

From: Tristen Spear <tspear@clinellc.com>
Sent: Wednesday, January 18, 2023 9:21 AM
To: CSC-DL Siting Council <Siting.Council@ct.gov>
Cc: Mike Anderson <manderson@clinellc.com>
Subject: RE: 47 Inwood Road (EM-AT&T-119-220926)

Good morning,

The work has been completed at this site. Here is the final affidavit from the engineer.

Thank you,
Tristen



Tristen Spear | Project Coordinator
95 Ryan Drive, Suite 1
Raynham, MA 02767
Cell: 781-351-1293 | Fax: 617-249-0819
tspear@clinellc.com | www.centerlinecommunications.com

From: Tristen Spear
Sent: Monday, November 28, 2022 8:08 AM
To: siting.council@ct.gov
Cc: Mike Anderson <manderson@clinellc.com>
Subject: 47 Inwood Road (EM-AT&T-119-220926)

Good morning,

We will be starting construction at this site on 12/12.

Thank you,
Tristen



Tristen Spear | Project Coordinator
95 Ryan Drive, Suite 1
Raynham, MA 02767
Cell: 781-351-1293 | Fax: 617-249-0819
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January 17, 2023

Building Department
Town of Rocky Hill
761 Old Main Street
Rocky Hill, CT 06067

Construction Closeout Letter

ATC Site Name: Middletown CT 3
ATC Asset#: 302537
AT&T Site#: CTLo5121
Site Address: 47 Inwood Road
Rocky Hill, CT 06067

To Whom It May Concern:

In accordance with the requirements of the 2018 Connecticut State Building Code, Dewberry Engineers Inc. (Dewberry) reviewed the completed installation at the above location based on Rev-2 Construction Drawings dated 10/25/2022. A mount analysis report was completed by Telamon CLS, dated 04/19/2022, and a tower structural analysis report was completed by American Tower Corporation, dated 02/15/2022.

Please see the attached reports and documentation for the completed site.

- January 17, 2023 – Contractor Report
- January 11, 2023 – As-Built drawings

Based on visual observations, it appears that the project is constructed in general conformance with the applicable plans and specifications. If you have any questions, please do not hesitate to contact Dewberry Engineers Inc.

Sincerely,
Dewberry Engineers Inc.

Benjamin Revette, P.E.
Associate Vice President



Statement of Special Inspections

Contractor Report #1

Attn: Mr. Blake Paynter
Project Manager
American Tower Corporation
10 Presidential Way
Woburn, MA 01801

ATC Site Name:	Middletown CT 3
ATC Site#/Project#:	302537 / 13747862
Site Address:	47 Inwood Road Rocky Hill, CT 06067
Contractor:	Centerline Communications

Dewberry Engineers Inc. (Dewberry) has reviewed the photos and as-built drawings provided by the general contractor of the recently completed site improvements at the aforementioned location. The site review was performed based on Rev-2 Construction Drawings dated 10/25/2022. A mount analysis report was completed by Telamon CLS, dated 04/19/2022, and a tower structural analysis report was completed by American Tower Corporation, dated 02/15/2022.

The following are on-site photos from the inspection:

- Figure 1: View of installed alpha sector antennas and RRUs on existing platform
- Figure 2: View of installed alpha sector RRUs on existing platform
- Figure 3: View(s) of installed beta sector antennas and RRUs on existing platform
- Figure 4: View of installed beta sector RRUs on existing platform
- Figure 5: View of installed gamma sector antennas and RRUs on existing platform
- Figure 6: View of installed gamma sector RRUs on existing platform
- Figure 7: View of cabinet interior
- Figure 8: View of installed cables in ice bridge

All notes and items in this field report are a record of observations provided by the photos. Please notify Dewberry Engineers Inc. in writing of any discrepancies, errors or misinterpretations. Please find attached to this report, the figures and photos of construction and items observed.

Prepared By: _____


Joseph Mazzeo
Engineer

Contractor Photos:



Figure 1: View of installed alpha sector antennas and RRUs on existing platform



Figure 2: View of installed alpha sector RRUs on existing platform

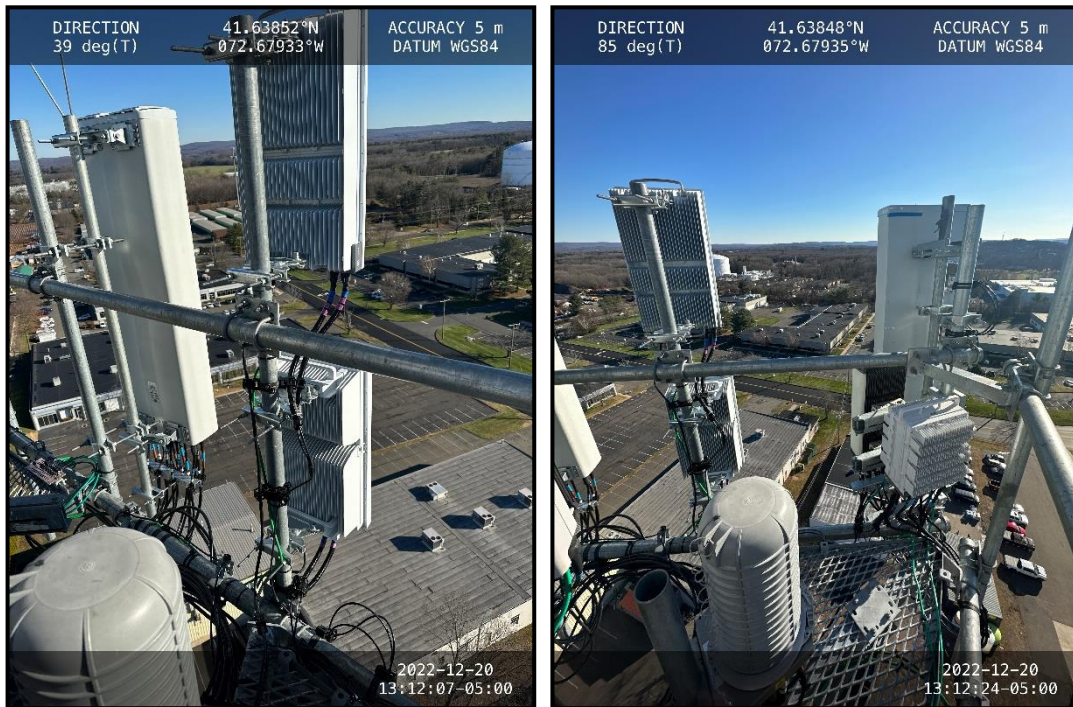


Figure 3: View(s) of installed beta sector antennas and RRUs on existing platform

