

**From:** Jill Stewart <jstewart@clinellc.com>

**Sent:** Friday, May 19, 2023 2:45 PM

**To:** CSC-DL Siting Council <Siting.Council@ct.gov>

**Cc:** Mike Anderson <manderson@clinellc.com>

**Subject:** CTL05004\_48 Ritch Ave West Greenwich CT. AT&T Telecom Modification completion

Good Afternoon,

This project is now complete. Attached is a copy of the FCCA from the Engineer. Also attached are photos of the Antenna modifications made to the site. Please let me know if you need anything further or if I should be sending other information.



**Jill Stewart** Closeout Coordinator

95 Ryan Drive, Suite 1

Raynham, MA 02767

Cell: 508-826-9295 | Fax: 617-249-0819

[jstewart@clinellc.com](mailto:jstewart@clinellc.com) | [www.centerlinecommunications.com](http://www.centerlinecommunications.com)

May 4, 2023

**VIA E-Mail**

Mr. Joshua Costa  
Centerline Communications

Re: ATC – 414240 – Byram Park CT – CTL05004 – Greenwich SW  
48 Ritch Avenue SW  
Greenwich, CT 06830  
Fairfield County  
Colliers Engineering & Design Project No. 23961021

Dear Mr. Costa,

For the above referenced site, AT&T has proposed installation of nine (9) new antennas, one (1) DC9 surge suppression unit and relocating fifteen (15) Remote radio units (RRUs) at a centerline height of 67'-0" AGL

Colliers Engineering & Design, CT, P.C. has based their review on the following document in completing this report:

- As-Built photographs provided by Centerline Communications, dated March 21, 2023.
- As-Built Construction Drawings provided by Centerline Communications, dated March 26, 2023.
- Construction Drawings prepared by Colliers Engineering & Design, CT, P.C, dated September 27, 2022.

Colliers Engineering & Design, CT, P.C. has been provided with As-Built photographs by Centerline Communications, dated March 21, 2023. The As-Built photographs, which are included, accurately depict the final installation of the AT&T equipment and antenna mounts. Colliers Engineering & Design, CT, P.C. found the following discrepancies:

1. RRUs were install on dual mounting brackets rather than stacking on the proposed equipment pipe.

Based upon the inspection of the As-Built photographs, it is the professional opinion of Colliers Engineering & Design, CT, P.C. that all work has been installed and is in compliance with codes and standards per the approved Construction Drawings and the discrepancies listed above are approved.



Engineering  
& Design

ATC – 414240 - Byram Park CT – CTL05004 – Greenwich SW

Colliers Engineering & Design Project No. 23961021

May 4, 2023

Page 2 of 5

This evaluation of the As-Built condition is based solely on the provided As-Built photographs. Any equipment that has been installed after the As-Built photographs were taken is not part of this evaluation. Further, any equipment that has been installed, but was not captured in the provided As-Built photographs, is not part of this evaluation. Colliers Engineering & Design, CT, P.C. reserves the right to amend this evaluation if more information is provided.

If you have any questions or comments, or require additional information, please do not hesitate to contact me.

Very truly yours,

COLLIERS ENGINEERING & DESIGN, CT, P.C.

A handwritten signature in black ink, appearing to read "Peter M. Albano", is written over a circular professional seal. The seal contains the text "STATE OF CONNECTICUT", "PETER M. ALBANO", "35459", and "PROFESSIONAL ENGINEER".

Peter Albano, P. E.  
Connecticut Professional Engineer

03/21/2023 18:25  
+41.004950,-73.648387  
42 Ritch Ave W  
Greenwich CT 06830  
United States





03/21/2023 11:04  
+41.005086,-73.648299  
52 Ritch Ave W  
Greenwich CT 06830  
United States

**EXIT**

**Did You Sign The Site Log Book?!?!**  
EVERYONE who walks through the door is required to sign the log.  
Entries need to include:  
Your full name, your company name, today's date & time, and a description of work performed while at the site.

**MC4000** Series  
Solid State Dual Unit Load/Lag Controller

**Operating Instructions**

**Alarms**

**Comfort Mode**

**Program Menu**

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Electrical outlet with two sockets.



03/21/2023 13:11  
+41.00500873.648211  
48 Rlich Ave W  
Greenwich CT 06830  
United States





03/21/2023 11:09  
+41.005098,-73.648202  
52 Ritch Ave W  
Greenwich CT 06830  
United States





03/21/2023 11:09  
+41.005098,-73.648202  
52 Ritch Ave W  
Greenwich CT 06830  
United States

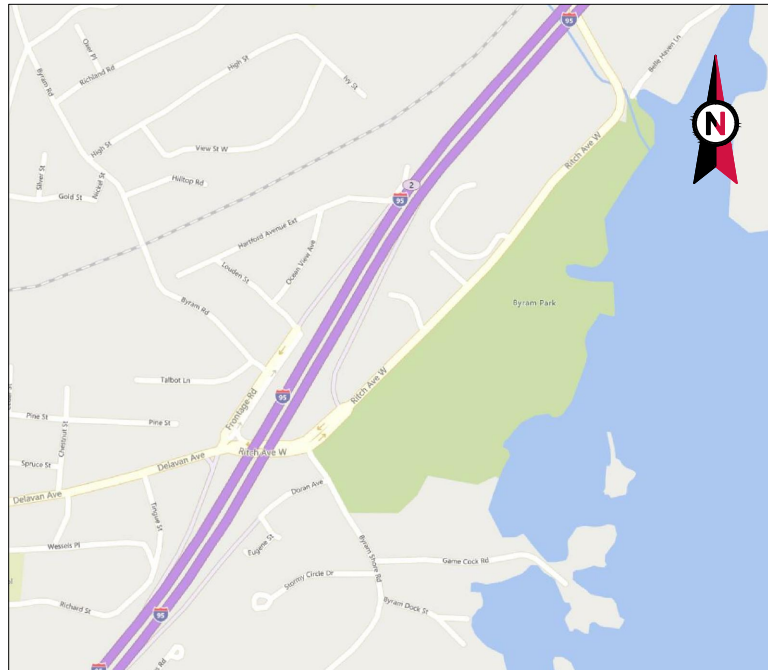




03/21/2023 13:29  
+41 005116 -73 648943  
52 Ritch Ave W  
Greenwich CT 06830  
United States







VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: BYRAM PARK CT  
 ATC SITE NUMBER: 414240  
 AT&T PACE NUMBERS: MRCTB053754 (5G NR SOFTWARE RADIO), MRCTB055124 (5G NR RADIO), MRCTB053744 (5G NR SOFTWARE RADIO), MRCTB055128 (5G NR RADIO), MRCTB055084 (CELL SITE RF MODIFICATIONS), MRCTB038187 (CRAN)

AT&T SITE ID: 24473  
 AT&T FA CODE: 10071045  
 AT&T SITE NAME: GREENWICH SW  
 SITE ADDRESS: 48 RITCH AVENUE WEST GREENWICH, CT 06830  
 AT&T AMENDMENT PLAN



LOCATION MAP

As-Builts  
 Centerline Communications  
 Jill Stewart  
 4/26/2023 1:52 PM

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. CT STATE BUILDING CODE, INCORPORATING THE 2018 INTERNATIONAL BUILDING CODE 2. 2017 NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 48 RITCH AVENUE WEST GREENWICH, CT 06830 COUNTY: FAIRFIELD  <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.00506654 LONGITUDE: -73.64830301 GROUND ELEVATION: 53' 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) SQUID(S), (6) TMA(S), (6) COAX CABLE(S), (1) FIBER TRUNK CABLE(S) AND (2) CONDUIT(S)  INSTALL (9) ANTENNA(S), (1) SQUID(S), (1) CONDUIT(S), (1) CONTROL CABLE(S), (1) FIBER TRUNK CABLE(S) AND (3) Y-CABLE(S)  EXISTING (3) ANTENNA(S), (15) RRH(S), (2) SQUID(S), (6) COAX CABLE(S), (6) 8AWG6 DC TRUNKS (2) FIBER TRUNKS AND (1) CONDUIT(S) TO REMAIN  <u>GROUND WORK:</u> INSTALL 6648 W/ XCEDE CABLE AND (2) RECTIFIERS	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:	
	<u>PROJECT TEAM</u>  <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801  <u>ENGINEER:</u> COLLIERS ENGINEERING & DESIGN CT, P.C. 1055 WASHINGTON BLVD STAMFORD, CT 06901  PROJECT #: 22904290  <u>PROPERTY OWNER:</u> 48 RITCH AVENUE WEST GREENWICH, CT 06830	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED. 6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. § 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION, REMOVAL, AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR § 1.61000 (B)(7).	G-001 TITLE SHEET G-002 GENERAL NOTES C-101 DETAILED SITE PLAN C-102 DETAILED SHELTER LAYOUT C-201 TOWER ELEVATION C-401 ANTENNA INSTALLATION C-402 RF SCHEDULE C-501 CONSTRUCTION DETAILS E-501 GROUNDING DETAILS R-601 SUPPLEMENTAL R-602 SUPPLEMENTAL R-603 SUPPLEMENTAL R-604 SUPPLEMENTAL					
	<u>PROJECT LOCATION DIRECTIONS</u> TAKE RITCH AVE W AND HAMILTON AVE TO GLEN ST IN GREENWICH, 4 MIN (1.6 MI), HEAD NORTHEAST ON I-95 N, 0.2 MI, TAKE EXIT 2 FOR BYRAM TOWARD DELAVAN AVE, 0.2 MI, CONTINUE ONTO DORAN AVE, 361 FT, TURN LEFT ONTO BYRAM SHORE RD, 167 FT, TURN RIGHT ONTO RITCH AVE W, 0.6 MI, CONTINUE ONTO HAMILTON AVE, 0.5 MI, TAKE RODWELL AVE TO HAMILTON AVE, 43 S (0.2 MI), TURN RIGHT ONTO GLEN ST, 351 FT, GLEN ST TURNS LEFT AND BECOMES RODWELL AVE, 476 FT, RODWELL AVE TURNS LEFT AND BECOMES STONE AVE, 358 FT, CONTINUE ON HAMILTON AVE, DRIVE TO RITCH AVE W, 3 MIN (1.1 MI), TURN LEFT ONTO HAMILTON AVE, 0.6 MI, CONTINUE ONTO RITCH AVE W, DESTINATION WILL BE ON THE RIGHT.							

