

VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: PARLIN - SAYREVILLE
 ATC SITE NUMBER: 373155
 AT&T SEARCH RING: W-5836
 AT&T PACE NUMBER: MRNYJ007953,
 MRNYJ011805, MRNYJ011801, MRNYJ011847
 AT&T SITE ID: NWL05836
 AT&T FA CODE: 14652316
 AT&T SITE NAME: PARLIN - NYCWNJ5836
 SITE ADDRESS: 775 WASHINGTON ROAD
 PARLIN, NJ 08859-0000



LOCATION MAP

AT&T MOBILITY COLOCATION PLAN

SHEET INDEX

COMPLIANCE CODE
<p>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.</p> <ol style="list-style-type: none"> 2018 INTERNATIONAL BUILDING CODE (IBC), NEW JERSEY EDITION 2017 NATIONAL ELECTRIC CODE (NEC) LOCAL BUILDING CODE CITY/COUNTY ORDINANCES

PROJECT SUMMARY		
<p><u>SITE ADDRESS:</u> 775 WASHINGTON ROAD PARLIN, NJ 08859-0000 COUNTY: MIDDLESEX</p> <p><u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 40.46313889 LONGITUDE: -74.33 GROUND ELEVATION: 114' AMSL</p>		
<p>PROJECT TEAM</p> <table border="0"> <tr> <td><u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801</td> <td><u>APPLICANT:</u> AT&T MOBILITY</td> </tr> </table>	<u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801	<u>APPLICANT:</u> AT&T MOBILITY
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PROJECT DESCRIPTION
<p>THE PROPOSED PROJECT INCLUDES INSTALLING EQUIPMENT CABINETS AND A GENERATOR ON A PROPOSED CONCRETE PAD INSIDE A 10' X 30' GROUND SPACE WITHIN THE EXISTING COMPOUND, AND INSTALLING NEW EQUIPMENT AND MOUNTS ON THE EXISTING TOWER.</p>
<p>PROJECT NOTES</p> <ol style="list-style-type: none"> 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.

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	09/01/2021	TMM
G-002	GENERAL NOTES	0	09/01/2021	TMM
C-001	OVERALL SITE PLAN	0	09/01/2021	TMM
C-101	DETAILED SITE PLAN	0	09/01/2021	TMM
C-102	DETAILED EQUIPMENT LAYOUT	0	09/01/2021	TMM
C-201	TOWER ELEVATION	0	09/01/2021	TMM
C-401	ANTENNA INFORMATION & SCHEDULE	0	09/01/2021	TMM
C-501	MOUNT DETAILS	0	09/01/2021	TMM
C-502	CONSTRUCTION DETAILS	0	09/01/2021	TMM
C-503	CONSTRUCTION DETAILS	0	09/01/2021	TMM
C-504	CONSTRUCTION DETAILS	0	09/01/2021	TMM
C-505	GENERATOR SPECIFICATIONS	0	09/01/2021	TMM
E-101	GROUNDING DETAILS & ELECTRICAL SCHEMATIC	0	09/01/2021	TMM
E-102	GROUNDING DETAIL	0	09/01/2021	TMM
E-501	GROUNDING DETAILS	0	09/01/2021	TMM
E-601	PANEL SCHEDULE	0	09/01/2021	TMM
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			
R-605	SUPPLEMENTAL			
R-606	SUPPLEMENTAL			
R-607	SUPPLEMENTAL			
R-608	SUPPLEMENTAL			

UTILITY COMPANIES
<p>POWER COMPANY: FIRST ENERGY COS PHONE: (888) 544-4877</p> <p>TELEPHONE COMPANY: VERIZON PHONE: (800) 837-4966</p>

ENGINEER:
<p>RPM ENGINEERING LLC 139 East Chestnut Street Coatesville PA 19320</p>
<p><u>PROPERTY OWNER:</u> COLUMBUS CLUB 775 WASHINGTON ROAD - PARLIN - NJ - 08859</p> <p>AMERICAN TOWER 116 HUNTINGTON AVE BOSTON, MA 02116</p>

PROJECT LOCATION DIRECTIONS
<p>FROM NORTH JERSEY/NY AREA -TAKE NJ TURNPIKE SOUTH TO ROUTE 9 SOUTH TO ERNSTON RD WEST TO WASHINGTON MAKE RIGHT ,MAKE A RIGHT ON SHREE TOWARD HISH TEMPLE. TOWER IS ON RIGHT.</p>

AMERICAN TOWER®
 ATC TOWER SERVICES, LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 24GA28099400

RPM ENGINEERING
With Integrity

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21
0	FINAL	TMM	09/01/21

ATC SITE NUMBER:
373155

ATC SITE NAME:
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:
PARLIN - NYCWNJ5836

SITE ADDRESS:
775 WASHINGTON ROAD
PARLIN, NJ 08859-0000

SEAL:

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

TITLE SHEET

SHEET NUMBER: G-001	REVISION: 0
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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 ANSII/EIA/ITIA-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, UNGRATE, 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 1/2" 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 OF 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:

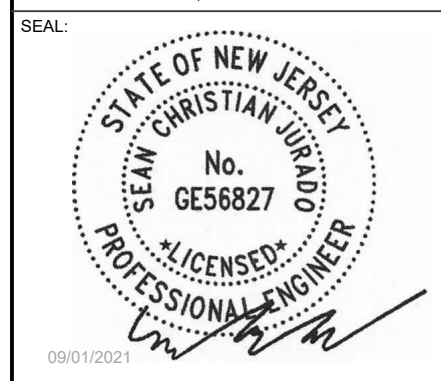
- 1. ELECTRICAL DESIGN SHALL BE PERFORMED BY ELECTRICAL CONTRACTOR. STRUCTURAL DESIGN SHALL BE PERFORMED BY GENERAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL ENSURE THAT ALL WORK COMPLIES WITH ALL APPLICABLE LOCAL AND STATE CODES AND NATIONAL ELECTRICAL CODE.
2. ALL SUGGESTED ELECTRICAL ELEMENTS (SUCH 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 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.



REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21
0	FINAL	TMM	09/01/21

ATC SITE NUMBER: 373155
ATC SITE NAME: PARLIN - SAYREVILLE
AT&T MOBILITY SITE NAME: PARLIN - NYCWNJ5836
SITE ADDRESS: 775 WASHINGTON ROAD PARLIN, NJ 08859-0000



DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

GENERAL NOTES	
SHEET NUMBER:	REVISION:
G-002	A

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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)



EXISTING STRUCTURES WITHIN 200' OF PROPERTY LINE

NORTH	±136'
EAST	±9'
SOUTH	±106'
WEST	±34'

EXISTING STRUCTURES OUTWARD ±500' OF PROPERTY LINE

SCHOOL	> 500'
PARK	> 500'
DAY CARE CENTER	> 500'
CELL TOWER	> 500'
NEAREST RESIDENTIAL AREA	±59'
NEAREST RESIDENTIAL STRUCTURE	±136'

TRACT DESCRIPTION:

- NORTHERLY AND ALONG THE AFORESAID DIVIDING LINE AND BINDING THEREON 500 FEET TO A POINT; THENCE
- EASTERLY AND PARALLEL WITH WASHINGTON ROAD, 200 FEET TO A POINT; THENCE
- SOUTHERLY AND PARALLEL WITH THE FIRST COURSE, 500 FEET TO A POINT IN THE NORTHERLY LING OF WASHINGTON ROAD; THENCE
- WESTERLY AND ALONG THE NORTHERLY LING OF SAID WASHINGTON ROAD AND BINDING THEREON 200 FEET TO THE POINT OR PLACE OF BEGINNING.

(FOR MORE DETAILED ZONING INFORMATION SEE ZONING TABLE ON PAGE R-608)

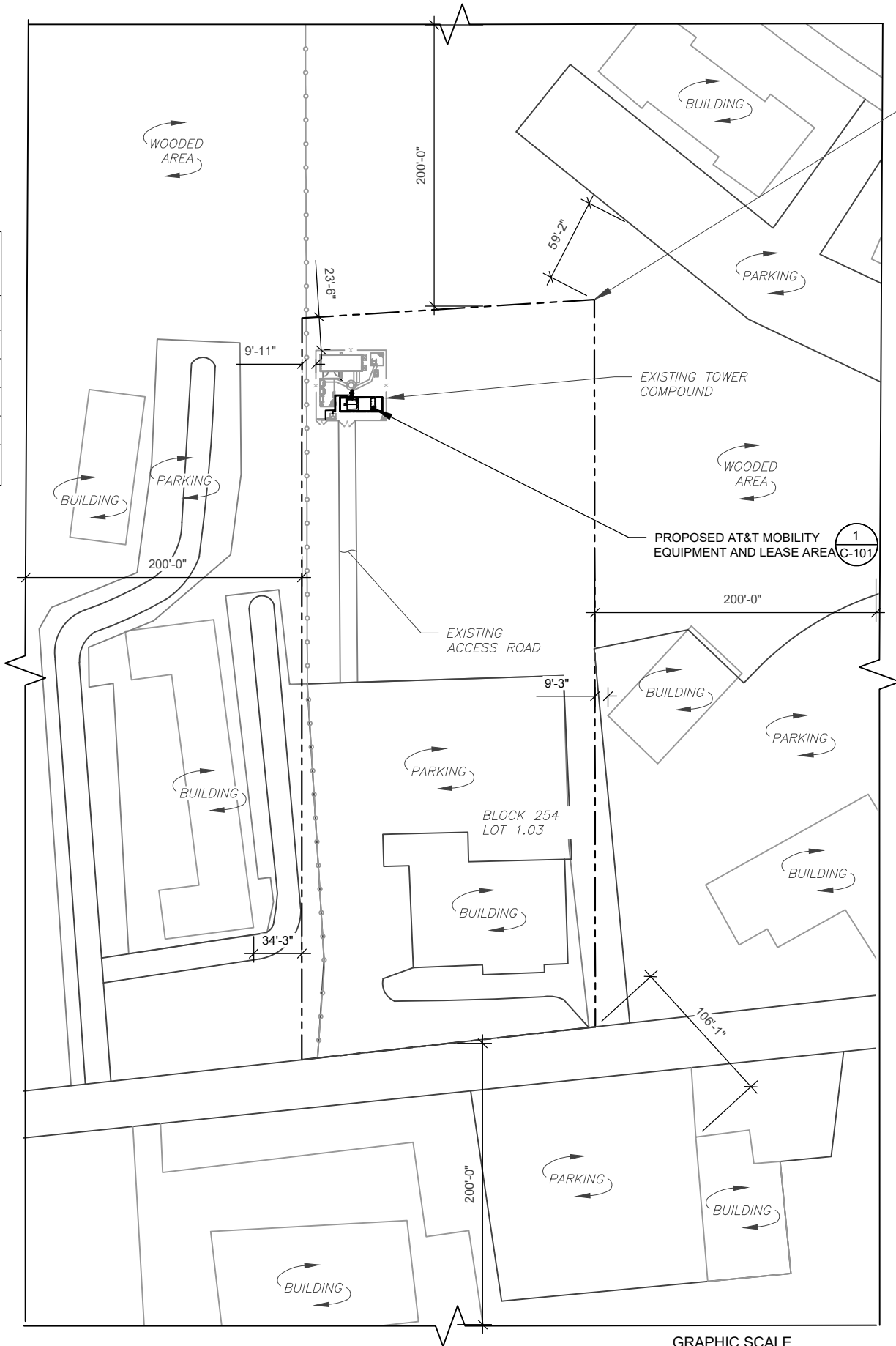
ZONE 1-B: NEIGHBORHOOD BUSINESS

ITEM	REQUIRED	EXISTING	PROPOSED
MIN AREA SQ. FT	10,000	99,734	NO CHANGE
MIN LOT WIDTH	100'	200'	NO CHANGE
MIN LOT DEPTH	100'	500'	NO CHANGE
MIN FRONT YARD SETBACK	20'	35'-2"	NO CHANGE
MIN SIDE YARD SETBACK ONE	10'	10'-10"	NO CHANGE
MIN SIDE YARD SETBACK BOTH	20'	31'-1"	NO CHANGE
MIN REAR YARD SETBACK	20'	23'-1"	NO CHANGE
MAX BUILDING HEIGHT	35'	(E) 125'	NO CHANGE
MAX LOT COVERAGE (BUILDING)	25%	8.6%	NO CHANGE
MAX LOT COVERAGE (BUILDING & PAVEMENT)	85%	46.61%	46.91%

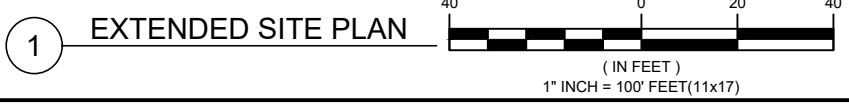
ADDITIONAL TELECOMMUNICATIONS REQUIREMENTS (ORDINANCE 26-87)

ITEM	REQUIRED	EXISTING	PROPOSED
MAX TOWER HEIGHT	150'	125'	NO CHANGE
FRONT YARD SETBACK (75% TW. HT.)	93.75'	447'	NO CHANGE
SIDE YARD SETBACK - EAST (75% TWR. HT.)	93.75'	147'-2"	NO CHANGE
SIDE YARD SETBACK - WEST (75% TWR. HT.)	93.75'	(E) 24'-6"	NO CHANGE
REAR YARD SETBACK (75% OF TWR. HT.)	93.75'	(E) 28'-1"	NO CHANGE

(E) - EXISTING NONCONFORMING CONDITIONS. VARIANCE REQUESTED.



EXISTING PROPERTY LINE IN ACCORDANCE WITH SITE SURVEY PREPARED BY KTP CONSULTING, LLC DATED 02-07-2010 (SEE PAGE R-607 FOR SURVEY REFERENCE DETAILS)



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RPM ENGINEERING
With Integrity

REV.	DESCRIPTION	BY	DATE
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0	FINAL	TMM	09/01/21

ATC SITE NUMBER:
373155

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PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:
PARLIN - NYCWNJ5836

SITE ADDRESS:
775 WASHINGTON ROAD
PARLIN, NJ 08859-0000

SEAL:

09/01/2021

AT&T

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

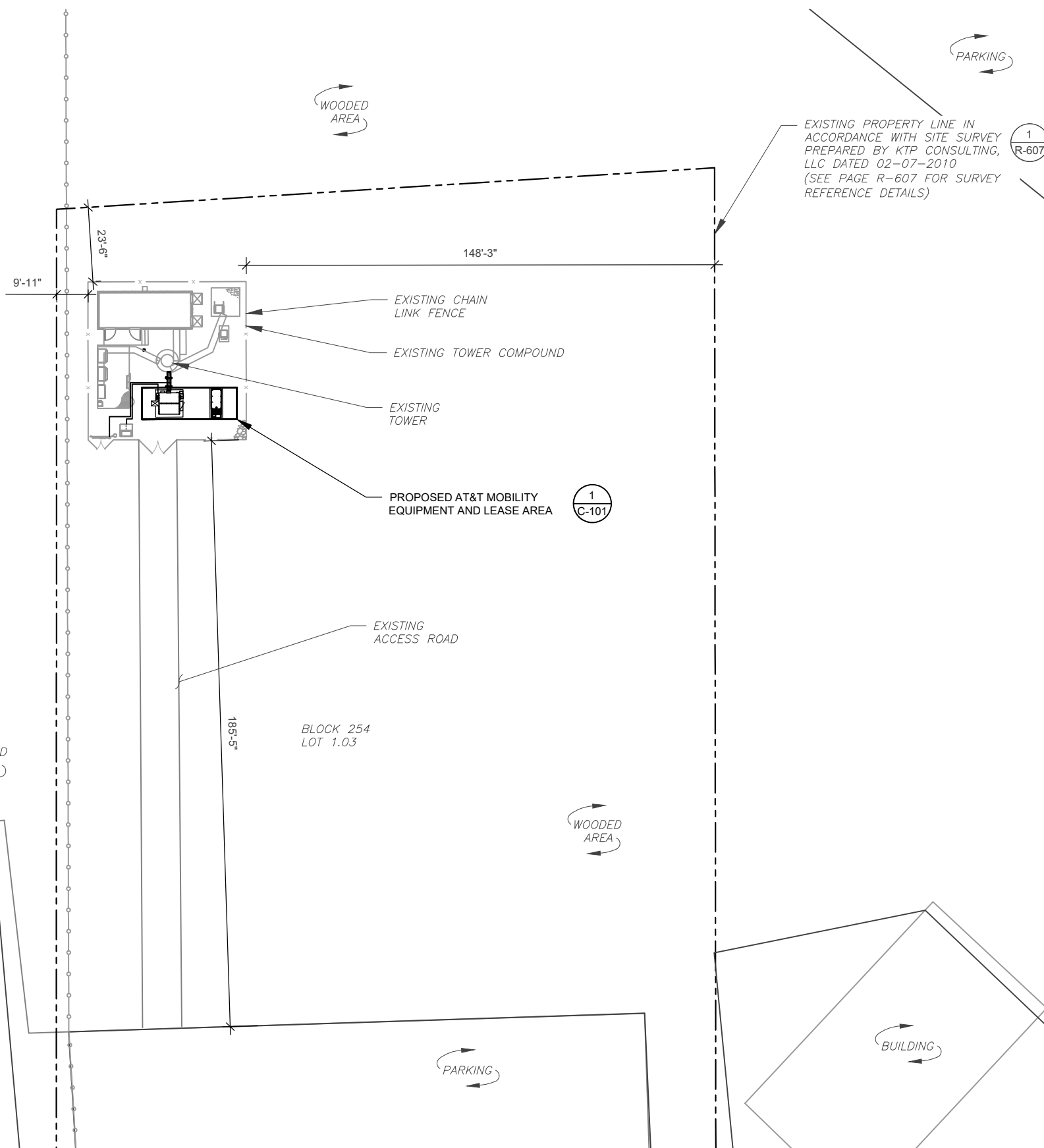
EXTENDED SITE PLAN

SHEET NUMBER: **C-001** REVISION: **B**

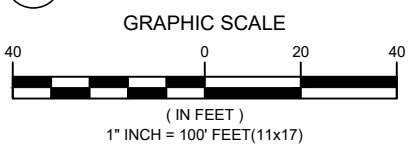
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LEGEND

	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)



1 OVERALL SITE PLAN



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 COA: 24GA28099400

RPM ENGINEERING
With Integrity

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 775 WASHINGTON ROAD
 PARLIN, NJ 08859-0000