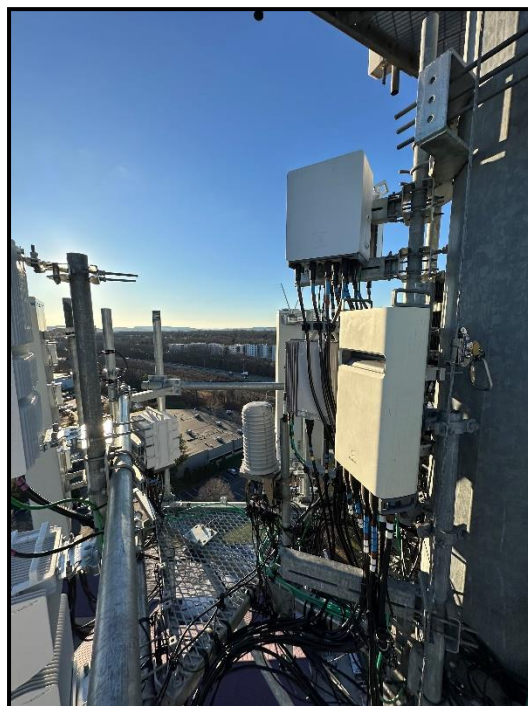


Figure 4: View of installed beta sector RRUs on existing platform



Figure 5: View of installed gamma sector antennas and RRUs on existing platform



Figure 6: View of installed gamma sector RRUs on existing platform

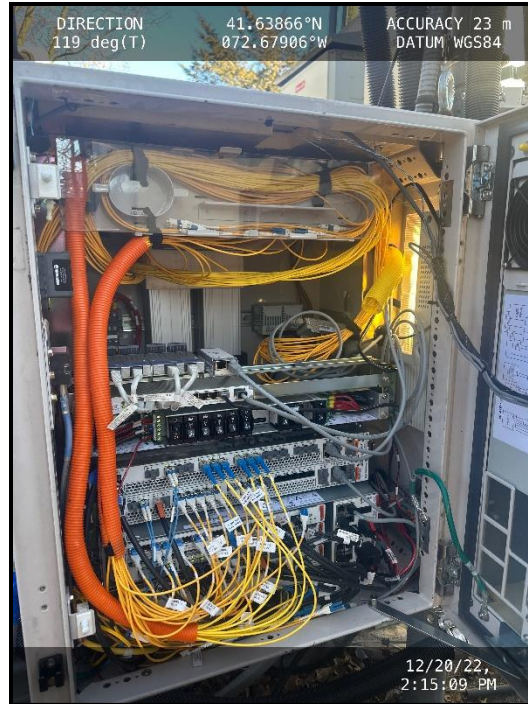
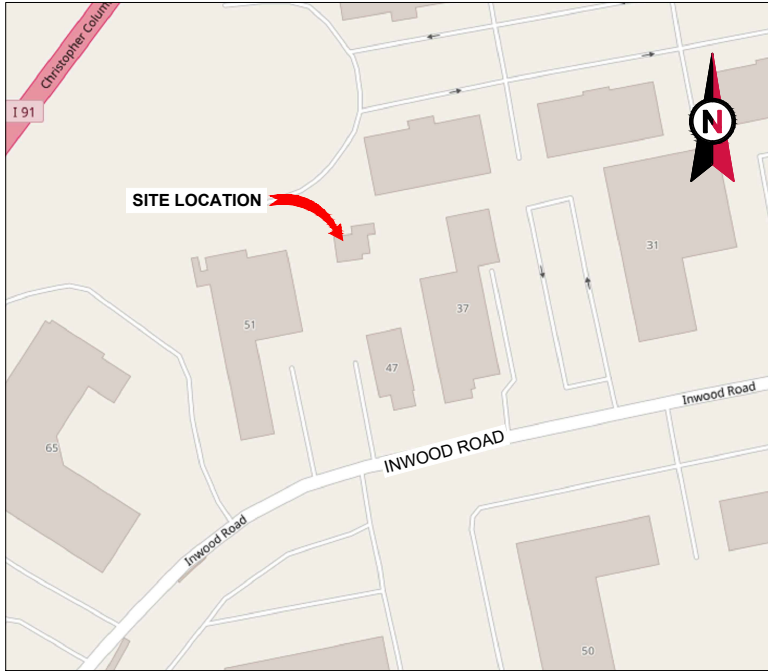


Figure 7: View of cabinet interior



Figure 8: View of installed cables in ice bridge



VICINITY MAP

AS BUILT
Centerline Communications
Tristen Spear
1/11/23 12:22 PM



AMERICAN TOWER®

ATC SITE NAME: MIDDLETOWN CT 3
ATC SITE NUMBER: 302537
AT&T PACE NUMBERS: MRCTB050837, MRCTB052325
AT&T SITE ID: CTL05121
AT&T FA CODE:10070983
AT&T SITE NAME: CROMWELL EAST
SITE ADDRESS: 47 INWOOD ROAD
ROCKY HILL, CT 06067



LOCATION MAP

AT&T 5G NR RADIO || 5G NR 1SR CBAND
AMENDMENT PLAN

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
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. 1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015 2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL 3. TIA-222-G-4, STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS 4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS 5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION 6. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 47 INWOOD ROAD ROCKY HILL, CT 06067 COUNTY: HARTFORD <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.63858681° LONGITUDE: -72.67928823° GROUND ELEVATION: 145' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (9) ANTENNA(S), (1) DC-6 SQUID, AND (6) 1-5/8" COAX INSTALL (9) ANTENNA(S), (1) DC-6 SQUID, (1) 18-PAIR FIBER AND (3) Y-CABLE(S) EXISTING (3) ANTENNA(S), (18) RRH(S), (4) SQUID(S), (2) FIBER TRUNK(S), (6) 8AWG6 DC TRUNK(S) AND (2) 6AWG6 DC TRUNK(S) TO REMAIN <u>GROUND WORK:</u> REMOVE (1) UMTS BBU INSTALL (1) 6648 WITH XCEDE CABLE(S) EXISTING (1) 6601, (1) 5216, 5216/XMU/ 6630 IDLe(S), (1) XMU03 AND (4) RECTIFIERS TO REMAIN	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
			G-001	TITLE SHEET	2	10/25/22	HMP
			G-002	GENERAL NOTES	2	10/25/22	HMP
			C-101	DETAILED SITE PLAN	2	10/25/22	HMP
			C-201	TOWER ELEVATION	2	10/25/22	HMP
			C-401	RF SCHEDULE AND ANTENNA INSTALLATION	2	10/25/22	HMP
			C-501	CONSTRUCTION DETAILS	2	10/25/22	HMP
			E-501	GROUNDING DETAILS	2	10/25/22	HMP
			R-601	SUPPLEMENTAL			
			R-602	SUPPLEMENTAL			
		R-603	SUPPLEMENTAL				
		R-604	SUPPLEMENTAL				



Dewberry®
Dewberry Engineers Inc.
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SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	BR	04/29/22
0	FINAL	BR	04/29/22
1	FINAL	HMP	09/30/22
2	FINAL	HMP	10/25/22

ATC SITE NUMBER:
302537

ATC SITE NAME:
MIDDLETOWN CT 3

AT&T SITE NAME:
CROMWELL EAST

SITE ADDRESS:
47 INWOOD ROAD
ROCKY HILL, CT 06067



DATE DRAWN:	02/23/22
ATC JOB NO:	13747862_D1
CUSTOMER ID:	CTL05121
CUSTOMER #:	10070983

TITLE SHEET

SHEET NUMBER:
G-001
REVISION:
2

GENERAL CONSTRUCTION NOTES:

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

- DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY AT&T MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH AT&T SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO AT&T FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO AT&T 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 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 NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE 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 REP. ANY WORK FOUND BY THE AT&T 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 FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE AT&T 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 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 OR THEIR ARCHITECT/ENGINEER.
- SPECIAL CONSTRUCTION
- ANTENNA INSTALLATION NOTES:
1. WORK INCLUDED:

A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY AT&T UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL.

B. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.

D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.

E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.

F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.

G. ANTENNA AND COAXIAL CABLE GROUNDING:

2. ALL EXTERIOR #6 GREEN GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPICE WEATHERPROOFING KIT #221213 OR EQUAL.

3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

AS BUILT
Centerline Communications
Tristen Spear
1/11/23 12:22 PM

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.



Dewberry®
Dewberry Engineers Inc.
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BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	BR	04/29/22
0	FINAL	BR	04/29/22
1	FINAL	HMP	09/30/22
2	FINAL	HMP	10/25/22

ATC SITE NUMBER:
302537

ATC SITE NAME:
MIDDLETOWN CT 3

AT&T SITE NAME:
CROMWELL EAST

SITE ADDRESS:
47 INWOOD ROAD
ROCKY HILL, CT 06067

SEAL:



DATE DRAWN:	02/23/22
ATC JOB NO:	13747862_D1
CUSTOMER ID:	CTL05121
CUSTOMER #:	10070983

GENERAL NOTES

SHEET NUMBER:

G-002

REVISION:

2

SITE PLAN NOTES:

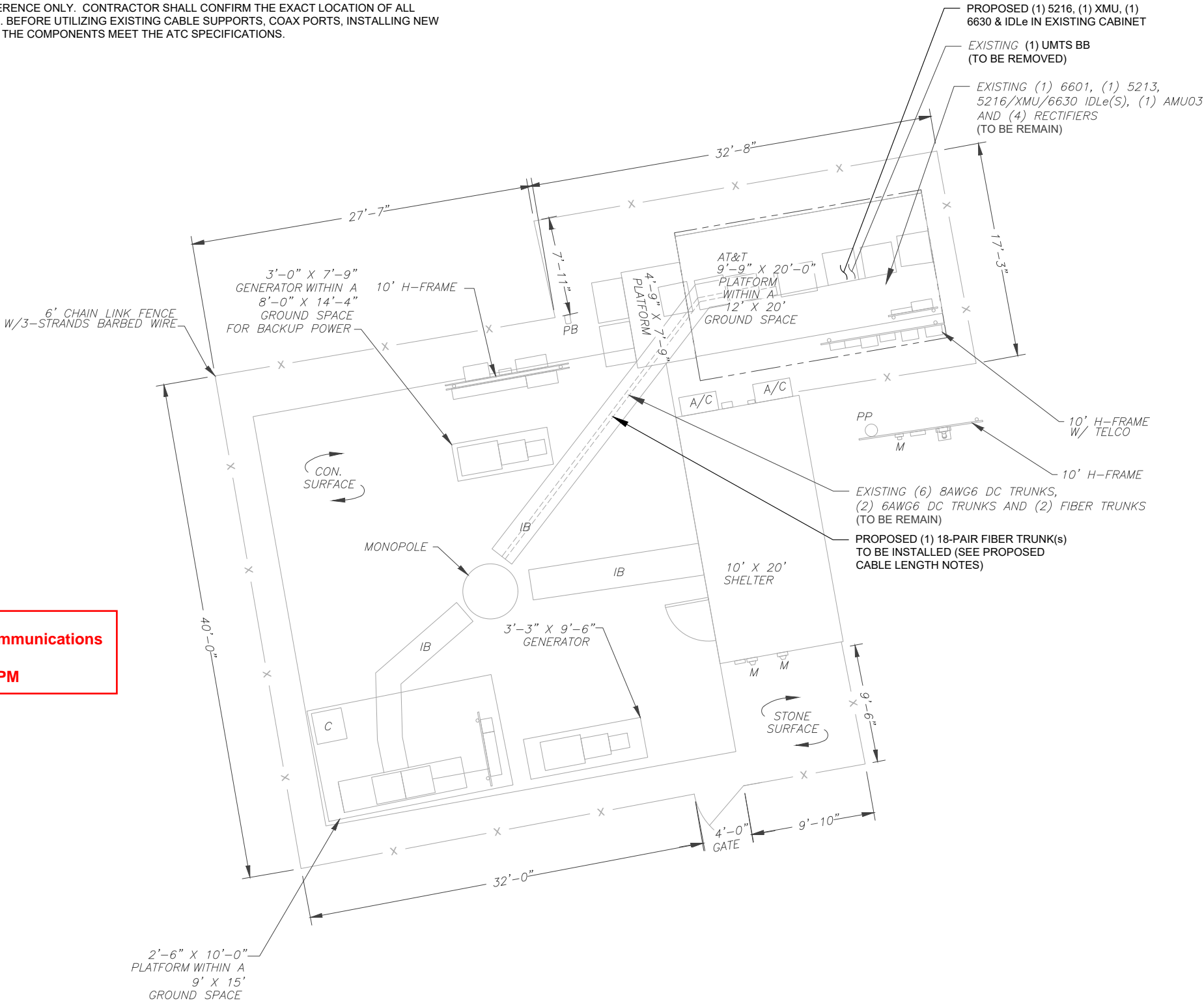
1.

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.

THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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

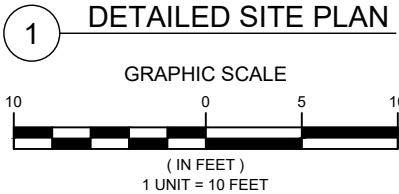


AS BUILT
Centerline Communications
Tristen Spear
1/11/23 12:22 PM

- PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **250'±**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.

2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).



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Dewberry Engineers Inc.
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A	PRELIM	BR	04/29/22
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AT&T SITE NAME:
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ROCKY HILL, CT 06067

SEAL:



DATE DRAWN:	02/23/22
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CUSTOMER ID:	CTL05121
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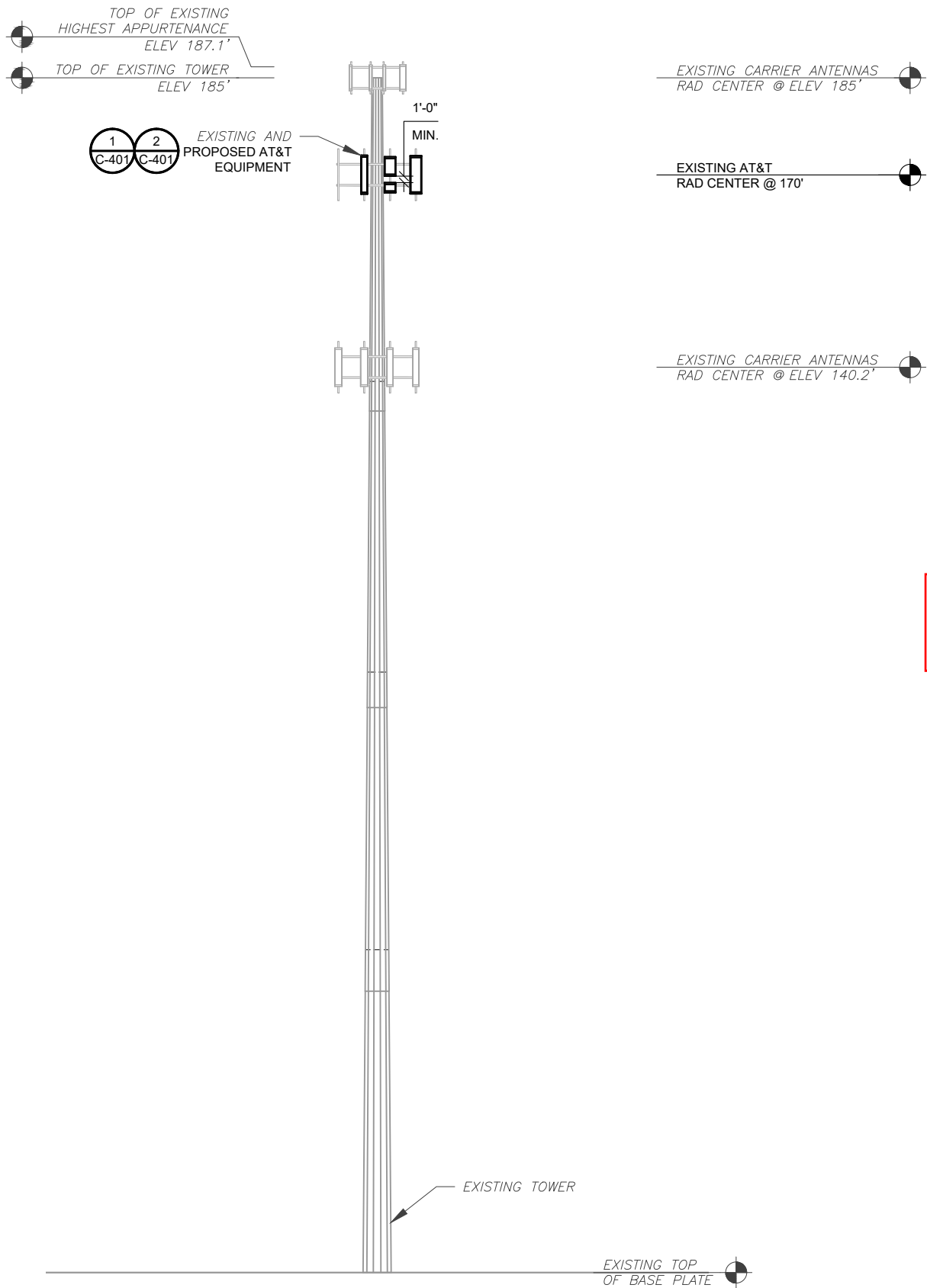
DETAILED SITE PLAN

SHEET NUMBER:

C-101

REVISION:

2



PER MOUNT ANALYSIS COMPLETED BY TELEMONTOWER ENGINEERING PLLC, DATED 04/19/2022, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION PROPOSED IN THE MOUNT ANALYSIS, INCLUDED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

AS BUILT
Centerline Communications
Tristen Spear
1/11/23 12:22 PM

- 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.).
 - TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.