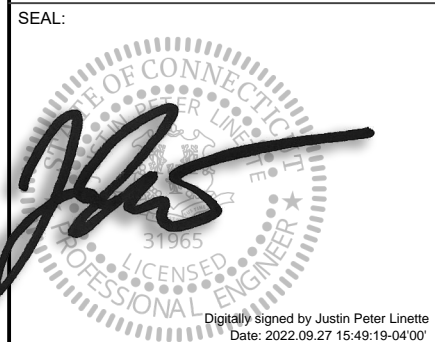


Colliers Engineering & Design

www.colliersengineering.com  
 Doing Business as MASER CONSULTING  
 STAMFORD  
 1055 Washington Boulevard  
 Stamford, CT 06901  
 Phone: 203.324.0800  
 COLLIERS ENGINEERING & DESIGN CT, P.C.  
 DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	04/26/22
0	FOR CONSTRUCTION	RMD	07/20/22
1	FOR CONSTRUCTION	AMN	09/08/22
2	FOR CONSTRUCTION	AMN	09/27/22

ATC SITE NUMBER:  
414240  
  
 ATC SITE NAME:  
BYRAM PARK CT  
  
 AT&T SITE NAME:  
GREENWICH SW  
  
 SITE ADDRESS:  
48 RITCH AVENUE WEST  
GREENWICH, CT 06830



DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

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 ANSII/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/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)

As-Builts  
Centerline Communications  
Jill Stewart  
4/26/2023 1:52 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.



**Colliers Engineering & Design**

www.colliersengineering.com

Doing Business as **MASER CONSULTING**

STAMFORD  
1055 Washington Boulevard

Stamford, CT 06901  
Phone: 203.324.0800  
COLLIERS ENGINEERING & DESIGN CT, P.C.  
DOING BUSINESS AS MASER CONSULTING

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	04/26/22
0	FOR CONSTRUCTION	RMD	07/20/22
1	FOR CONSTRUCTION	AMN	09/08/22
2	FOR CONSTRUCTION	AMN	09/27/22

ATC SITE NUMBER:  
**414240**

ATC SITE NAME:  
**BYRAM PARK CT**

AT&T SITE NAME:  
**GREENWICH SW**

SITE ADDRESS:  
48 RITCH AVENUE WEST  
GREENWICH, CT 06830

SEAL:

Digitally signed by Justin Peter Linette  
Date: 2022.09.27 15:49:25-04'00'



DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

GENERAL NOTES	
SHEET NUMBER: <b>G-002</b>	REVISION: <b>2</b>

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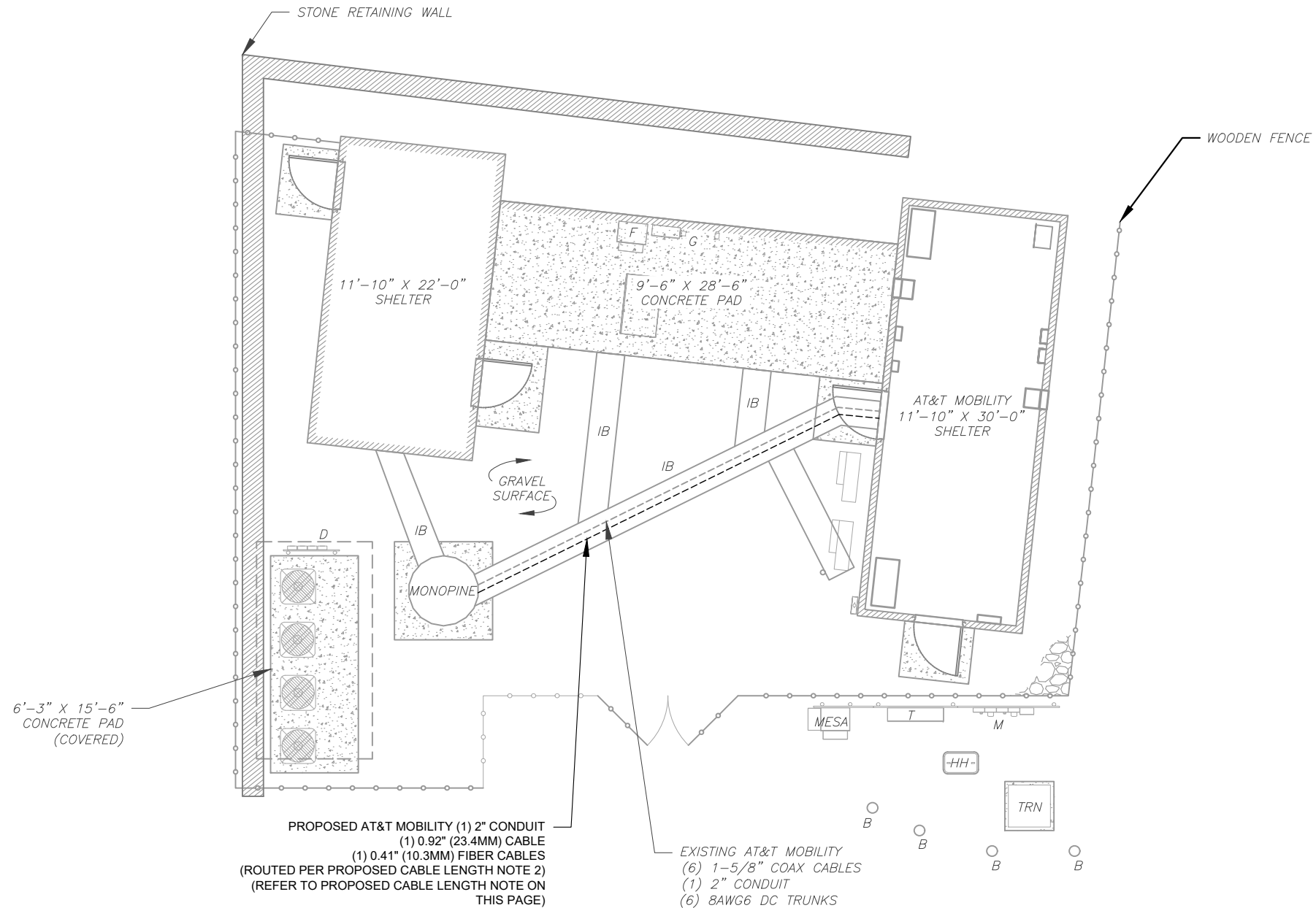


**SITE PLAN NOTES:**

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. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

As-Builts  
Centerline Communications  
Jill Stewart  
4/26/2023 1:52 PM

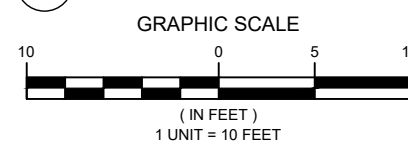
LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACLE
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
— x —	CHAINLINK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



**PROPOSED CABLE LENGTH:**

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **120'**. 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.

**1 DETAILED SITE PLAN**



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REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	04/26/22
0	FOR CONSTRUCTION	RMD	07/20/22
1	FOR CONSTRUCTION	AMN	09/08/22
2	FOR CONSTRUCTION	AMN	09/27/22

ATC SITE NUMBER:  
**414240**

ATC SITE NAME:  
**BYRAM PARK CT**

AT&T SITE NAME:  
**GREENWICH SW**

SITE ADDRESS:  
48 RITCH AVENUE WEST  
GREENWICH, CT 06830

SEAL:

Digitally signed by Justin Peter Linette  
Date: 2022.09.27 15:49:25-04'00'