SEAL:

09/01/2021



DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

OVERALL SITE PLAN

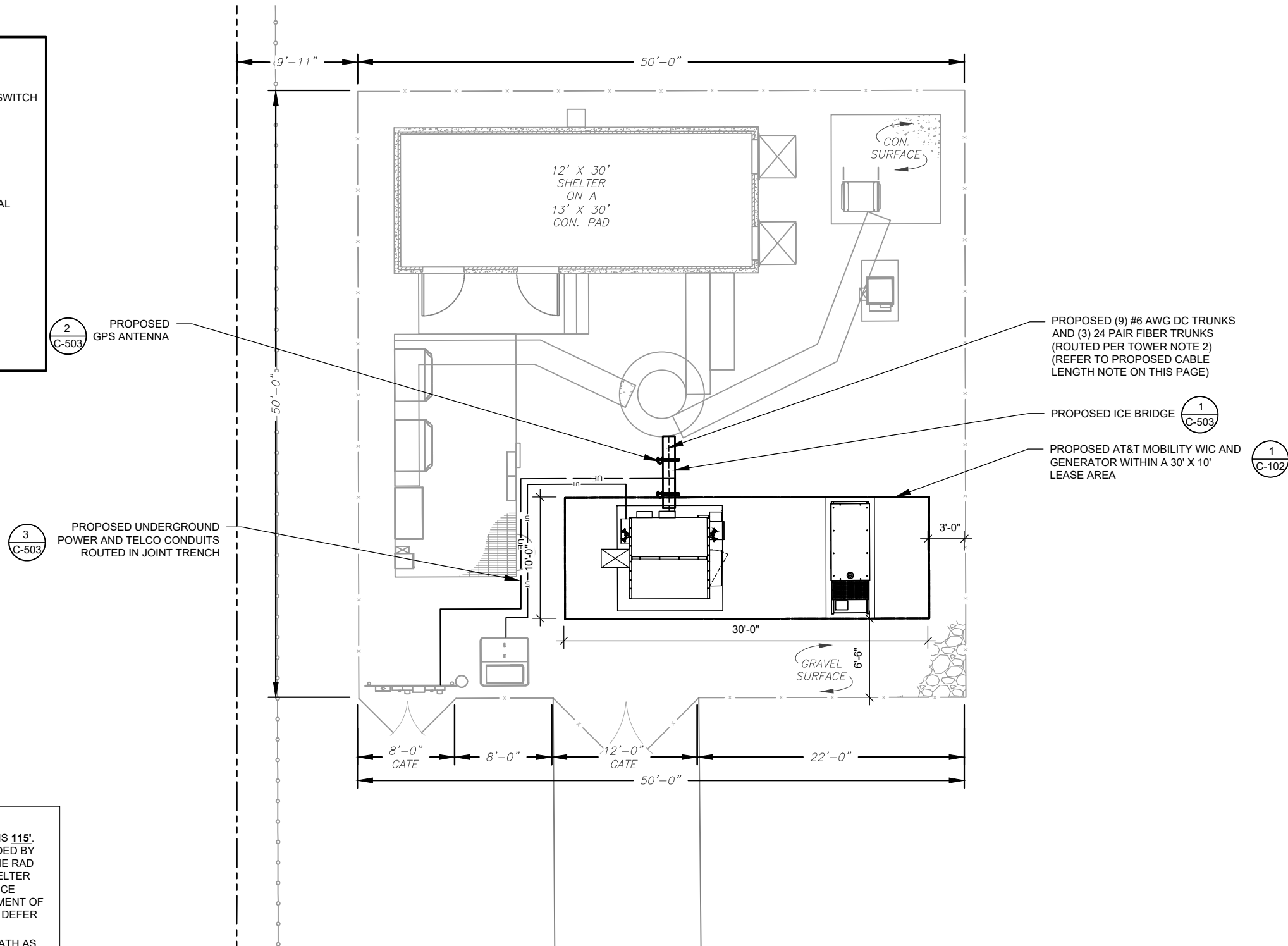
SHEET NUMBER:	REVISION:
C-002	0

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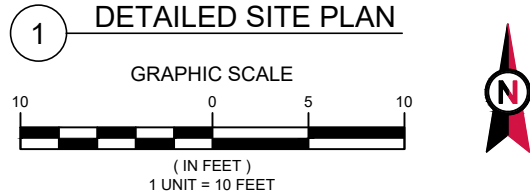
SITE PLAN NOTES:

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 115'. 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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RPM ENGINEERING
With Integrity

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ATC SITE NUMBER:
373155

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PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:
PARLIN - NYCWNJ5836

SITE ADDRESS:
 775 WASHINGTON ROAD
 PARLIN, NJ 08859-0000

SEAL:

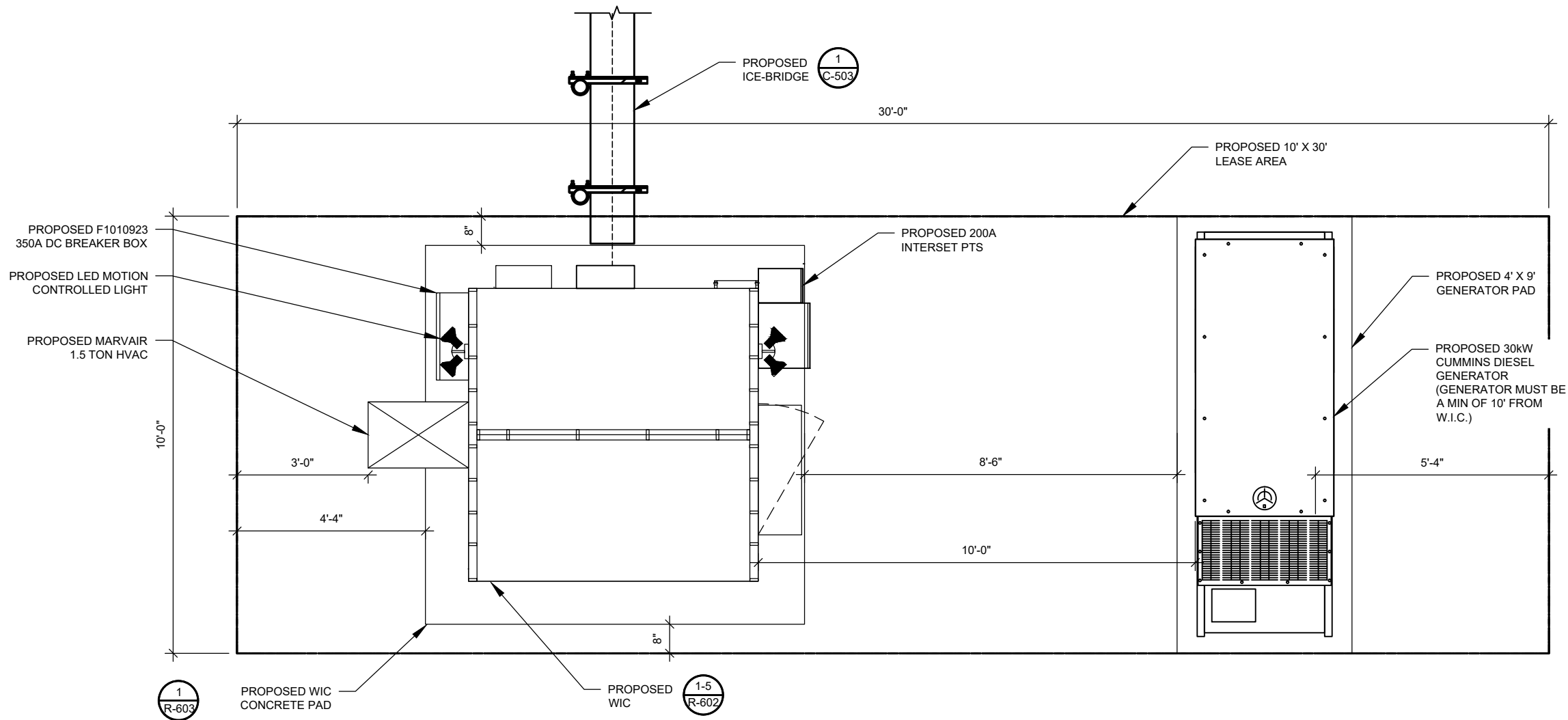
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

DETAILED SITE PLAN	
SHEET NUMBER: C-101	REVISION: B

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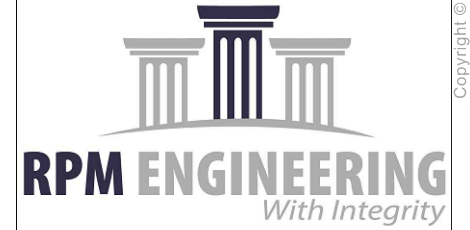
GROUND SOW

- INSTALL VERTIV WIC W/ VERTIV 7100 PP, (8) RECTIFIERS, & (0) CONVERTERS
- INSTALL (1) FSM4 AMIA IN FIF
- INSTALL (1) 5G AMIA IN FIF
- INSTALL (1) DC12RM IN FIF
- INSTALL (2) FIBER TRAYS IN FIF
- INSTALL (2) FMBS AT ICEBRIDGE



1 DETAILED EQUIPMENT LAYOUT
SCALE: NOT TO SCALE

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 CARY, NC 27518
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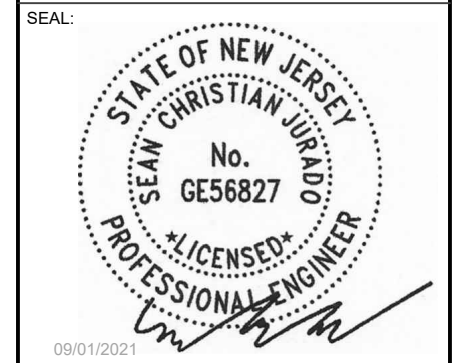
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SITE ADDRESS:
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PARLIN, NJ 08859-0000

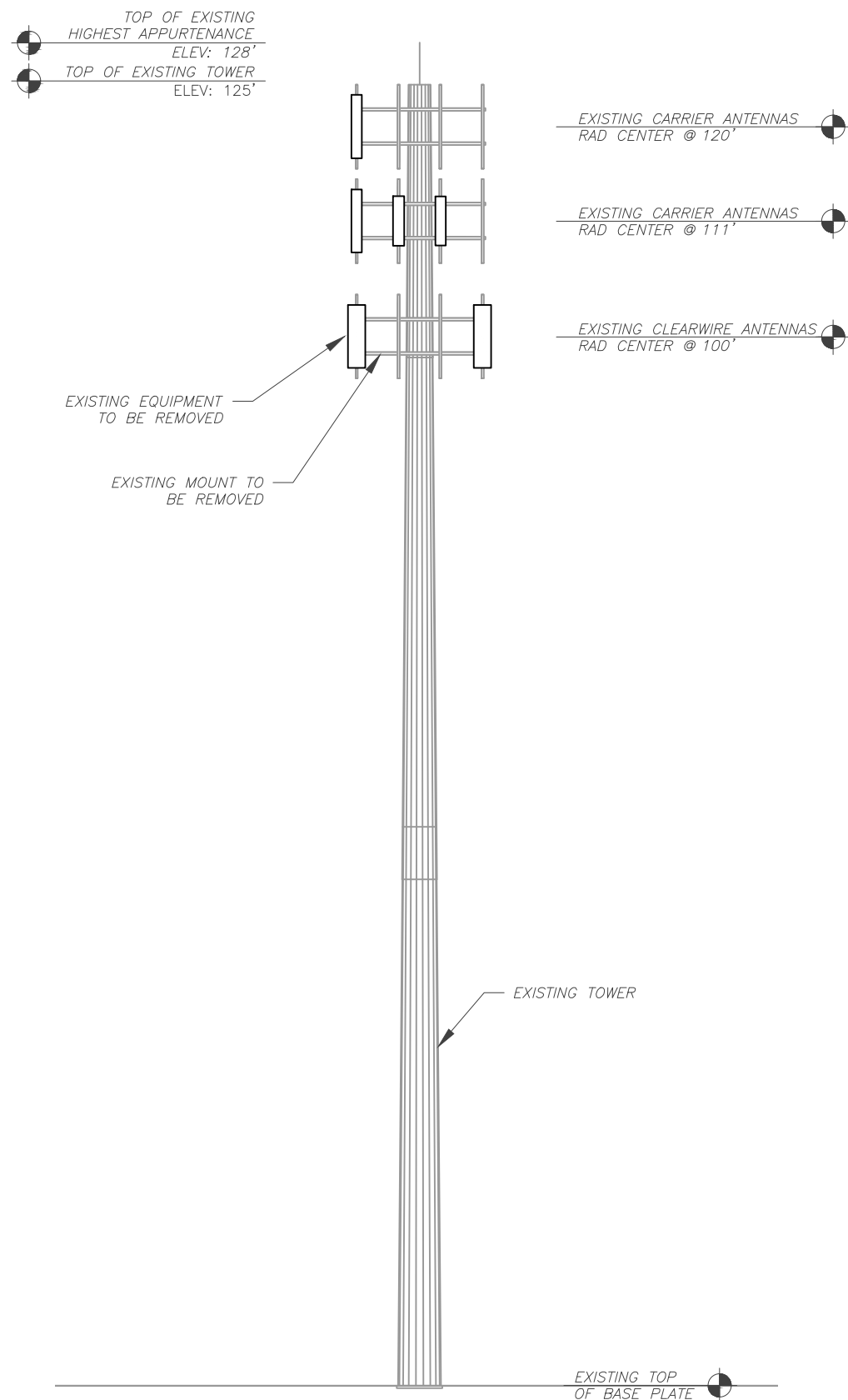


DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

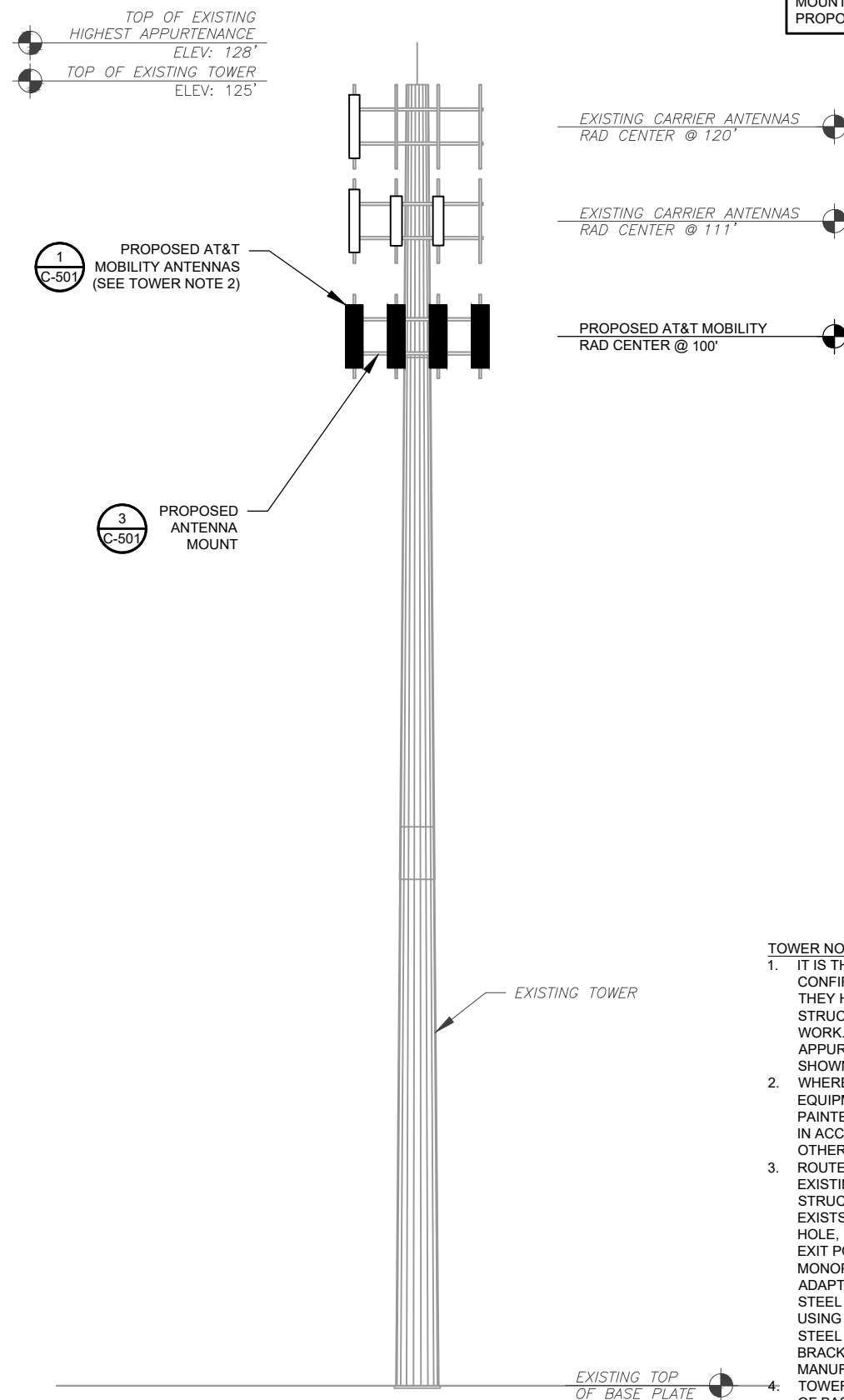
DETAILED EQUIPMENT LAYOUT

SHEET NUMBER:	REVISION:
C-102	B

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1 EXISTING TOWER ELEVATION
SCALE: N.T.S.