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AT&T SITE NAME:
CROMWELL EAST

SITE ADDRESS:
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ROCKY HILL, CT 06067

SEAL:



DATE DRAWN:	02/23/22
ATC JOB NO:	13747862_D1
CUSTOMER ID:	CTL05121
CUSTOMER #:	10070983

TOWER ELEVATION

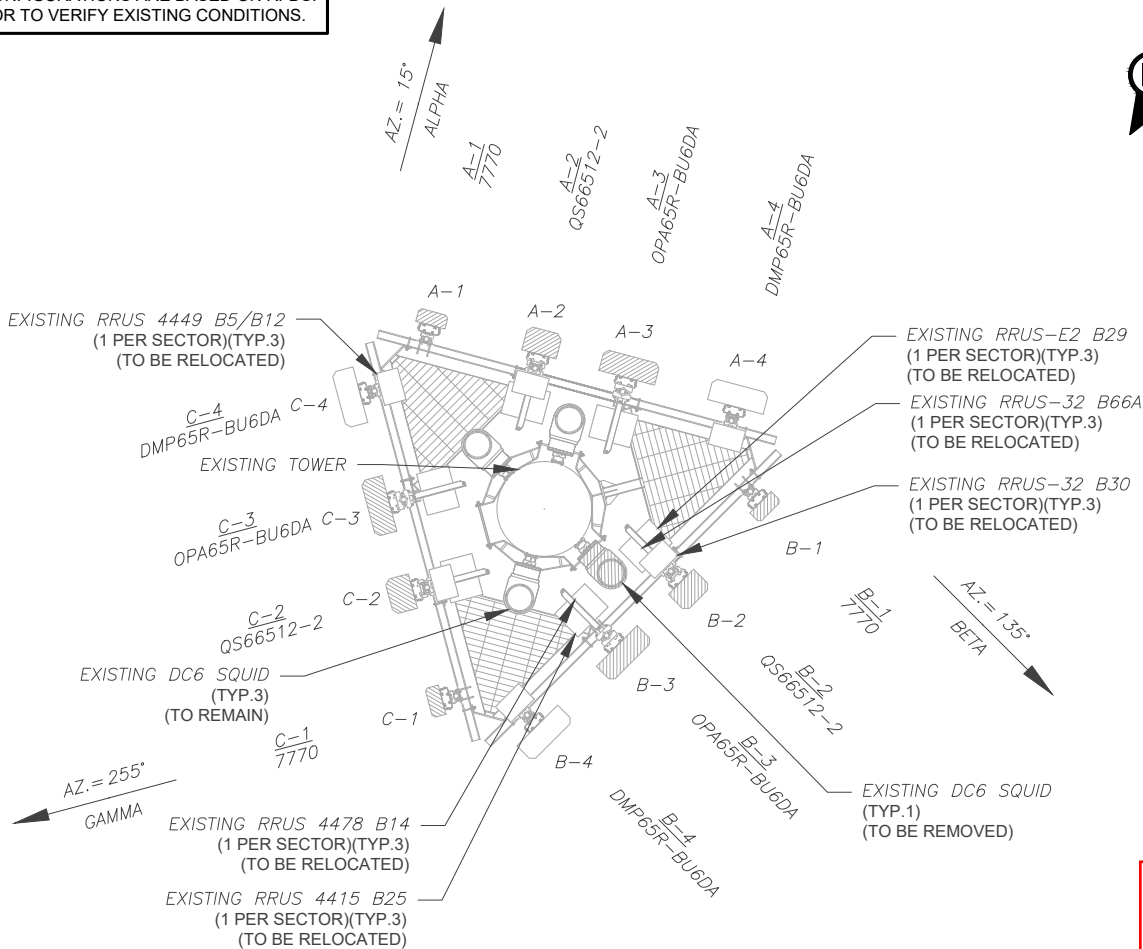
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C-201

REVISION:

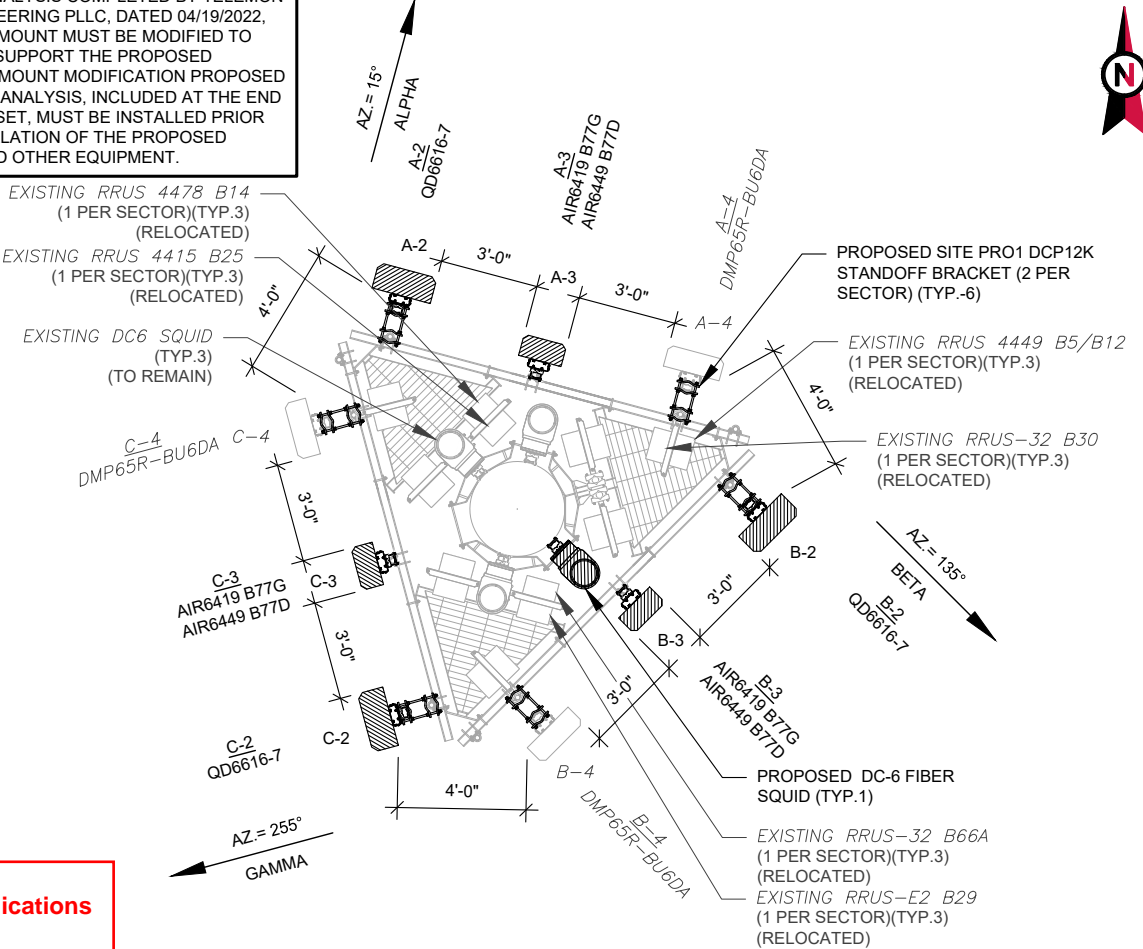
2

EXISTING CONFIGURATIONS ARE BASED ON RFDS.
CONTRACTOR TO VERIFY EXISTING CONDITIONS.



1 CURRENT ANTENNA PLAN
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY TELEMON
TOWER ENGINEERING PLLC, DATED 04/19/2022,
THE EXISTING MOUNT MUST BE MODIFIED TO
ADEQUATELY SUPPORT THE PROPOSED
LOADING. THE MOUNT MODIFICATION PROPOSED
IN THE MOUNT ANALYSIS, INCLUDED AT THE END
OF THIS PLAN SET, MUST BE INSTALLED PRIOR
TO THE INSTALLATION OF THE PROPOSED
ANTENNAS AND OTHER EQUIPMENT.



2 FINAL ANTENNA PLAN
SCALE: N.T.S.

PROPOSED RRUS MUST BE
INSTALLED A MINIMUM OF 8"
AWAY FROM ALL ANTENNAS

EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	170°	15°	A1	7770	UMTS 850	RMV	-	-
			A2	QS66512-2	LTE 700, AWS	RMV	RRUS-E2 B29	REL
			A3	OPA65R-BU6DA	LTE 700, 1900	RMV	RRUS-32 B66A	REL
			A4	DMP65R-BU6DA	LTE 850, 700, 5G 850	RMN	RRUS-32 B30	REL
BETA	170°	135°	B1	7770	UMTS 850	RMV	RRUS 4478 B14	REL
			B2	QS66512-2	LTE 700, AWS	RMV	RRUS 4415 B25	REL
			B3	OPA65R-BU6DA	LTE 700, 1900	RMV	RRUS-E2 B29	REL
			B4	DMP65R-BU6DA	LTE 850, 700, 5G 850	RMN	RRUS-32 B66A	REL
GAMMA	170°	255°	C1	7770	UMTS 850	RMV	RRUS 4478 B14	REL
			C2	QS66512-2	LTE 700, AWS	RMV	RRUS 4415 B25	REL
			C3	OPA65R-BU6DA	LTE 700, 1900	RMV	RRUS-E2 B29	REL
			C4	DMP65R-BU6DA	LTE 850, 700, 5G 850	RMN	RRUS-32 B66A	REL