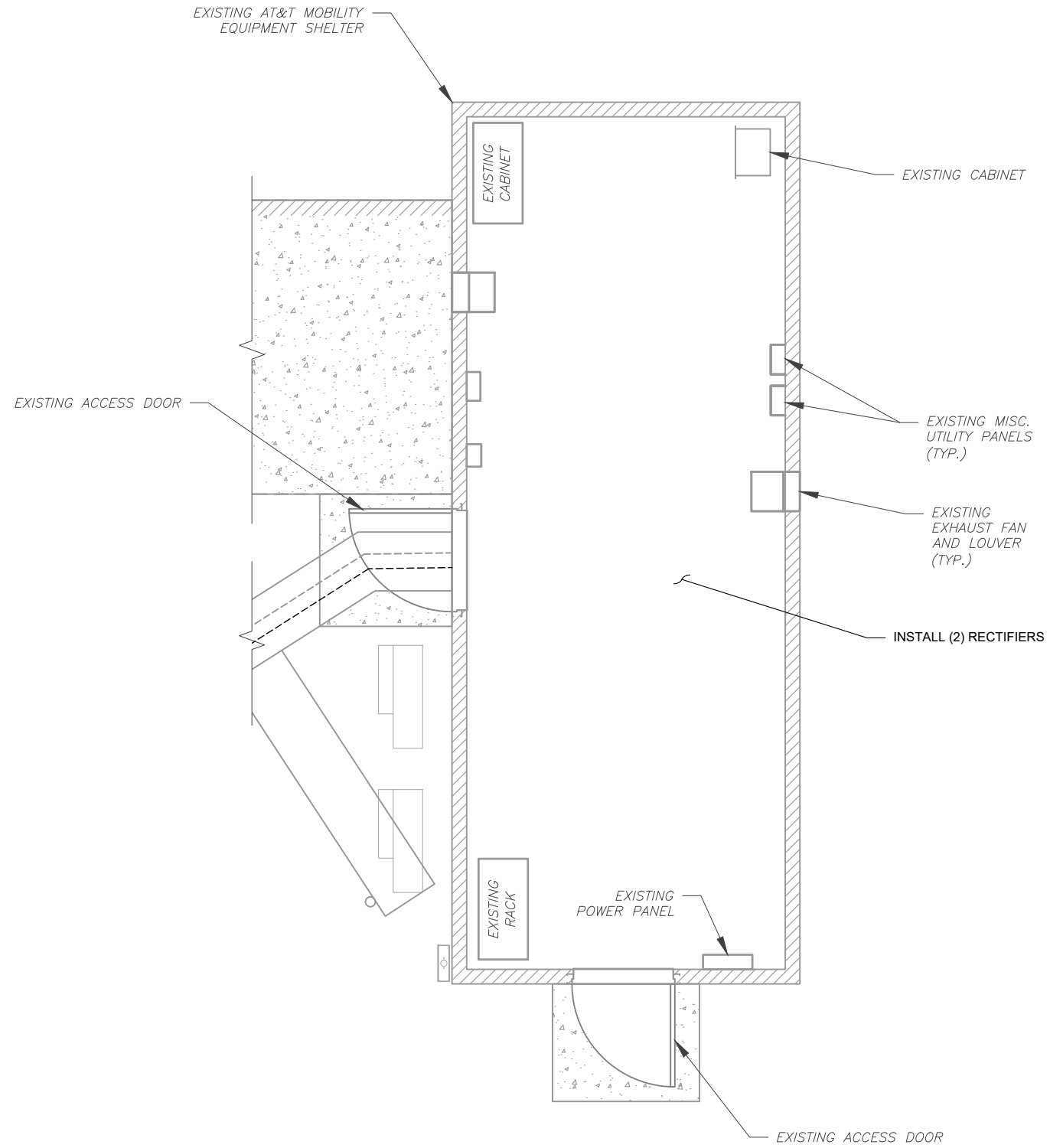
DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

<b>DETAILED SITE PLAN</b>	
SHEET NUMBER: <b>C-101</b>	REVISION: <b>2</b>

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1 DETAILED SHELTER LAYOUT

0 5' 10'

SCALE: 1"=5' (11X17)  
 1"=2.5' (22X34)



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SEAL:

Digitally signed by Justin Peter Linette  
 Date: 2022.09.27 15:49:25-04'00'



DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

DETAILED SHELTER LAYOUT

SHEET NUMBER: <b>C-102</b>	REVISION: <b>2</b>
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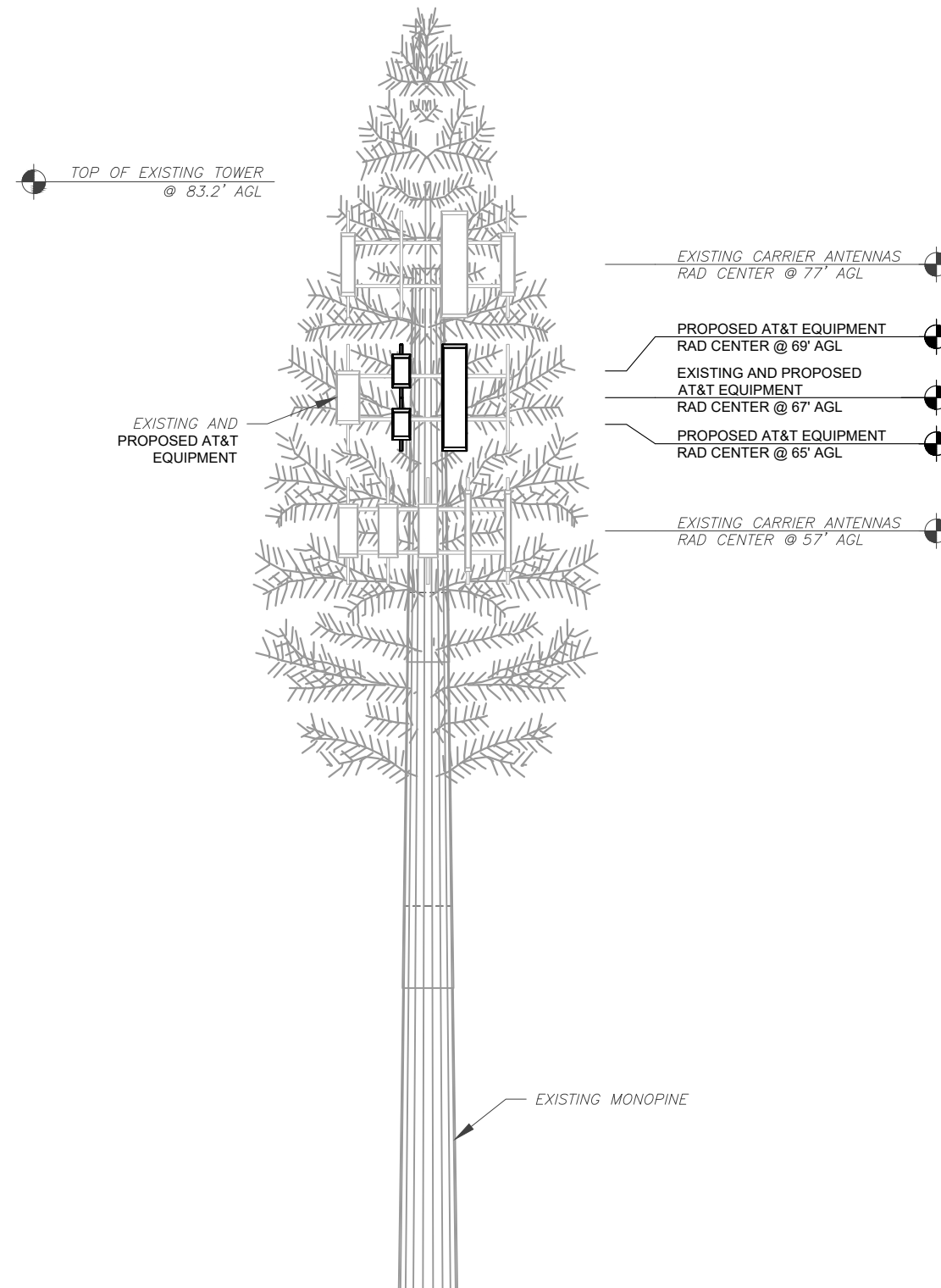
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PER MOUNT ANALYSIS COMPLETED BY TELAMON TOWER ENGINEERING PLLC, DATED 07/18/22, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

Install (1) 6ft. long Pipe 2 STD, A53 Gr. B, mount pipes at each stand-off tube (3 total). Connect to face stand-off members (1) Site Pro 1 SQCX4-K crossover plate kits or equal (3 total).



**MONOPINE ANTENNA NOTES:**

1. ANTENNAS SHALL BE MOUNTED WITHIN THE FOLIAGE OF THE MONOPINE AND ALL BRANCHES SHALL EXTEND BEYOND THE ANTENNA PANELS AND MOUNTING HARDWARE. ADD AND/OR REPLACE BRANCHES AS REQUIRED.
2. ANTENNAS SHALL BE PAINTED/SOCKED TO MATCH EXISTING.
3. ANTENNA MOUNTS SHALL BE PAINTED TO MATCH EXISTING.

**TOWER NOTE:**

1. 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.
2. 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.
3. 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.
4. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)
5. TOWER ELEVATION DEPICTION MAY NOT REFLECT ALL EQUIPMENT INCLUDED IN STRUCTURAL ANALYSIS. REFER TO STRUCTURAL ANALYSIS FOR FULL TOWER LOADING.

1 TOWER ELEVATION  
SCALE: N.T.S.



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ATC SITE NUMBER:  
414240

ATC SITE NAME:  
BYRAM PARK CT

AT&T SITE NAME:  
GREENWICH SW

SITE ADDRESS:  
48 RITCH AVENUE WEST  
GREENWICH, CT 06830

SEAL:



DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

TOWER ELEVATION

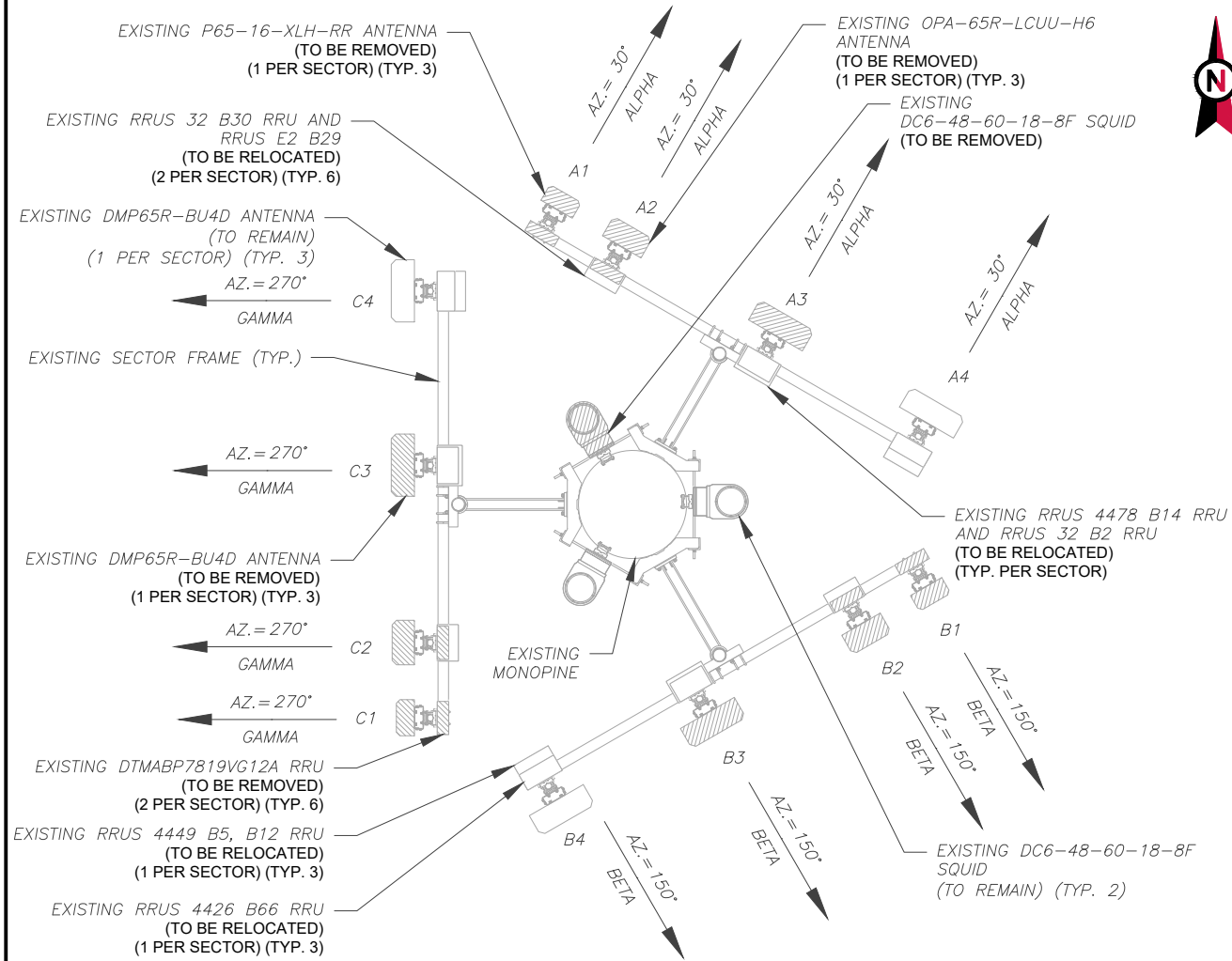
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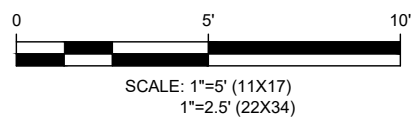
EXISTING CONFIGURATIONS ARE BASED ON RFDS. CONTRACTOR TO VERIFY EXISTING CONDITIONS.

MONOPINE BRANCHES NOT SHOWN FOR CLARITY.

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1 CURRENT ANTENNA PLAN  
SCALE: 1"=5'



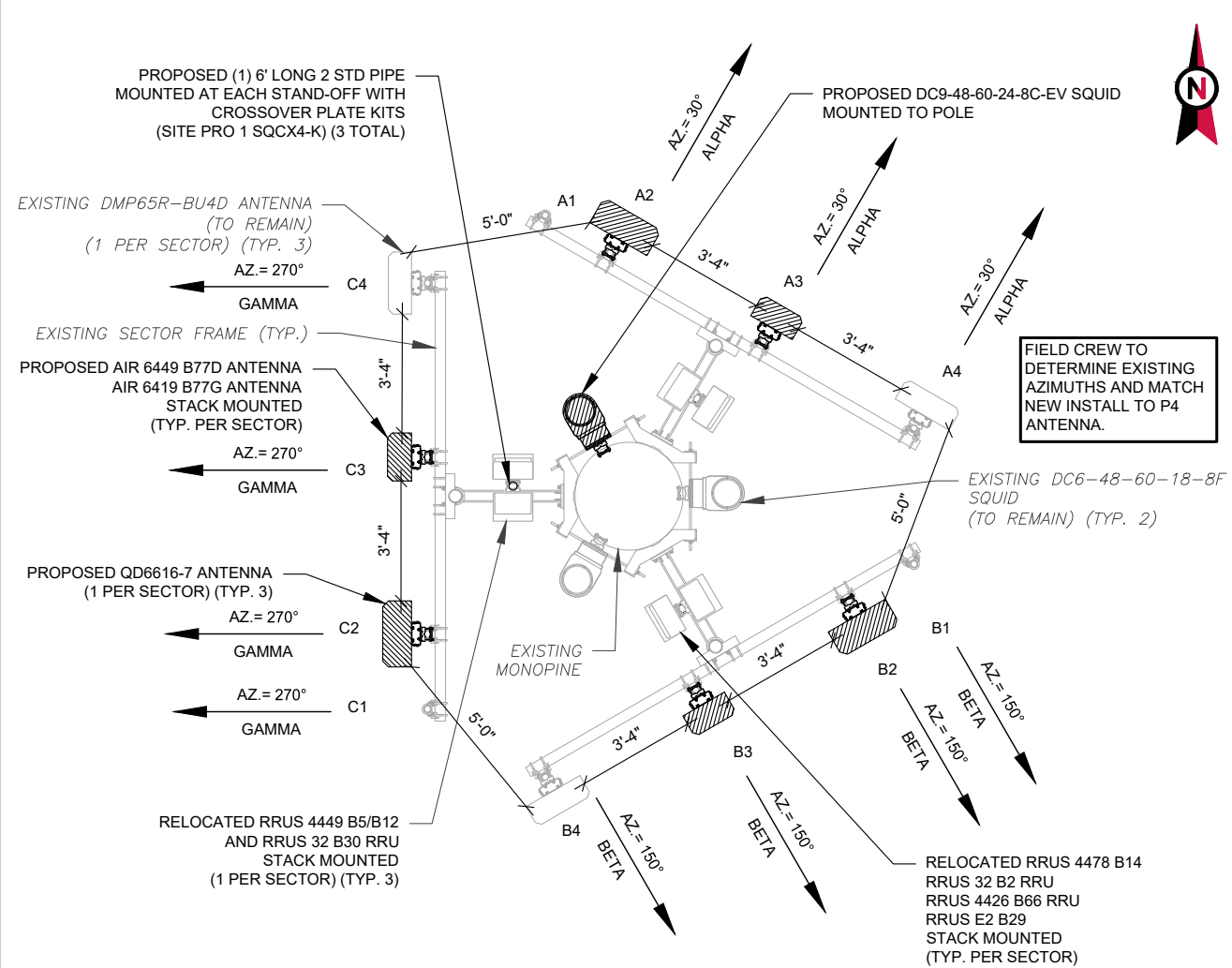
PER MOUNT ANALYSIS COMPLETED BY TELAMON TOWER ENGINEERING PLLC, DATED 07/18/22, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING.

Install (1) 6ft. long Pipe 2 STD, A53 Gr. B, mount pipes at each stand-off tube (3 total). Connect to face stand-off members (1) Site Pro 1 SQCX4-K crossover plate kits or equal (3 total).

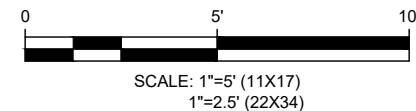
MONOPINE BRANCHES NOT SHOWN FOR CLARITY.

MONOPINE ANTENNA NOTES:

1. ANTENNAS SHALL BE MOUNTED WITHIN THE FOLIAGE OF THE MONOPINE AND ALL BRANCHES SHALL EXTEND BEYOND THE ANTENNA PANELS AND MOUNTING HARDWARE. ADD AND/OR REPLACE BRANCHES AS REQUIRED.
2. ANTENNAS SHALL BE PAINTED/SOCKED TO MATCH EXISTING.
3. ANTENNA MOUNTS SHALL BE PAINTED TO MATCH EXISTING.



2 FINAL ANTENNA PLAN  
SCALE: 1"=5'



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



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AT&T SITE NAME:  
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SITE ADDRESS:  
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GREENWICH, CT 06830

SEAL:



DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

ANTENNA INSTALLATION

SHEET NUMBER:  
**C-401**

REVISION:  
**2**



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EXISTING ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	67'	30°	A1	P65-16-XLH-RR	-	RMV	DTMABP7819VG12A	RMV
			A2	OPA-65R-LCUU-H6	LTE 700/WCS	RMV	DTMABP7819VG12A RRUS 32 B30 RRUS E2 B29	REL
			A3	DMP65R-BU4D	LTE 700/1900	RMV	RRUS 4478 B14 RRUS 32 B2	REL
			A4	DMP65R-BU4D	LTE 700/AWS/ 5G 850	RMN	RRUS 4449 B5/B12 RRUS 4426 B66	REL
BETA	67'	150°	B1	P65-16-XLH-RR	-	RMV	DTMABP7819VG12A	RMV
			B2	OPA-65R-LCUU-H6	LTE 700/WCS	RMV	DTMABP7819VG12A RRUS 32 B30 RRUS E2 B29	REL
			B3	DMP65R-BU4D	LTE 700/1900	RMV	RRUS 4478 B14 RRUS 32 B2	REL
			B4	DMP65R-BU4D	LTE 700/AWS/ 5G 850	RMN	RRUS 4449 B5/B12 RRUS 4426 B66	REL
GAMMA	67'	270°	C1	P65-16-XLH-RR	-	RMV	DTMABP7819VG12A	RMV
			C2	OPA-65R-LCUU-H6	LTE 700/WCS	RMV	DTMABP7819VG12A RRUS 32 B30 RRUS E2 B29	REL
			C3	DMP65R-BU4D	LTE 700/1900	RMV	RRUS 4478 B14 RRUS 32 B2	REL
			C4	DMP65R-BU4D	LTE 700/AWS/ 5G 850	RMN	RRUS 4449 B5/B12 RRUS 4426 B66	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)