1 PROPOSED TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY ESHA MODI, DATED JANUARY 12, 2021, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING

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. 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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RPM ENGINEERING
With Integrity

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SITE ADDRESS:
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PARLIN, NJ 08859-0000

SEAL:

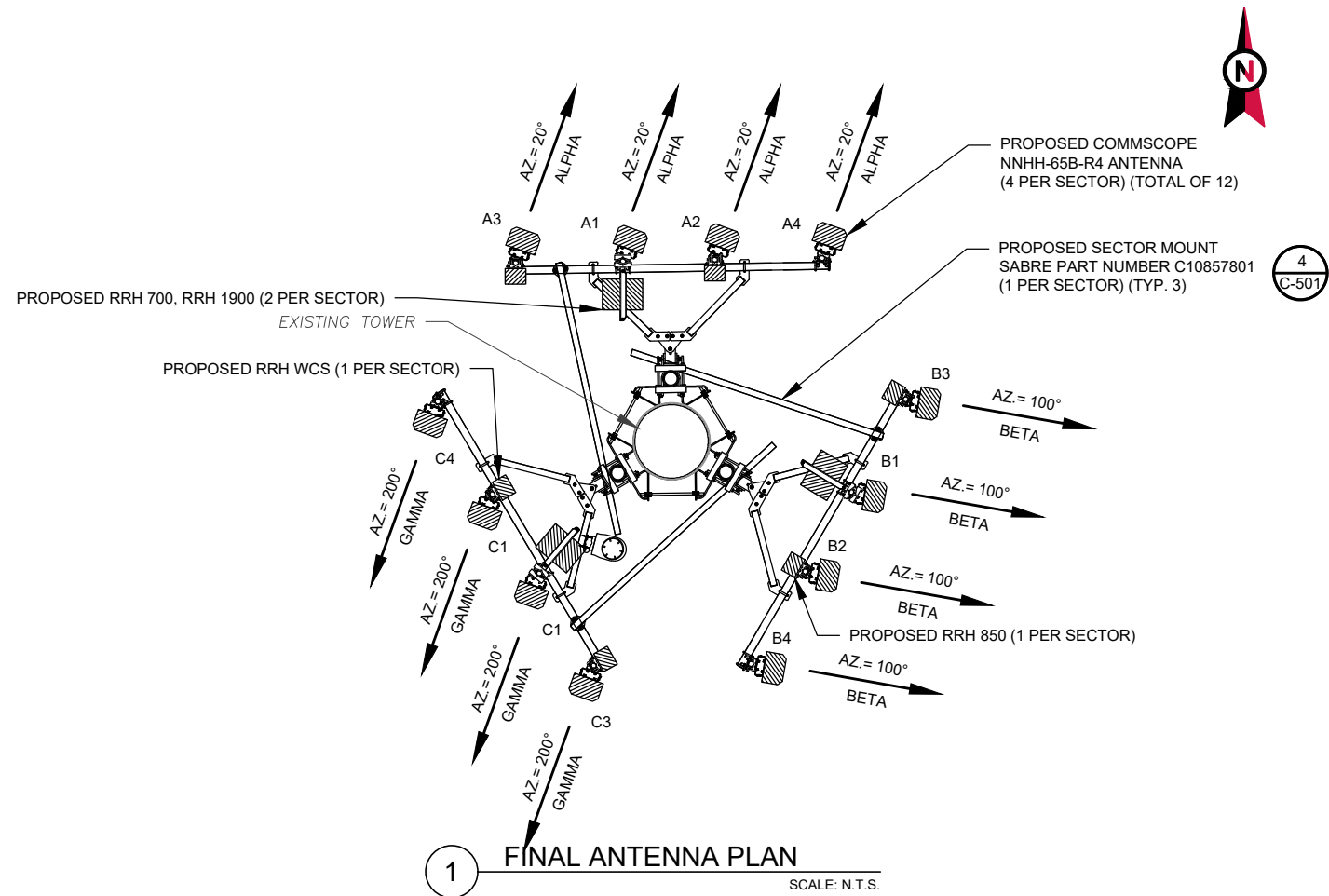
09/01/2021

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

DETAILED SITE PLAN & TOWER ELEVATION

SHEET NUMBER: C-201	REVISION: B
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1 FINAL ANTENNA PLAN
SCALE: N.T.S.

FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	100'	20°	A3	NNHH-65B-R4	RRH-WCS	0	ADD	AIRSCALE RRH 4T4R B30 100W AHNA	ADD
			A1	NNHH-65B-R4	RRH-700, RRH-1900	0	ADD	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA, AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	ADD
			A2	NNHH-65B-R4	RRH-850	0	ADD	AIRSCALE RRH 4T4R B5 160W AHCA	ADD
			A4	NNHH-65B-R4	-	0	ADD	-	-
BETA	100'	100°	B3	NNHH-65B-R4	RRH-WCS	0	ADD	AIRSCALE RRH 4T4R B30 100W AHNA	ADD
			B1	NNHH-65B-R4	RRH-700, RRH-1900	0	ADD	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA, AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	ADD
			B2	NNHH-65B-R4	RRH-850	0	ADD	AIRSCALE RRH 4T4R B5 160W AHCA	ADD
			B4	NNHH-65B-R4	-	0	ADD	-	-
GAMMA	100'	200°	C3	NNHH-65B-R4	RRH-WCS	0	ADD	AIRSCALE RRH 4T4R B30 100W AHNA	ADD
			C1	NNHH-65B-R4	RRH-700, RRH-1900	0	ADD	AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA, AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	ADD
			C2	NNHH-65B-R4	RRH-850	0	ADD	AIRSCALE RRH 4T4R B5 160W AHCA	ADD
			C4	NNHH-65B-R4	-	0	ADD	-	-

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

PROPOSED FIBER DISTRIBUTION/OVP BOX		PROPOSED CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	FIBER/DC TRUNKS	STATUS
24-PAIR	ADD	-	(3) FIBER TRUNKS	ADD
6 AWG 6	ADD	-	(9) DC TRUNKS	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

(5) 2" INNERDUCTS [(3) WITH (1) FIBER & (2) DC TRUNKS, (1) WITH (2) DC TRUNKS, AND (1) WITH (1) DC TRUNK]

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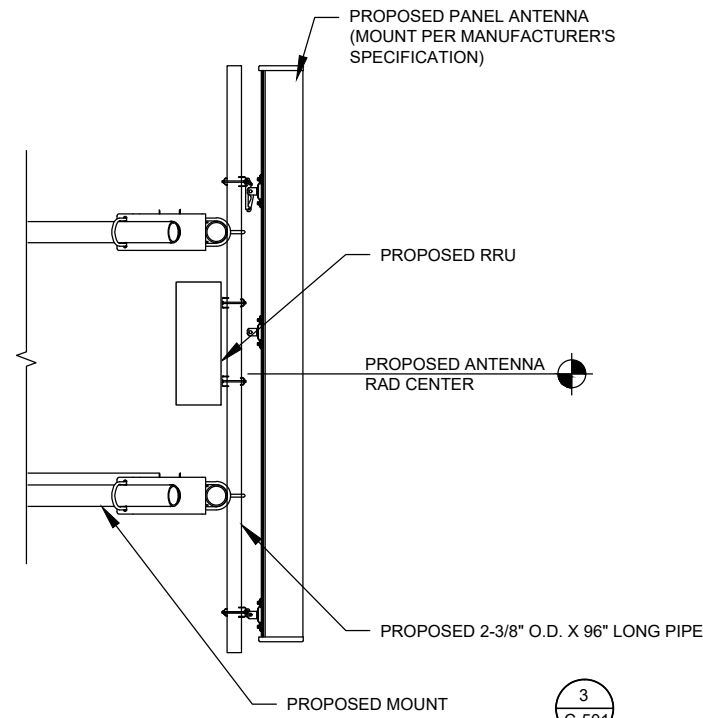
AT&T

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

ANTENNA INFORMATION & SCHEDULE

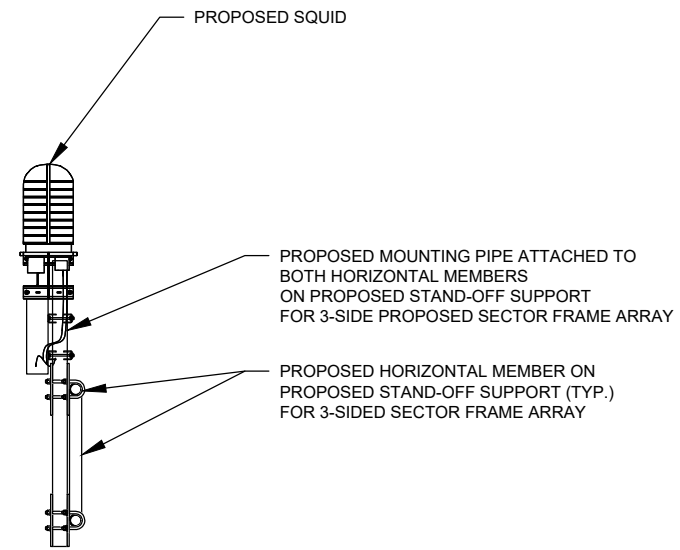
SHEET NUMBER: C-401	REVISION: B
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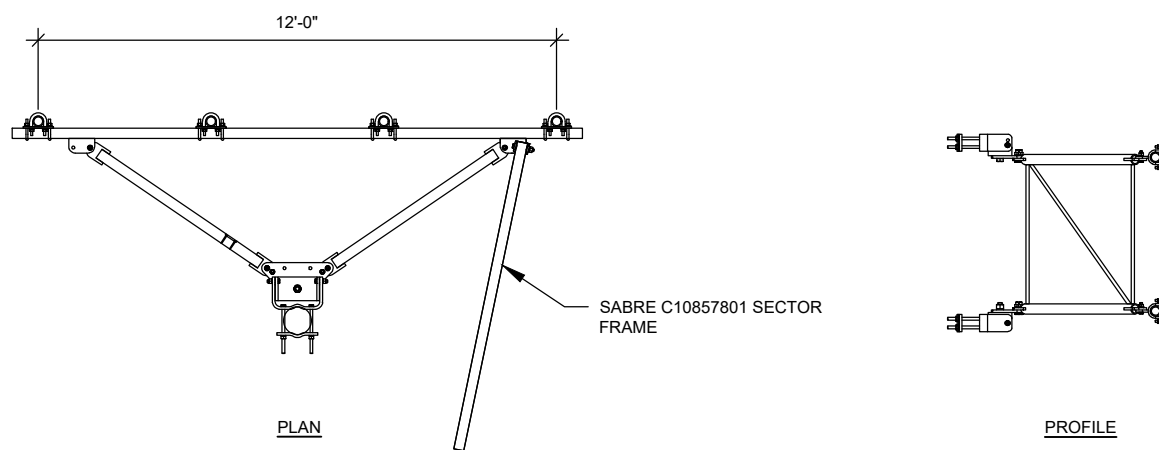


1 PROPOSED ANTENNA MOUNTING DETAIL (ELEVATION)
SCALE: NOT TO SCALE

3
C-501



2 PROPOSED OVP MOUNTING
SCALE: NOT TO SCALE



3 SECTOR FRAME DETAIL
SCALE: N.T.S.

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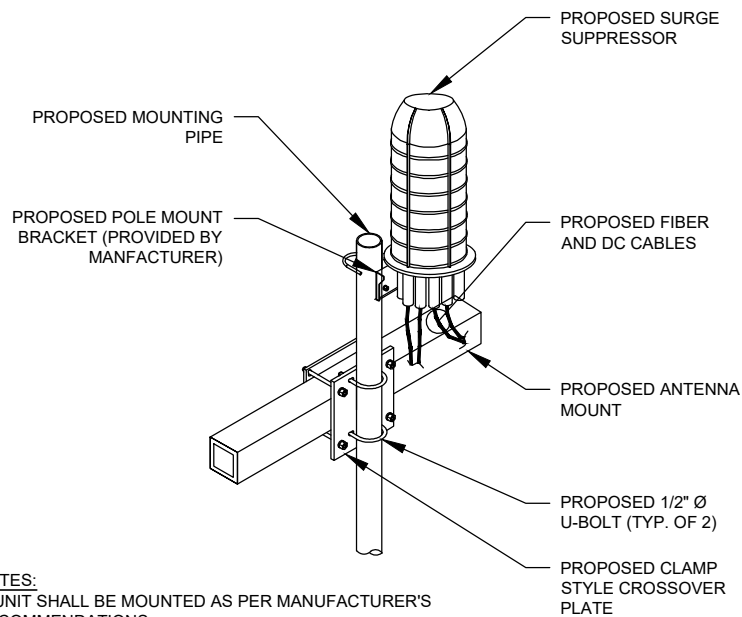
SEAL:



DATE DRAWN:	01/20/21
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CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

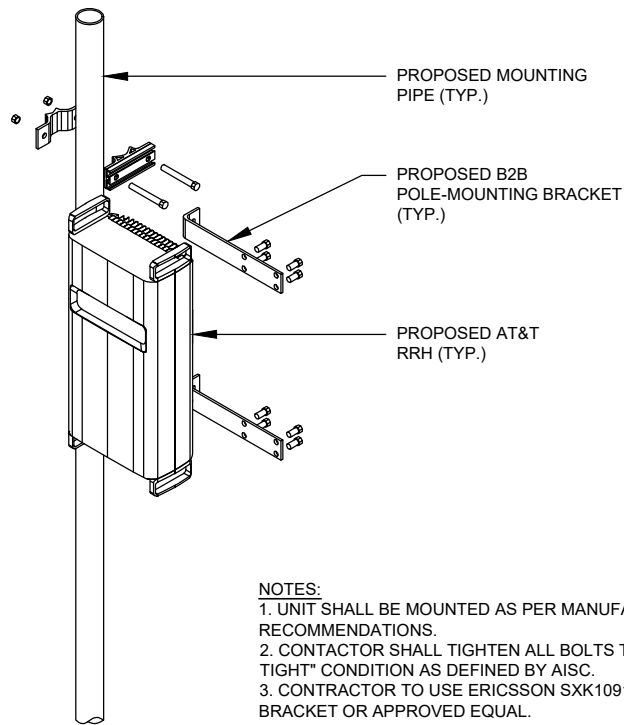
**CONSTRUCTION
DETAILS**

SHEET NUMBER: C-501	REVISION: B
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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 RRH'S.

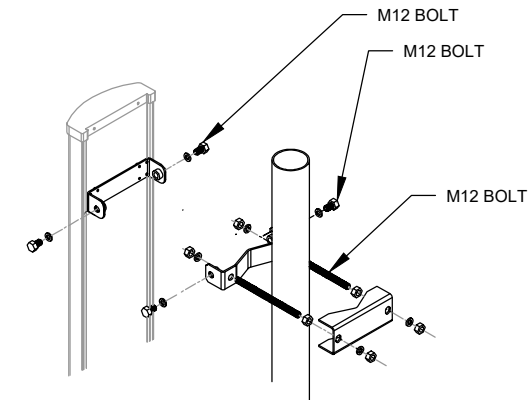
1 SURGE MOUNTING DETAIL
 SCALE: N.T.S.



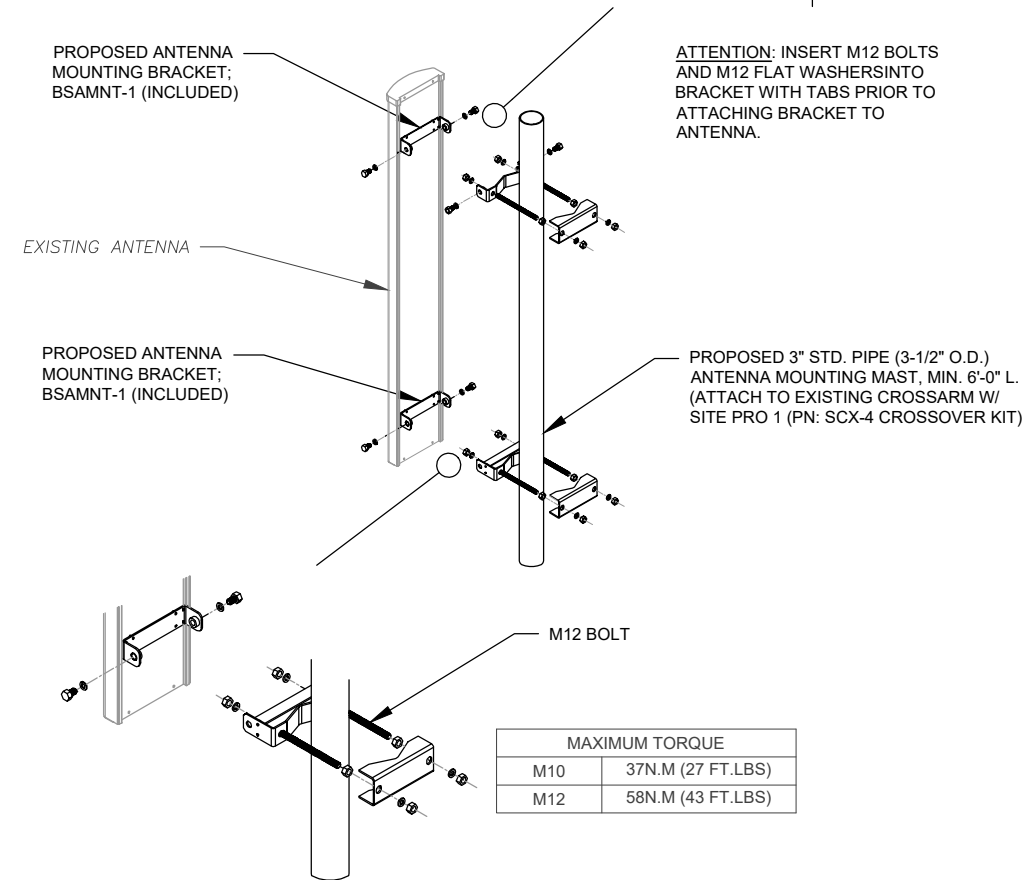
NOTES:
 1. UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
 2. CONTACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
 3. CONTRACTOR TO USE ERICSSON SXK1091946/1 B2B BRACKET OR APPROVED EQUAL.