- NOTES
- CONFIRM WITH AT&T REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
 - CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.
 - THE ANTENNA ORIENTATION PLAN IS A SCHEMATIC. ATC DID NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA AZIMUTHS, MOUNT CONFIGURATIONS AND TOWER ORIENTATION. SCALES SHOWN ARE FOR REFERENCE ONLY AND EXISTING DIMENSIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO INSTALLATION AND NOTIFY ATC OF ANY DISCREPANCIES.
 - CONTRACTOR TO ENSURE PROPER SEPARATION IN ACCORDANCE WITH AT&T'S FIRSTNET REQUIREMENTS (SEE SHEET R-602)

STATUS ABBREVIATIONS
RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS
JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY			NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	170°	15°	A2	QD6616-7	LTE 700, 1900, AWS, 5G 1900, AWS	ADD	4478 B14	REL
			A3	AIR6419 B77G AIR6449 B77D	LSUB6 5G CBAND	ADD	4415 B25	REL
			A4	DMP65R-BU6DA	LTE 700, WCS, 5G 850	RMN	RRUS-32 B66A	REL
			A4	DMP65R-BU6DA	LTE 700, WCS, 5G 850	RMN	RRUS-E2 B29	REL
BETA	170°	135°	B2	QD6616-7	LTE 700, 1900, AWS, 5G 1900, AWS	ADD	4478 B14	REL
			B3	AIR6419 B77G AIR6449 B77D	LSUB6 5G CBAND	ADD	4415 B25	REL
			B4	DMP65R-BU6DA	LTE 700, WCS, 5G 850	RMN	RRUS-32 B66A	REL
			B4	DMP65R-BU6DA	LTE 700, WCS, 5G 850	RMN	RRUS-E2 B29	REL
GAMMA	170°	255°	C2	QD6616-7	LTE 700, 1900, AWS, 5G 1900, AWS	ADD	4478 B14	REL
			C3	AIR6419 B77G AIR6449 B77D	LSUB6 5G CBAND	ADD	4415 B25	REL
			C4	DMP65R-BU6DA	LTE 700, WCS, 5G 850	RMN	RRUS-32 B66A	REL
			C4	DMP65R-BU6DA	LTE 700, WCS, 5G 850	RMN	RRUS-E2 B29	REL

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(3) DC6	RMN	-	(6) 8AWG6, (2) 6AWG6	(3)	RMN
(1) DC6 (POWER ONLY)	RMV	-	-	-	-

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(3) DC6	RMN	-	(6) 8AWG6, (2) 6AWG6	(2) 18-PAIR	RMN
(1) DC6 (W/ FIBER)	ADD	-	-	(1) 18-PAIR	ADD



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SITE ADDRESS:
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ROCKY HILL, CT 06067

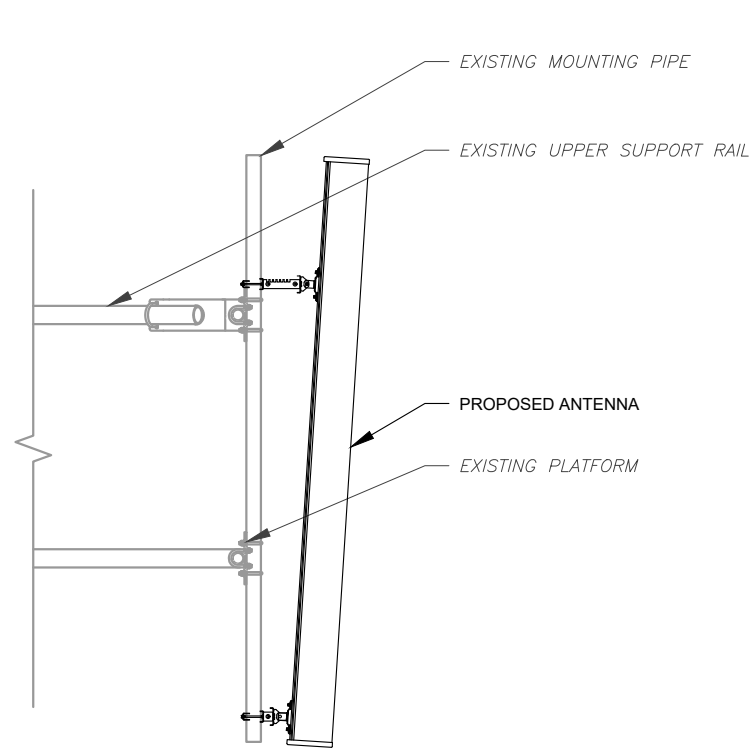


DATE DRAWN:	02/23/22
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CUSTOMER ID:	CTL05121
CUSTOMER #:	10070983

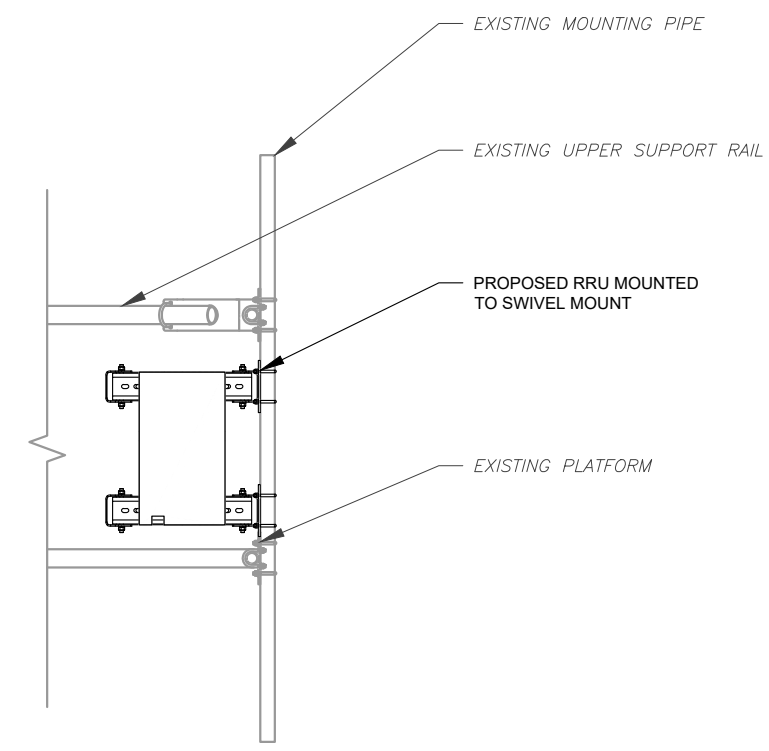
RF SCHEDULE AND ANTENNA INSTALLATION

SHEET NUMBER:
C-401

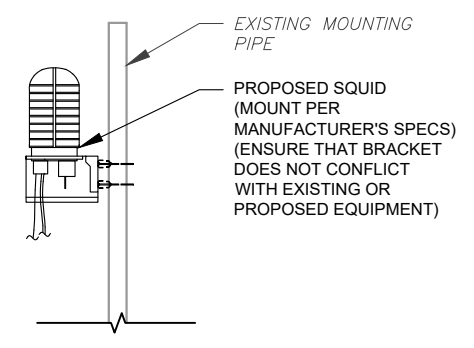
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2



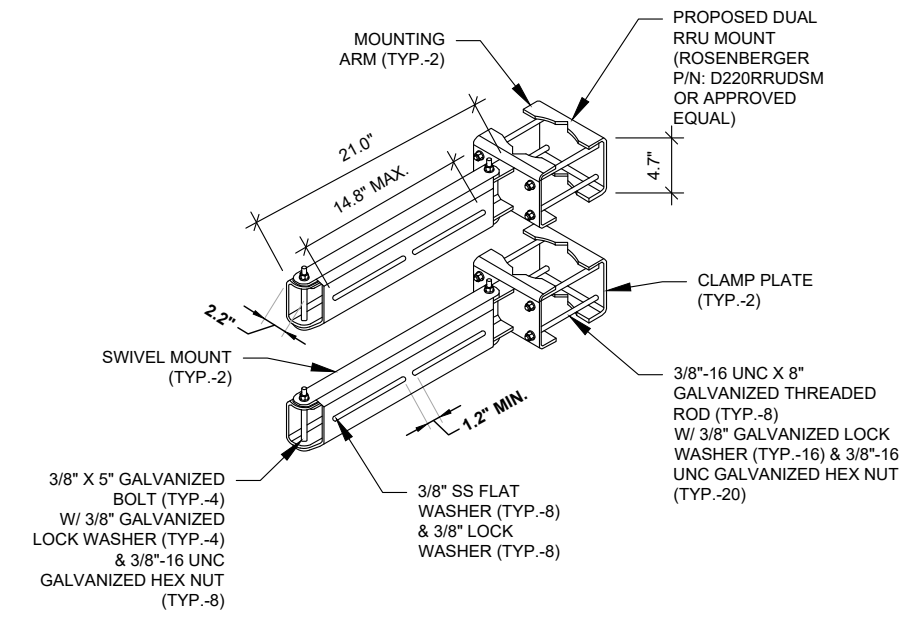
1 ANTENNA DETAIL
SCALE: N.T.S.