FINAL ANTENNA SCHEDULE								
LOCATION			ANTENNA SUMMARY				NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	67'	30°	A1	-	-	-	-	-
			A2	QD6616-7	LTE 700/1900/AWS 5G 1900/AWS	ADD	RRUS 4478 B14 RRUS 32 B2 RRUS 4426 B66 RRUS E2 B29	REL
			A3	AIR 6419 B77G AIR 6449 B77D	5G CBAND/DOD	ADD ADD	-	-
			A4	DMP65R-BU4D	LTE 700/AWS/ 5G 850	RMN	RRUS 32 B30 RRUS 4449 B5/B12	REL
BETA	67'	150°	B1	-	-	-	-	-
			B2	QD6616-7	LTE 700/1900/AWS 5G 1900/AWS	ADD	RRUS 4478 B14 RRUS 32 B2 RRUS 4426 B66 RRUS E2 B29	REL
			B3	AIR 6419 B77G AIR 6449 B77D	5G CBAND/DOD	ADD ADD	-	-
			B4	DMP65R-BU4D	LTE 700/AWS/ 5G 850	RMN	RRUS 32 B30 RRUS 4449 B5/B12	REL
GAMMA	67'	270°	C1	-	-	-	-	-
			C2	QD6616-7	LTE 700/1900/AWS 5G 1900/AWS	ADD	RRUS 4478 B14 RRUS 32 B2 RRUS 4426 B66 RRUS E2 B29	REL
			C3	AIR 6419 B77G AIR 6449 B77D	5G CBAND/DOD	ADD ADD	-	-
			C4	DMP65R-BU4D	LTE 700/AWS/ 5G 850	RMN	RRUS 32 B30 RRUS 4449 B5/B12	REL

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

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

EXISTING FIBER DISTRIBUTION/SQUID		EXISTING CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-EF	RMN	(6) 1-5/8"	(6) 0.78" (19.7MM) 8 AWG 6	(2) 0.39"	RMN
(1) DC6-48-60-18-BF	RMV	(6) 1-5/8"	-	(1) 0.39" (10MM)	RMV

FINAL FIBER DISTRIBUTION/SQUID		FINAL CABLING SUMMARY			
MODEL NUMBER	STATUS	COAX	DC	FIBER	STATUS
(2) DC6-48-60-18-EF	RMN	(6) 1-5/8"	(6) 0.78" (19.7MM) 8 AWG 6	(2) 0.39"	RMN
(1) DC9-48-60-24-8C-EV	-	-	(1) 0.92" (23.4MM)	(1) 0.41" (10.3MM)	ADD

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AT&T SITE NAME:  
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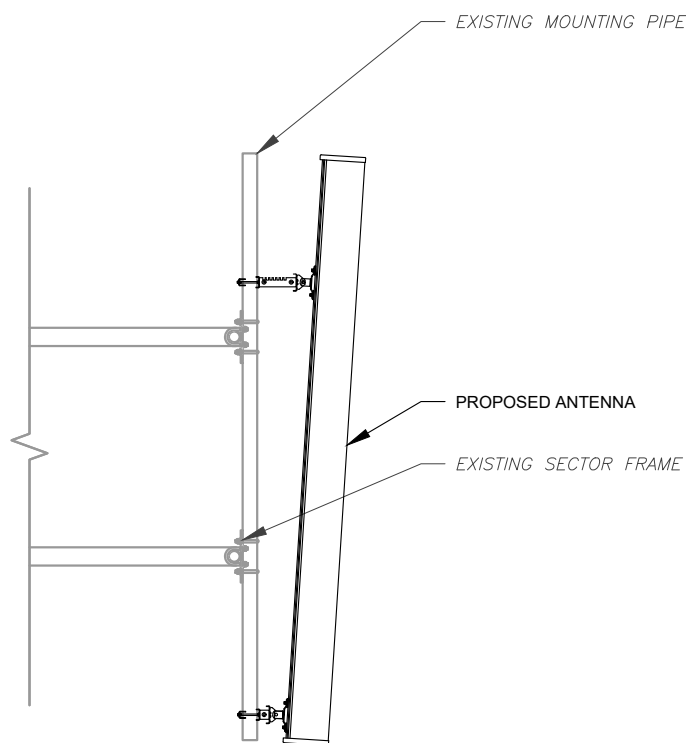


DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

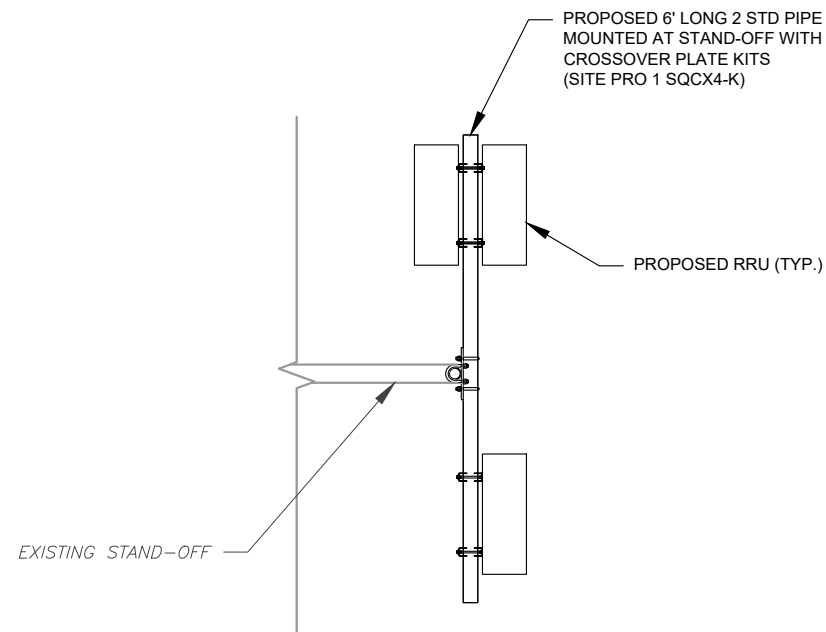
RF SCHEDULE

SHEET NUMBER:  
**C-402**  
REVISION:  
**2**

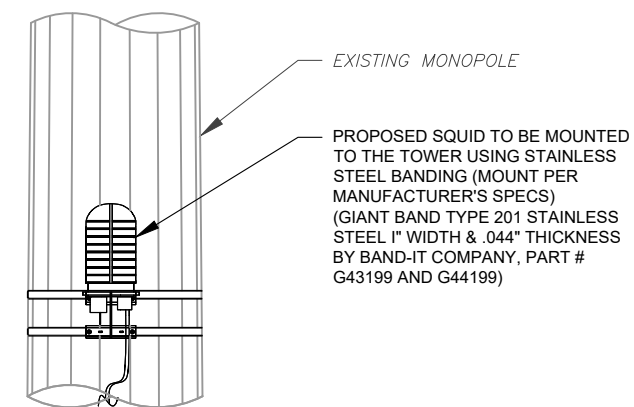




1 ANTENNA DETAIL  
SCALE: N.T.S.

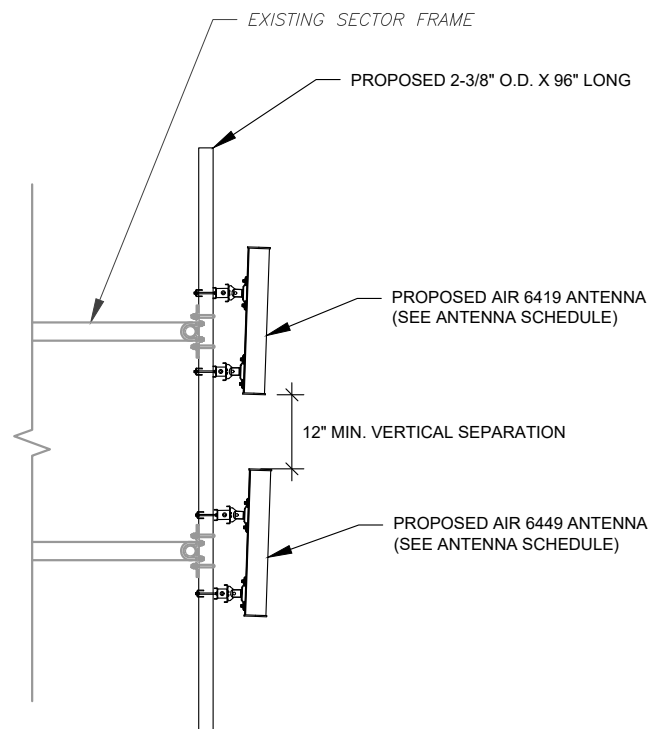


2 PROPOSED RRU MOUNTING DETAIL - TYPICAL  
SCALE: N.T.S.



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

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



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Stamford, CT 06901  
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414240

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BYRAM PARK CT

AT&T SITE NAME:  
GREENWICH SW

SITE ADDRESS:  
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GREENWICH, CT 06830

SEAL:



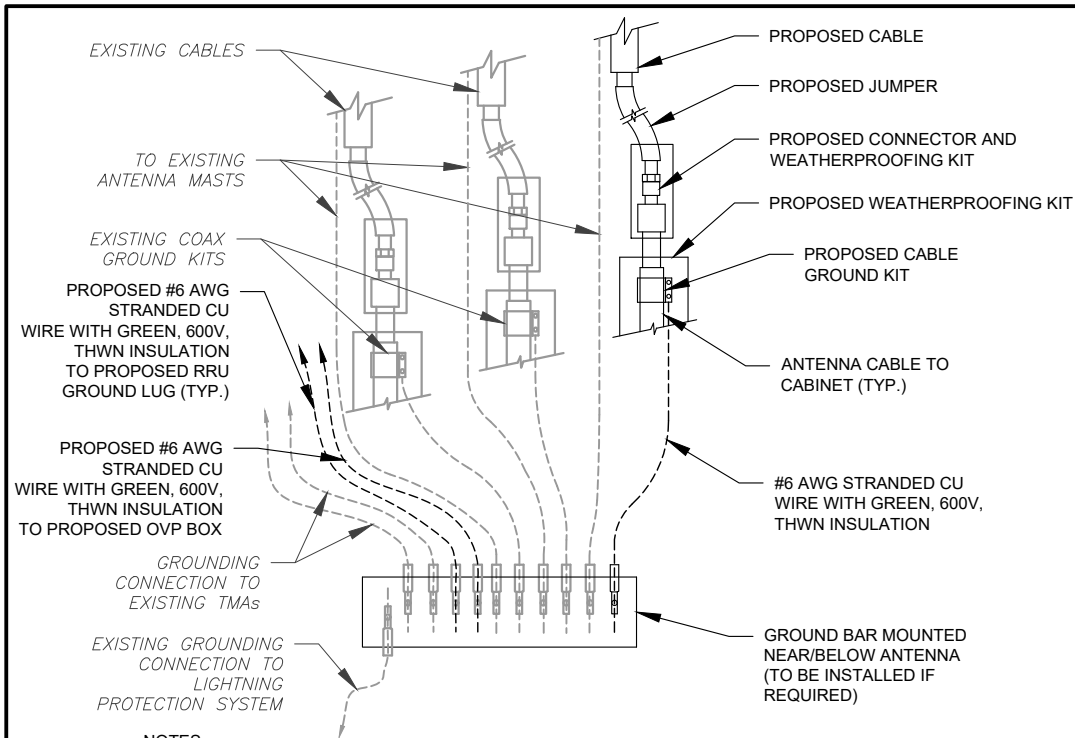
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ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

CONSTRUCTION  
DETAILS

SHEET NUMBER:  
**C-501**

REVISION:  
**2**



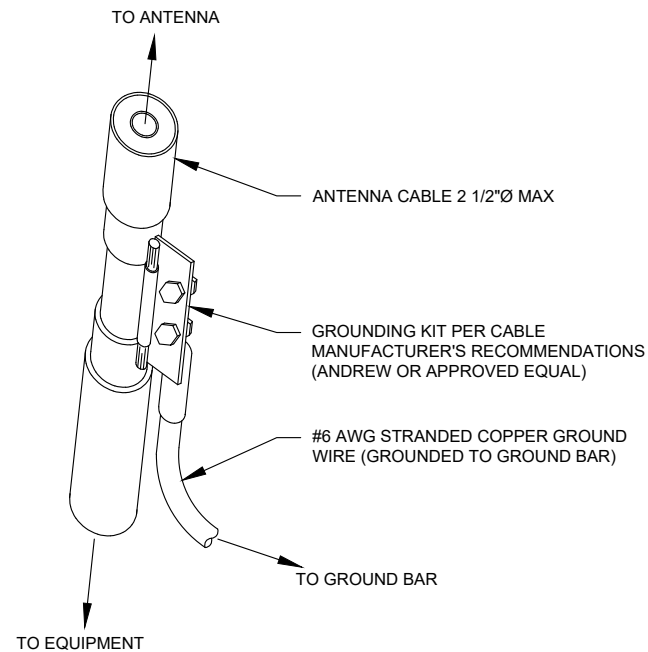


**NOTES:**

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.

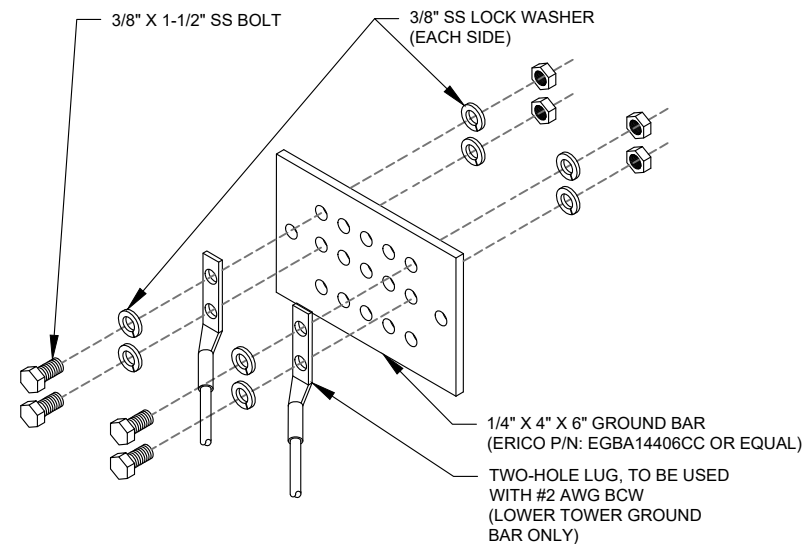


**GROUND KIT NOTES:**

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.

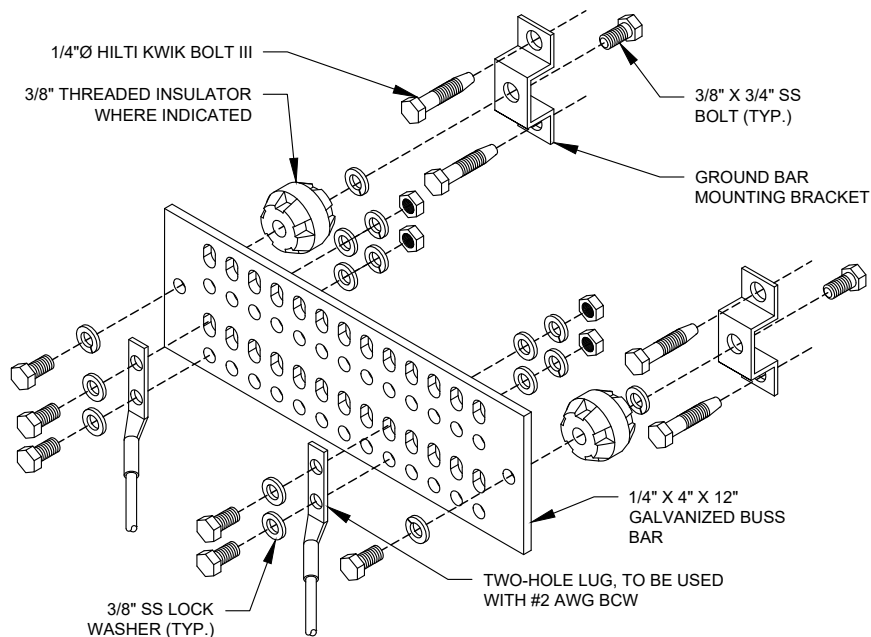


**GROUND BAR NOTES:**

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.

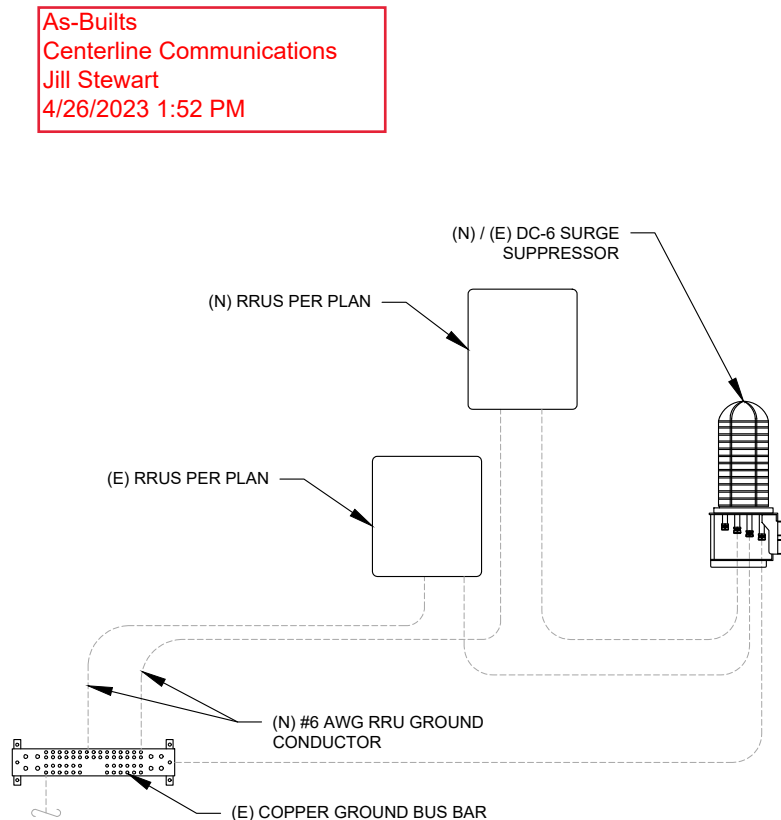


**GROUND BAR NOTES**

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.

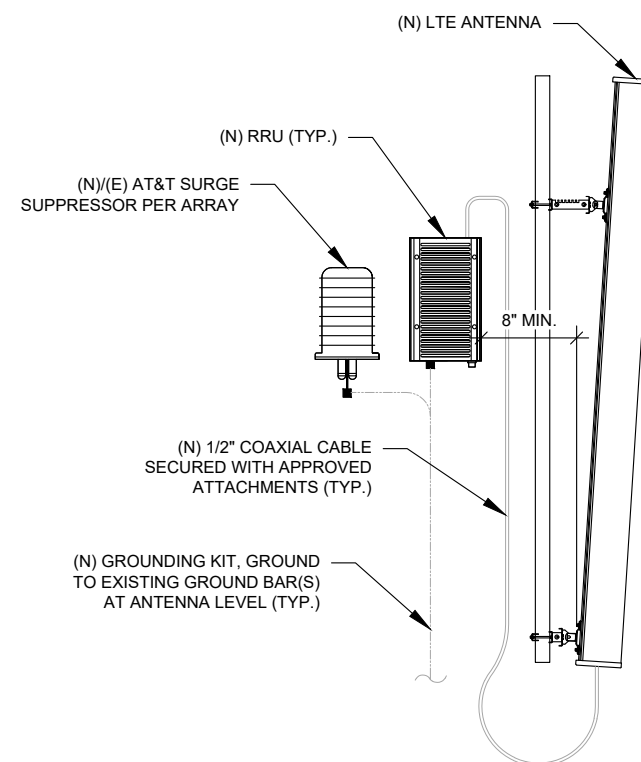
**4 MAIN GROUND BAR DETAIL**

SCALE: N.T.S.



**5 RRU GROUNDING**

SCALE: N.T.S.



**6 ANTENNA/RRU GROUNDING**

SCALE: N.T.S.

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Jill Stewart  
4/26/2023 1:52 PM



**Colliers Engineering & Design**

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1055 Washington Boulevard  
Stamford, CT 06901  
Phone: 203.324.0800  
COLLIERS ENGINEERING & DESIGN CT, P.C.  
DOING BUSINESS AS MASER CONSULTING

REV.	DESCRIPTION	BY	DATE
A	PRELIM	JLK	04/26/22
0	FOR CONSTRUCTION	RMD	07/20/22
1	FOR CONSTRUCTION	AMN	09/08/22
2	FOR CONSTRUCTION	AMN	09/27/22

ATC SITE NUMBER:  
**414240**

ATC SITE NAME:  
**BYRAM PARK CT**

AT&T SITE NAME:  
**GREENWICH SW**

SITE ADDRESS:  
48 RITCH AVENUE WEST  
GREENWICH, CT 06830

SEAL:



DATE DRAWN:	04/26/22
ATC JOB NO:	13755490_G5
CUSTOMER ID:	24473
CUSTOMER #:	10071045

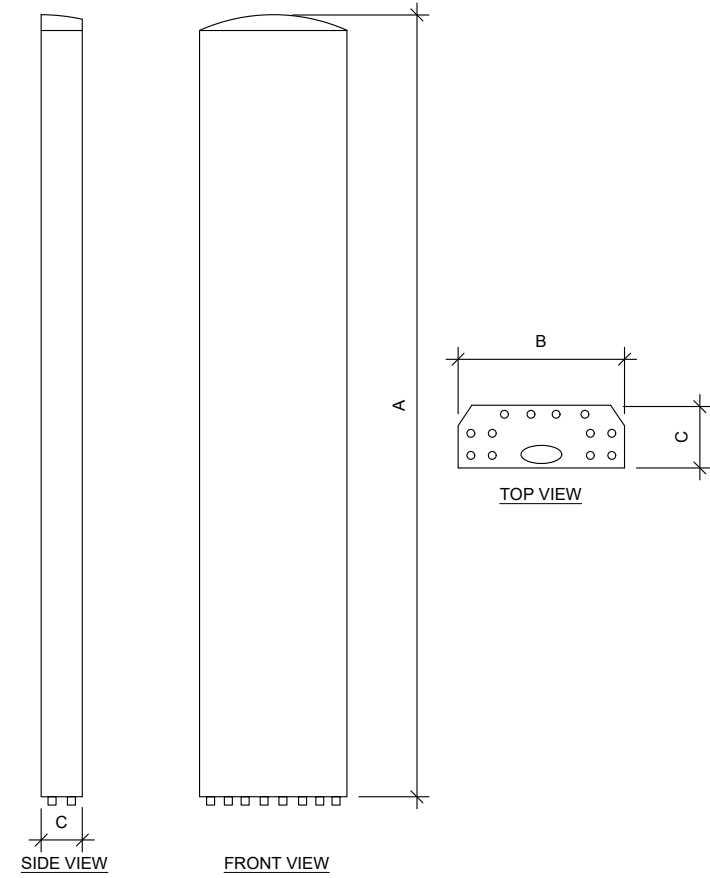
**GROUNDING DETAILS**

SHEET NUMBER: <b>E-501</b>	REVISION: <b>2</b>
-------------------------------	-----------------------

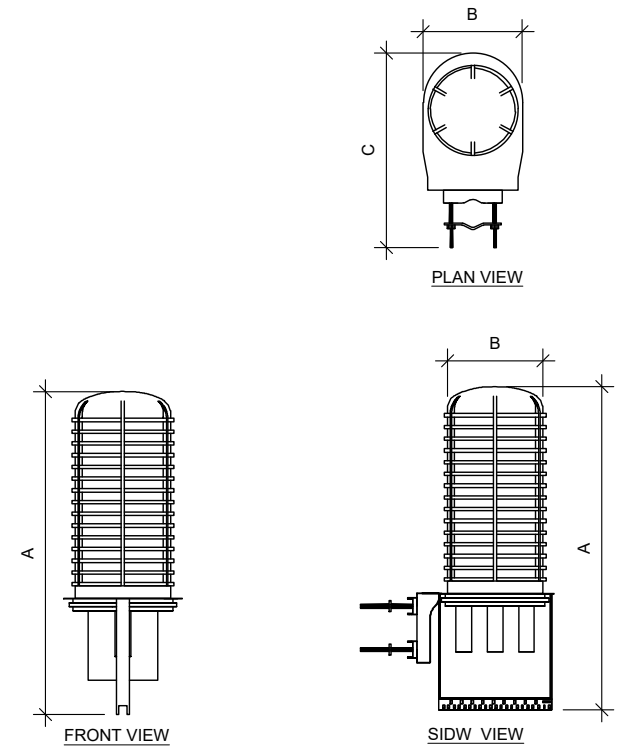
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 Centerline Communications  
 Jill Stewart  
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ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR 6419 B77G	28.3"	16.1"	7.9"	66.1
AIR 6449 B77D	30.4"	15.9"	8.1"	81.6
QD8616-7	96"	22"	9.6"	150.0



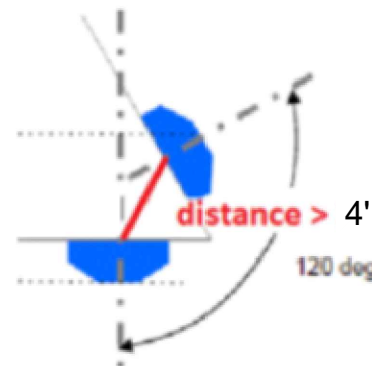
RAYCAP SPECIFICATIONS				
RAYCAP MODEL	A	B	C	WEIGHT (LBS)
DC9-48-60-24-8C-EV	31.4"	18.3"	10.2"	16.0

*Justin Peter Linette*  
 STATE OF CONNECTICUT  
 JUSTIN PETER LINETTE  
 31965  
 LICENSED PROFESSIONAL ENGINEER  
 Digitally signed by Justin Peter Linette  
 Date: 2022.09.27 15:49:26-04'00'



## 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.



- 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  $6^\circ$ .





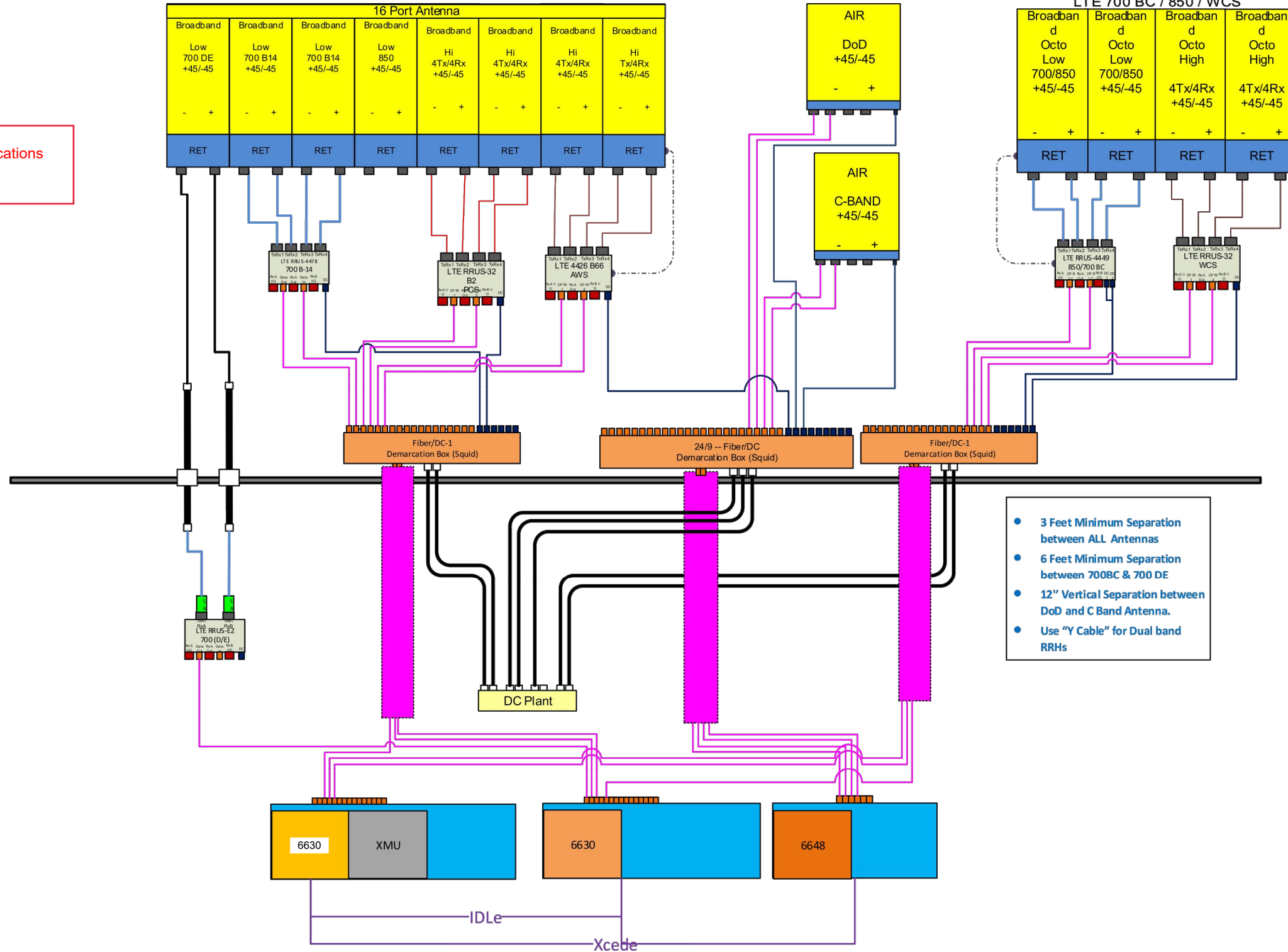
Antenna 1  
Empty

Antenna 2  
LTE 700 B14 / DE / PCS / AWS

Antenna 3  
DoD + C band

Antenna 4  
LTE 700 BC / 850 / WCS

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Centerline Communications  
Jill Stewart  
4/26/2023 1:52 PM



- 3 Feet Minimum Separation between ALL Antennas
- 6 Feet Minimum Separation between 700BC & 700 DE
- 12" Vertical Separation between DoD and C Band Antenna.
- Use "Y Cable" for Dual band RRHs

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. GENERAL CONTRACTOR IS TO CHECK WITH THE AT&T CM TO ENSURE THIS IS THE MOST RECENT VERSION OF THE RFDS.

SUPPLEMENTAL	
SHEET NUMBER: <b>R-603</b>	REVISION: -



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4/26/2023 1:52 PM



This report was prepared for American Tower Corporation by

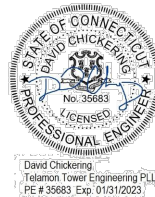


### Antenna Mount Analysis Report

ATC Site Name : Byram Park CT  
 ATC Asset Number : 414240  
 Engineering Number : 13755490\_C8\_05  
 Mount Elevation : 66 ft  
 Carrier : AT&T Mobility  
 Carrier Site Name : MRCTB055124  
 Carrier Site Number : N/A  
 Site Location : 48 Ritch Avenue West  
 Greenwich, CT 06830-9992  
 41.00506388, -73.64831111  
 County : Fairfield  
 Date : July 18, 2022  
 Max Usage : 92%  
 Result : Contingent Pass\*  
 \*See conclusion for requirements

Prepared By:  
Kowsalya V  
Telamon Tower Engineering, PLLC

Reviewed By:



Digitally signed by David W Chickering  
Date: 2022.07.18 15:05:46 -04'00'

Mount Analysis for American Tower July 18, 2022  
 414240 - Byram Park CT Telamon Tower Engineering, PLLC Project #41124-13755490\_C8\_05-01-MA

#### 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 mount pipe to HSS. Hence proposing modifications parts which are not listed in the CONMAT list.**

- Install (1) 6ft. long Pipe 2 STD, A53 Gr. B, mount pipes at each stand-off tube (3 total). Connect to face stand-off members (1) Site Pro 1 SQCX4-K crossover plate kits or equal (3 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.

Mount Analysis for American Tower July 18, 2022  
 414240 - Byram Park CT Telamon Tower Engineering, PLLC Project #41124-13755490\_C8\_05-01-MA

#### Antenna Loading

Elevation (ft)	Antennas		
Mount	Rad.	#	Name
69.0		3	Ericsson AIR 6449 B77D
		3	Quintel Technology QD6616-7
66.0	67.0	3	CCI DMP65R-BU4D
		1	Raycap DC9-48-60-24-8C-EV
		3	Ericsson RRUS 32 B2
		3	Ericsson RRUS 32 B30
		3	Ericsson RRUS E2 B29
		3	Ericsson RRUS 4449 B5/B12
		3	Ericsson RRUS 4478 B14
		3	Ericsson RRUS 4426 B66
		2	Raycap DC6-48-60-18-8F
		3	Ericsson AIR 6419 B77G
		65.0	3

#### Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Face Horizontals	92%	Pass
Stand-Off Horizontals	71%	Pass
Tower Mount Plate Connection	59%	Pass
Mount Pipes	50%	Pass

SUPPLEMENTAL

SHEET NUMBER:  
**R-604**

REVISION:  
-

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 CONSTRUCTION.





**Photo - 1: Installation of proposed antenna in Position 2**



**Photo - 2: Installation of proposed antennas in position 3**





**Photo - 3: Relocation of RRUs**

03/21/2023 12:12  
+41 005050,-73.648313  
52 Ritch Ave W  
Greenwich CT 06830  
United States

 **CAUTION**



AT&T operates antennas at this site.

**Beyond This Point** you are entering an area where radio frequency (RF) fields *may exceed* the FCC Occupational Exposure Limits.

Follow safety guidelines for working in an RF environment.

For more information, call AT&T at 800-638-2822, option 9 and 3, for working safety instructions prior to performing RF monitor if you are performing repairs beyond this point.

This is AT&T site 024473

Caution Sign #CA-2B-OTT-AL-128

This is .



03/21/2023 11:26  
+41 005072 73648270  
52 Ritch Ave W  
Greenwich CT 06830  
United States



Property of AT&T  
**Authorized  
Personnel Only**  
No Trespassing  
Violators will be Prosecuted  
In case of emergency, or prior to performing  
maintenance on this site, call 800-638-2622  
and reference call site number **CT 5594**  
**10071045** 

**INFORMATION**  
Federal Communications Commission  
Tower Registration Number  
**1282572**



03/21/2023 12:11  
+41.005061,-73.648468  
42 Pritch Ave W  
Greenwich CT 06830  
United States



**CAUTION**



**Beyond this point:  
Radio frequency fields at this site  
may exceed FCC rules for human  
exposure.**

**For your safety, obey all posted signs and  
site guidelines for working in radio  
frequency environments.**

In accordance with Federal Communications Commission rules on radio  
frequency emissions 47 CFR 1.1307(b)



03/21/2023 12:12  
+41.005061,-73.648468  
42 Pitch Ave W  
Greenwich CT 06830  
United States

FCC TOWER REGISTRATION #

Not Required

POSTING OF THIS SIGN REQUIRED BY LAW



03/21/2023 12:12  
+41.005061,-73.648468  
42 Ritch Ave W  
Greenwich CT 06830  
United States

ISTRATION #

quired

QUIRED BY LAW

 **NOTICE**   
**GUIDELINES FOR WORKING IN  
RADIOFREQUENCY ENVIRONMENTS**

- ▲ All personnel should have electromagnetic energy (EME) awareness training.
- ▲ All personnel entering this site must be authorized.
- ▲ Obey all posted signs.
- ▲ Assume all antennas are active.
- ▲ Before working on antennas, notify owners and disable appropriate transmitters.
- ▲ Maintain minimum 3 feet clearance from all antennas.
- ▲ Do not stop in front of antennas.
- ▲ Use personal RF monitors while working near antennas.
- ▲ Never operate transmitters without shields during normal operation.
- ▲ Do not operate base station antennas in equipment room.



03/21/2023 12:12  
+41.005061,-73.648468  
42 Ritch Ave W  
Greenwich CT 06830  
United States

MANAGED BY



**AMERICAN TOWER™**  
CORPORATION

---

**SITE NAME:** Byram Park CT  
**SITE NUMBER:** 414240

---

FOR LEASING INFORMATION:

**877-282-7483**

**877-ATC-SITE**

FOR OPERATIONS & ACCESS:

**877-518-6937**

**877-51-TOWER**

**NO TRESPASSING**

[www.americantower.com](http://www.americantower.com)

ppropriate

operation.

3-20  
5-140  
6-120  
3-1-60

03/21/2023 12:12  
+41.005050,-73.648313  
52 Ritch Ave W  
Greenwich CT 06830  
United States

# NOTICE



**Radio frequency fields beyond  
this point may exceed FCC  
limits for the general public.**

**Site maintained in accordance with  
Federal Communications Commission  
rules on radio frequency emissions  
47 CFR 1.1307(b)**

**AUTHORIZED PERSONNEL ONLY  
NO TRESPASSING**



03/21/2023 12:12  
+41.005050,-73.648313  
52 Ritch Ave W  
Greenwich CT 06830  
United States



# CAUTION



**On this tower:**

**Radio frequency fields near some antennas may exceed the FCC Occupational rules for human exposure.**

**Personnel climbing this tower should be trained for working in radio frequency environments and use a personal RF monitor.**

**Contact ATC NOC at (877) 518-6937 Ext. #3 for further information**

FCC ASR No. \_\_\_\_\_

**Not Required**