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

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

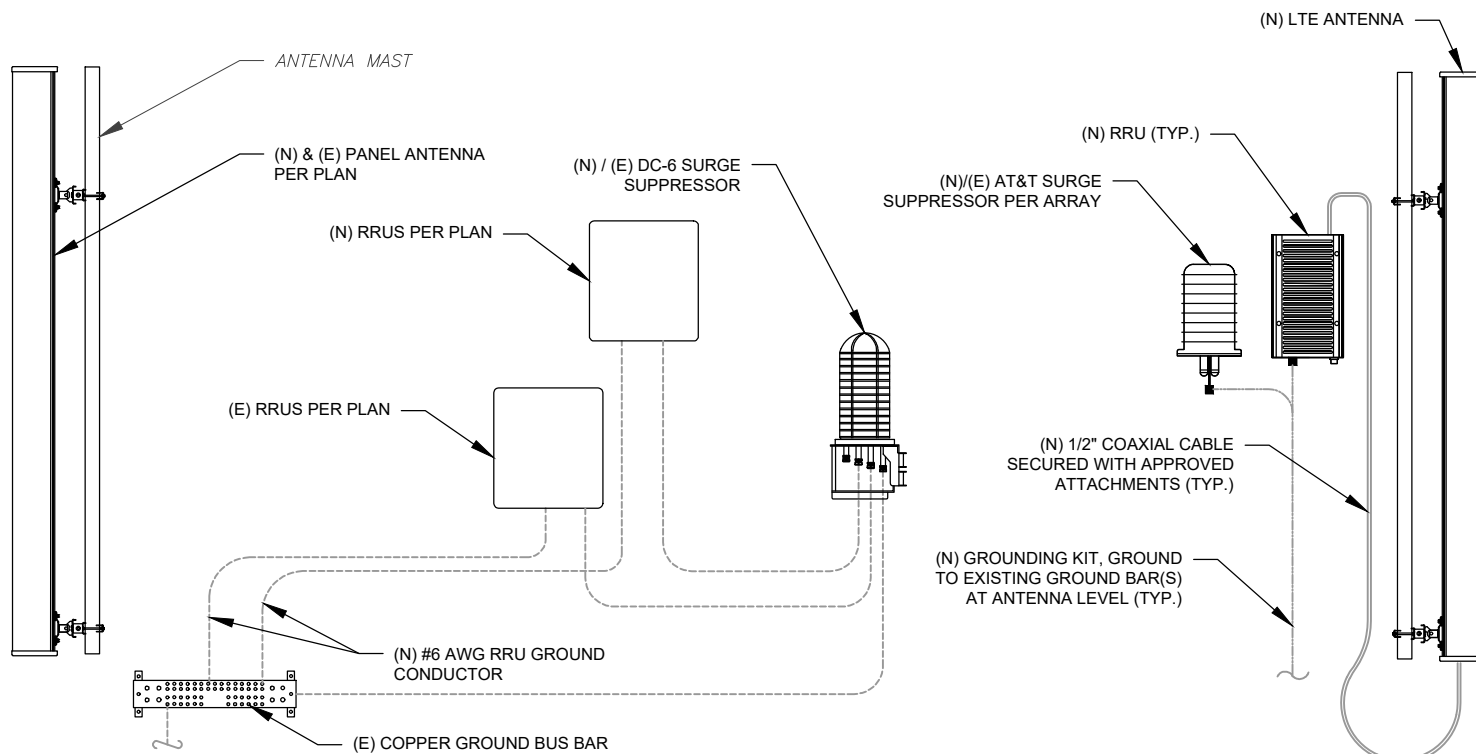


ATTENTION: INSERT M12 BOLTS AND M12 FLAT WASHERS INTO BRACKET WITH TABS PRIOR TO ATTACHING BRACKET TO ANTENNA.

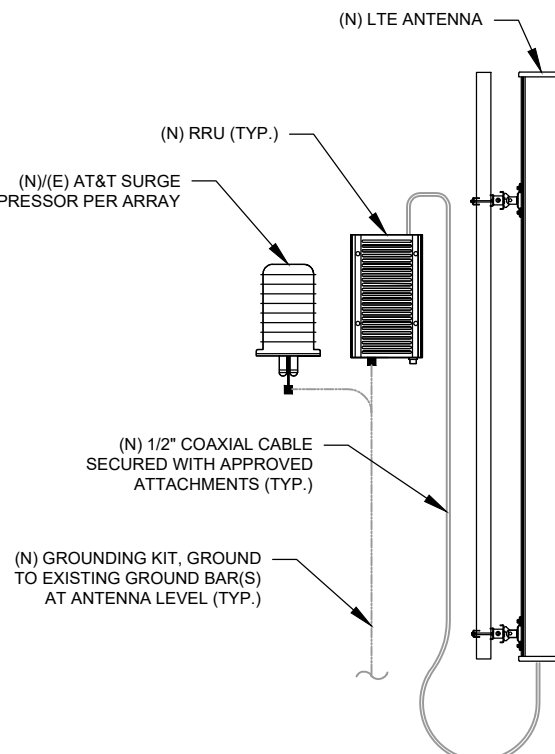


MAXIMUM TORQUE	
M10	37N.M (27 FT.LBS)
M12	58N.M (43 FT.LBS)

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



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



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

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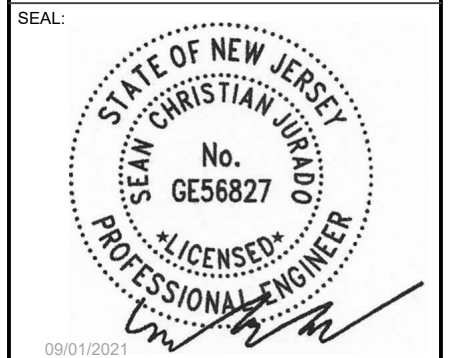
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A	PRELIM	RW	01/27/21
B	REVISED PER COMMENTS	JPB	03/12/21
C	FINAL	TMM	09/01/21

ATC SITE NUMBER:
373155

ATC SITE NAME:
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:
PARLIN - NYCWNJ5836

SITE ADDRESS:
 775 WASHINGTON ROAD
 PARLIN, NJ 08859-0000



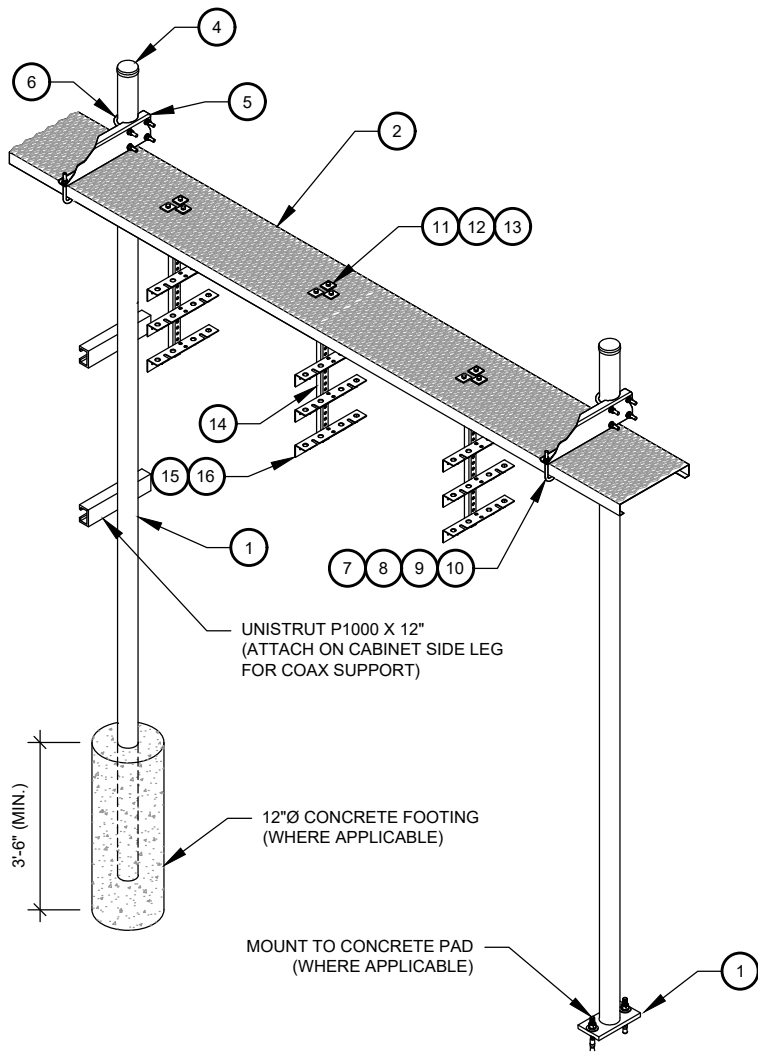
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**CONSTRUCTION
 DETAILS**

SHEET NUMBER:	REVISION:
C-502	B

CONSTRUCTION NOTE:

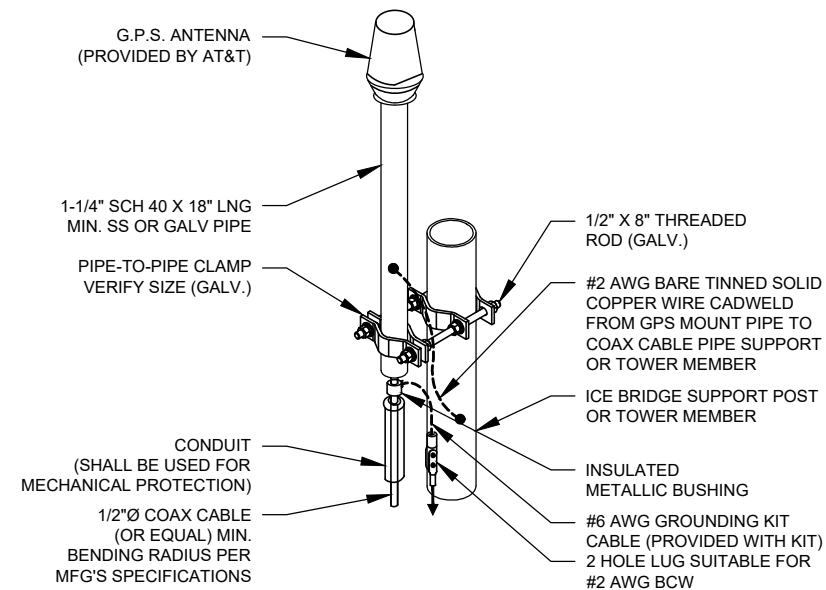
1. INSTALL ICE BRIDGE TO ALLOW 7 FEET CLEARANCE ABOVE GRADE TO LOWEST APPURTENANCE.



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

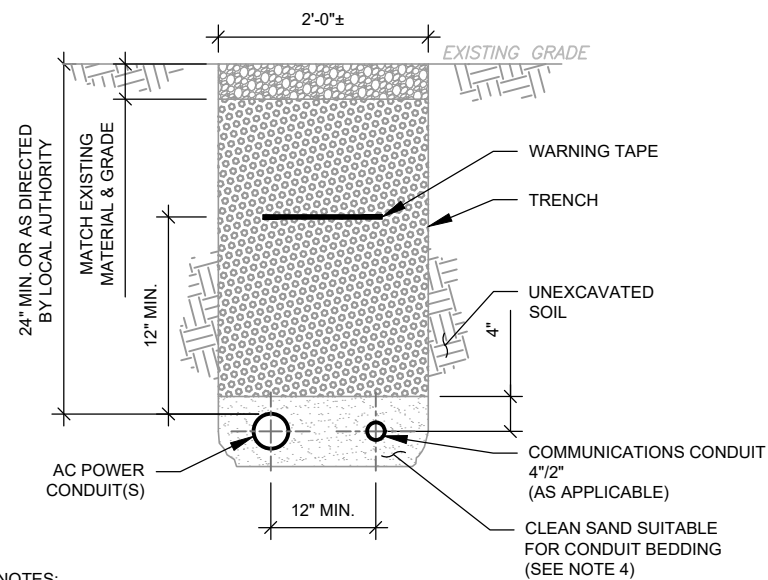
CONTRACTOR SHALL USE PARTS MANUFACTURED BY COMMSCOPE OR APPROVED EQUIVALENT.
*BASE SHOE NOT INCLUDED IN WB-K210-B KIT, ORDER COLUMN SEPARATELY OR KIT WB-K210-S.

1 WAVEGUIDE BRIDGE KIT
SCALE: NOT TO SCALE



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

2 GPS ANTENNA ATTACHMENT DETAIL
SCALE: NOT TO SCALE



TRENCH NOTES:

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

3 POWER/TELCO CONDUIT TRENCH DETAILS
SCALE: N.T.S.

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ATC SITE NAME:
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AT&T MOBILITY SITE NAME:
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SEAL:

09/01/2021

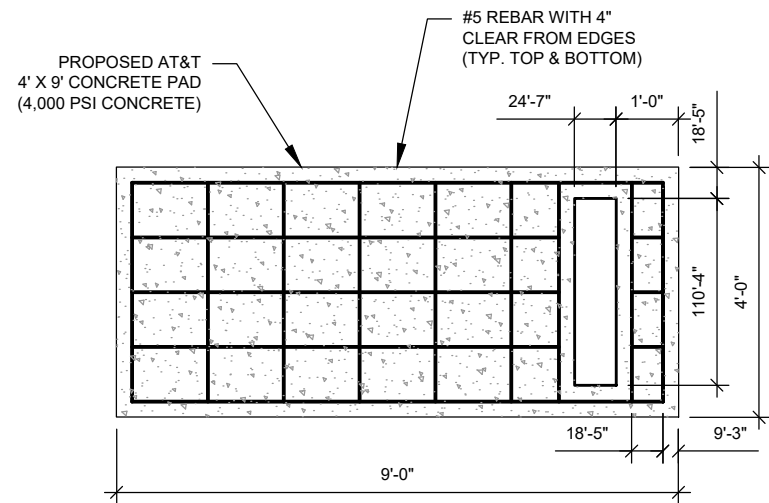
AT&T

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

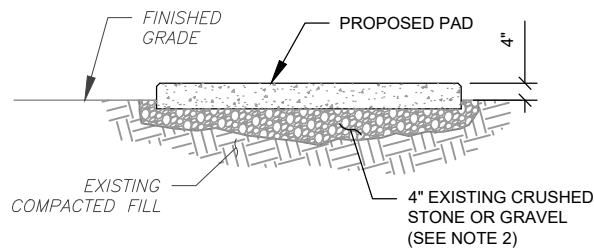
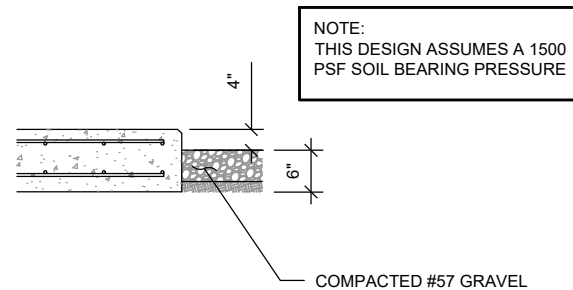
CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-503	A

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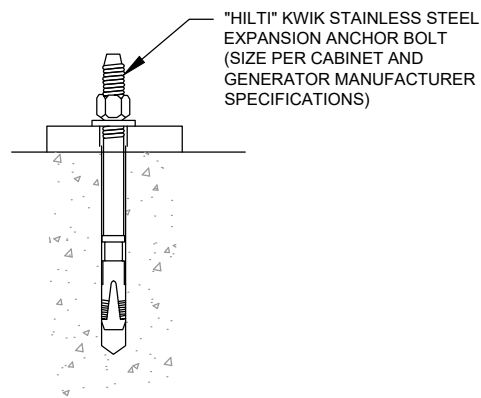
1 CONCRETE GENERATOR PAD DESIGN
SCALE: N.T.S.



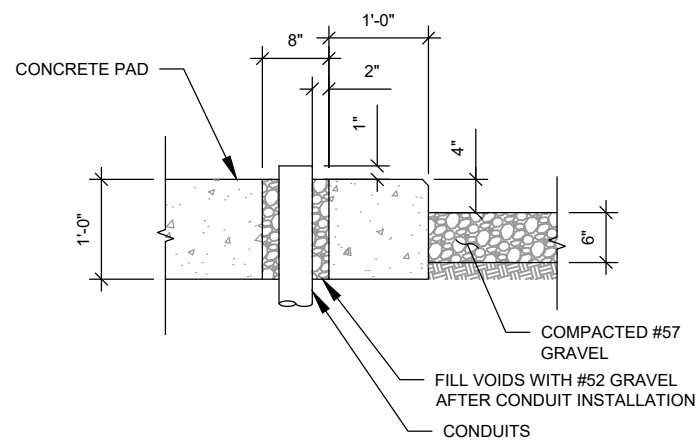
PAD NOTES:

1. SUBGRADE AND FILL SHALL CONSIST OF CLEAN SOIL. DELETERIOUS 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.

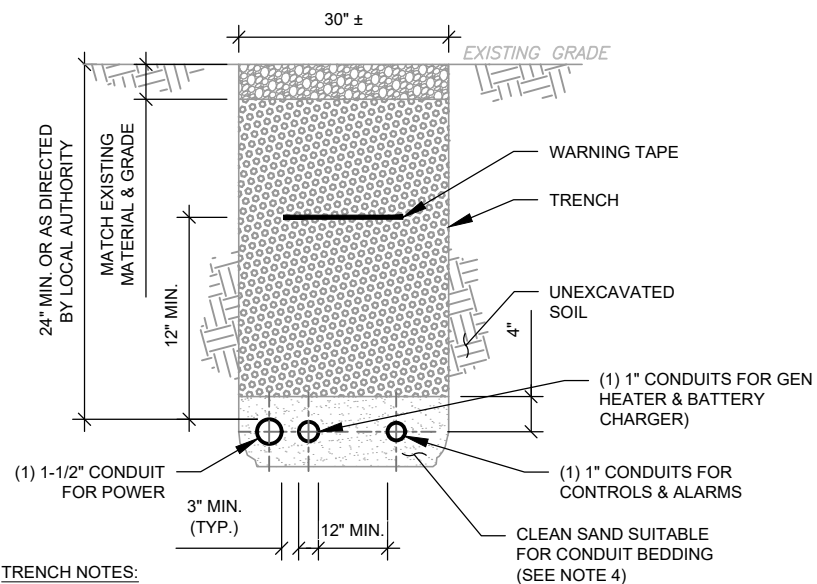
3 GRAVEL PREPARATION
SCALE: NOT TO SCALE



4 EXPANSION ANCHOR DETAIL
SCALE: N.T.S.



2 GENERATOR CONDUIT STUB UP DETAIL
SCALE: N.T.S.



TRENCH NOTES:

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

5 GENERATOR CONDUIT TRENCH DETAILS
SCALE: N.T.S.

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SEAL:



09/01/2021



DATE DRAWN:	01/20/21
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CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

**CONSTRUCTION
DETAILS**

SHEET NUMBER: C-504	REVISION: A
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Specification sheet

Diesel generator set 25 kW - 40 kW EPA emissions stationary Standby



Description

Cummins® generator sets are fully integrated power generation systems providing optimum performance, reliability and versatility for stationary Standby applications.

Features

Cummins heavy-duty engine - Rugged 4-cycle, liquid-cooled, industrial diesel engine delivers reliable power, low emissions and fast response to load changes.

Alternator - Several alternator sizes offer selectable motor starting capability with low reactance 2/3 pitch windings, low waveform distortion with non-linear loads and fault clearing short-circuit capability.