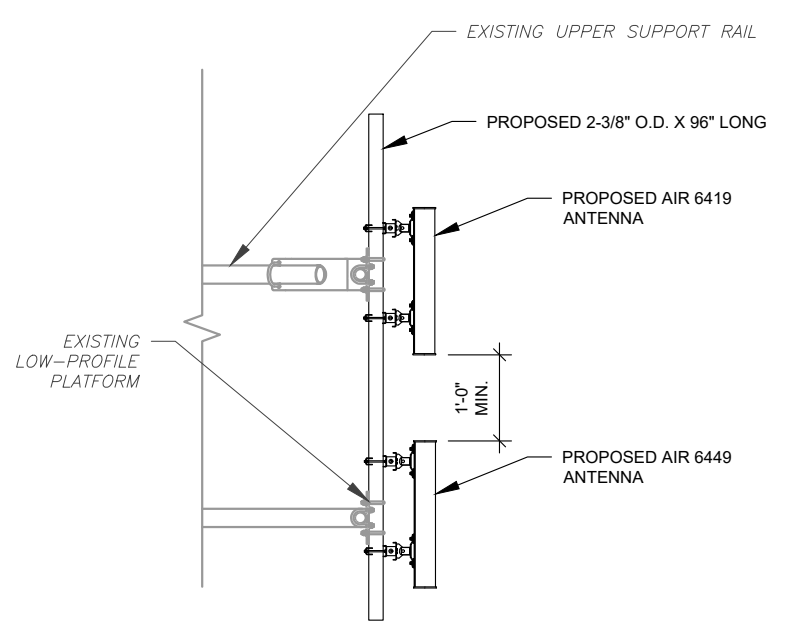
2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



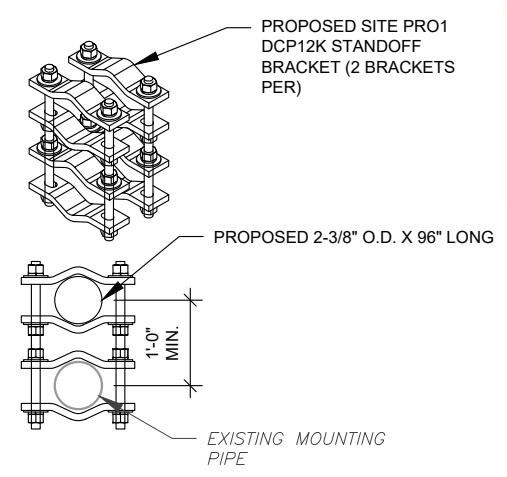
3 PROPOSED SQUID MOUNTING
SCALE: N.T.S.



4 PROPOSED SWIVEL MOUNT DETAIL
SCALE: N.T.S.



5 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL
SCALE: N.T.S.



6 ANTENNA STAND OFF DETAIL
SCALE: N.T.S.

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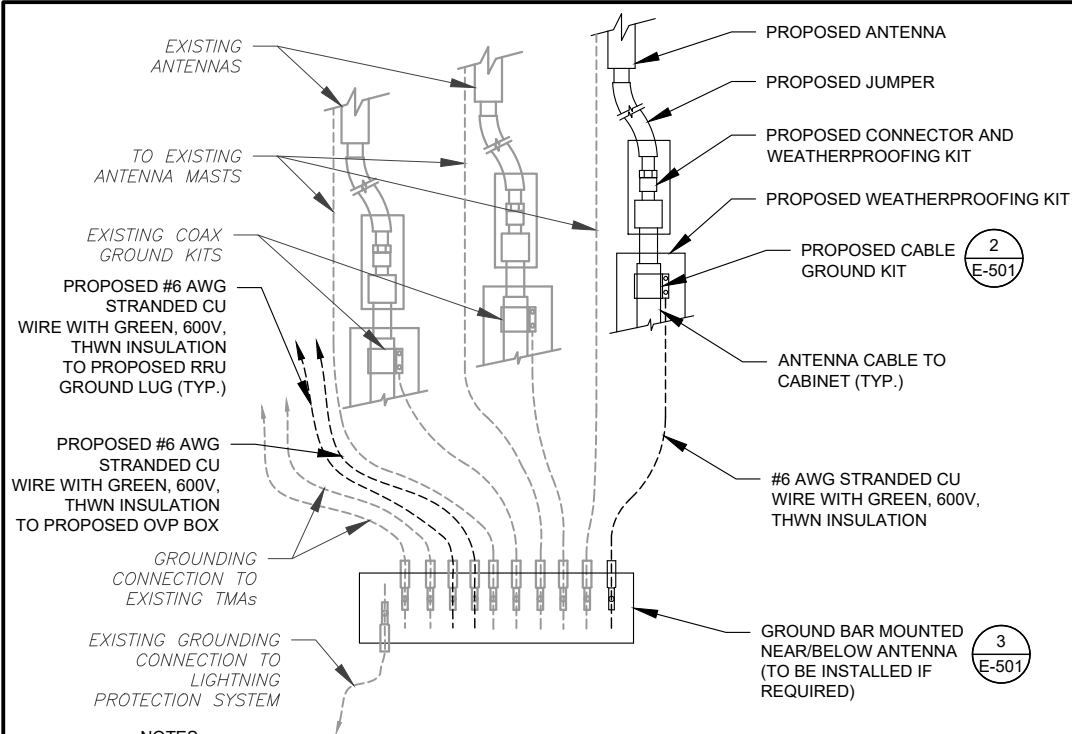
SITE ADDRESS:
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DATE DRAWN:	02/23/22
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CUSTOMER #:	10070983

CONSTRUCTION
DETAILS

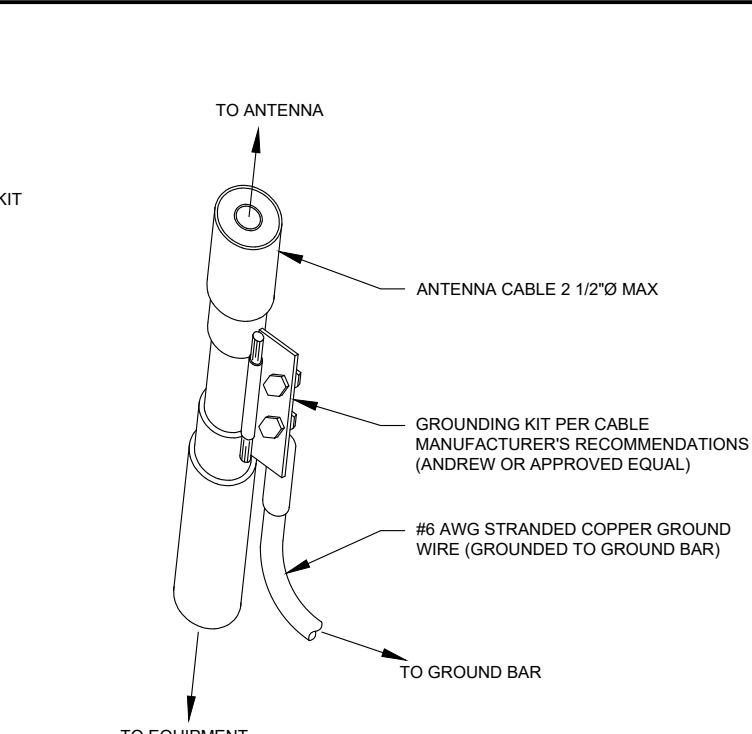
SHEET NUMBER:	REVISION:
C-501	2



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.

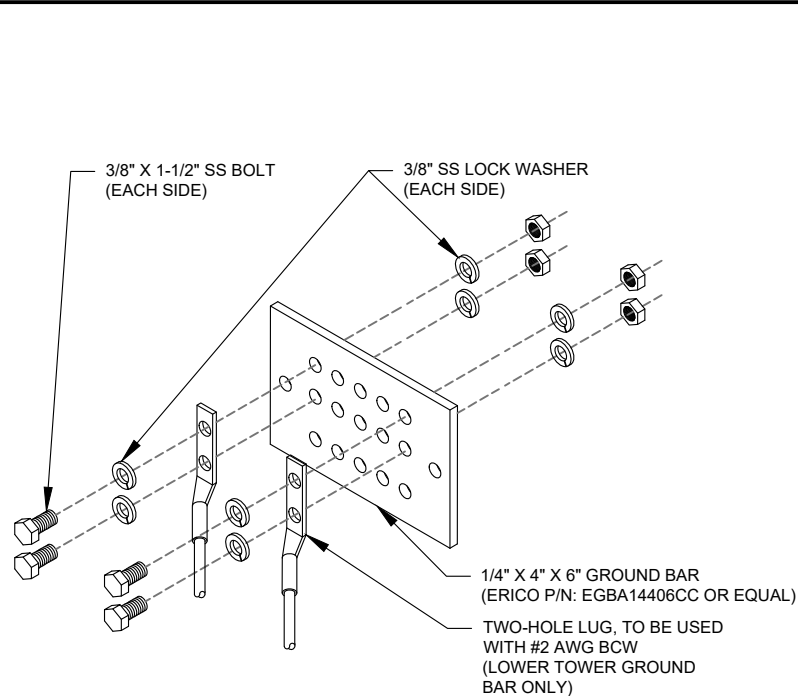
1 TYPICAL ANTENNA GROUNDING DIAGRAM
SCALE: N.T.S.



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.

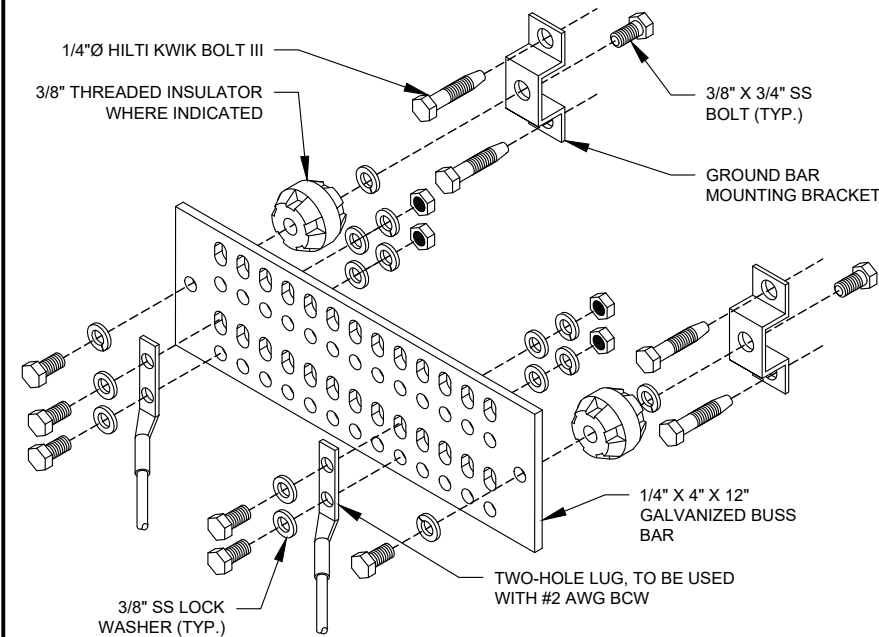
2 CABLE GROUND KIT CONNECTION DETAIL
SCALE: N.T.S.



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.

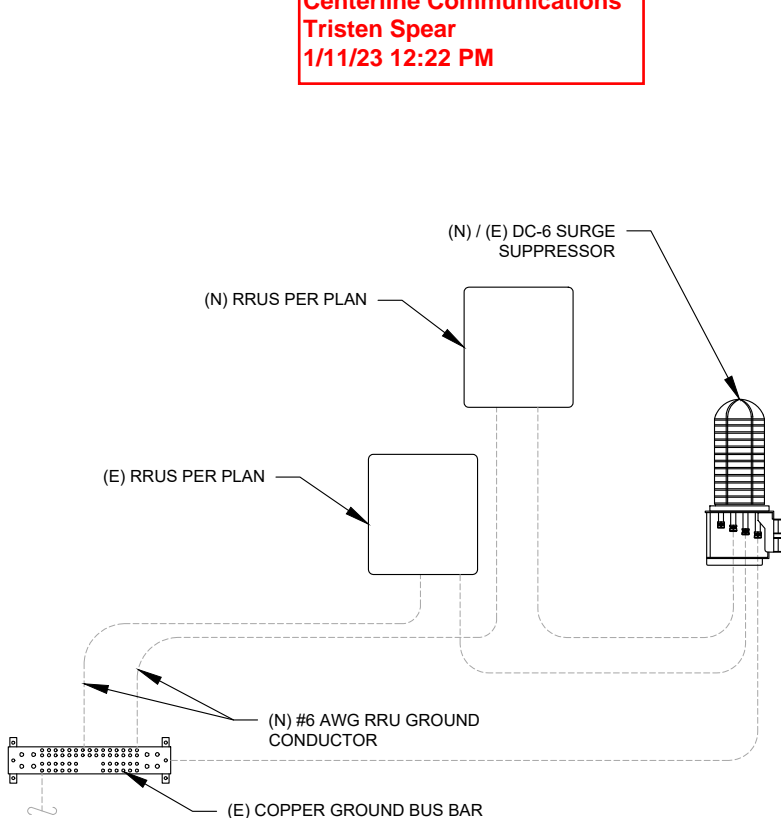
3 TOWER GROUND BAR DETAIL
SCALE: N.T.S.



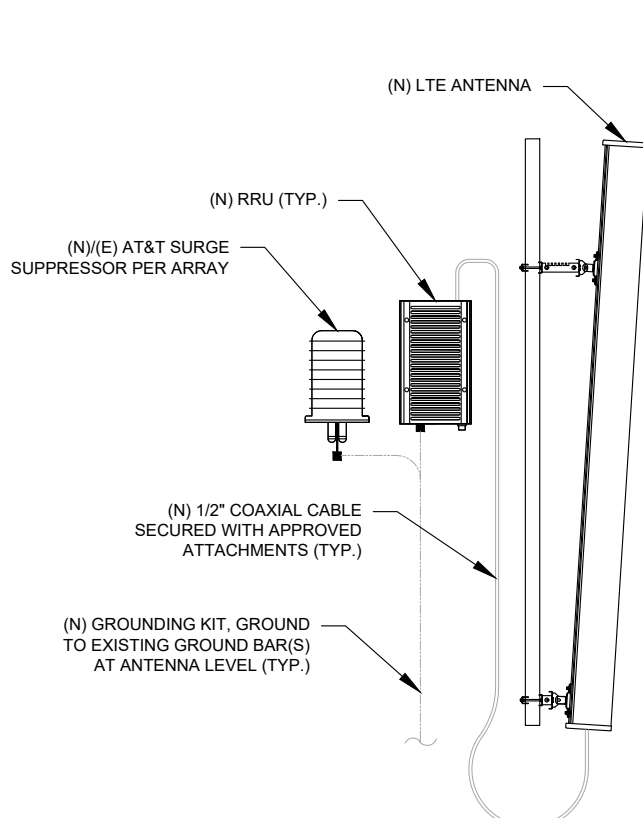
GROUND BAR NOTES

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: N.T.S.



5 RRU GROUNDING
SCALE: N.T.S.



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



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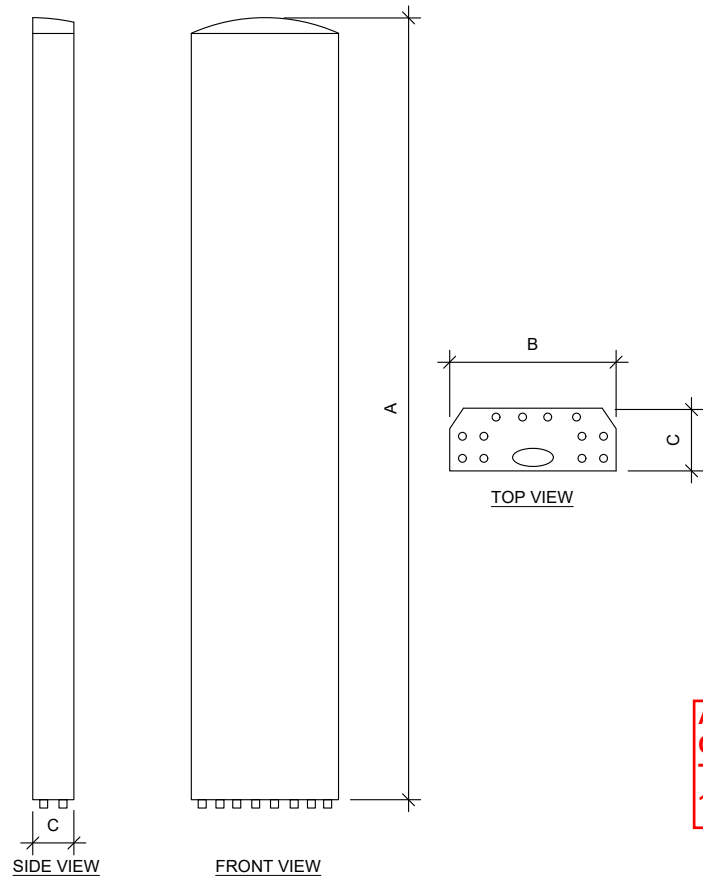
GROUNDING DETAILS

SHEET NUMBER:

E-501

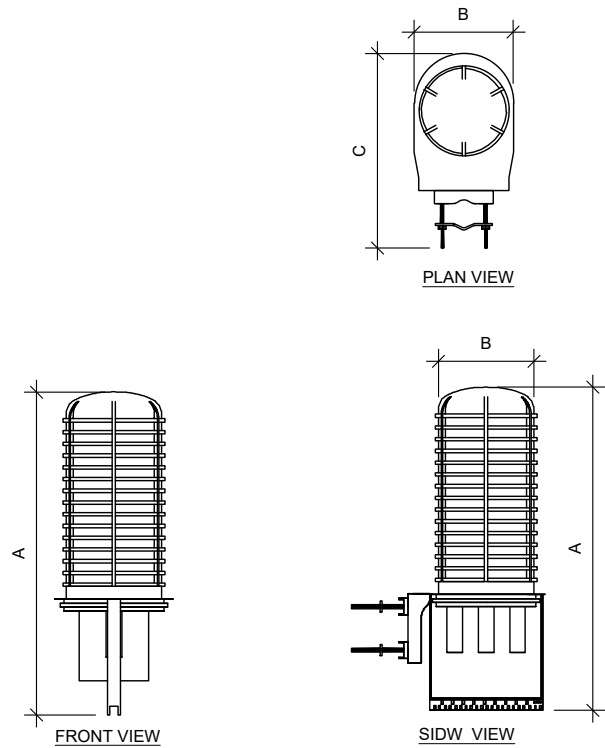
REVISION:

2



ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77G	28.3"	16.1"	7.9"	66.1
AIR 6449 B77D	30.4"	15.9"	8.1"	81.6
QD6616-1	72.0"	22.0"	9.6"	130.0

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RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC6-48-60-18-8F	23.5"	9.7"	9.7"	20.0



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SUPPLEMENTAL

SHEET NUMBER:
R-601

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: $> 4'$ between the center of the antenna backplanes.



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- ❑ 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° .



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



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SUPPLEMENTAL

SHEET NUMBER:
R-602



This report was prepared for American Tower Corporation by



Antenna Mount Analysis Report

ATC Site Name : Middletown CT 3
ATC Asset Number : 302537
Engineering Number : 13747862_C8_01
Mount Elevation : 172 ft
Carrier : AT&T Mobility
Carrier Site Name : MRCTB050837
Carrier Site Number : CTCN005121
Site Location : 47 Inwood Road
Rocky Hill, CT 06067-3453
41.63858611, -72.67928889
County : Hartford
Date : April 19, 2022
Max Usage : 92%
Result : Contingent Pass*
*See conclusion for requirements

Prepared By:
Gunjan Donode
Telamon Tower Engineering, PLLC

Reviewed By:
William Holt, P.E.
Telamon Tower Engineering, PLLC

Digitally signed by
William Holt
Date: 2022.04.20 13:13:36
-04'00'



Mount Analysis for American Tower
302537 - Middletown CT 3

April 19, 2022
Telamon Tower Engineering, PLLC Project #41124-13747862_C8_01-01-MA-R1

Conclusion

Based on the analysis, the antenna mount meets the requirements per the applicable codes listed above. The mounting configuration considered in this analysis will be capable of supporting the referenced loading pursuant to referenced standards once the following scope is executed:

AT&T CONMAT does not have parts which connect HSS tube to pipe. Hence proposing modifications parts which are not listed in the CONMAT list.

- Install (2) proposed 8 ft long pipe 2 STD, A53 Gr. B mount pipes at each sector for proposed RRU (6 total) as shown. Connect to existing HSS tube standoff arms using (3) Site Pro 1 BBPM-K3 (3 total).
- Install (2) proposed 10 ft long pipe 2 STD, A53 Gr. B secondary mount pipes at Position 1 and Position 3 at each sector for proposed panel configuration (6 total) as shown. Connect to existing primary mount pipes using (1) Site Pro 1 DCP12K kit (6 total).

No structural failures were addressed with the noted contingencies. Contingencies address Carrier's antenna spacing requirements.

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

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



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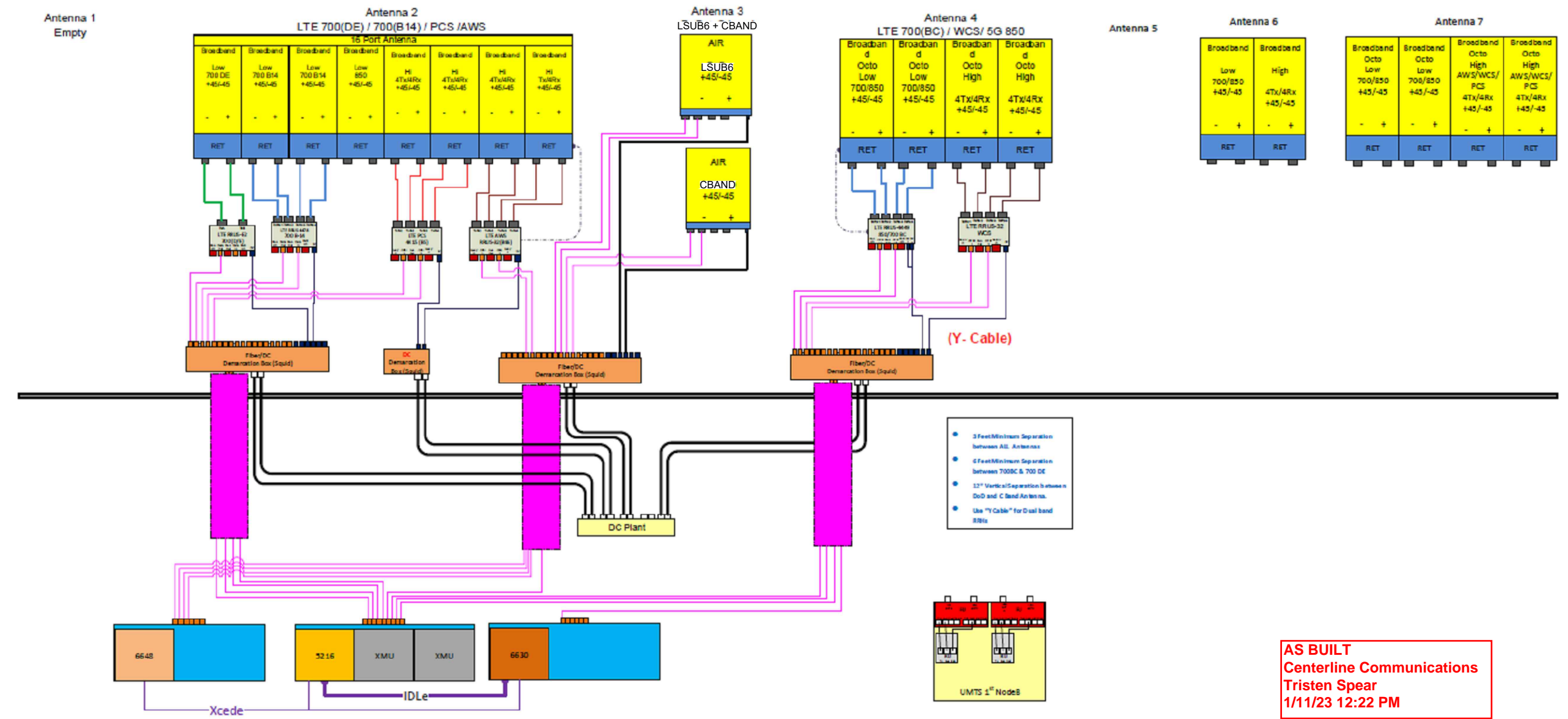
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SUPPLEMENTAL

SHEET NUMBER:
R-603



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SUPPLEMENTAL

SHEET NUMBER:

R-604

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