42 CKT | LOCATION: AT&T LEASE AREA |
| | | MOUNTING: SURFACE | MAIN BREAKER (MB): 200A | |
| | | ENCLOSURE | MAIN BUS RATING: 200A | PANEL NOTES: WIC INTEGRATED PANEL |
| | | | MIN. A.I.C. RATING: 65K | |

| CONNECTED LOAD (kVA) | | BRIEF DESCRIPTION | FEEDER OR BRANCH CIRCUIT | | | CIRC. NOTES | FEEDER OR BRANCH CIRCUIT | | | BRIEF DESCRIPTION | CONNECTED LOAD (kVA) | | |
|----------------------|------|-------------------|--------------------------|-------|----------|-------------|--------------------------|---------|-------|----------------------|----------------------|------|---|
| A | B | | BREAKER | | POLE NO. | | CIRC. NOTES | BREAKER | | | POLE NO. | A | B |
| | | | AMPS | POLES | | | | AMPS | POLES | | | | |
| 2.00 | | RECTIFIER #1 | 30 | 2 | 1 | | 2 | 1 | 20 | EXT. GFCI OUTLETS | 0.18 | | |
| | 2.00 | | | | 3 | | 4 | 2 | 30 | | 2.00 | 2.00 | |
| 2.00 | | RECTIFIER #3 | 30 | 2 | 5 | | 6 | | | RECTIFIER #4 | | 2.00 | |
| | 2.00 | | | | 7 | | 8 | 2 | 30 | | 2.00 | 2.00 | |
| 2.00 | | RECTIFIER #5 | 30 | 2 | 9 | | 10 | | | RECTIFIER #6 | | 2.00 | |
| | 2.00 | | | | 11 | | 12 | | 30 | | 2.00 | 2.00 | |
| 0.00 | | SPACE | | | 13 | | 14 | 2 | 30 | | 2.00 | | |
| | 0.00 | SPACE | | | 15 | | 16 | | | SPACE | | 0.00 | |
| 0.68 | | SPACE | | | 17 | | 18 | | | SPACE | 0.00 | 0.00 | |
| | 0.00 | SPACE | | | 19 | | 20 | | | SPACE | | 0.00 | |
| 0.00 | | SPACE | | | 21 | | 22 | | | SPACE | 0.00 | 0.00 | |
| | 0.00 | SPACE | | | 23 | | 24 | | | SPACE | | 0.00 | |
| 3.50 | | 1.5 TON AC UNIT | 20 | 2 | 25 | | 26 | | | SPACE | 0.00 | | |
| | 3.50 | | | | 27 | | 28 | | SPACE | | 0.00 | | |
| 0.48 | | FIBER BOX OUTLET | 20 | 1 | 29 | | 30 | | | SPACE | 0.00 | | |
| | 0.00 | SPACE | | | 31 | | 32 | | | SPACE | | 0.00 | |
| 0.00 | | SPACE | | | 33 | | 34 | | | SPACE | 0.00 | | |
| | 0.00 | SPACE | | | 35 | | 36 | | | SPACE | | 0.00 | |
| 0.00 | | SPACE | | | 39 | | 40 | | | SPACE | 0.00 | | |
| | 0.00 | SPACE | | | 41 | | 42 | | | SPACE | | 0.00 | |
| 10.7 | 9.5 | | | | | | A | B | TOTAL | | | | |
| | | | | | | 18.8 | 18.1 | 36.9 | | CONNECTED LOAD (kVA) | | | |
| | | | | | | 18.8 | 18.1 | 36.9 | | DEMAND LOAD (kVA) | | | |

DERATING FACTOR (80%)
DEMANDLOAD SIZING: 195 AMPS

- NOTES:
- 1
- ALL CONDUCTORS ARE TYPE THWN (75°C) COPPER.
- 2
- MAXIMUM LENGTH OF RUN FOR RECTIFIER CIRCUITS IS 50 FT.

PANEL SCHEDULE

ELECTRICAL ONE-LINE DIAGRAM

SCALE: NOT TO SCALE



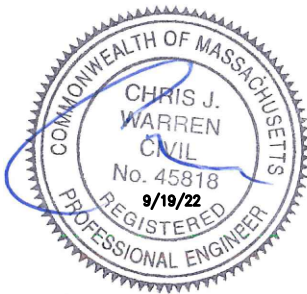
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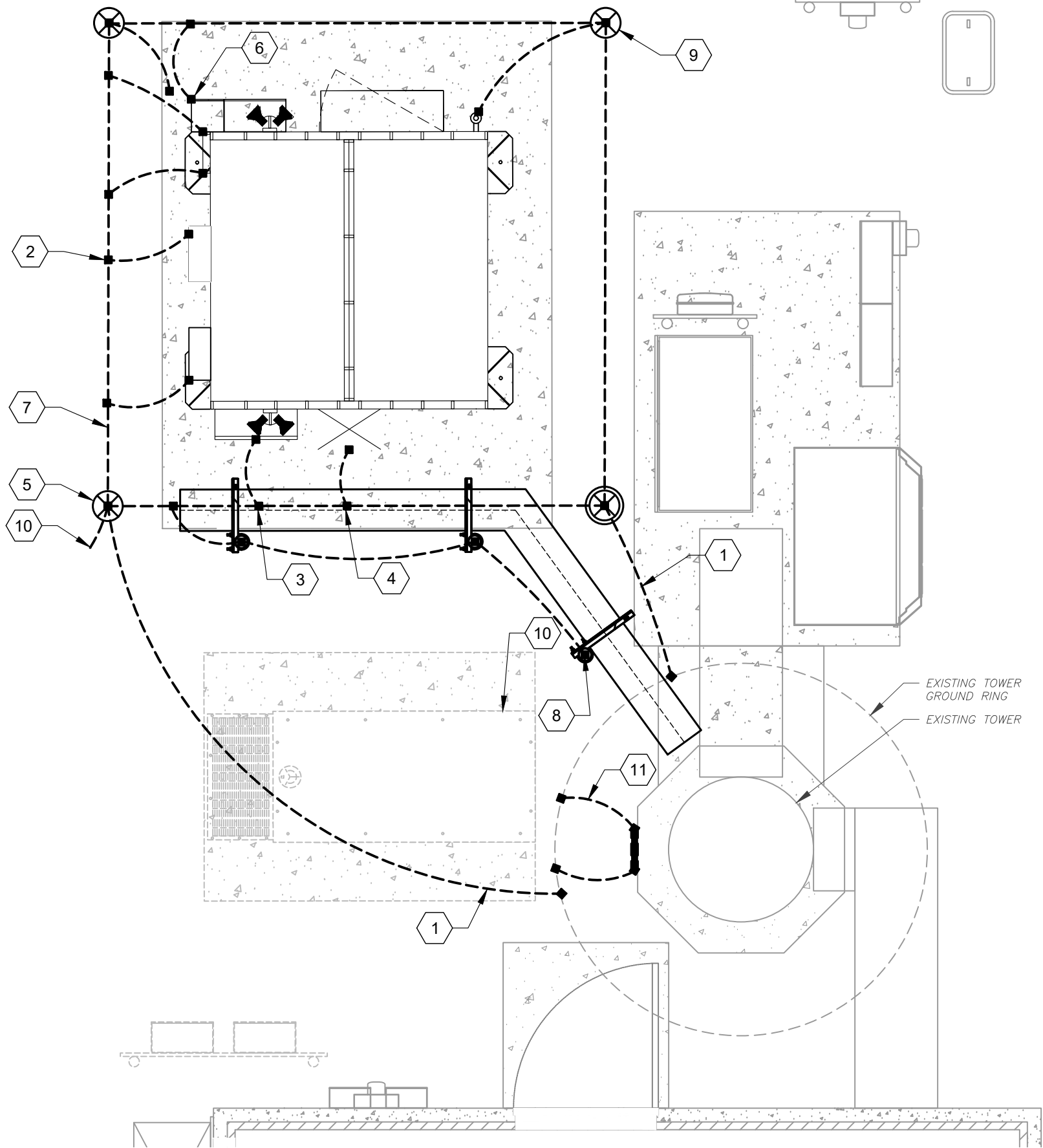
SEAL:



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| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

ELECTRICAL ONE-LINE &
PANEL SCHEDULE

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| E-103 | 0 |



GROUNDING KEYED NOTES:

- 1 BOND TO TOWER GROUND RING
- 2 #2 AWG RAYCAP BOND BURIED 30" BFG (TYP.)
- 3 #2 AWG DISCONNECT BOND BURIED 30" BFG (TYP.)
- 4 HVAC GROUNDING, MECHANICAL CONNECTIONS AT HVAC UNITS ABOVE GRADE AS ALLOWED BY CODE
- 5 5/8" X 10' COPPER GROUND ROD W/ INSPECTION WELL
- 6 #2 AWG ATS BOND BURIED 30" BFG (TYP.)
- 7 2" AWG GROUND RING BURIED 30" BFG
- 8 #2 AWG ICE BRIDGE BOND BURIED 30" BFG (TYP.)
- 9 5/8" X 10' COPPER GROUND ROD
- 10 #2 AWG FENCE BOND BURIED 30" BFG (TYP.)
- 11 #2 AWG TOWER GROUND BAR BOND BURIED 30" BFG (TYP.)

1 DETAILED GROUNDING LAYOUT



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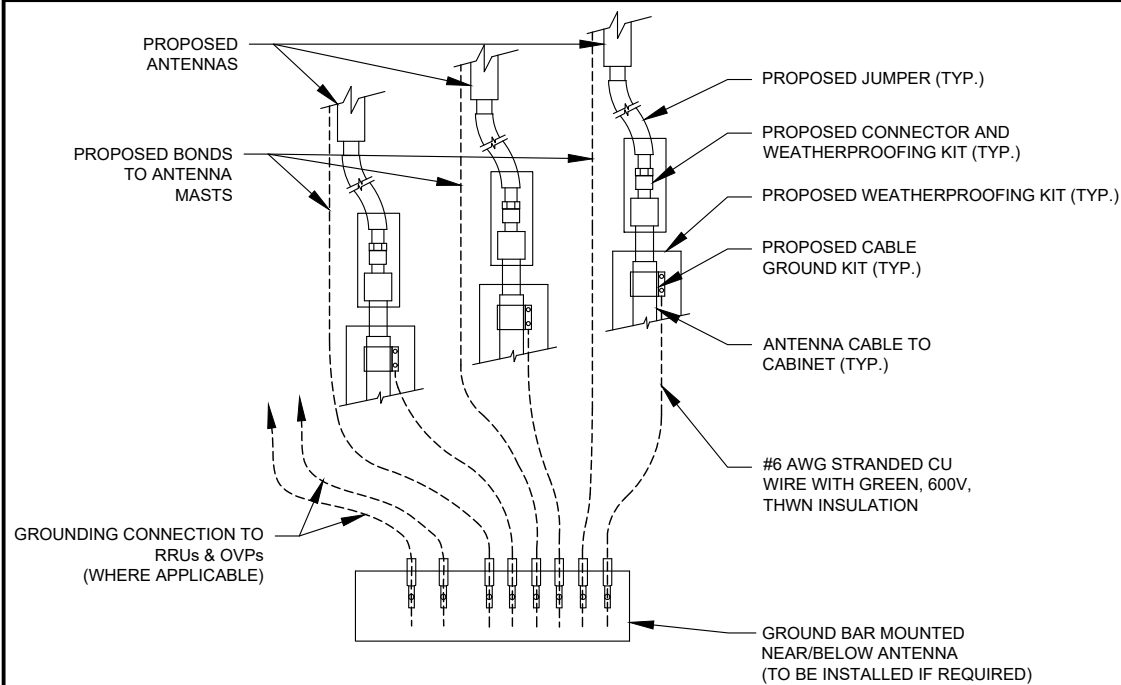
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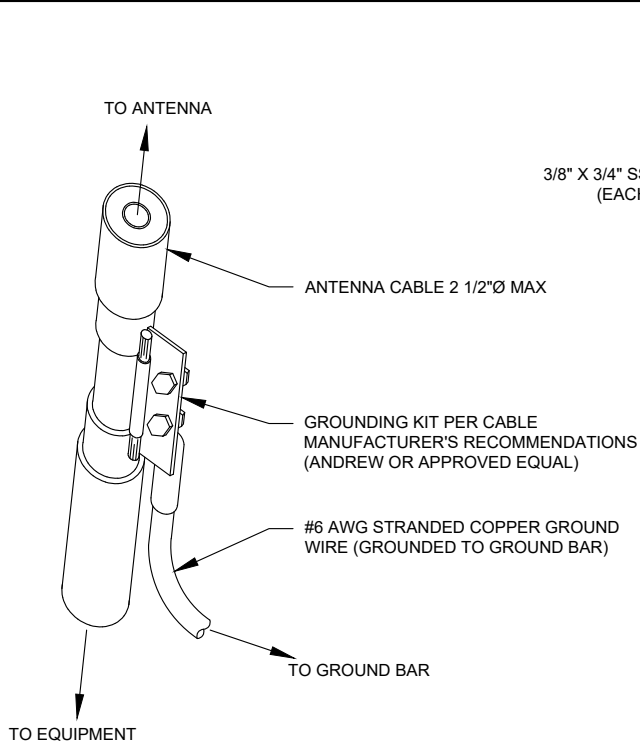
**DETAILED GROUNDING
LAYOUT**

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| E-104 | 0 |



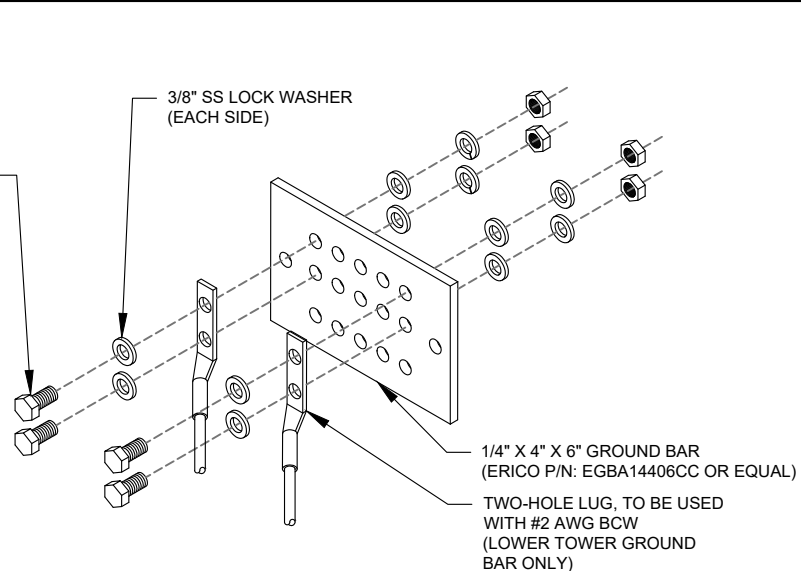
- NOTES:
- THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
 - SITE GROUNDING SHALL COMPLY WITH AT&T GROUNDING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

1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE



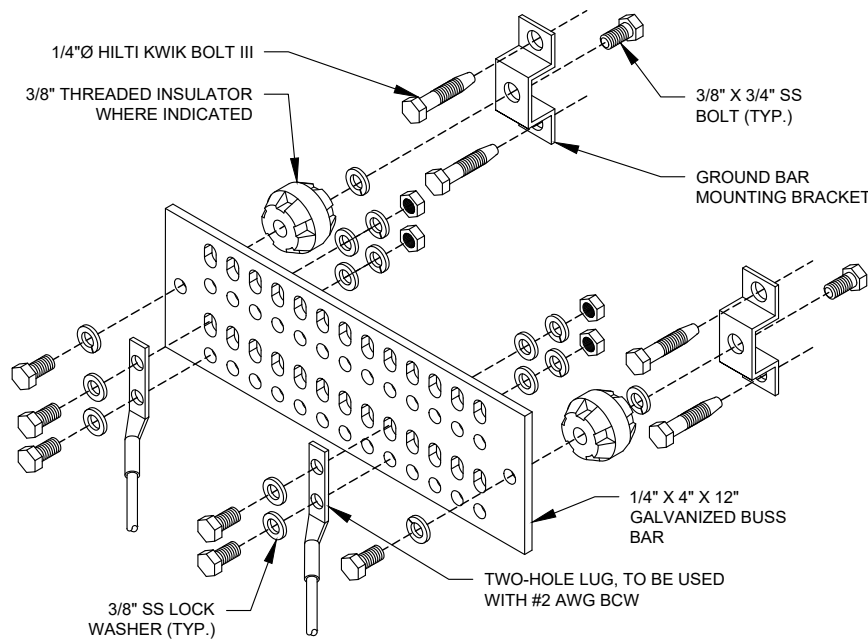
- GROUND KIT NOTES:
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 - CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: NOT TO SCALE



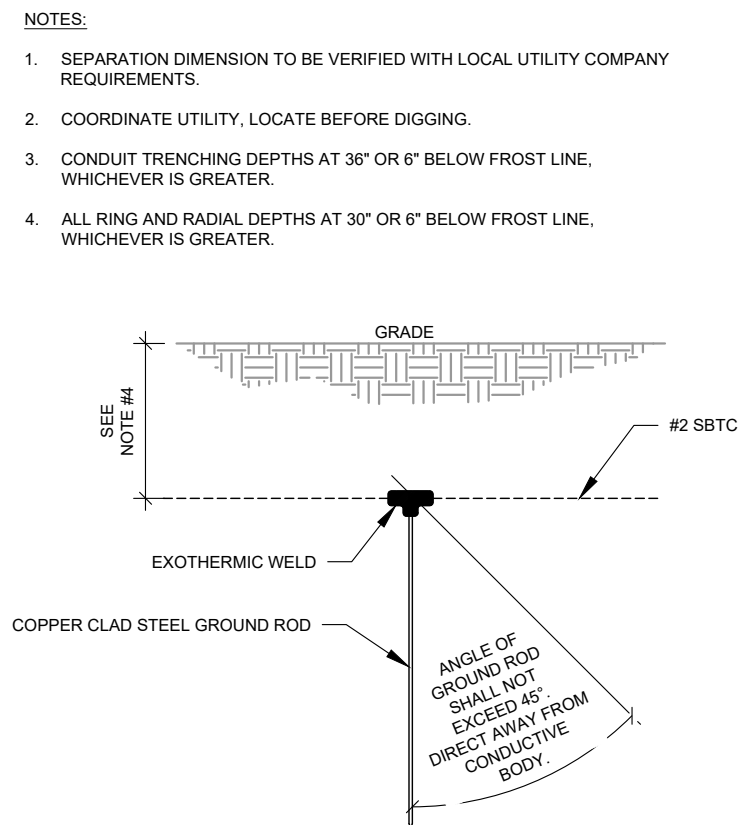
- GROUND BAR NOTES:
- GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 - GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
SCALE: NOT TO SCALE

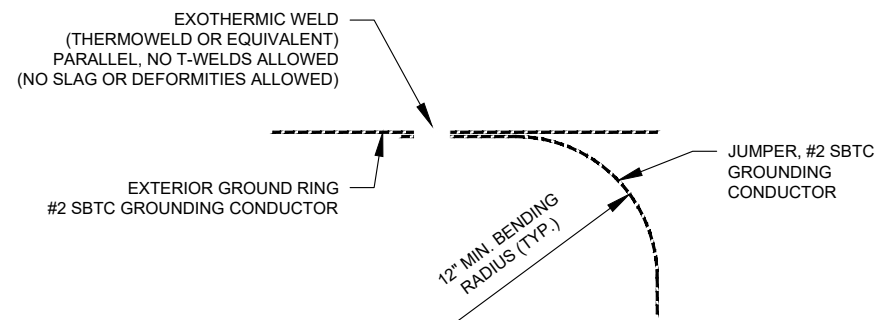


- GROUND BAR NOTES
- GROUND KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 - GROUND BAR SHALL BE BOLTED TO STRUCTURAL MEMBER OR ANCHORED TO CONCRETE SLAB W/ HILTI KWIK BOLT III.

4 MAIN GROUND BAR DETAIL
SCALE: NOT TO SCALE



5 GROUND ROD DETAIL
SCALE: NOT TO SCALE



6 TIE CONNECTION DETAIL
SCALE: NOT TO SCALE

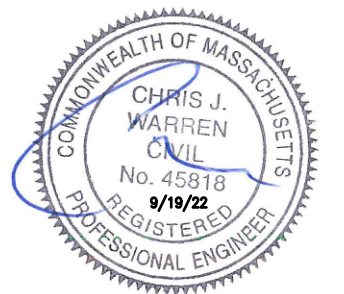


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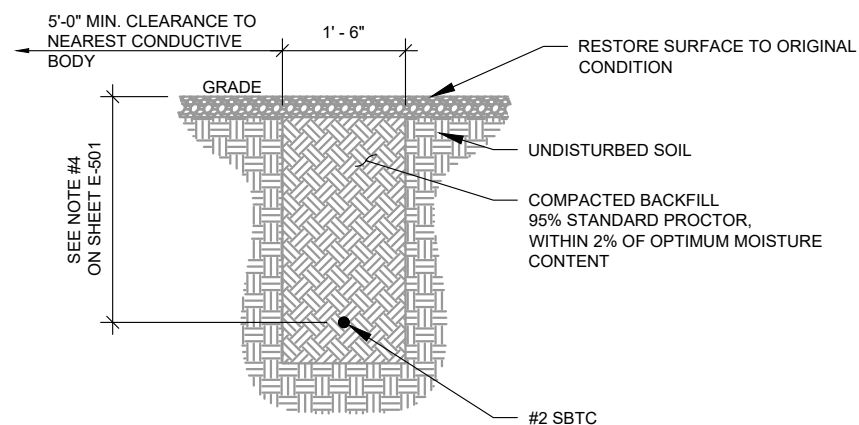
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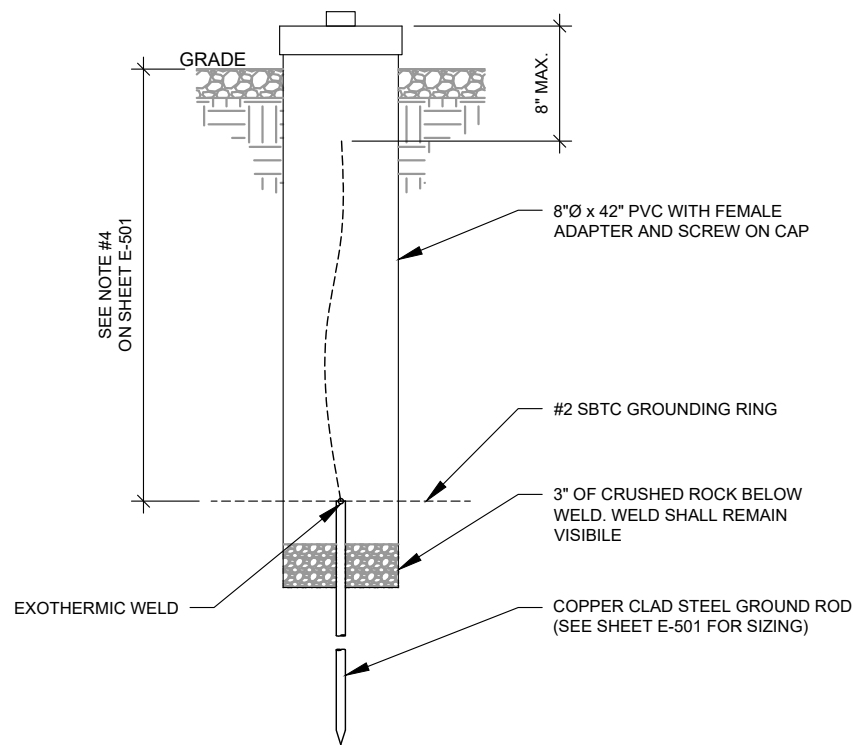
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|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

GROUNDING DETAILS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| E-501 | 0 |



1 GROUND CONNECTION TRENCH DETAIL (STD.)
SCALE: NOT TO SCALE



2 TEST WELL DETAIL
SCALE: NOT TO SCALE

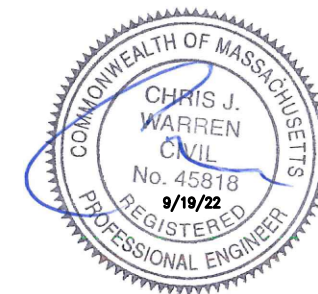


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| REV. | DESCRIPTION | BY | DATE |
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| B | PRELIM | SP | 08/15/22 |
| C | PRELIM | RCD | 08/16/22 |
| D | PRELIM | DGD | 09/14/22 |
| 0 | FOR CONSTRUCTION | DGD | 09/16/22 |

ATC SITE NUMBER:
91567
ATC SITE NAME:
RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

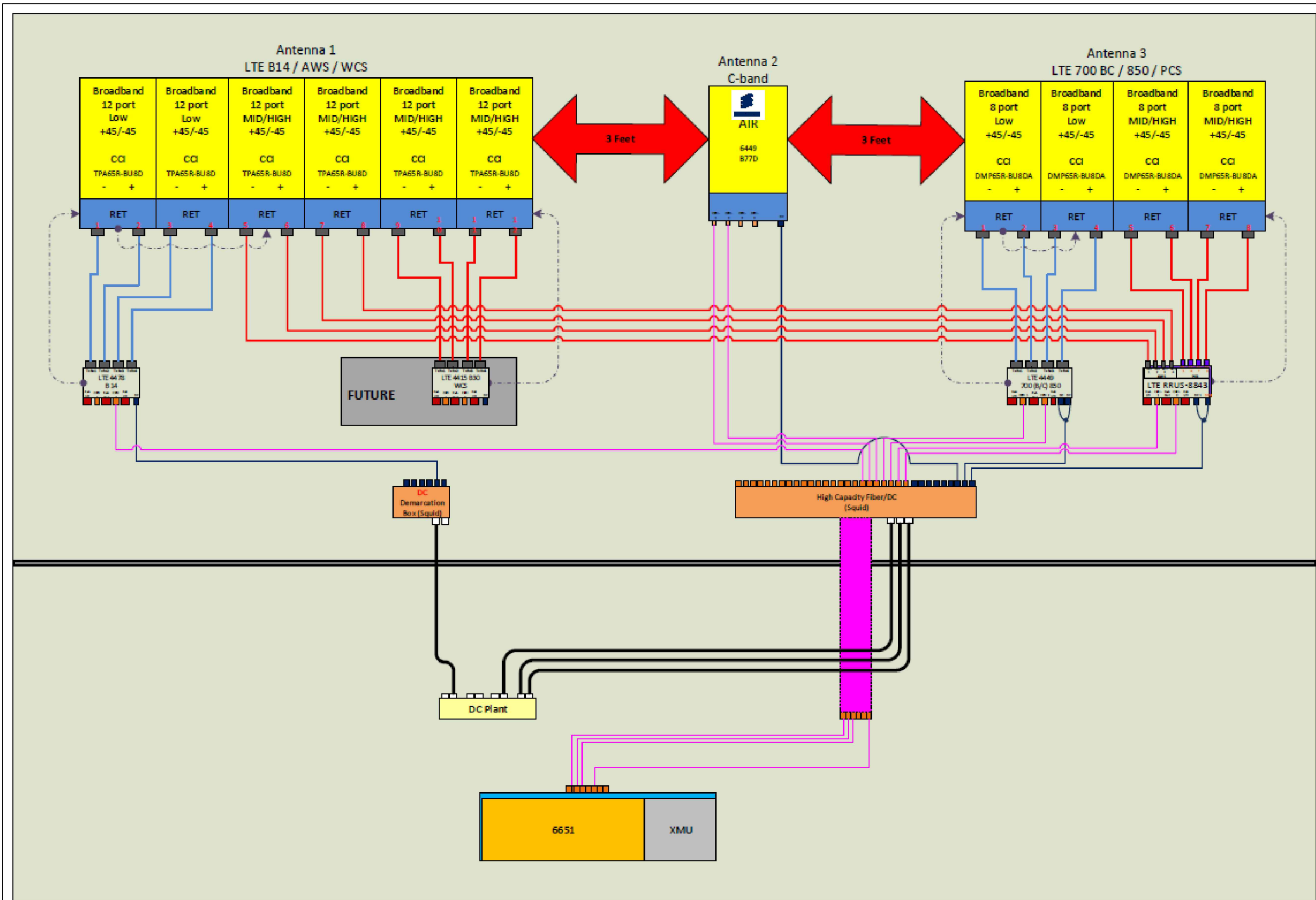
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| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

GROUNDING DETAILS

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
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1 PLUMBING DIAGRAM
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED
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SEAL:

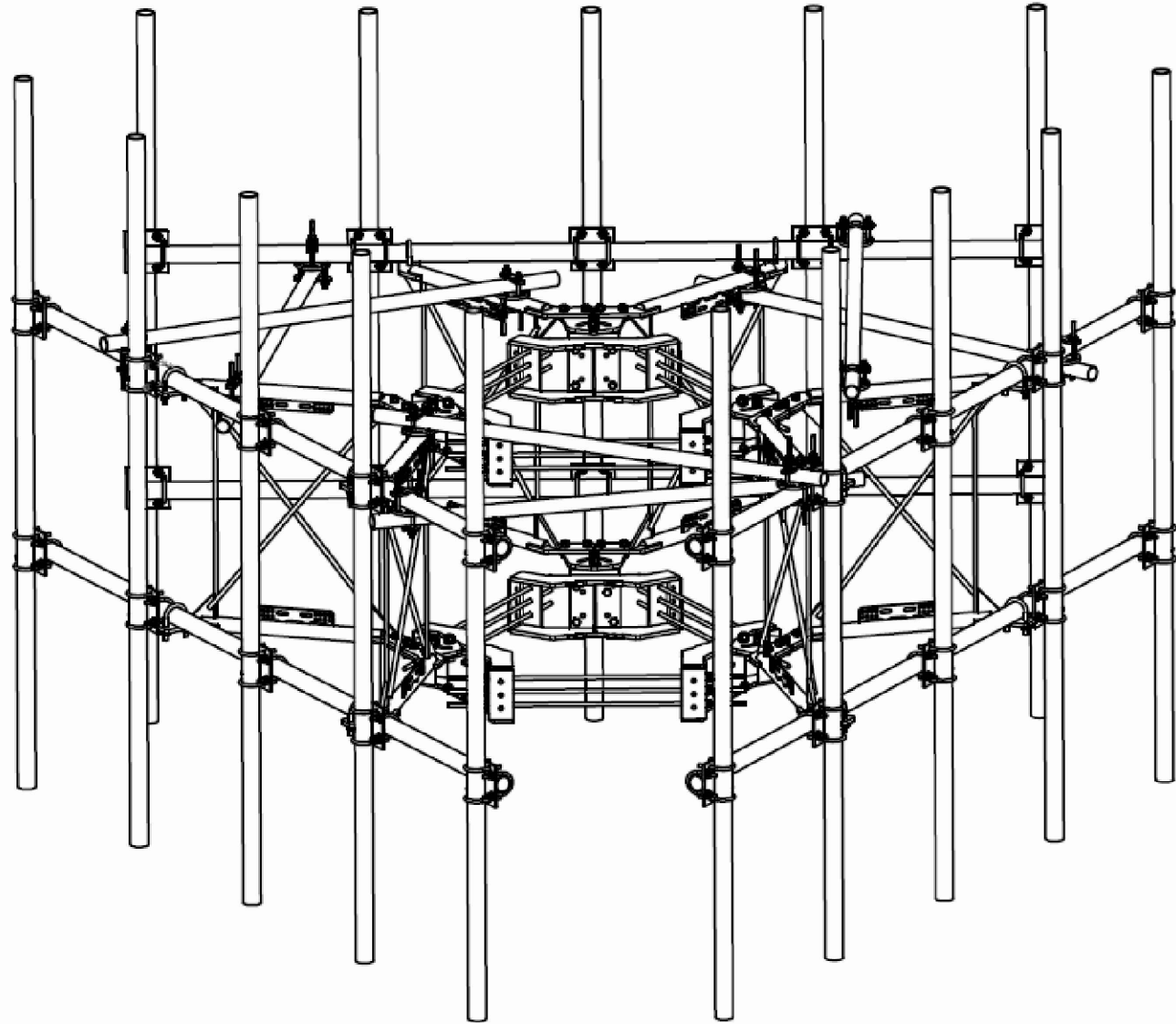
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|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

SUPPLEMENTAL

SHEET NUMBER:
R-601
REVISION:
0



| PARTS LIST | | | | | | |
|-------------|-----|----------|--|-----------|----------|---------|
| ITEM | QTY | PART NO. | PART DESCRIPTION | LENGTH | UNIT WT. | NET WT. |
| 1 | 6 | X-LWRM | RING MOUNT WELDMENT | | 68.81 | 412.85 |
| 2 | 6 | X-RMBP | RING MOUNT BENT PLATE CONNECTION | 15 1/2 in | 17.02 | 102.13 |
| 3 | 6 | X-VFAPL4 | VFA-HD PIVOT PLATE | 12 in | 15.88 | 95.30 |
| 4 | 6 | X-VFAW | SUPPORT ARM | | 71.41 | 428.44 |
| 5 | 30 | SCX2 | CROSSOVER PLATE | 7 in | 4.80 | 143.89 |
| 6 | 6 | P284 | 2-3/8" X 84" SCH 40 GALVANIZED PIPE | 84 in | 26.91 | 161.47 |
| 7 | 15 | P30120 | 2-7/8" x 120" (2-1/2" SCH. 40) GALVANIZED PIPE | 120 in | 58.07 | 870.99 |
| 8 | 6 | P30150 | 2-7/8" X 150" (2-1/2" SCH. 40) GALVANIZED PIPE | 150 in | 76.94 | 461.62 |
| 9 | 12 | X-127594 | FLAT DISK CLAMP PLATE 4" CENTERS (GALV.) | | 2.51 | 30.08 |
| 10 | 24 | X-100064 | CLAMP (4" V-CLAMP) GALVANIZED | | 0.92 | 22.12 |
| 11 | 12 | A34212 | 3/4" x 2-1/2" UNC HEX BOLT (A325) | 2 1/2 in | 0.48 | 5.75 |
| 12 | 18 | G34FW | 3/4" HDG USS FLATWASHER | | 0.06 | 1.06 |
| 13 | 12 | G34LW | 3/4" HDG LOCKWASHER | | 0.04 | 0.51 |
| 14 | 12 | G34NUT | 3/4" HDG HEAVY 2H HEX NUT | | 0.21 | 2.55 |
| 15 | 18 | G58R-48 | 5/8" x 48" THREADED ROD (HDG.) | | 4.18 | 75.27 |
| 16 | 12 | X-UB5300 | 5/8" X 3" X 5-1/4" X 2-1/2" U-BOLT (HDG.) | | 1.15 | 13.79 |
| 17 | 24 | A582112 | 5/8" x 2-1/2" HDG A325 HEX BOLT | 2 1/2 in | 0.33 | 8.02 |
| 18 | 24 | A582114 | 5/8" x 2-1/4" HDG A325 HEX BOLT | 2 1/4 in | 0.31 | 7.50 |
| 19 | 108 | G58LW | 5/8" HDG LOCKWASHER | | 0.03 | 2.82 |
| 20 | 108 | G58NUT | 5/8" HDG HEAVY 2H HEX NUT | | 0.13 | 14.03 |
| 21 | 120 | X-UB1300 | 1/2" X 3" X 5" X 2" GALV U-BOLT | | 0.74 | 88.64 |
| 22 | 24 | G12065 | 1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD | 5 1/2 in | 0.41 | 9.83 |
| 23 | 24 | G1204 | 1/2" x 4" HDG HEX BOLT GR5 FULL THREAD | 4 in | 0.27 | 6.48 |
| 24 | 288 | G12FW | 1/2" HDG USS FLATWASHER | 3/32 in | 0.03 | 9.82 |
| 25 | 288 | G12LW | 1/2" HDG LOCKWASHER | 1/8 in | 0.01 | 4.00 |
| 26 | 288 | G12NUT | 1/2" HDG HEAVY 2H HEX NUT | | 0.07 | 20.63 |
| TOTAL WT. # | | | | | | 2999.58 |

TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:
SAWED, SHEARED AND GAS CUT EDGES ($\pm 0.030"$)
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BENDS ARE $\pm 1/2$ DEGREE
ALL OTHER MACHINING ($\pm 0.030"$)
ALL OTHER ASSEMBLY ($\pm 0.060"$)

PROPRIETARY NOTE:
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DESCRIPTION
THREE SECTORS HEAVY WLL FRAME
AND MONOPOLE ATTACHMENT HARDWARE
WITH FIVE MOUNTING PIPES

| | | |
|------------|----------------|---------------|
| CPD NO. | DRAWN BY | ENG. APPROVAL |
| | CEK 10/26/2018 | |
| CLASS | SUB | DRAWING USAGE |
| 81 | 02 | CUSTOMER |
| CHECKED BY | BMC 10/29/2018 | |



Locations:
New York, NY
Atlanta, GA
Los Angeles, CA
Plymouth, IN
Salem, OR
Dallas, TX
Engineering
Support Team:
1-888-753-7446

| | | |
|----------|--------------|----------------|
| PART NO. | VFA12-M3-WLL | PAGE 1 OF 4 |
| DWG. NO. | VFA12-M3-WLL | |

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|------|------------------|-----|----------|
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AT&T MOBILITY SITE NAME:
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SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

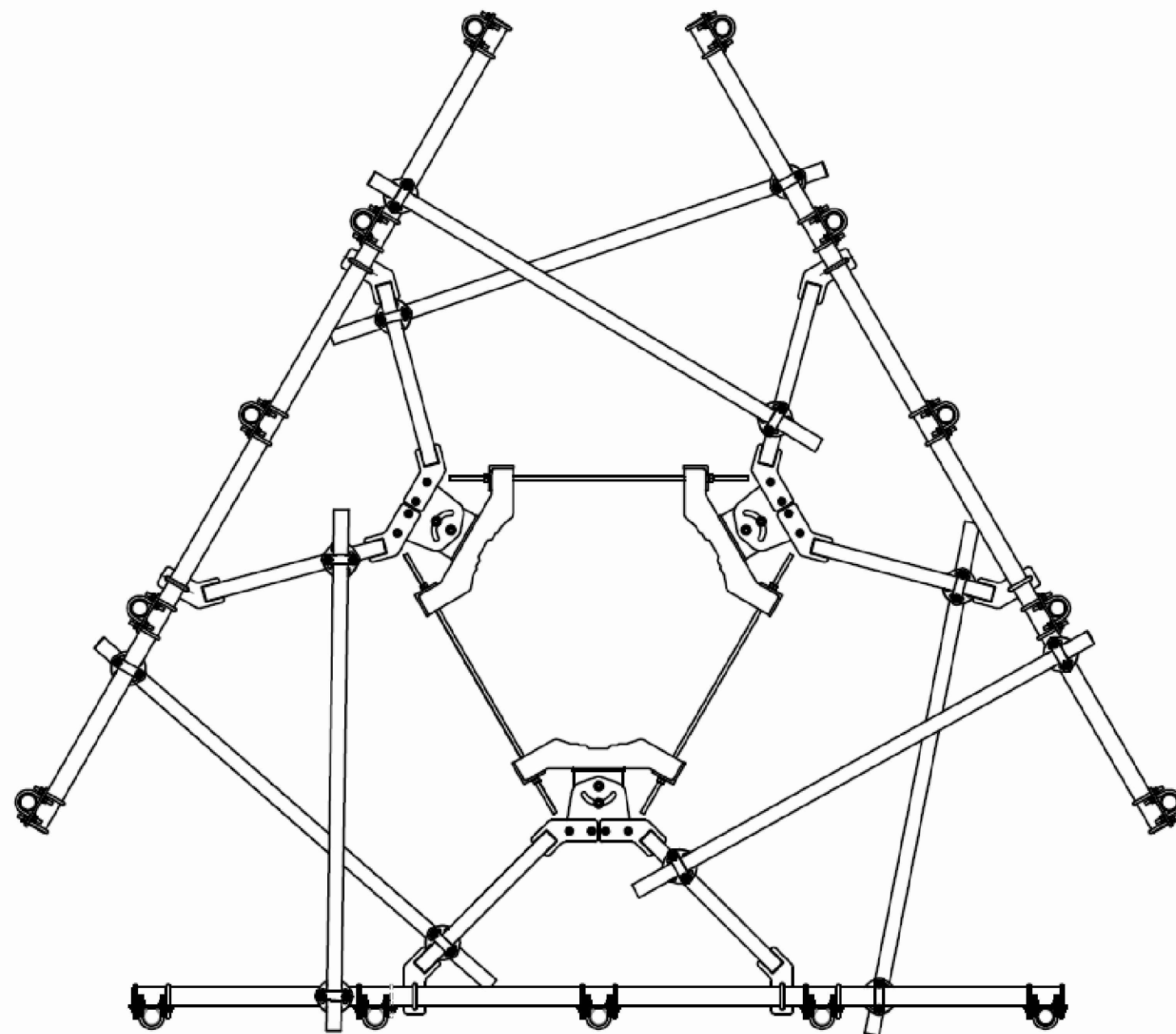
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| | |
|--------------|-------------|
| DATE DRAWN: | 09/16/22 |
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| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

SUPPLEMENTAL



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| | | |
|----------|--------------|----------------|
| PART NO. | VFA12-M3-WLL | 2 OF 4 PAGE |
| DWG. NO. | VFA12-M3-WLL | |

1 SITE PRO 1 VFA12-M3-WLL SECTOR FRAME DETAIL
SCALE: N.T.S.



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SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

SEAL:

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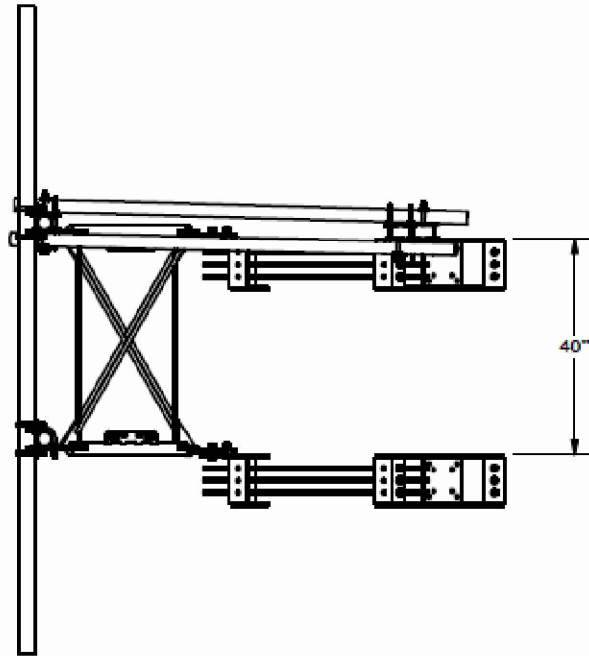
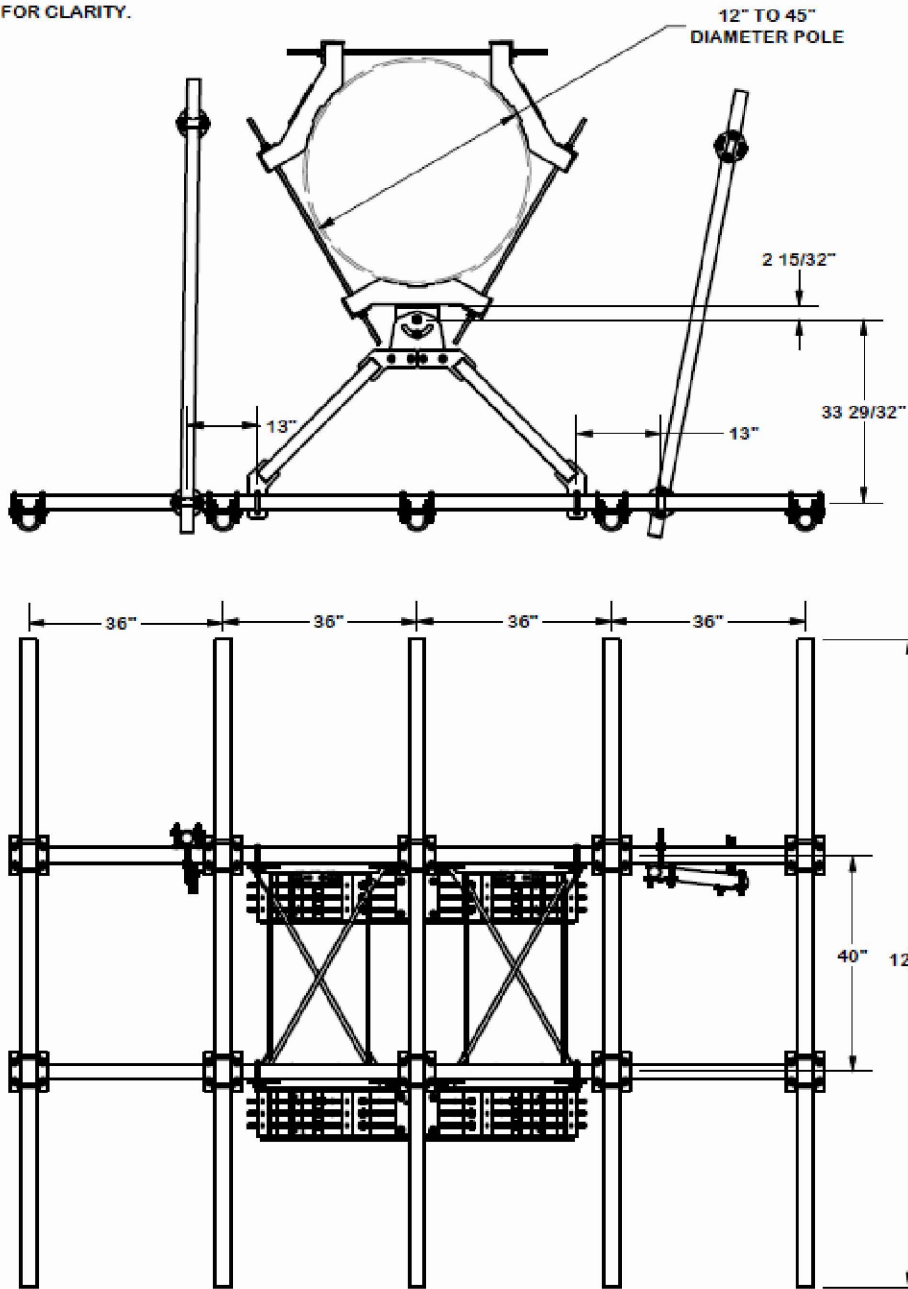


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| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

SUPPLEMENTAL

| | |
|-------------------------------|-----------------------|
| SHEET NUMBER: R-603 | REVISION: 0 |
|-------------------------------|-----------------------|

NOTE:
OTHER SECTORS REMOVED FOR CLARITY.



TOLERANCE NOTES

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THREE SECTORS HEAVY WLL FRAME
AND MONOPOLE ATTACHMENT HARDWARE
WITH FIVE MOUNTING PIPES

| | | |
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| CPD NO. | DRAWN BY | ENG. APPROVAL |
| | CEK 10/26/2018 | |
| CLASS | DRAWING USAGE | CHECKED BY |
| 81 02 | CUSTOMER | BMC 10/29/2018 |



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Plymouth, IN
Salem, OR
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Support Team:
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| | |
|----------|--------------|
| PART NO. | VFA12-M3-WLL |
| DWG. NO. | VFA12-M3-WLL |

PAGE
3 OF 4

1 SITE PRO 1 VFA12-M3-WLL SECTOR FRAME DETAIL
SCALE: N.T.S.



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| 0 | FOR CONSTRUCTION | DGD | 09/16/22 |

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RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

SEAL:

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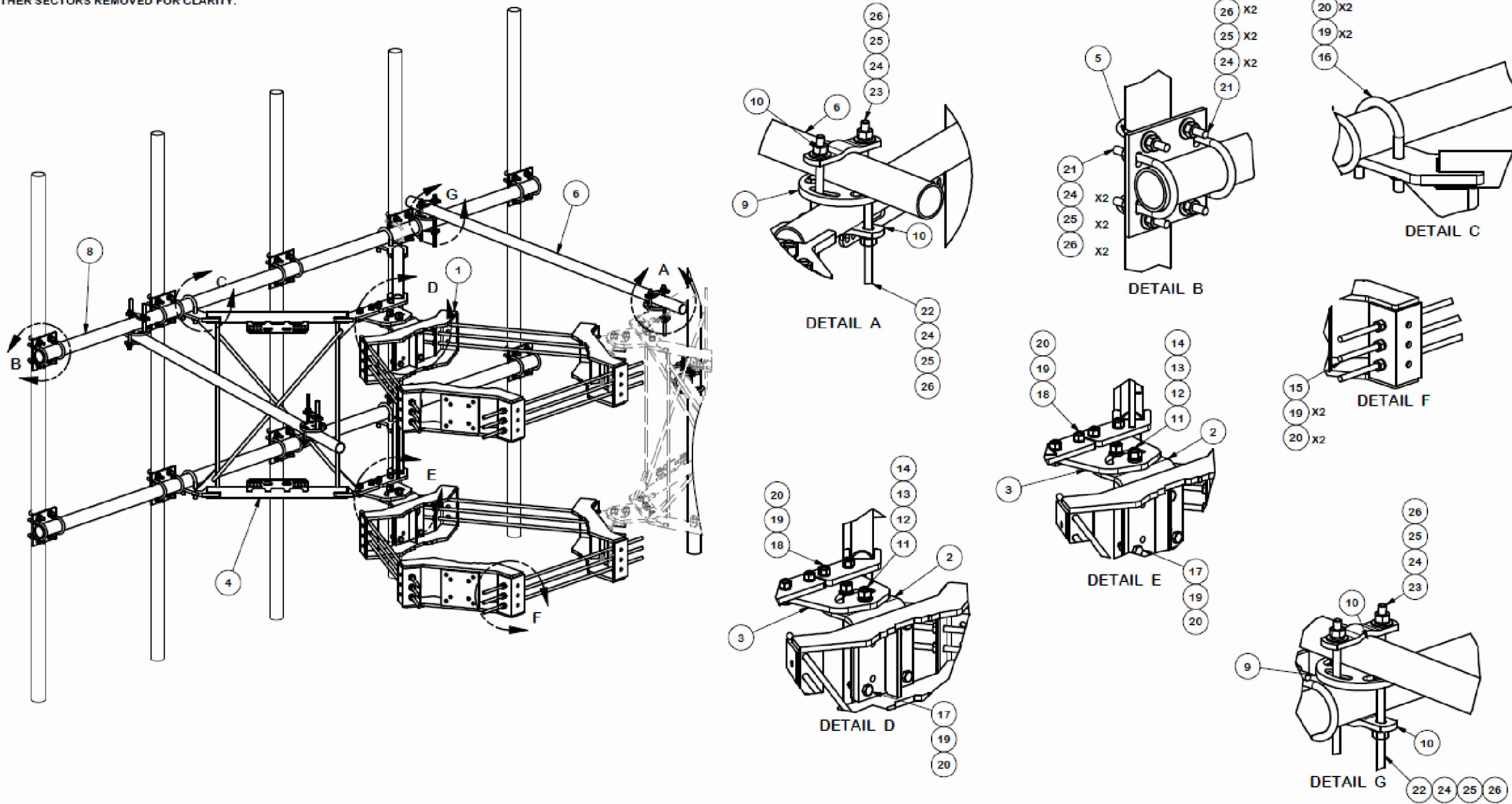


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| DATE DRAWN: | 09/16/22 |
| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

SUPPLEMENTAL

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|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| R-604 | 0 |

NOTE:
OTHER SECTORS REMOVED FOR CLARITY.



TOLERANCE NOTES

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| SUB | DRAWING USAGE | CHECKED BY |
| 81 | CUSTOMER | BMC 10/29/2018 |



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PART NO. VFA12-M3-WLL

DWG. NO. VFA12-M3-WLL

PAGE
4 OF 4

1 SITE PRO 1 VFA12-M3-WLL SECTOR FRAME DETAIL

SCALE: N.T.S.

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AT&T MOBILITY SITE NAME:

BELLINGHAM MAPLE STREET

SITE ADDRESS:

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BELLINGHAM, MA 02019-3019

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SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

0



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

ATC Site Name : RJ COBB
ATC Site Number : 91567
Engineering Number : 13330269_C8_01
ETS, PLLC Job Number : 21090471.STR.5368
Mount Elevation : 135 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB048320
Carrier Site Number : MA18335
Site Location : 236 Maple Street
Bellingham, MA 02019-3019
42.102300, -71.447100
County : Norfolk
Date : March 25, 2021
Max Usage : 78%
Result : Replacement - Pass

Prepared By:
Douglas H. Kosiba, PE
Structural Engineering Lead

Reviewed By:
F. Geoffrey Bost, PE
President/Owner



Engineered Tower Solutions, PLLC - 3227 Wellington Court, Raleigh, NC 27615 - 919.782.2710 Office - www.engineeredtowersolutions.com



Eng. Number 13330269_C8_01
March 25, 2021
Page 1

Introduction

The purpose of this report is to summarize results of the antenna mount analysis performed for AT&T Mobility at 135 ft.

Supporting Documents

| | |
|-------------|---|
| Spec. Sheet | Site Pro 1 VFA12-M3-WLL, dated October 29, 2018 |
| RFDS | RFDS (15336751) dated March 2, 2021 |

Analysis

This antenna mount was analyzed using RISA-3D v17.0.4 analysis software

| | |
|-------------------------------|--|
| Basic Wind Speed: | 121 mph (3-Second Gust) |
| Basic Wind Speed w/ Ice: | 50 mph (3-Second Gust) w/ 1" radial ice concurrent |
| Codes: | ANSI/TIA-222-H |
| Structure Class: | II |
| Exposure Category: | B |
| Topographic Factor Procedure: | Method 2 |
| Feature: | Flat |
| Crest Height (H): | 0 ft |
| Crest Length (L): | 0 ft |
| Spectral Response: | Ss = 0.212, S1 = 0.059 |
| Site Class: | D - Default |
| Live Loads: | Lm = 500 lbs, Lv = 250 lbs |

Conclusion

The below mount shall be installed to support the customer's proposed loading configuration. Based on the analysis results, the proposed mount meets the requirements, per the applicable codes listed above, and can support the equipment as described in this report.

Site Pro 1 VFA12-M3-WLL

If you have any questions or require additional information, please contact American Tower via email at ENG.Outsource@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Engineered Tower Solutions, PLLC - 3227 Wellington Court, Raleigh, NC 27615 - 919.782.2710 Office - www.engineeredtowersolutions.com



| | | |
|-----------------------|---------------|--------------------------|
| ETS, PLLC | RJ COBB - ATT | SK - 1 |
| DHK | | Mar 25, 2021 at 10:14 PM |
| ETS#21090471.STR.5368 | | RJ COBB - AT&T r3d |



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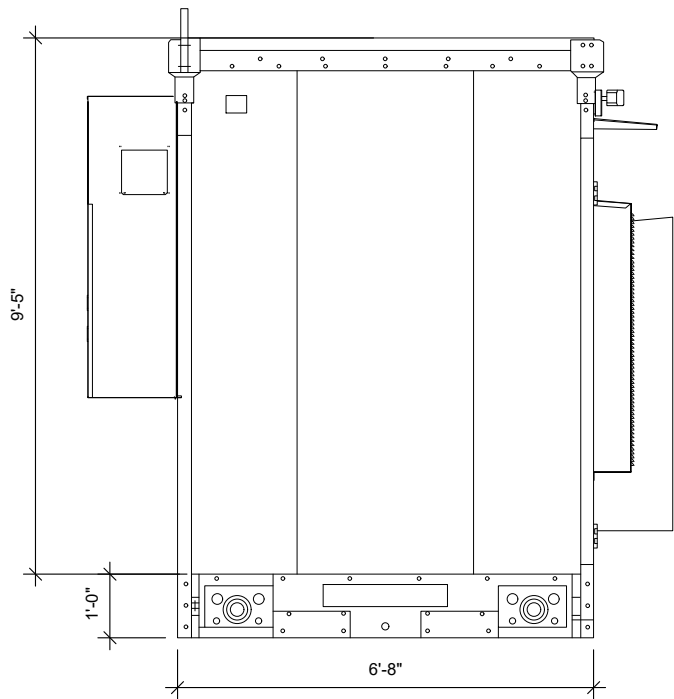
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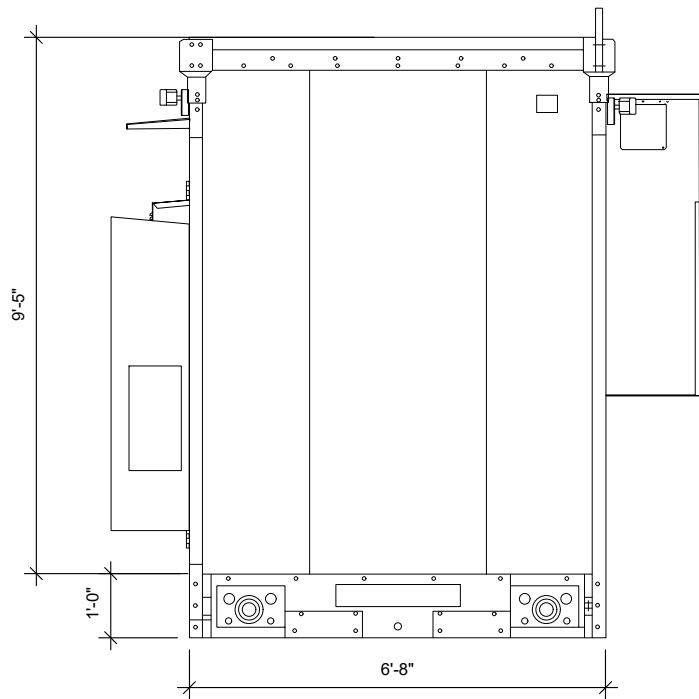
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SUPPLEMENTAL

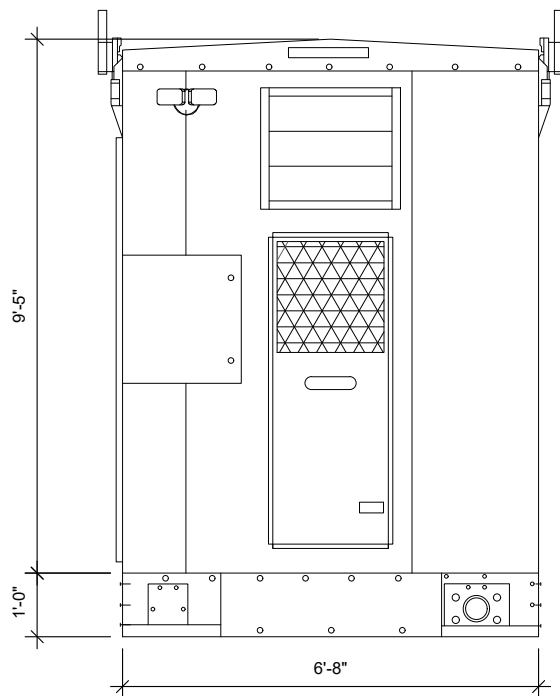
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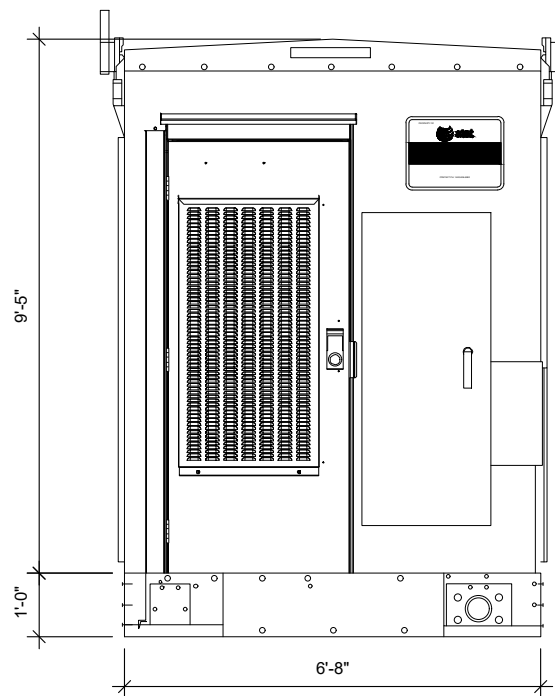
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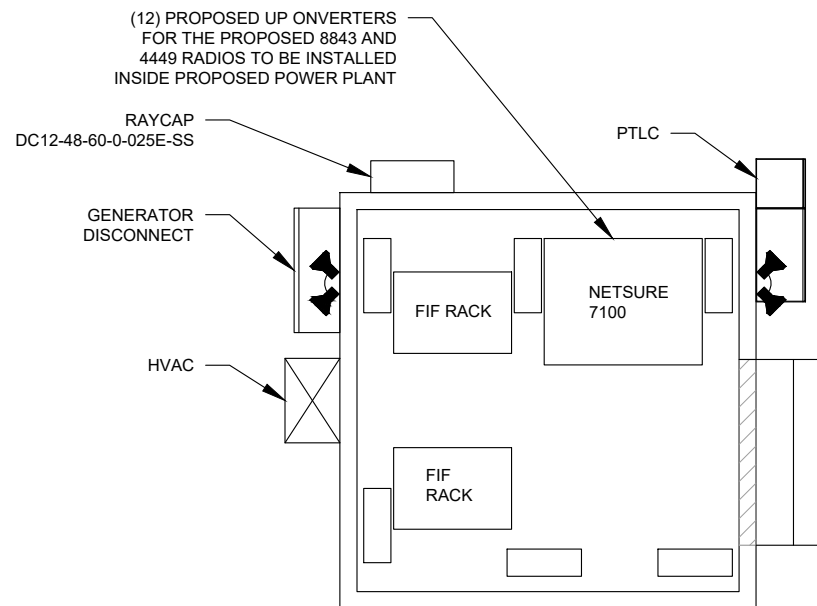
2 RIGHT ELEVATION
SCALE: NOT TO SCALE



3 REAR ELEVATION
SCALE: NOT TO SCALE



4 FRONT ELEVATION
SCALE: NOT TO SCALE



5 EQUIPMENT LAYOUT
SCALE: NOT TO SCALE



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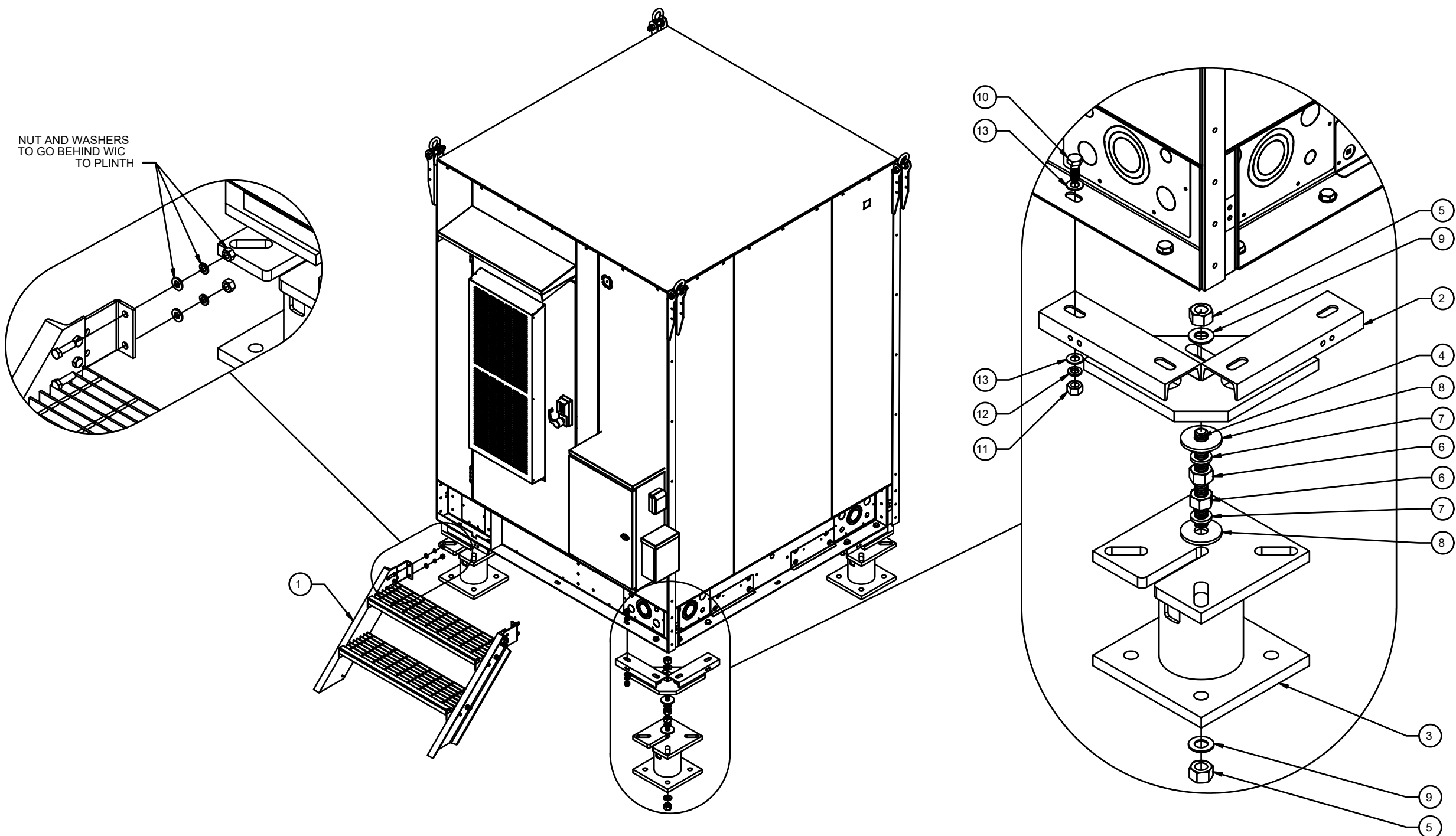
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| ATC JOB NO: | 13330269_G2 |
| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

SUPPLEMENTAL

| | |
|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| R-607 | 0 |



NUT AND WASHERS
TO GO BEHIND WIC
TO PLINTH

1

10

13

5

9

2

4

8

7

6

6

7

8

3

9

5

13

12

11

- NOTES:**
- WIC DETAIL BASED ON DRAWINGS BY VERTIV
 - ANCHOR WIC OR PLINTH W/ 1/2" HILTI TZ ANCHORS, EMBEDDED 3-3/4" WITH HILTI HY200 EPOXY ADHESIVE COMPOUND.
 - GALVANIZED P1000 TO BE UTILIZED AT WIC FOR DC12, FMB & RRH'S. CAP ENDS & INSTALL PER MANUFACTURER RECOMMENDATIONS.

1 WIC SHELTER DETAILS
SCALE: NOT TO SCALE

| ITEM NO. | QTY. | PART NUMBER | DESCRIPTION | WEIGHT |
|----------|------|----------------|---|--------|
| 1 | 1 | 1003-0000-0016 | WIC 2-STEP STAIRS KIT, 45 DEGREE | 102.9 |
| 2 | 4 | W-000-771 | ATT WIC HELICAL ADAPTER WELDMENT | 44.9 |
| 3 | 4 | W-000-847 | 6" X 11" EXTENSION WELDMENT | 81.5 |
| 4 | 4 | 002-0AT-H000 | ROD, THREADED, 1.00"-8 X 9.00" LG, ASTM A193 B7, GALV | 1.60 |
| 5 | 8 | 002-0NG-0000 | NUT, HX, ANCO LOCK, 1.00-8UNC, GR 2H, GALV | 0.43 |
| 6 | 8 | 002-0NG-0008 | NUT, HX, 1.00"-8UNC, GR 2H, GALV | 0.42 |
| 7 | 8 | 002-0LW-G008 | WASHER, SPLIT LOCK, 1.00", GALV | 0.09 |
| 8 | 8 | 002-0FW-G024 | WASHER, FLAT, 1.063 ID, 3.25 OD, GALV | 0.07 |
| 9 | 8 | 002-0FW-G009 | WASHER, FLAT, 1.00", F436, GALV | 0.08 |
| 10 | 16 | 002-0BG-0033 | BOLT, HX HD, .625-11UNC X 1.75" LG, ASTM A325, GALV | 0.03 |
| 11 | 16 | 002-0NG-0011 | NUT, HX, .625-11UNC, GR DH, GALV | 0.12 |
| 12 | 16 | 002-0LW-G004 | WASHER, SPLIT LOCK, .625 INCH, GALV | 0.03 |
| 13 | 32 | 002-0FW-G004 | WASHER, FLAT, .625", ASTM F436, GALV | 0.03 |



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ENGINEERING, PLLC
1033 WATERVLIET SHAKER RD
ALBANY, NY 12205

| REV. | DESCRIPTION | BY | DATE |
|------|------------------|-----|----------|
| A | PRELIM | DB | 12/30/20 |
| B | PRELIM | SP | 08/15/22 |
| C | PRELIM | RCD | 08/16/22 |
| D | PRELIM | DGD | 09/14/22 |
| 0 | FOR CONSTRUCTION | DGD | 09/16/22 |

ATC SITE NUMBER:
91567
ATC SITE NAME:
RJ COBB
AT&T MOBILITY SITE NAME:
BELLINGHAM MAPLE STREET
SITE ADDRESS:
236 MAPLE STREET
BELLINGHAM, MA 02019-3019

SEAL:

**FOR
REFERENCE
ONLY**

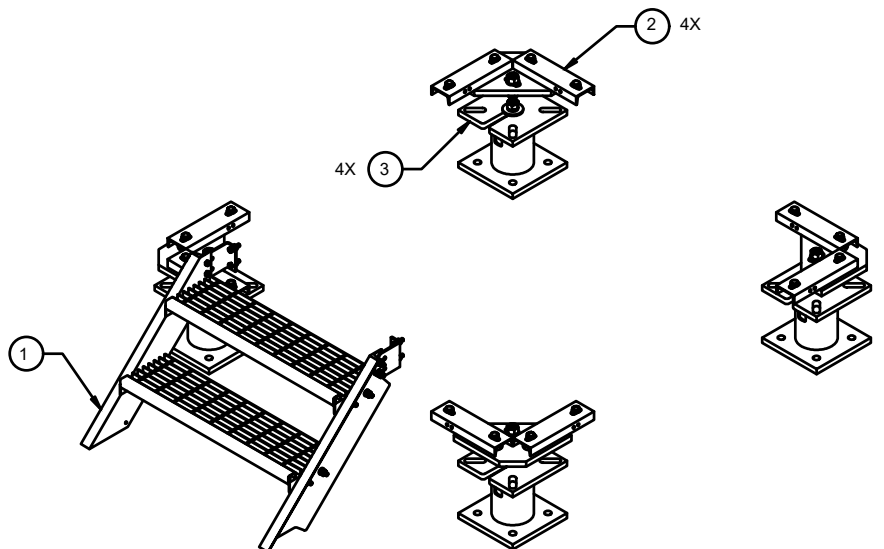
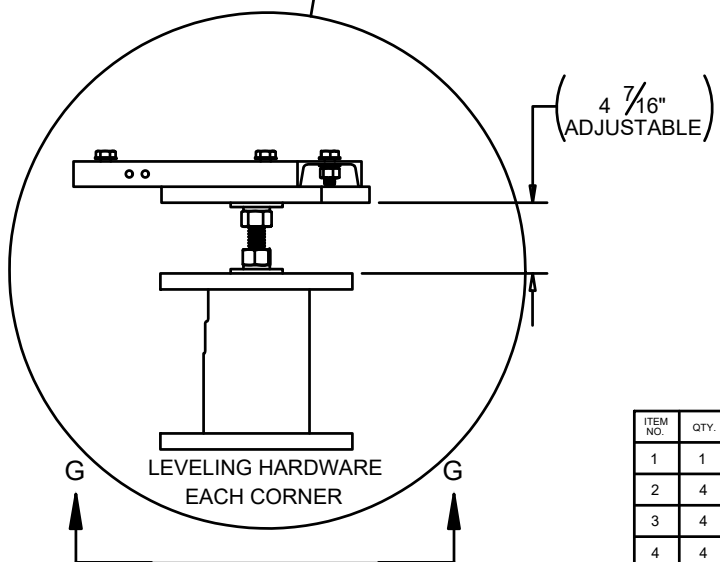
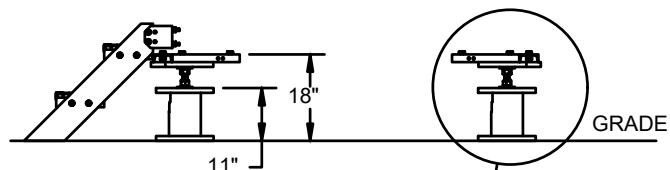
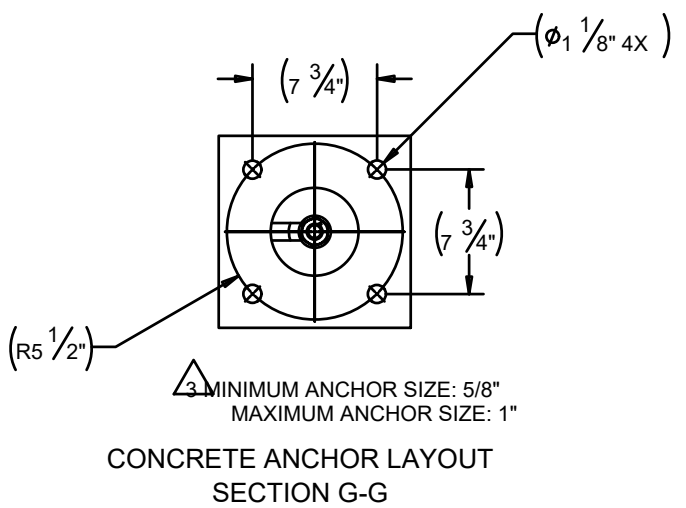
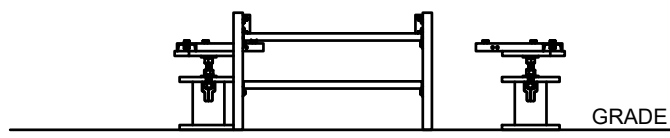
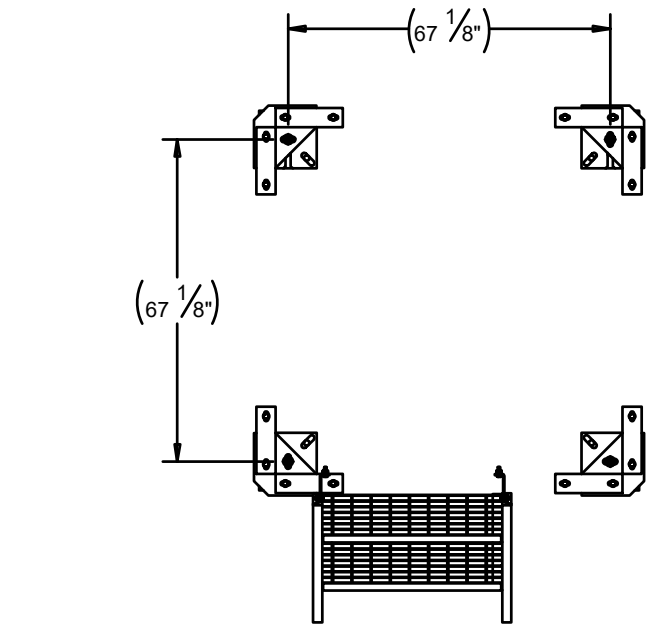


| | |
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| DATE DRAWN: | 09/16/22 |
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| CUSTOMER ID: | MA1833 |
| CUSTOMER #: | 15336751 |

SUPPLEMENTAL

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| SHEET NUMBER: | REVISION: |
| R-608 | 0 |

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| 12 | 16 | 002-0LW-G004 | WASHER, SPLIT LOCK, .625 INCH, GALV | 0.03 |
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SUPPLEMENTAL

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|---------------|-----------|
| SHEET NUMBER: | REVISION: |
| R-609 | 0 |