Control system - The PowerCommand® 1.1 electronic control is standard equipment and provides total generator set system integration including automatic remote starting/stopping, precise frequency and voltage regulation, alarm and status message display, output metering, auto-shutdown at fault detection and NFPA 110 Level 1 compliance.

Cooling system - Standard cooling package provides reliable running at up to 50 °C (122 °F) ambient temperature.

Enclosures - The aesthetically appealing enclosure incorporates special designs that deliver one of the quietest generators of its kind. Aluminum material plus durable powder coat paint provides the best anti-corrosion performance. The generator set enclosure has been evaluated to withstand 180 MPH wind loads in accordance with ASCE7-10. The intelligent design has removable panels and service doors to provide easy access for service and maintenance.

Fuel tanks - Two dual wall sub-base fuel tank series are offered as optional features, providing economical and flexible solutions to meet extensive code requirements on diesel fuel tanks.

NFPA - The generator set accepts full rated load in a single step in accordance with NFPA 110 for Level 1 systems.

Warranty and service - Backed by a comprehensive warranty and worldwide distributor network.

Table with columns: Model, Standby rating 60 Hz (kW, KVA), Prime rating 60 Hz (kW, KVA), Data sheets 60 Hz.

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Generator set specifications

Table with 2 columns: Specification (Governor regulation class, Voltage regulation, etc.) and Value.

Engine specifications

Table with 2 columns: Specification (Bore, Stroke, Displacement, etc.) and Value.

Alternator specifications

Table with 2 columns: Specification (Design, Stator, Rotor, etc.) and Value.

Available voltages

Table with 2 columns: Single phase, 3 phase and their respective voltage options.

Note: Consult factory for other voltages.

Generator set options

- Fuel system, Engine, Alternator, Cooling system, Exhaust system, Generator set application, Enclosure, Control, and other options.

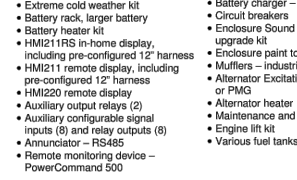
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Generator set options (continued)

- Warranty, Generator set accessories, and AC protection options.

Control system PowerCommand 1.1



PowerCommand control

PowerCommand control is an integrated generator set control system providing voltage regulation, engine protection, operator interface and synchronous governing (optional). Major features include:

- Battery monitoring and testing features, Standard PCNet interface, Control boards, Operator interface, and other features.

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Other data

- Generator set model data, Start attempts, Fault history, Data logging, Digital governing, Digital voltage regulation, Control functions, and other data.

Options

- Auxiliary output relays, Remote annunciator, PMG alternator excitation, Auxiliary signal inputs, Digital governing, AC output analog meters, Color-coded graphical display, and other options.

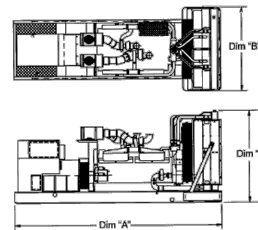
Ratings definitions

Emergency Standby Power (ESP): Applicable for supplying power to varying electrical load for the duration of power interruption of a reliable utility source.

Limited-Time Running Power (LTP): Applicable for supplying power to a constant electrical load for limited hours.

Prime Power (PRP): Applicable for supplying power to varying electrical load for unlimited hours.

Base Load (Continuous) Power (COP): Applicable for supplying power continuously to a constant electrical load for unlimited hours.



This outline drawing is for reference only. See respective model data sheet for specific model outline drawing number.

Do not use for installation design

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Table with columns: Model, Dim 'A', Dim 'B', Dim 'C', Set weight dry kg (lbs), Set weight wet kg (lbs).

*Weights represent a set with standard features. See outline drawings for weights of other configurations.

Codes and standards

Codes or standards compliance may not be available with all model configurations – consult factory for availability.

Table with 3 columns: Code/Standard (ISO 9001, U.S. EPA, International Building Code), Description, and Availability.

Warning: Back feed to a utility system can cause electrocution and/or property damage. Do not connect to any building's electrical system except through an approved device or after building main switch is open.

For more information contact your local Cummins distributor or visit power.cummins.com

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AT&T MOBILITY SITE NAME: PARLIN - NYCWNJ5836

SITE ADDRESS: 775 WASHINGTON ROAD PARLIN, NJ 08859-0000

Professional Engineer Seal for Sean Christian Jurado, No. GE56827, State of New Jersey.

AT&T logo

Table with columns: DATE DRAWN, ATC JOB NO, CUSTOMER ID, CUSTOMER #.

GENERATOR SPECIFICATIONS

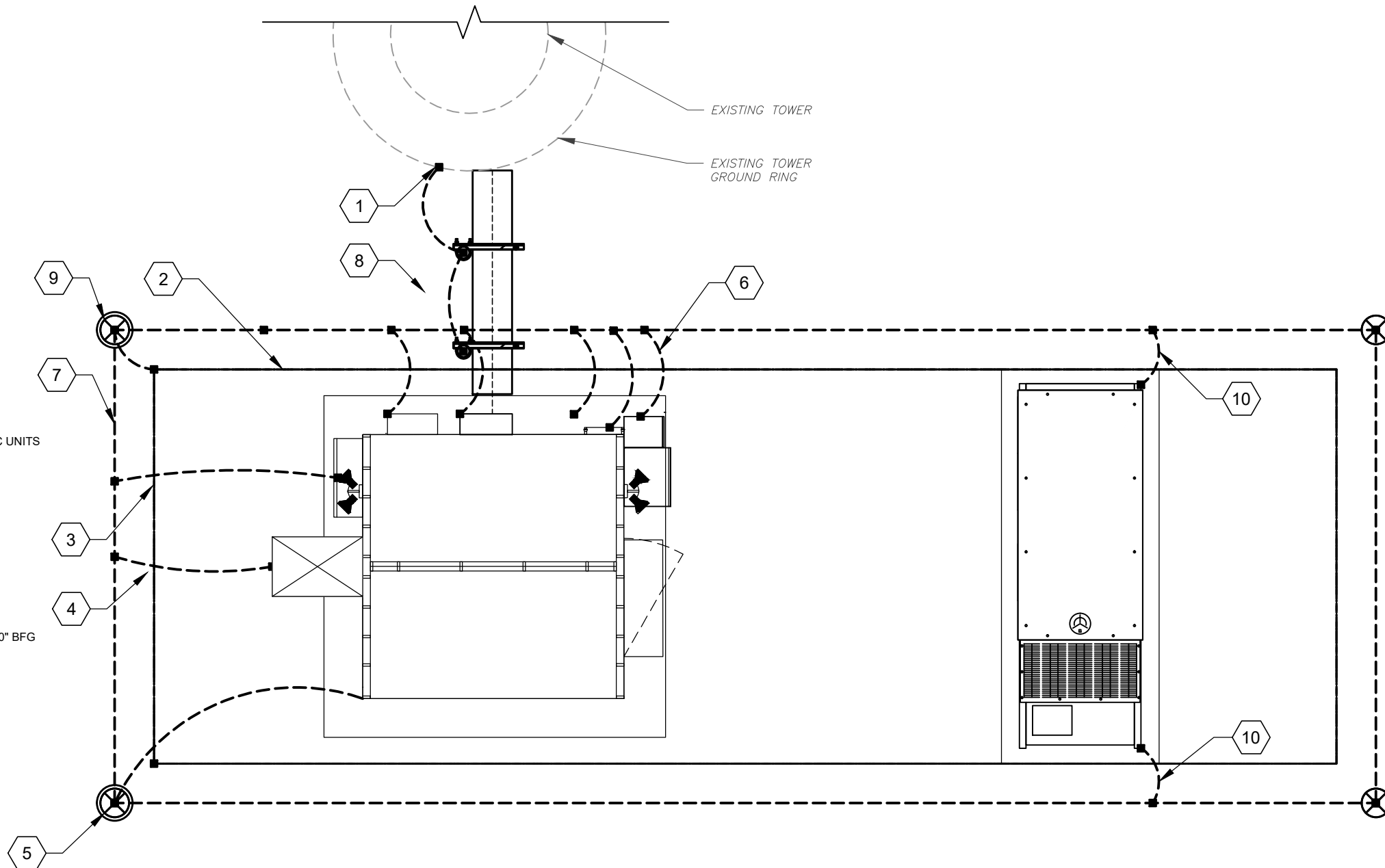
SHEET NUMBER:

C-505

REVISION:

A

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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 GENERATOR AND TANK FRAMES BOND BURIED 30" BFG

1 DETAILED GROUNDING LAYOUT
SCALE: NOT TO SCALE

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09/01/2021



DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

GROUNDING PLAN

SHEET NUMBER:	REVISION:
E-101	B

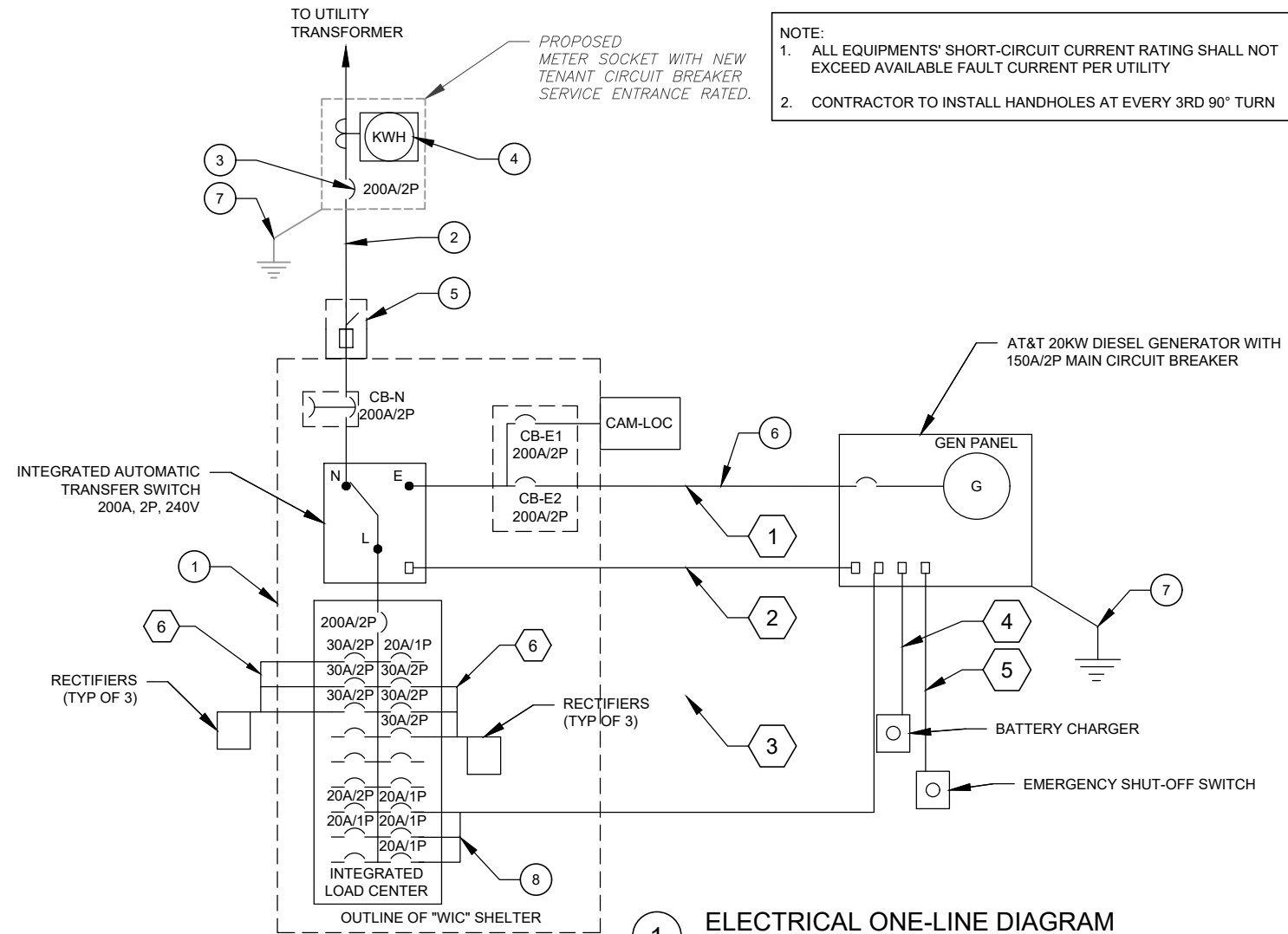
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ELECTRICAL NOTES:

- 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%)

CONDUIT NOTES:

- 1 (3) #3/0 & (1) #4 GND IN 2" CONDUIT
- 2 1" CONDUIT FOR START/STOP SIGNAL
- 3 PROPOSED 1" CONDUIT FOR BLOCK HEATER AND GEN AUX POWER
- 4 PROPOSED 1" CONDUIT FOR BATTERY CHARGER.
- 5 PROPOSED 1" CONDUIT FOR EMERGENCY SHUT-OFF SWITCH.
- 6 (3) #10 & (1) #10 GND IN 1 1/2" CONDUIT



NOTE:
 1. ALL EQUIPMENTS' SHORT-CIRCUIT CURRENT RATING SHALL NOT EXCEED AVAILABLE FAULT CURRENT PER UTILITY
 2. CONTRACTOR TO INSTALL HANDHOLES AT EVERY 3RD 90° TURN

1 ELECTRICAL ONE-LINE DIAGRAM
 SCALE: NOT TO SCALE

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

CONNECTED LOAD (kVA)		FEEDER OR BRANCH CIRCUIT				FEEDER OR BRANCH CIRCUIT				CONNECTED LOAD (kVA)	
A	B	BREAKER		POLE NO.	CIRCUIT NOTES	CIRCUIT NOTES	POLE NO.	BREAKER		A	B
		AMPS	POLES					AMPS			
2.00		30	2	1		2	1	20		0.18	
	2.00			3		4					2.00
2.00		30	2	5		6	2	30		2.00	
	2.00			7		8					2.00
2.00				9		10	2	30		2.00	
	0.00			11		12					2.00
0.00				13		14				2.00	
	0.00			15		16				0.00	
0.68				17		18				0.00	
	0.00			19		20				0.00	
0.00				21		22				0.00	
	0.00			23		24				0.00	
3.50		20	2	25		26				0.00	
	3.50			27		28	1	20		0.70	
0.48		20	1	29		30				0.00	
	0.00			31		32	1	20		1.92	
0.00				33		34				0.00	
	0.00			35		36				0.00	
0.00				39		40				0.00	
	0.00			41		42				0.00	
10.7	7.5									6.2	8.6
		A	B	TOTAL						CONNECTED LOAD (kVA)	
		16.8	16.1	33.0						16.8	
				33.0						DEMAND LOAD (kVA)	
				33.0						DERATING FACTOR (80%)	
				33.0						DEMANDLOAD SIZING: 175 AMPS	

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

2 PANEL SCHEDULE

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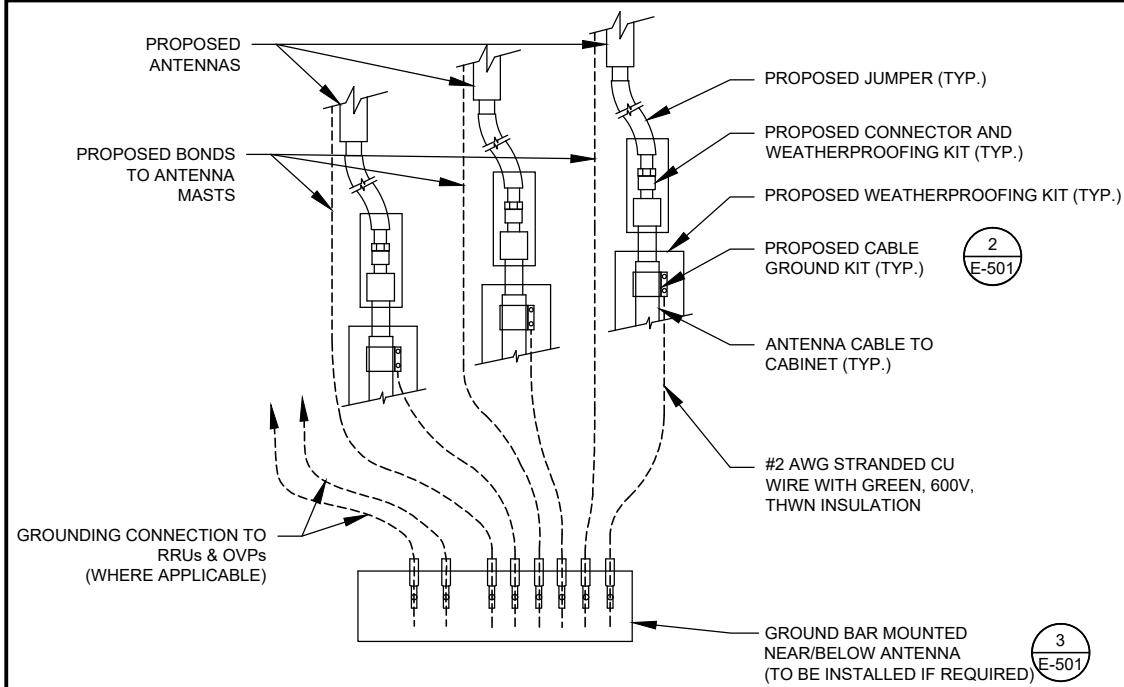
AT&T

DATE DRAWN:	01/20/21
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CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

ELECTRICAL ONE-LINE & PANEL SCHEDULE

SHEET NUMBER: E-102	REVISION: A
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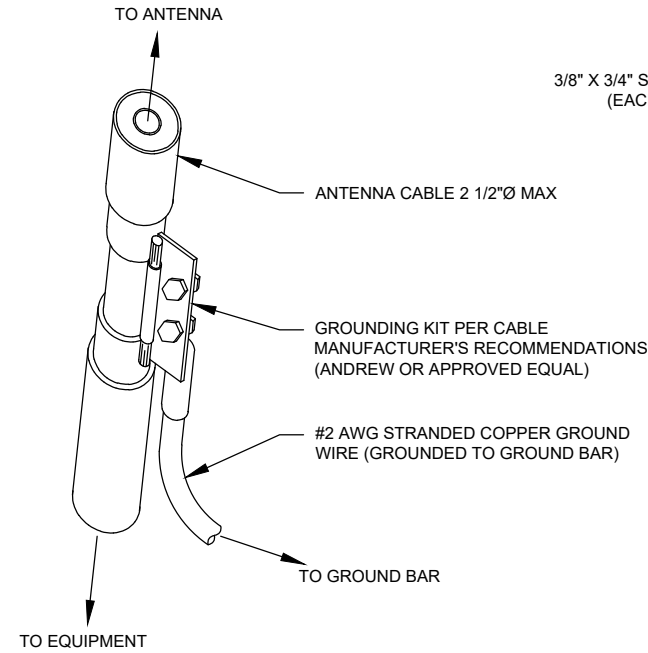
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NOTES:

1. 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.
2. 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.

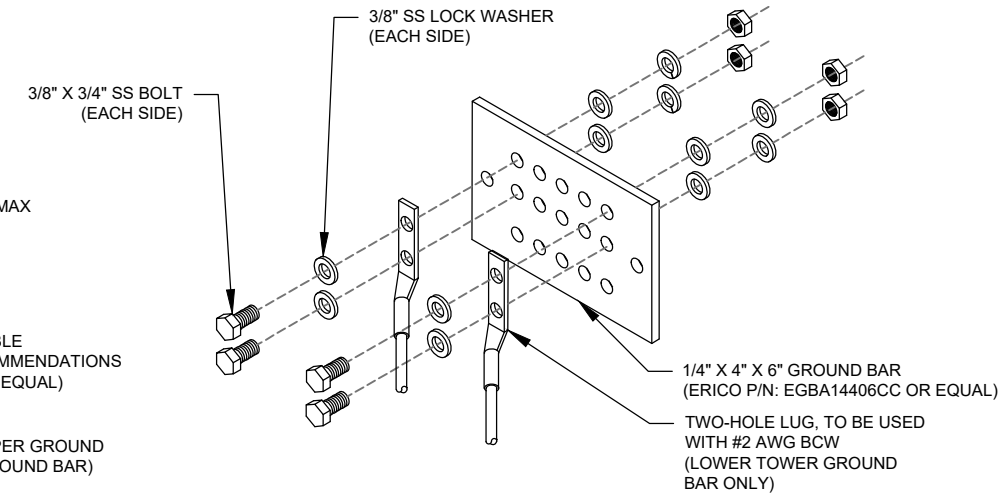
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: NOT TO SCALE



GROUND KIT NOTES:

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

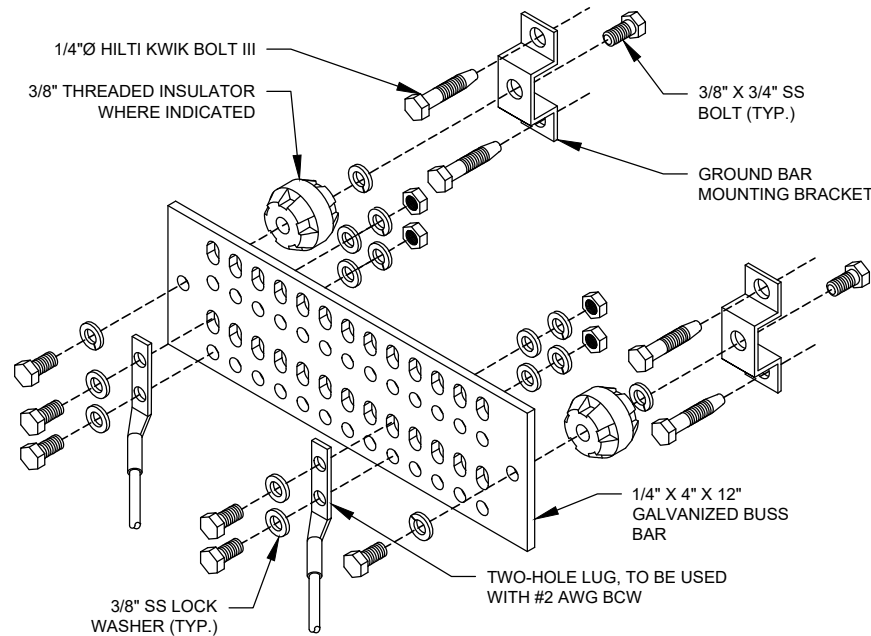
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: NOT TO SCALE



GROUND BAR NOTES:

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

3 TOWER GROUND BAR DETAIL
SCALE: NOT TO SCALE



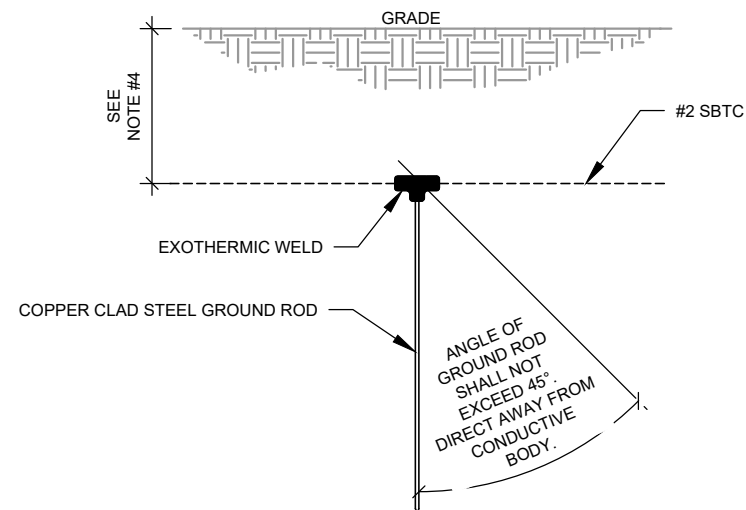
GROUND BAR NOTES

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

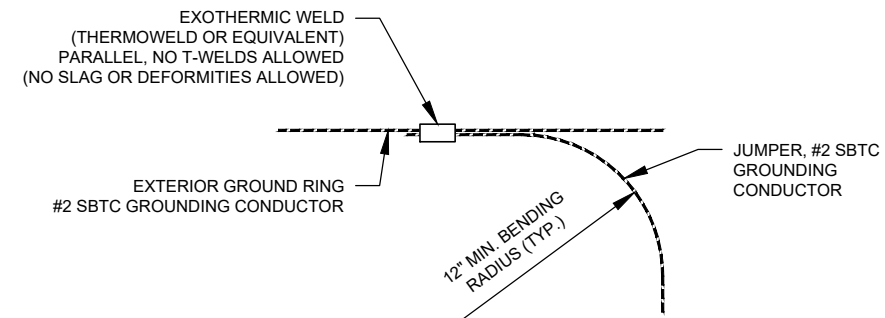
4 MAIN GROUND BAR DETAIL
SCALE: NOT TO SCALE

NOTES:

1. SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.
2. COORDINATE UTILITY, LOCATE BEFORE DIGGING.
3. CONDUIT TRENCHING DEPTHS AT 36\"/>



5 GROUND ROD DETAIL
SCALE: NOT TO SCALE



6 TIE CONNECTION DETAIL
SCALE: NOT TO SCALE

AMERICAN TOWER®
ATC TOWER SERVICES, LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 24GA28099400

RPM ENGINEERING
With Integrity

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21
0	FINAL	TMM	09/01/21

ATC SITE NUMBER:
373155

ATC SITE NAME:
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:
PARLIN - NYCWNJ5836

SITE ADDRESS:
775 WASHINGTON ROAD
PARLIN, NJ 08859-0000

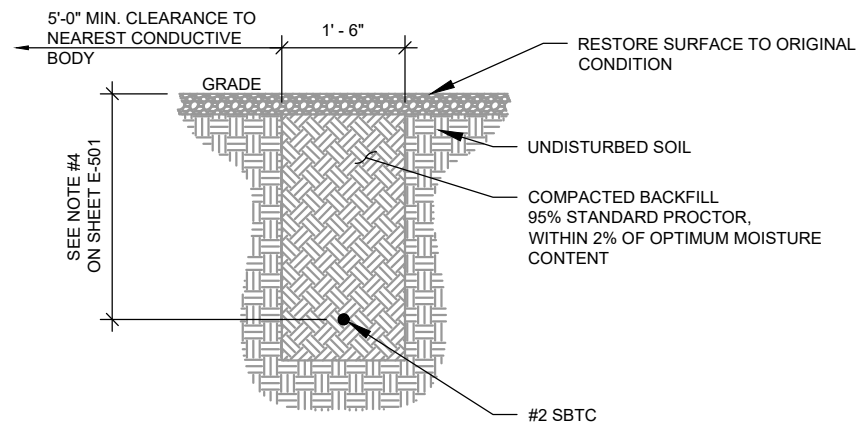
SEAL:

09/01/2021

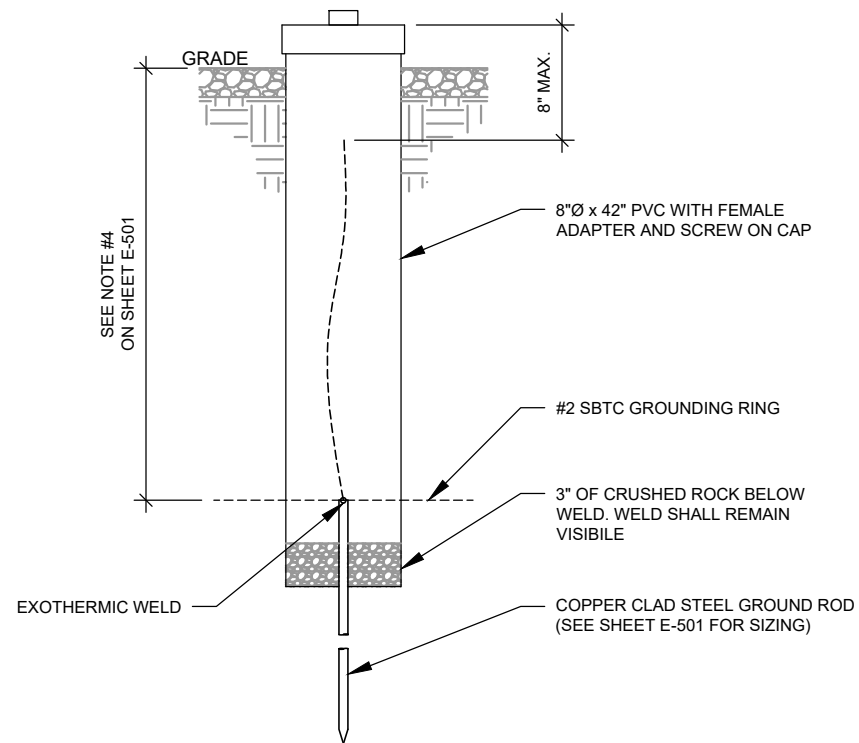
DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

GROUNDING DETAILS

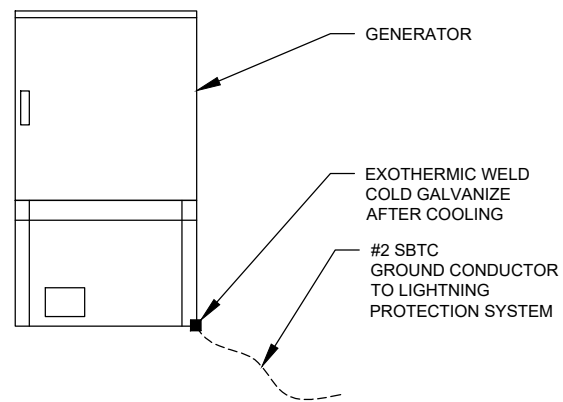
SHEET NUMBER: E-501	REVISION: A
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1 GROUND CONNECTION TRENCH DETAIL (STD.)
SCALE: NOT TO SCALE



2 TEST WELL DETAIL
SCALE: NOT TO SCALE



GENERATOR INSTALLATION NOTE:

INSTALL GENERATOR AND TRANSFER SWITCH WITH ALL SUPPLIED ACCESSORIES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND SPECIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, ACCESSORIES FOR THE EXHAUST SYSTEM, FUEL SYSTEM, ENCLOSURE INTEGRITY (CAPS, PLUGS, COVERS, ETC.), ELECTRICAL CONNECTIONS, AND GROUNDING CONNECTIONS.

3 GENERATOR GROUNDING
SCALE: NOT TO SCALE

AMERICAN TOWER®
ATC TOWER SERVICES, LLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: 24GA28099400

RPM ENGINEERING
With Integrity

REV.	DESCRIPTION	BY	DATE
A	PRELIM	RW	01/25/21
B	REVISED PER COMMENTS	JPB	03/12/21
0	FINAL	TMM	09/01/21

ATC SITE NUMBER:
373155

ATC SITE NAME:
PARLIN - SAYREVILLE

AT&T MOBILITY SITE NAME:
PARLIN - NYCWNJ5836

SITE ADDRESS:
775 WASHINGTON ROAD
PARLIN, NJ 08859-0000

SEAL:

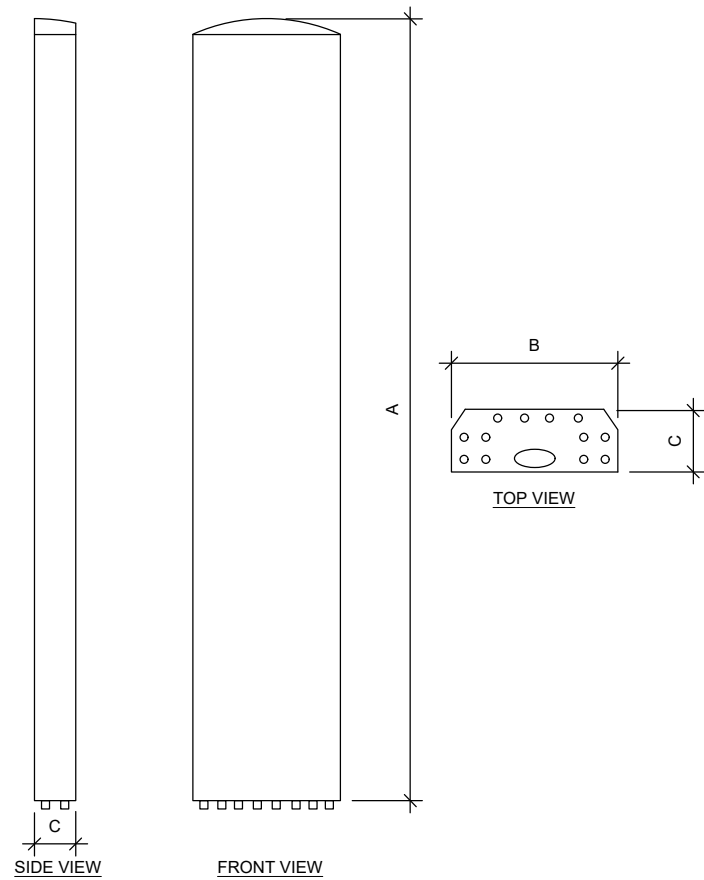
09/01/2021

DATE DRAWN:	01/20/21
ATC JOB NO:	13325346_G2
CUSTOMER ID:	NWL05836
CUSTOMER #:	14652316

GROUNDING DETAILS

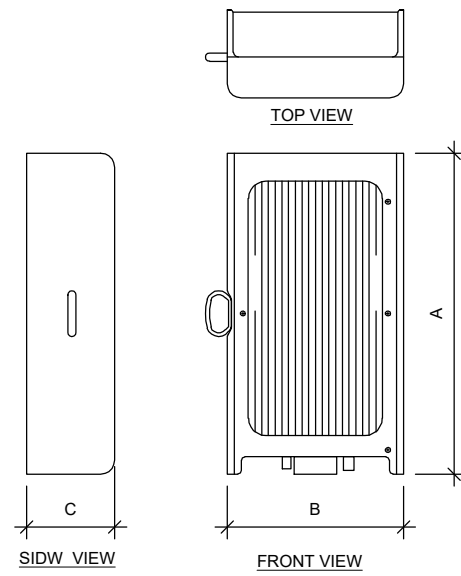
SHEET NUMBER:	REVISION:
E-502	A

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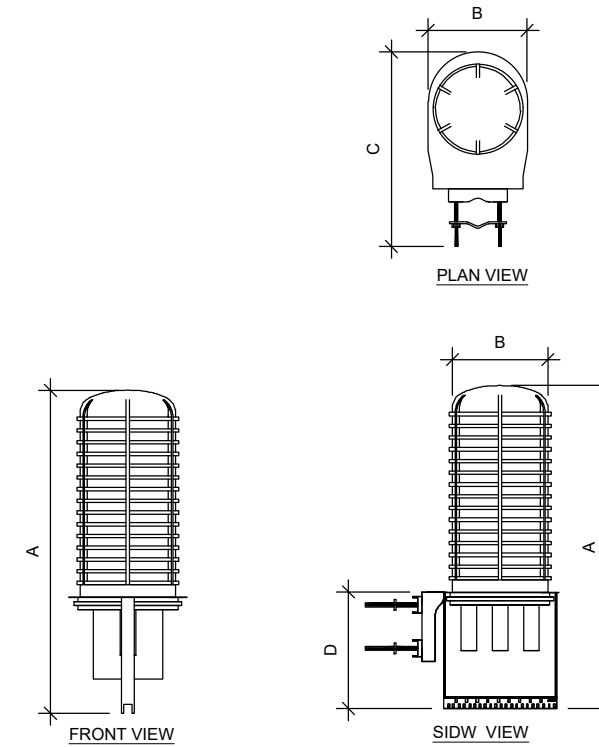
ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
COMMSCOPE NNHH-65B-R4	72"	19.6"	7.8"	78.3

1 **ANTENNA SPECIFICATIONS**
NOT TO SCALE



RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
AIRSCALE TRI RRH 4T4R B12/14/29 370W AHLBBA	-	-	-	-
AIRSCALE DUAL RRH 4T4R B25 / 66 320W AHFIB	22"	12.1"	5.9"	66.1
AIRSCALE RRH 4T4R B5 160W AHCA	13.3"	11.6"	6.5"	35.3
AIRSCALE RRH 4T4R B30 100W AHNA	13.3"	12.1"	5.5"	34.2

2 **RRU SPECIFICATIONS**
NOT TO SCALE



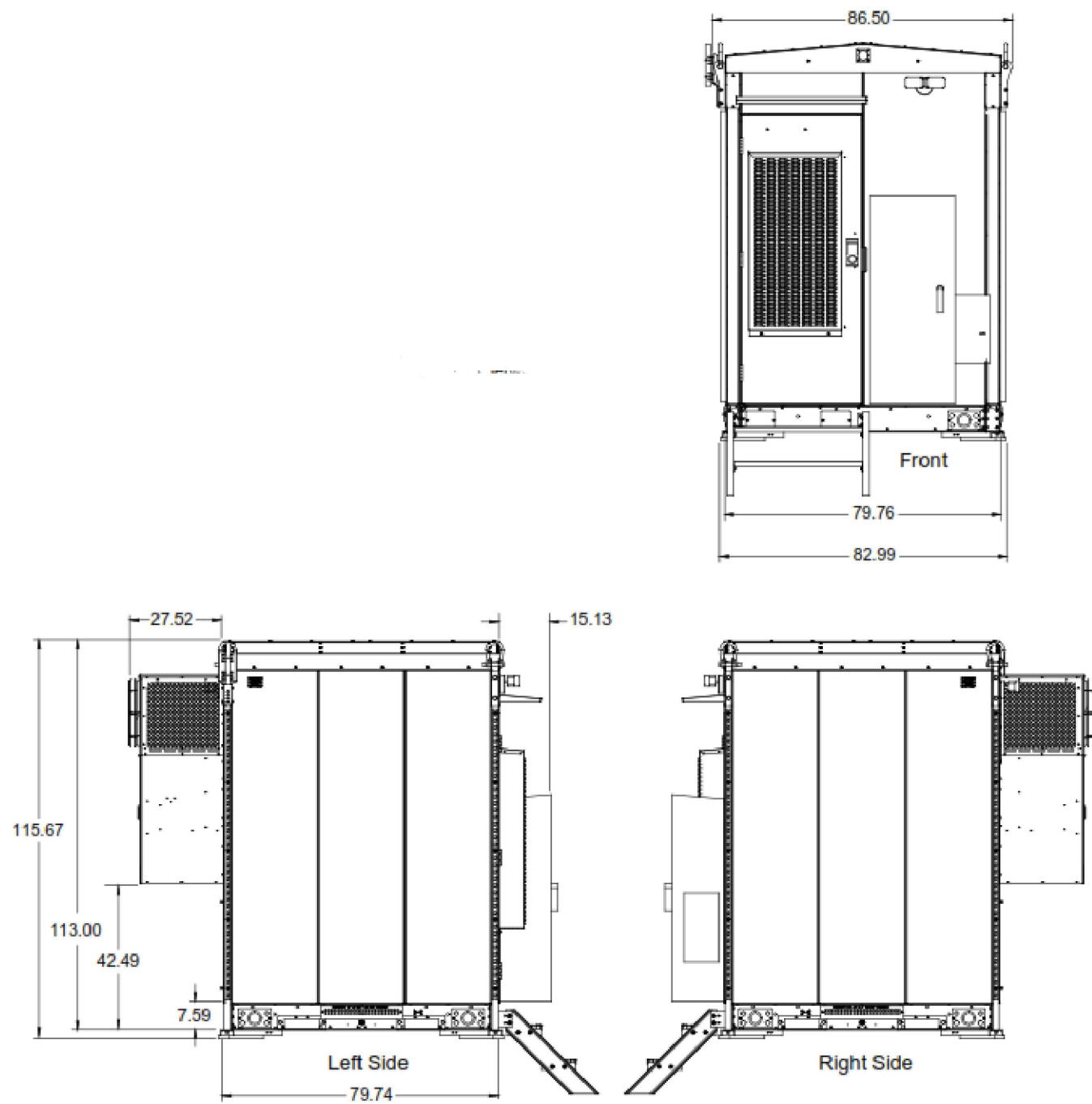
RAYCAP SPECIFICATIONS					
RAYCAP MODEL	A	B	C	D	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	10.2	18.3"	-	16

3 **RAYCAP SPECIFICATIONS**
NOT TO SCALE

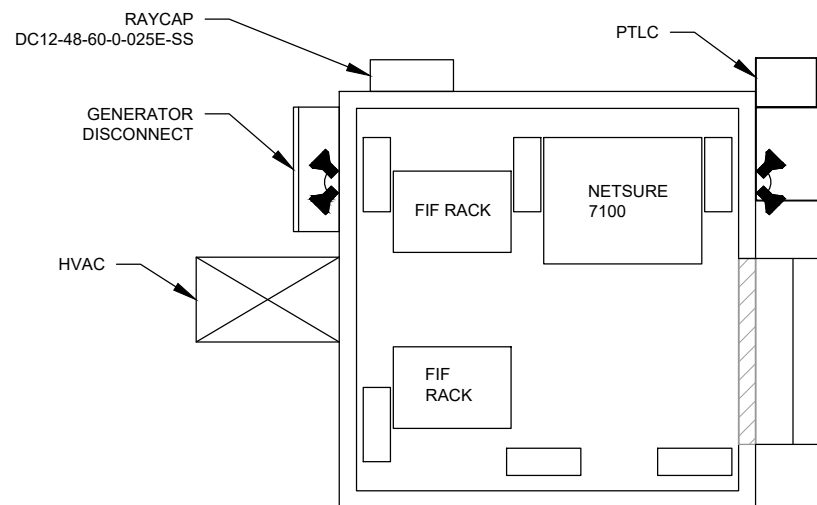
SUPPLEMENTAL

SHEET NUMBER: REVISION:

R-601



1 WIC DETAILS
SCALE: NOT TO SCALE



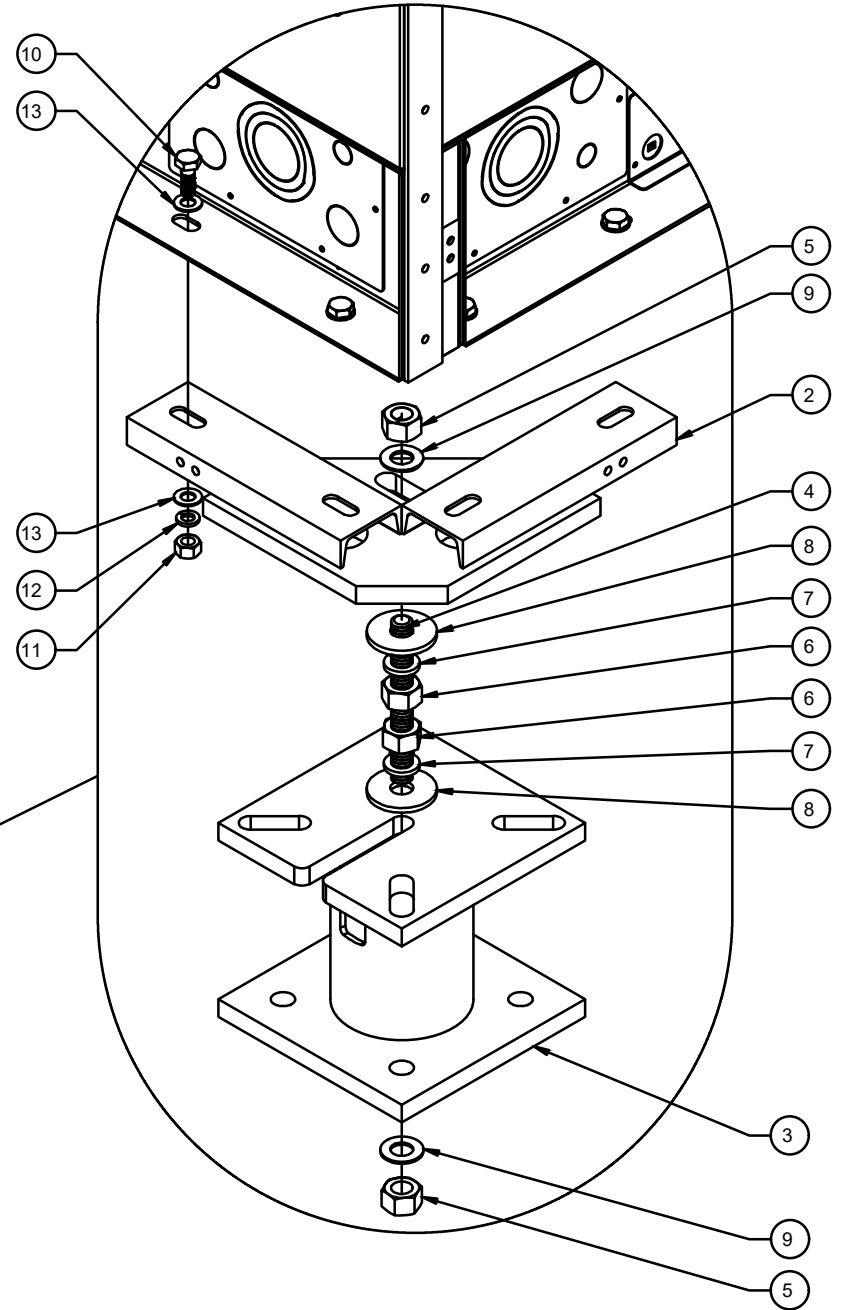
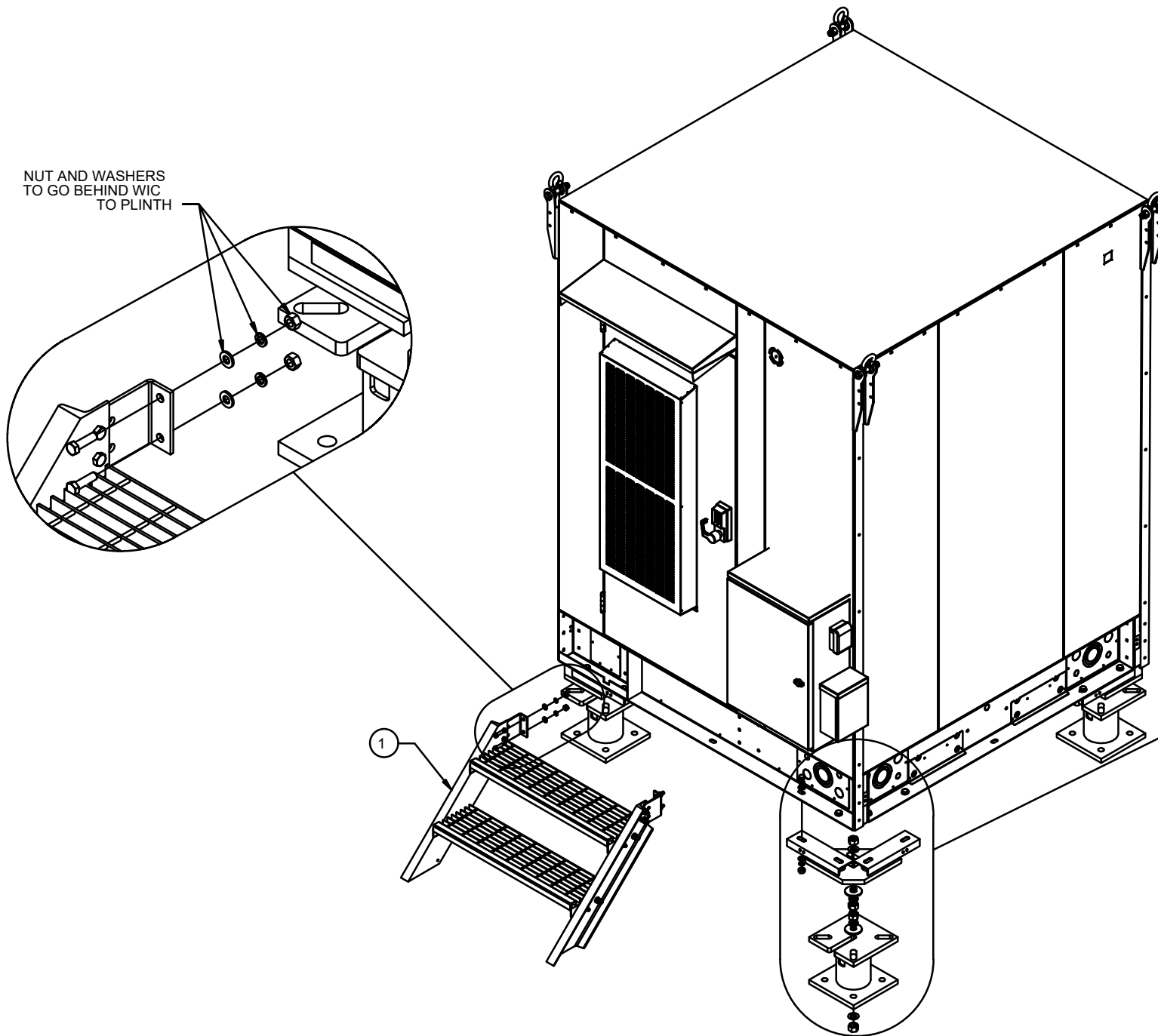
5 EQUIPMENT LAYOUT
SCALE: NOT TO SCALE

SUPPLEMENTAL

SHEET NUMBER:
R-602

REVISION:

NUT AND WASHERS
TO GO BEHIND WIC
TO PLINTH



NOTES:

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

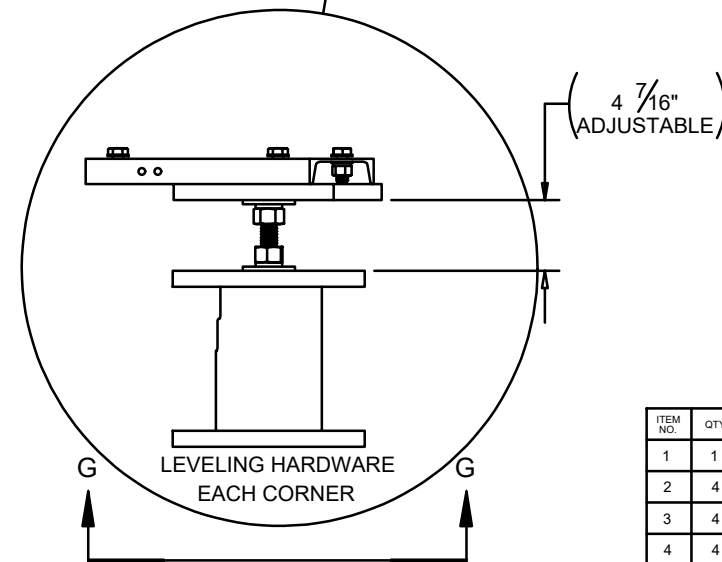
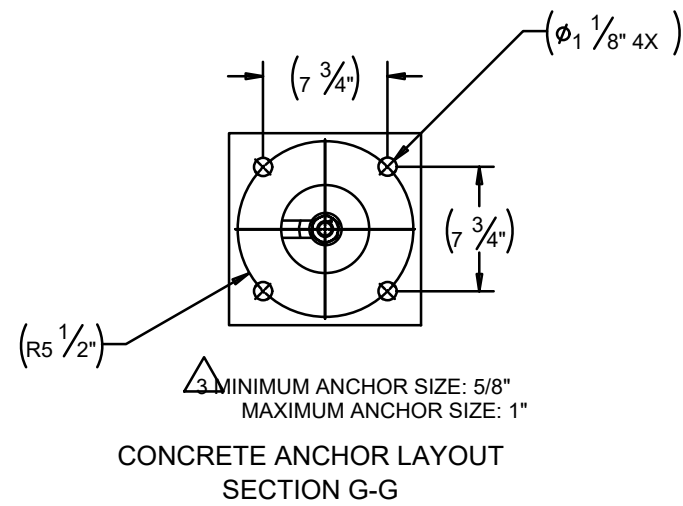
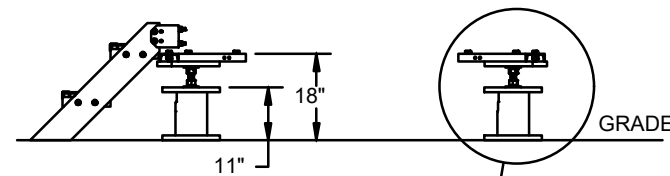
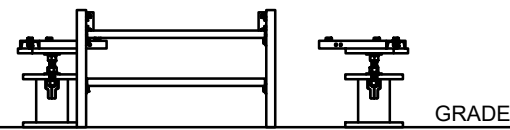
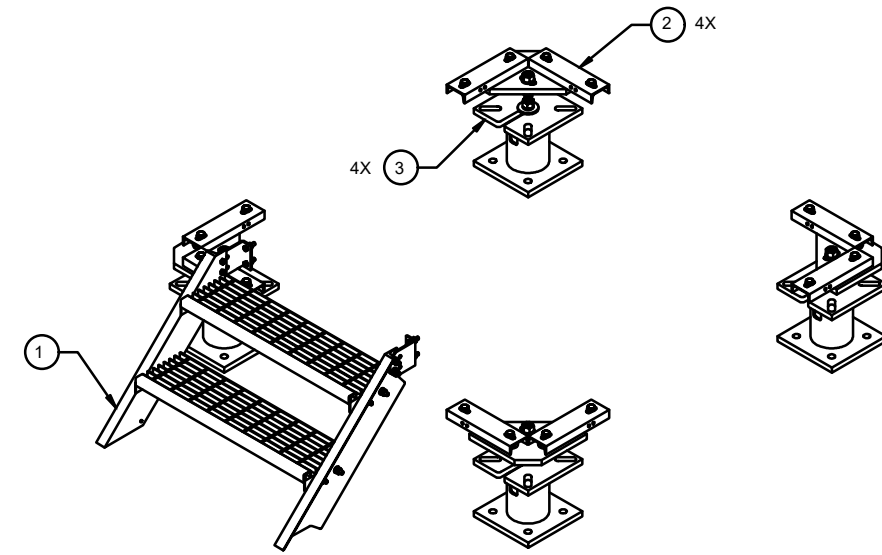
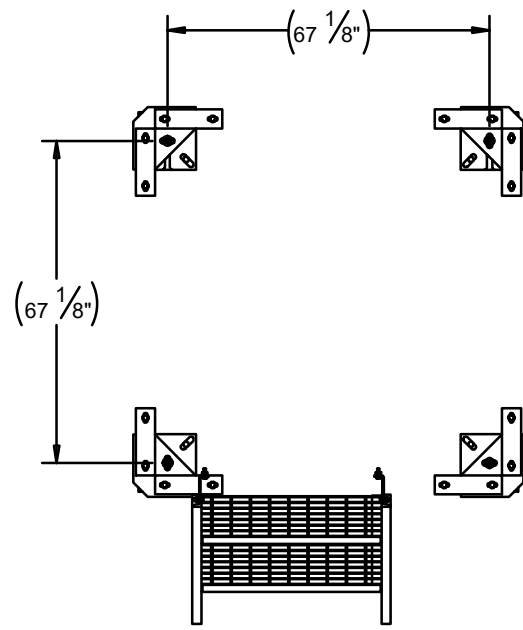
1 WIC SHELTER DETAILS
SCALE: NOT TO SCALE

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

SUPPLEMENTAL

SHEET NUMBER:
R-603

REVISION:
A



NOTES:

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

1 WIC SHELTER DETAILS

SCALE: NOT TO SCALE

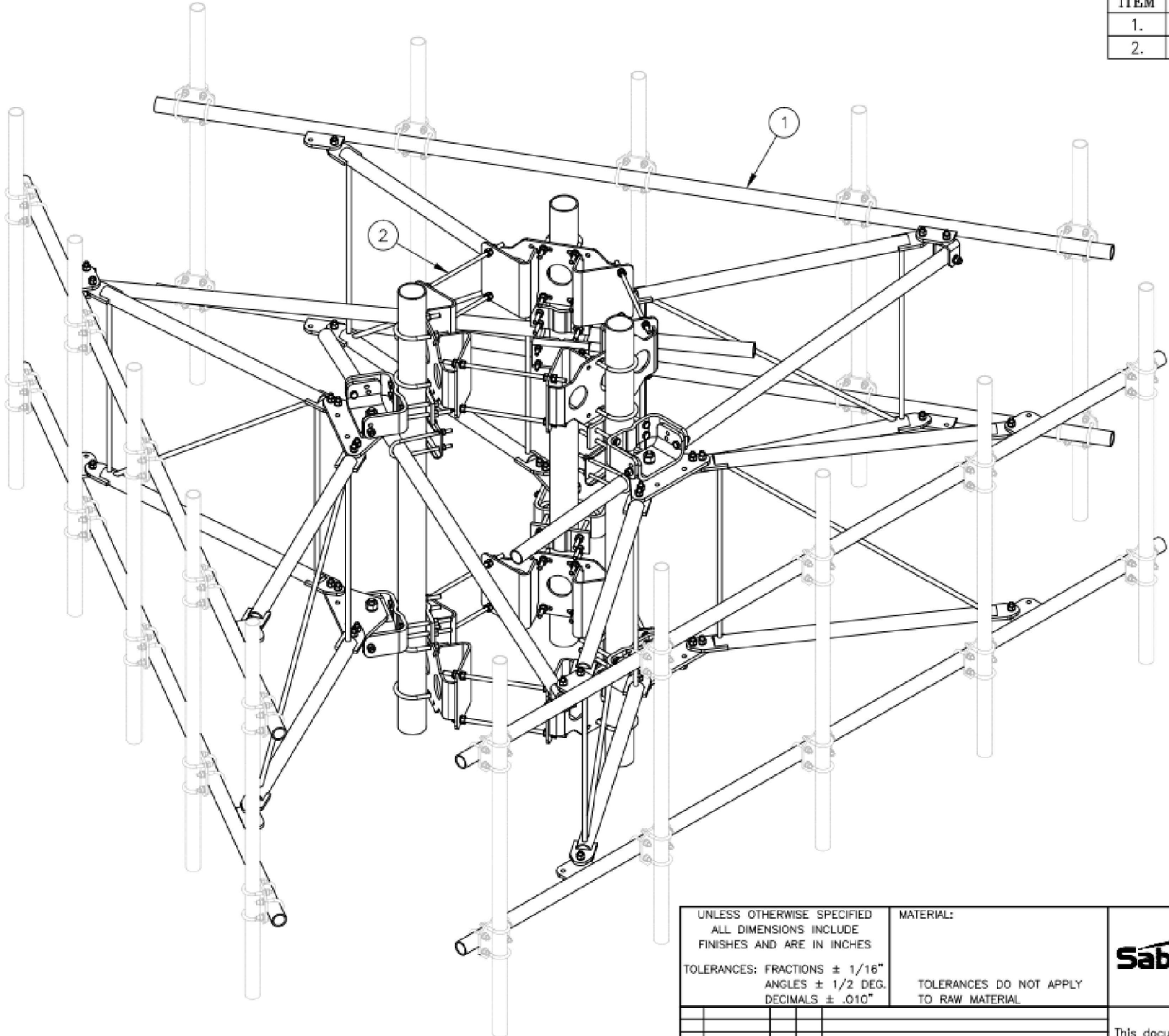
ITEM NO.	QTY.	PART NUMBER	DESCRIPTION	WEIGHT
1	1	1003-0000-0016	WIC 2-STEP STAIRS KIT, 45 DEGREE	102.9
2	4	W-000-771	ATT WIC HELICAL ADAPTER WELDMENT	44.9
3	4	W-000-847	6" X 11" EXTENSION WELDMENT	81.5
4	4	002-0AT-H000	ROD, THREADED, 1.00"-8 X 9.00" LG, ASTM A193 B7, GALV	1.60
5	8	002-0NG-0000	NUT, HX, 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

SUPPLEMENTAL

SHEET NUMBER:
R-604

REVISION:

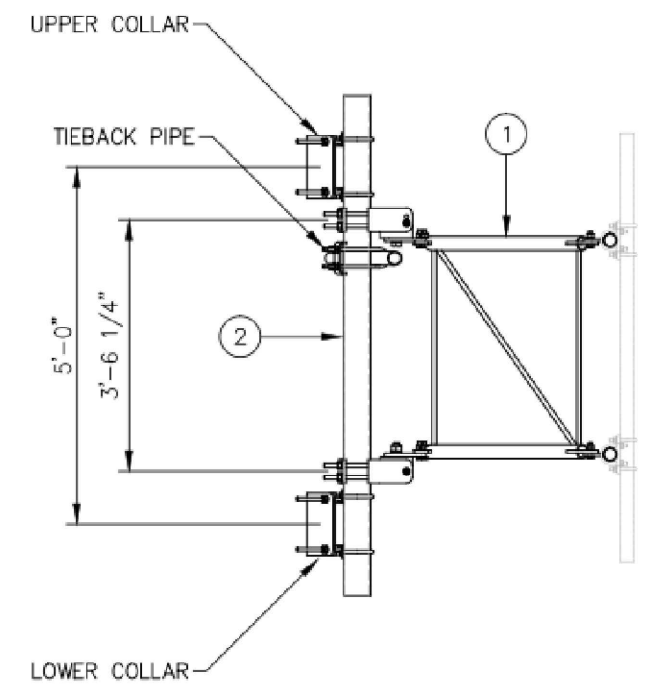
C10857801 12' HD V-BOOM ASSEMBLIES W/TIEBACK				
ITEM	QTY.	PART NO.	DESCRIPTION	WEIGHT
1.	3	C10857001C	12' HD V-BOOM ASSEMBLY W/TIE BACK	1386
2.	1	C10899050	4 1/2" O.D. MONOPOLE PIPE MOUNT ASSEMBLY	678
			TOTAL WEIGHT	2064



ISOMETRIC VIEW

NOTES:

1. MOUNTING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.
2. SEE DRAWING C10857001C FOR 12' V-BOOM ASSEMBLY.
3. SEE DRAWING C10899050 FOR 4 1/2" O.D. MONOPOLE PIPE MOUNT ASSEMBLY.



VIEW A-A
FROM PAGE 2

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS INCLUDE
FINISHES AND ARE IN INCHES

TOLERANCES: FRACTIONS ± 1/16"
ANGLES ± 1/2 DEG.
DECIMALS ± .010"

MATERIAL:

TOLERANCES DO NOT APPLY
TO RAW MATERIAL



12' HD V-BOOM ASSEMBLY W/TIEBACK
(3' STANDOFF)
ON MONOPOLE PIPE MOUNT ASSEMBLY
W/NO ANTENNA MOUNTING PIPES

REV	DATE	DRW/CHK	DESCRIPTION

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DATE	09/24/18	SIZE	B	DRAWING NO.	C10857801	REV	0
DRAWN BY	WRF	SCALE	None	PAGE	1	OF 2	
CHECKED BY	WMN						

SUPPLEMENTAL

SHEET NUMBER:
R-605

REVISION:

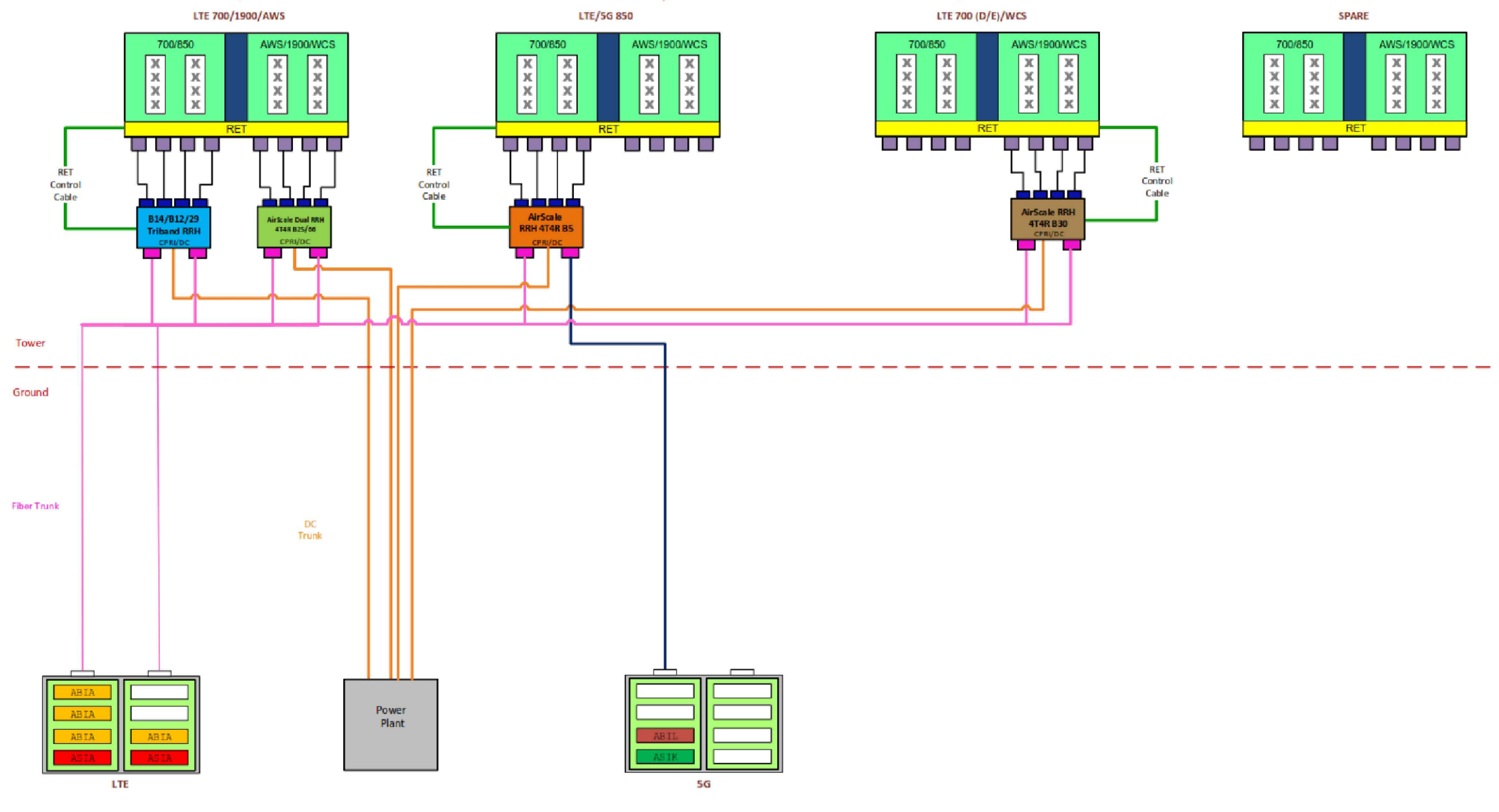
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED
AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT.

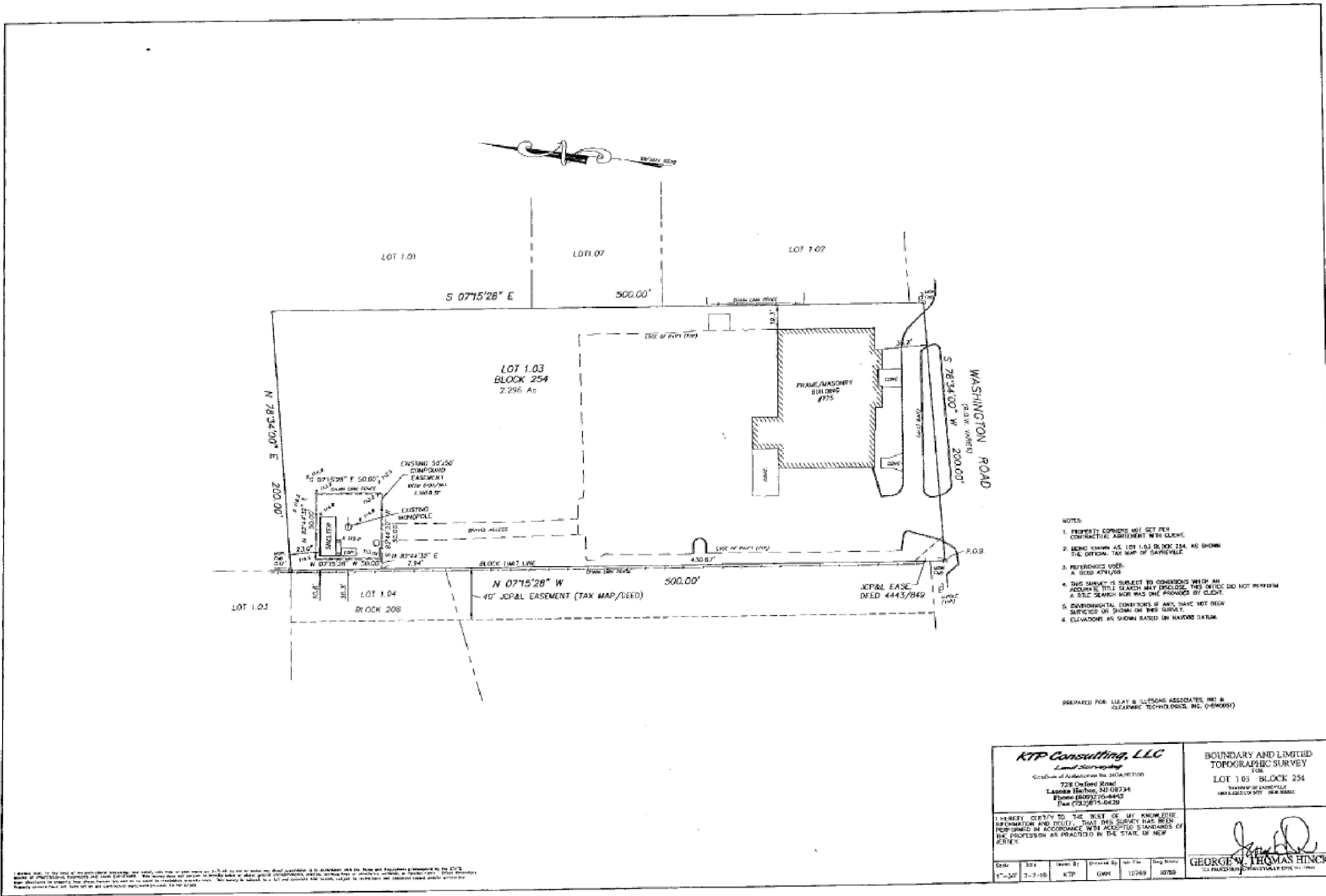
Proposed Configuration

NWL05836 – All Sectors

Before starting RRH/antenna installation, please refer to Nokia field guides and notices for requirements.

← Maintain a minimum of 6' separation →





- NOTES:
1. PROPERTY CORNERS NOT SET PER CONTRACTUAL AGREEMENT WITH CLIENT.
 2. BEING KNOWN AS LOT 1.03 BLOCK 254, AS SHOWN THE OFFICIAL TAX MAP OF SAYREVILLE.
 3. REFERENCES USED:
A. DEED #791/09
 4. THIS SURVEY IS SUBJECT TO CONDITIONS WHICH AN ACCURATE TITLE SEARCH MAY DISCLOSE. THIS OFFICE DID NOT PERFORM A TITLE SEARCH NOR WAS ONE PROVIDED BY CLIENT.
 5. ENVIRONMENTAL CONDITIONS IF ANY, HAVE NOT BEEN SURVEYED OR SHOWN ON THIS SURVEY.
 6. ELEVATIONS AS SHOWN BASED ON NAVD83 DATUM.

PREPARED FOR: LULAY & LUTSOS ASSOCIATES, INC. & CLEARWAVE TECHNOLOGIES, INC. (0-2800991)

KTP Consulting, LLC <i>Land Surveying</i> <small>Division of Administration No. 2400000000</small> 728 DeWitt Road Lakota Beach, NJ 08734 Phone (609) 276-8445 Fax (609) 275-8420		BOUNDARY AND LIMITED TOPOGRAPHIC SURVEY <small>FORM</small> LOT 1.03 BLOCK 254 <small>TOWNSHIP OF SAYREVILLE AND COUNTY OF MERCER</small>
I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, THAT THIS SURVEY HAS BEEN PERFORMED IN ACCORDANCE WITH ACCEPTED STANDARDS OF THE PROFESSION AS PRACTICED IN THE STATE OF NEW JERSEY.		 GEORGE W. THOMAS HINCK <small>REGISTERED PROFESSIONAL LAND SURVEYOR</small>
<small>Date:</small> 2-7-18 <small>Scale:</small> 1"=50' <small>Drawn By:</small> KTP <small>Checked By:</small> GWH <small>App. File:</small> 10769 <small>Draw. Number:</small> 10769		

I warrant that, to the best of my knowledge, information and belief, this map or plan was made by me or under my direct supervision and to the best of my knowledge and belief, the same are true and correct. This warranty does not extend to boundary lines or other special circumstances, unless specifically stated on this map or plan. I warrant that the same are true and correct. This warranty is subject to a full and complete title search, which is hereby referred to and incorporated by reference into this map or plan. I warrant that the same are true and correct. This warranty is subject to a full and complete title search, which is hereby referred to and incorporated by reference into this map or plan. I warrant that the same are true and correct.

1 SURVEY

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

SUPPLEMENTAL

SHEET NUMBER:
R-607

REVISION: