



**SAI Group**  
12 Industrial Way  
Salem, NH 03079  
603-421-0470

May 26, 2023

Melanie A. Bachman  
Executive Director  
Connecticut Siting Council  
10 Franklin Square  
New Britain, CT 06051

**Notice of Exempt Modification – New Cingular Wireless PCS, LLC (AT&T) – CT2124**  
**39 West Street, Danbury, CT 06451**  
**N 41.392905**  
**W 73.454113**

Dear Ms. Bachman:

AT&T currently maintains nine antennas on the rooftop self-support tower located at 39 West Street, Danbury, CT (a/k/a 41 West Street per City of Danbury GIS). Three (3) antennas are at the 69' level, three (3) antennas at the 63' level and three (3) antennas at the 54' level of the tower. All antenna heights referenced herein are "Above Ground Level" or AGL. The tower is owned by Everest Infrastructure and the property is owned by SNET. AT&T now intends to replace six (6) antennas and add three (3) antennas. This modification may include B2, B5, B17, B14, B29, B30, B66 & n77 hardware that is 4G (LTE) and/or 5GNR capable through remote software configuration and either or both services may be turned on or off at various times. The two (2) existing shroud sections on the upper tower will be replaced by one uniform shroud concealing both upper clusters of antennas per the Tower Structural Report by TEP Northeast dated February 16, 2023.

**AT&T Planned Modifications:**

**Remove:**

- (3) Ericsson RRUS-11 B12
- (6) Diplexers
- (6) TMA
- (6) COAX

**Remove and Replace:**

- (3) ANDREW 7770 Antennas (REMOVE) - (3) Ericsson AIR 6419 B77G Antennas (REPLACE)
- (3) QUINTEL QS66512-2 Antennas (REMOVE) - (3) Ericsson AIR 6449 B77D Antennas (REPLACE)

**Install New:**

- (1) CCI DMP65R-BU4EA-K Antennas
- (3) Ericsson 4478 B14 RRU

**Existing to Remain:**

- (3) KATHREIN 800-10964 Antennas
- (3) Ericsson 8843 B2/B66A RRU
- (3) Ericsson 4449 B5/B12 RRU
- (3) Ericsson RRUS-32 B30
- (3) Raycap Surge Units
- (6) DC Lines
- (3) Fiber Lines

AT&T's use of this facility was first approved by the Connecticut Siting Council, Docket No. 75 on May 13, 1987 and the tower's current height was approved in Petition No.448 on April 12, 2000. This modification complies with the aforementioned approvals.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Mayor Dean Esposito and Sharon Calitro, Director of Planning & Zoning for the City of Danbury, as well as the property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the replacement antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, AT&T respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Please feel free to call me at (860) 670-9068 with any questions regarding this matter. Thank you for your consideration.

Sincerely,

*Mark Roberts*

Mark Roberts  
Consultant for SAI  
Mark.Roberts@QCDevelopment.net

Attachments

Cc: Mayor Dean Esposito – Elected Official  
Sharon Calitro - Director of Planning & Zoning  
SNET - Property Owner  
Everest Infrastructure – Tower Owner

# Exhibit A

## **Original Facility Approval**

DOCKET NO. 75

AN APPLICATION OF THE SOUTHERN NEW ENGLAND : CONNECTICUT SITING  
TELEPHONE COMPANY FOR A CERTIFICATE OF :  
ENVIRONMENTAL COMPATIBILITY AND PUBLIC : COUNCIL  
NEED FOR CELLULAR TELEPHONE FACILITIES :  
IN THE CITY OF DANBURY AND EITHER THE TOWN OF :  
BROOKFIELD OR TOWN OF NEWTOWN, CONNECTICUT. : MAY 13, 1987

D E C I S I O N A N D O R D E R

Pursuant to the foregoing opinion, the Connecticut Siting Council (Council) hereby directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to Southern New England Telephone Cellular, Inc., (SNET) for the construction, operation, and maintenance of cellular mobile telephone facilities in the City of Danbury and Town of Newtown, Connecticut. The proposed Brookfield site is rejected.

The facilities shall be constructed, operated, and maintained as specified in the Council's record on this matter, and subject to the following conditions.

1. The Danbury tower, including antennas, shall be no taller than necessary to provide the proposed service, and in no event shall exceed 37 feet.
2. Unless necessary to comply with condition number three, below, no lights shall be installed on these towers.

3. The facilities shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.

4. The Newtown tower, including antennas, shall be no taller than necessary to provide the proposed service, and in no event shall exceed 167 feet.

5. The certificate holder shall prepare a development and management (D&M) plan for the Newtown site in compliance with sections 16-50j-75 through 16-50j-77 of the Regulations of State Agencies. The D&M plan shall provide for evergreen screening around the outside perimeter of the eight-foot chain link fence which will surround this site.

6. No construction activities shall take place outside the hours of 7:00 A.M. to 7:00 P.M., Monday through Saturday.

7. The certificate holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application is added to these facilities.

8. The certificate holder or its successor shall permit public or private entities to share space on the Newtown tower, for due consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

9. If these facilities do not provide or permanently cease to provide cellular service following the completion of construction, this Decision and Order shall be void, and the tower and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision.

11. The certificate holder shall comply with any future radio frequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the Certificate holder shall bring the facilities granted approval in this Decision into compliance with such standards.

Pursuant to CGS section 16-50p, we hereby direct that a copy of the Decision and Order be served on each person listed below. A notice of the issuance shall be published in the Danbury News-Times, the Brookfield Journal, and the Newtown Bee.

The parties to the proceeding are:

SNET Cellular, Inc.  
c/o Peter J. Tyrrell  
Senior Attorney  
Room 1021  
227 Church Street  
New Haven, Connecticut 06506

(Applicant)

Town of Newtown  
Planning and Zoning Commission

represented by:  
Theodore G. Whippie, Chairman  
Chairman  
Planning and Zoning  
Commission  
Edmond Town Hall  
45 Main Street  
Newtown, Connecticut 06470

Metro Mobile CTS of Fairfield  
County  
(INTERVENOR)

represented by:  
Howard L. Slater  
Jennifer Young Gaudet  
Byrne, Slater, Sandler,  
Shulman & Rouse, P.C.  
330 Main Street  
P.O. Box 3216  
Hartford, Connecticut 06103  
its attorneys

Fergus W. O'Donnell  
28 Whisconier Road  
Brookfield, Center, Connecticut 06805

ET0136



C E R T I F I C A T I O N

The undersigned members of the Connecticut Siting Council hereby certify that they have heard this case or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut, this 13th day of May 1987.

<u>Council Members</u>	<u>Vote Cast</u>
<u><i>Gloria Dibble Pond</i></u> ) Gloria Dibble Pond Chairperson	Yes
_____) Commissioner John Downey Designee: Commissioner Peter G. Boucher	Absent
<u><i>Brian J. Emerick</i></u> ) Acting Commissioner John Anderson Designee: Brian Emerick	Yes
<u><i>Owen L. Clark</i></u> ) Owen L. Clark	Yes
<u><i>Fred J. Doocy</i></u> ) Fred J. Doocy	Yes
_____) Mortimer A. Gelston	Absent
<u><i>James G. Horsfall</i></u> ) James G. Horsfall	Yes
<u><i>William H. Smith</i></u> ) William Smith	Yes
_____) Colin C. Tait	Absent

Petition 448  
Springwich Cellular Limited Partnership (SCLP)  
Staff Report  
April 12, 2000

On March 24, 2000, Connecticut Siting Council (Council) member Gerald J. Heffernan and Council staff Paul M. Aresta met SNET representatives Paul C. Brann and George Pendleton for a field review of this petition. SCLP is petitioning the Council for a declaratory ruling that no amendment to a Certificate of Environmental Compatibility and Public Need issued on May 13, 1987 (Docket 75), would be required for modifications to an existing telecommunications facility located at 39 West Street, in Danbury.

The existing telecommunications facility consists of a 20-foot self-supporting lattice tower with six panel type antennas mounted to a five-foot high by 12-foot wide triangular platform. SCLP proposes to remove the six panel antennas and triangular platform and install a ten-foot, five-inch tall extension pipe, eight inches in diameter above the existing 20-foot self-supporting tower. SCLP would also install three, eight-foot tall antennas within an RF-transparent "barrel", 36 inches in diameter atop the proposed pipe extension. The proposed modification would result in a net increase in height of 13 feet for the tower with appurtenances; however, the width of the platform structure would be reduced from twelve feet to three feet. The radio equipment would continue to be housed in the basement of the building. SCLP is proposing this modification to eliminate signal interference caused by an office building recently constructed adjacent to the existing tower.

The proposed antennas would transmit at a height of 70 feet above ground level (63.44 feet above pedestrian) for a predicted maximum electromagnetic power density of 28.94 percent of the applicable ANSI standard for the general population. SCLP contends that a person inside the building would experience an emission level that is six times less due to the attenuation caused by the roofing material. SCLP further contends that the existing tower is structurally capable of supporting the proposed pipe extension and antennas; that the proposed modification would not present any environmental or safety concerns; and that the proposed antennas encased in the RF-transparent barrel would have less of a visual impact than the existing platform.

# Exhibit B

## Property Card

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2022.

# DANBURY • CT

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## ASSESSOR'S OFFICE

Information on the Property Records for the Municipality of Danbury was last updated on 5/23/2023.



### Parcel Information

Location:	41 WEST ST	Property Use:	Office	Primary Use:	Office Building
Unique ID:	I14045	Map Block Lot:	I14 45	Acres:	0.5000
490 Acres:	0.00	Zone:	CL10	Volume / Page:	0203/0005
Developers Map / Lot:		Census:	2101		

### Value Information

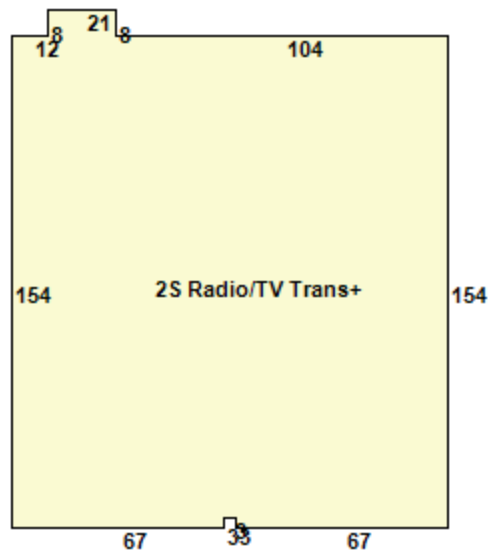
	Appraised Value	Assessed Value
Land	152,600	106,820
Buildings	3,818,000	2,672,600
Detached Outbuildings	9,000	6,300
Total	3,979,600	2,785,720

# Owner's Information

## Owner's Data

SOUTHERN NEW ENGLAND TELEPHONE CO  
FRONTIER COMMUNICATIONS  
C/O DUFF & PHELPS LLC  
P O BOX 2629  
ADDISON, TX 75001

## Building 1



Category:	Office	Use:	Office Building	GLA:	41,451
Stories:	2.00	Construction:	Reinforced Concrete	Year Built:	1942

Heating:	Steam	Fuel:	Oil	Cooling Percent:	100
Siding:	Brick/Masonry	Roof Material:	Tar and Gravel	Beds/Units:	0

### Special Features

Dry Sprinklers	1694
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### Attached Components

### Detached Outbuildings

Type:	Year Built:	Length:	Width:	Area:
Paving	1999	0.00	0.00	9,000

### Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
SOUTHERN NEW ENGLAND TELEPHONE CO	0203	0005	08/20/1938		\$0

### Building Permits

Permit Number	Permit Type	Date Opened	Reason
42199	Miscellaneous	09/28/2006	PERSONAL PROPERTY



# 39 WEST STREET

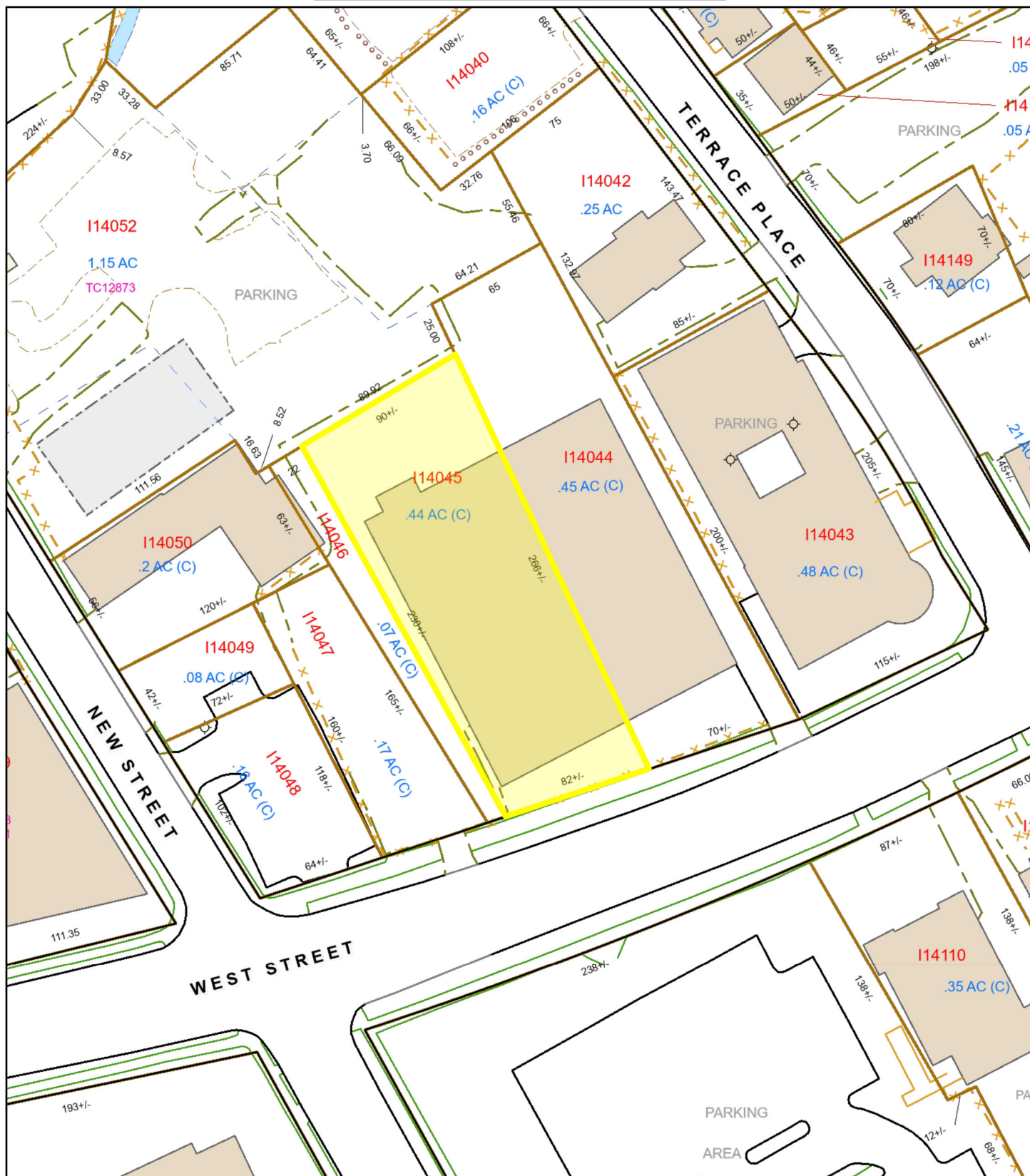
Danbury, CT

1 inch = 70 Feet



www.cai-tech.com

May 23, 2023



Data shown on this map is provided for planning and informational purposes only. The municipality and CAI Technologies are not responsible for any use for other purposes or misuse or misrepresentation of this map.

# Exhibit C

## **Construction Drawings**



**PROJECT INFORMATION**

SCOPE OF WORK: **ITEMS TO BE MOUNTED ON THE EXISTING ROOF TOP:**

- NEW AT&T ANTENNAS: AIR6419 B77G (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6449 B77 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: DMP65R-BU4EA-K (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS: 4478 B14 (700) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- ADD (6) Y-CABLES.
- NEW 54"Ø X 14'-0" LONG FRP SHROUD.
- NEW 30' JUMPERS TO POS. 2 ANTENNAS.

**ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:**

- ADD (1) 6648 + XCEDE CABLE.
- ADD (3) RECTIFIERS.
- ADD RBS 6630 FOR 5G.

**ITEMS TO BE REMOVED:**

- EXISTING AT&T ANTENNAS: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNAS: QS66512-2 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T DIPLEXERS: P 21901 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T TMA'S: LGP21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T (6) COAX LINES.

**ITEMS TO REMAIN:**

- (3) ANTENNAS, (9) RRU'S, (3) SURGE ARRESTOR, (6) DC POWER & (3) FIBER.

SITE ADDRESS: 39 WEST STREET  
DANBURY, CT 06810

LATITUDE: 41.392686° N, 41° 23' 33.67" N  
LONGITUDE: 73.454055° W, 73° 27' 14.60" W  
TYPE OF SITE: ROOF TOP / INDOOR EQUIPMENT

STRUCTURE HEIGHT: 72'-8"±

RAD CENTER: 69'-2"± LTE, 62'-10"± 3.45 GHz, 59'-2" C-BAND, 54'-6" LTE

CURRENT USE: TELECOMMUNICATIONS FACILITY  
PROPOSED USE: TELECOMMUNICATIONS FACILITY



**SITE NUMBER: CTL02124**

**SITE NAME: DANBURY CENTRAL SBC CO**

**FA CODE: 10034988**

**PACE ID: MRCTB054758, MRCTB055024, MRCTB054886.  
MRCTB060970, MRCTB060999**

**PROJECT: 5G NR 1SR C-BAND SITE OVERLAY LTE 6TH CARRIER  
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE**

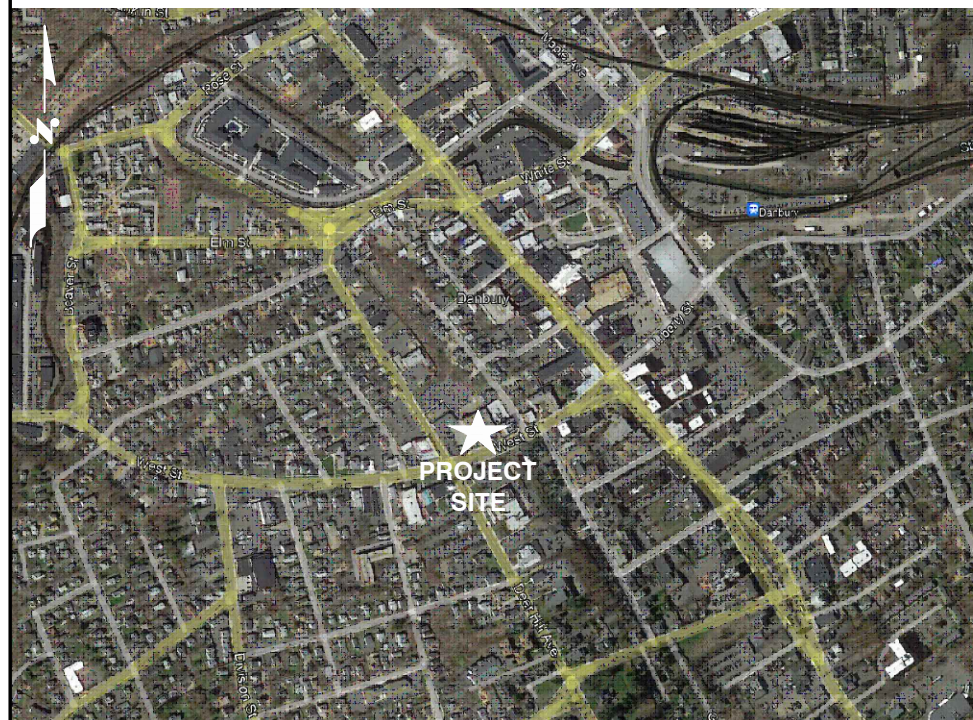
**DRAWING INDEX**

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	4
GN-1	GENERAL NOTES	4
A-1	ROOF & EQUIPMENT PLANS	4
A-2	ANTENNA LAYOUTS	4
A-3	ELEVATION	4
A-4	DETAILS	4
A-5	DETAILS	4
G-1	GROUNDING DETAILS	4
SN-1	STRUCTURAL NOTES	4
S-1	STRUCTURAL MODIFICATION DESIGN	4
RF-1	RF PLUMBING DIAGRAM	4

**VICINITY MAP**

**DIRECTIONS TO SITE:**

2124 - DANBURY CO. I-84 WEST TO EXIT 4. AT END OF RAMP TAKE A LEFT CONTINUE TOWARD DOWNTOW. GOING UNDER RAILROAD BRIDGE TO DANBURY CO., ON LEFT (WEST STREET). TOTAL DISTANCE FROM EXIT 4 IS 1.4 MILES. SITE IS IN THE BASEMENT. ENTER REAR OF BUILDING.



**GENERAL NOTES**

1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

**72 HOURS**



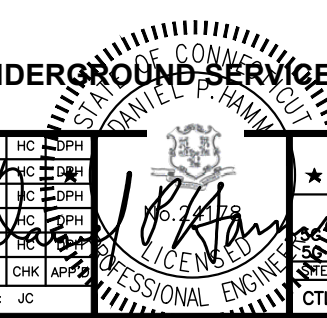
**CALL BEFORE YOU DIG**



CALL TOLL FREE 1-800-922-4455

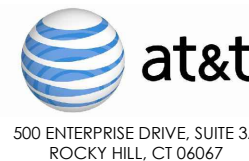
OR CALL 811

**UNDERGROUND SERVICE ALERT**



**SITE NUMBER: CTL02124  
SITE NAME: DANBURY CENTRAL SBC CO**

39 WEST STREET  
DANBURY, CT 06810  
FAIRFIELD COUNTY



500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
4	03/06/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
3	02/16/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
2	09/20/22	ISSUED FOR CONSTRUCTION	GA	HC	DPH
1	07/06/22	ISSUED FOR CONSTRUCTION	MR	HC	DPH
A	02/28/22	ISSUED FOR REVIEW	JC	HC	DPH

SCALE: AS SHOWN | DESIGNED BY: HC | DRAWN BY: JC

AT&T

TITLE SHEET  
5G NR 1SR C-BAND SITE OVERLAY LTE 6TH CARRIER  
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE  
SITE NUMBER: CTL02124  
DRAWING NUMBER: T-1  
REV: 4

**GROUNDING NOTES**

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81 STANDARDS) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 5 OHMS OR LESS.
4. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
5. EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, #6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS AND #2 AWG STRANDED COPPER FOR OUTDOOR BTS.
6. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
7. APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
8. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO GROUND BAR.
9. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
10. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
11. METAL CONDUIT SHALL BE MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH #6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.
12. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/2 IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50

**GENERAL NOTES**

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:  
 CONTRACTOR – SAI  
 SUBCONTRACTOR – GENERAL CONTRACTOR (CONSTRUCTION)  
 OWNER – AT&T MOBILITY
2. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
3. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
4. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
6. "KITTING LIST" SUPPLIED WITH THE BID PACKAGE IDENTIFIES ITEMS THAT WILL BE SUPPLIED BY CONTRACTOR. ITEMS NOT INCLUDED IN THE BILL OF MATERIALS AND KITTING LIST SHALL BE SUPPLIED BY THE SUBCONTRACTOR.
7. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
9. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND T1 CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
10. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
11. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.
12. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
13. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.

14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 ksi). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT DIPPED GALVANIZED. TOUCH UP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEEL IS ERECTED USING A COMPATIBLE ZINC RICH PAINT.
16. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND "GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T SITES."
17. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
18. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
19. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
20. **APPLICABLE BUILDING CODES:**  
 SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.

**BUILDING CODE: IBC 2021 WITH 2022 CT STATE BUILDING CODE AMENDMENTS  
 ELECTRICAL CODE: 2020 NATIONAL ELECTRICAL CODE (NFPA 70-2020)**

SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-H, STRUCTURAL STANDARDS FOR STEEL

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

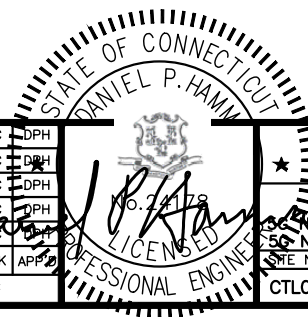


**SITE NUMBER: CTL02124  
 SITE NAME: DANBURY CENTRAL SBC CO**

39 WEST STREET  
 DANBURY, CT 06810  
 FAIRFIELD COUNTY



4	03/06/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
3	02/16/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
2	09/20/22	ISSUED FOR CONSTRUCTION	GA	HC	DPH
1	07/06/22	ISSUED FOR CONSTRUCTION	MR	HC	DPH
A	02/28/22	ISSUED FOR REVIEW	JC	HC	DPH
NO.	DATE	REVISIONS	BY	CHK	APP'D
SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: JC		



AT&T		
GENERAL NOTES		
5G NR 15R C-BAND_SITE OVERLAY LTE 6TH CARRIER		
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE		
SITE NUMBER	DRAWING NUMBER	REV
CTL02124	GN-1	4

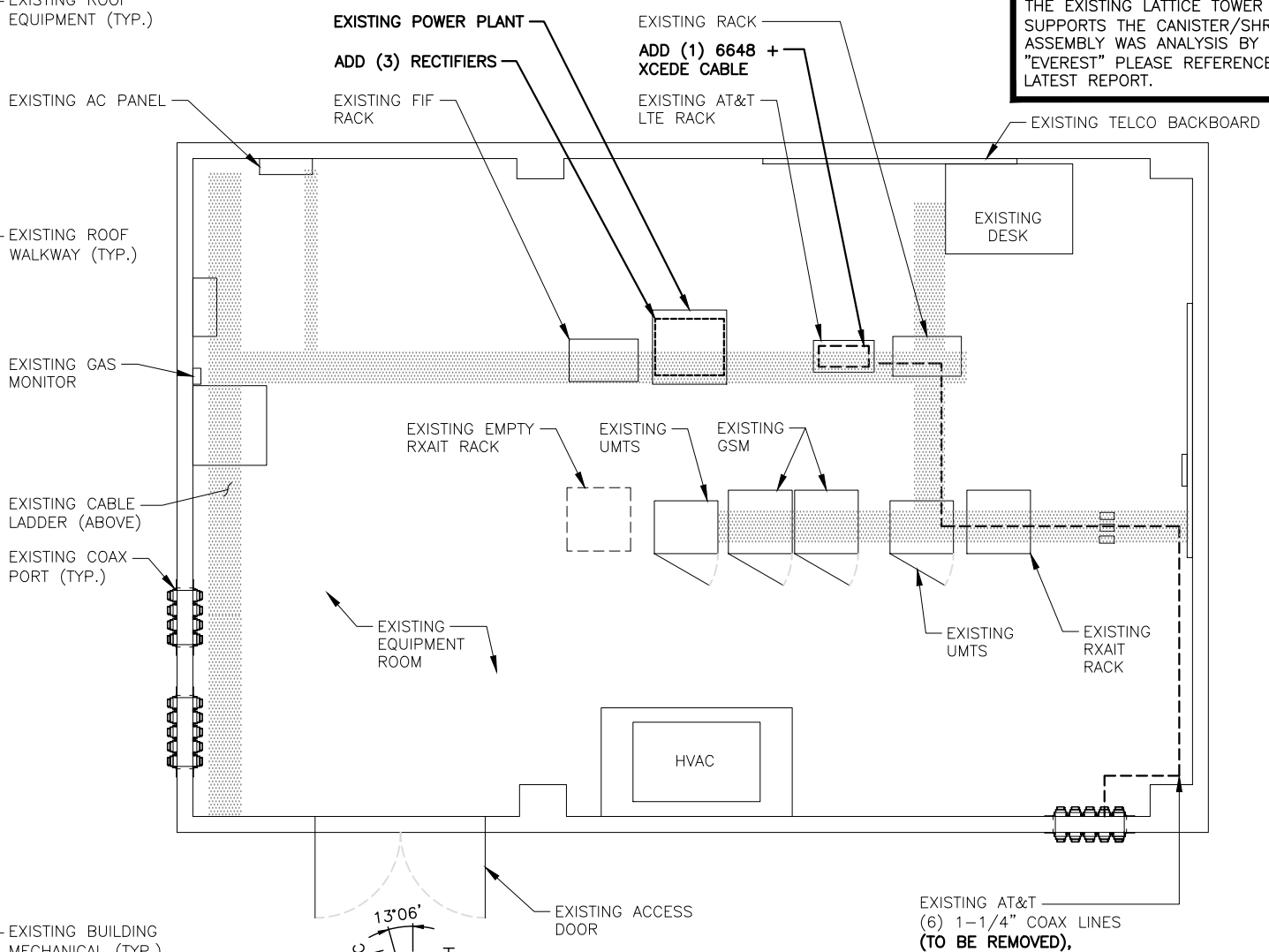
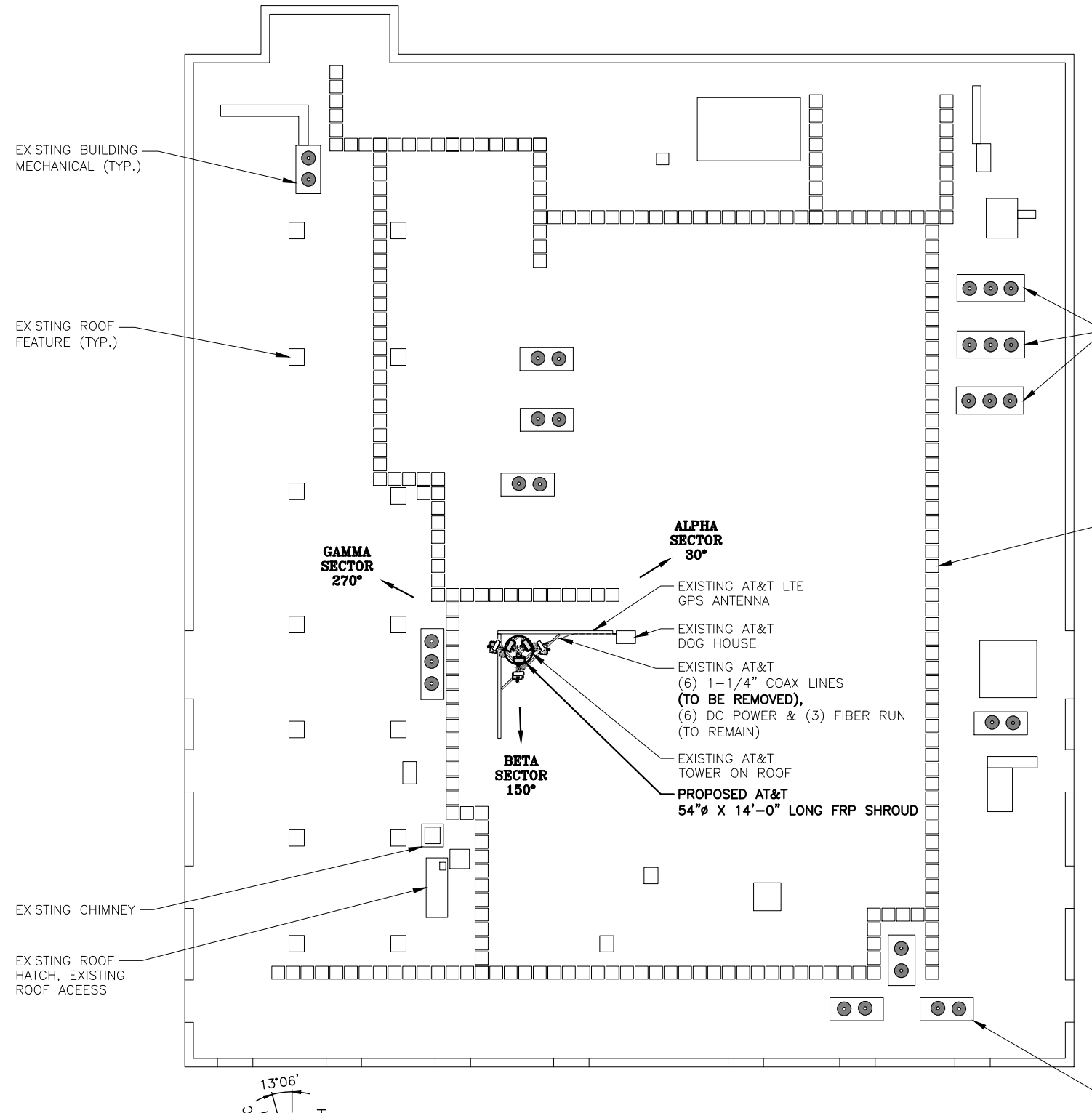
**NOTE TO GENERAL CONTRACTOR:**  
(PRIOR TO CONSTRUCTION COMPLETION)

TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

**NOTE:**  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**  
TEP NORTHEAST WAS RESPONSIBLE FOR ANALYZING THE EXISTING CANISTER ASSEMBLY SUPPORTED BY A STEEL PIPE MAST SECURE TO THE EXISTING LATTICE TOWER STRUCTURE (TOWER STRUCTURE ANALYSIS PREPARED BY OTHERS, SEE NOTE BELOW). PLEASE REFERENCE TEP **STRUCTURAL ANALYSIS** ON THE CANISTER/SHROUD DATED: FEBRUARY 16, 2023 (REV.3) FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

**NOTE:**  
THE EXISTING LATTICE TOWER THAT SUPPORTS THE CANISTER/SHROUD ASSEMBLY WAS ANALYSIS BY "EVEREST" PLEASE REFERENCE THE LATEST REPORT.



**ROOF PLAN**  
22x34 SCALE: 1/4"=1'-0"  
11x17 SCALE: 1/8"=1'-0"

**EQUIPMENT PLAN**  
22x34 SCALE: 1/2"=1'-0"  
11x17 SCALE: 1/4"=1'-0"

**TEP NORTHEAST**  
TEP OPCO, LLC.  
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553

**SAI**  
12 INDUSTRIAL WAY  
SALEM, NH 03079

**SITE NUMBER: CTL02124**  
**SITE NAME: DANBURY CENTRAL SBC CO**  
  
39 WEST STREET  
DANBURY, CT 06810  
FAIRFIELD COUNTY

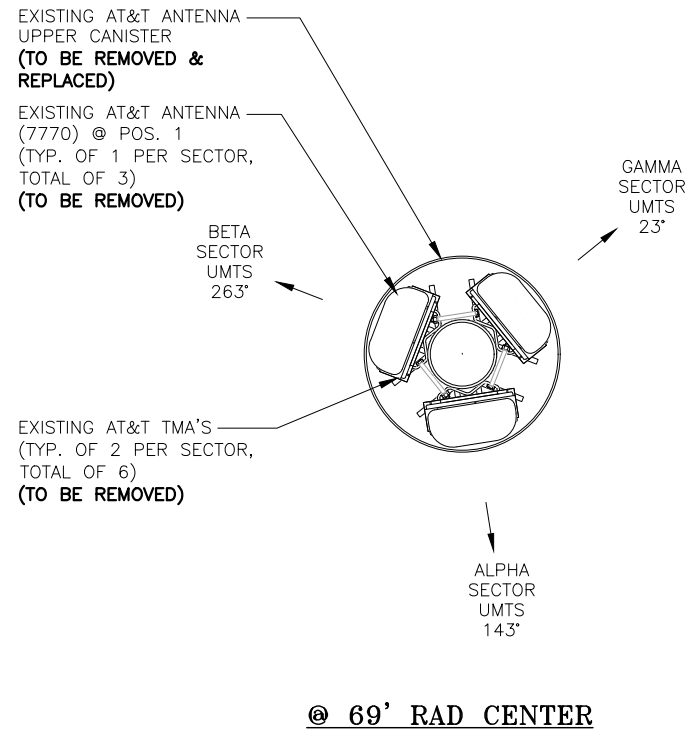
**at&t**  
500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
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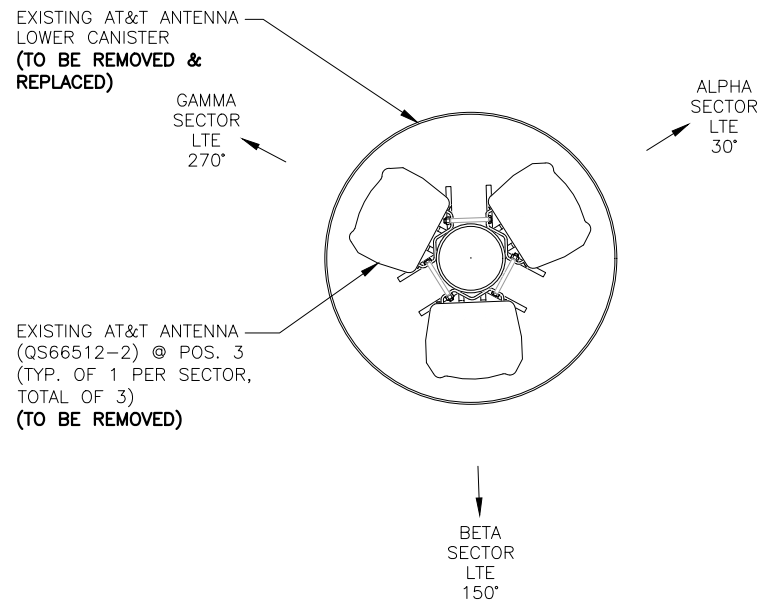
SCALE: AS SHOWN    DESIGNED BY: HC    DRAWN BY: JC

STATE OF CONNECTICUT  
DANIEL P. HAMM  
PROFESSIONAL ENGINEER

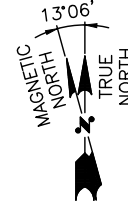
**AT&T**  
**ROOF & EQUIPMENT PLANS**  
5G NR C-BAND SITE OVERLAY LTE 6TH CARRIER  
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE  
SITE NUMBER: CTL02124    DRAWING NUMBER: A-1    REV: 4



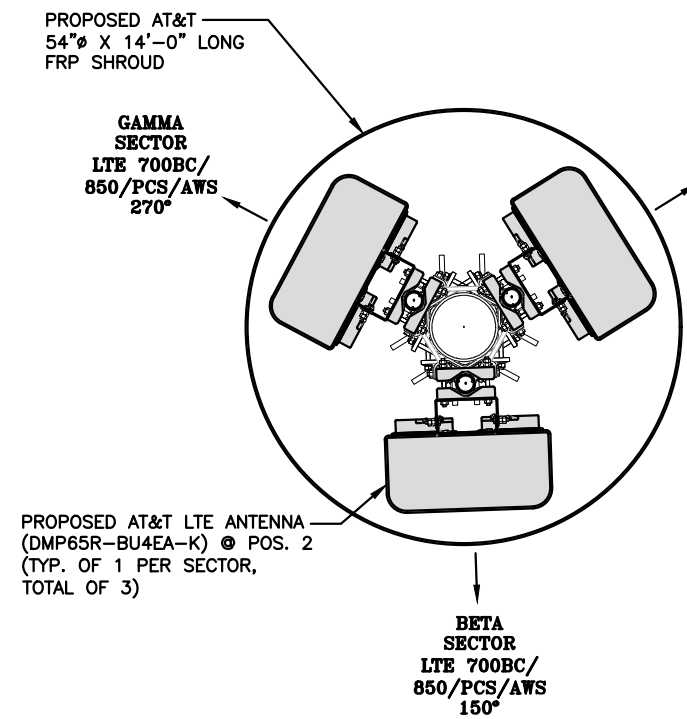
@ 69' RAD CENTER



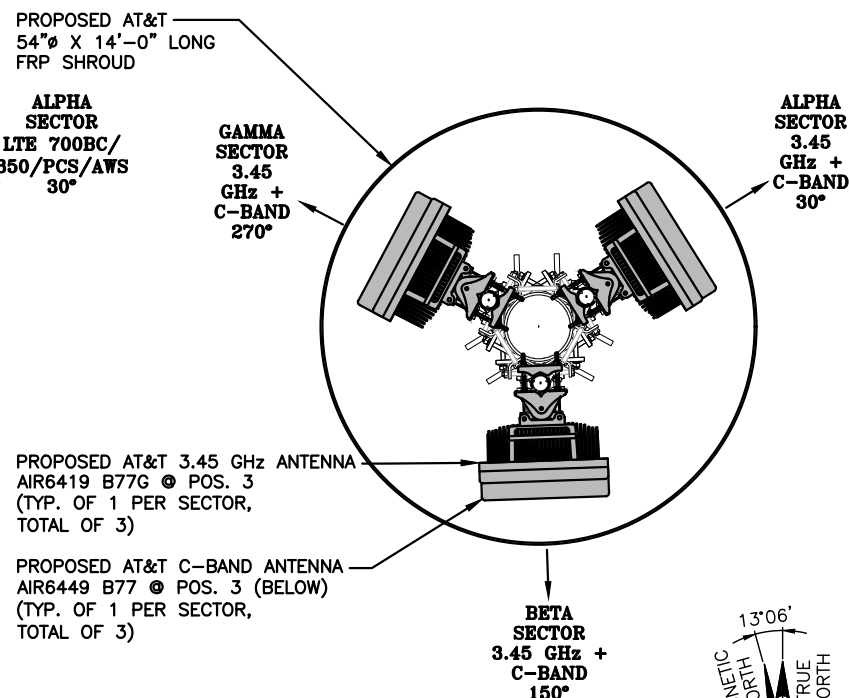
@ 63' RAD CENTER



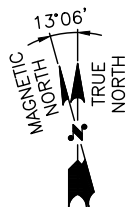
EXISTING ANTENNA LAYOUT 1  
SCALE: N.T.S. A-2



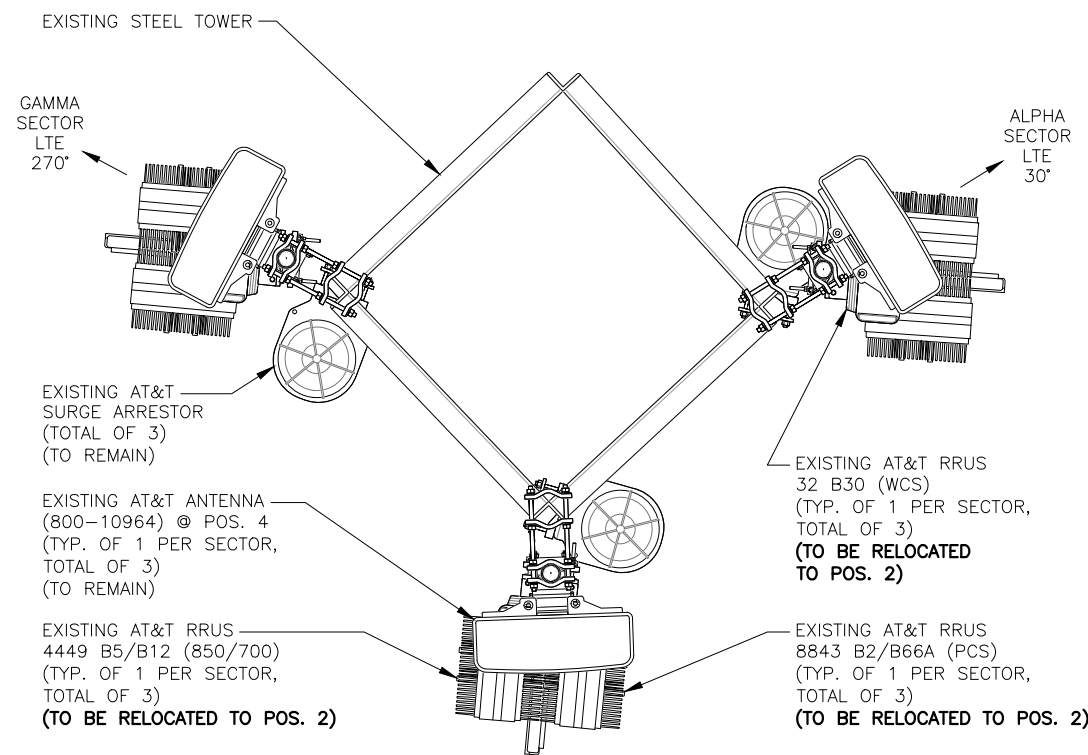
@ 69' RAD CENTER



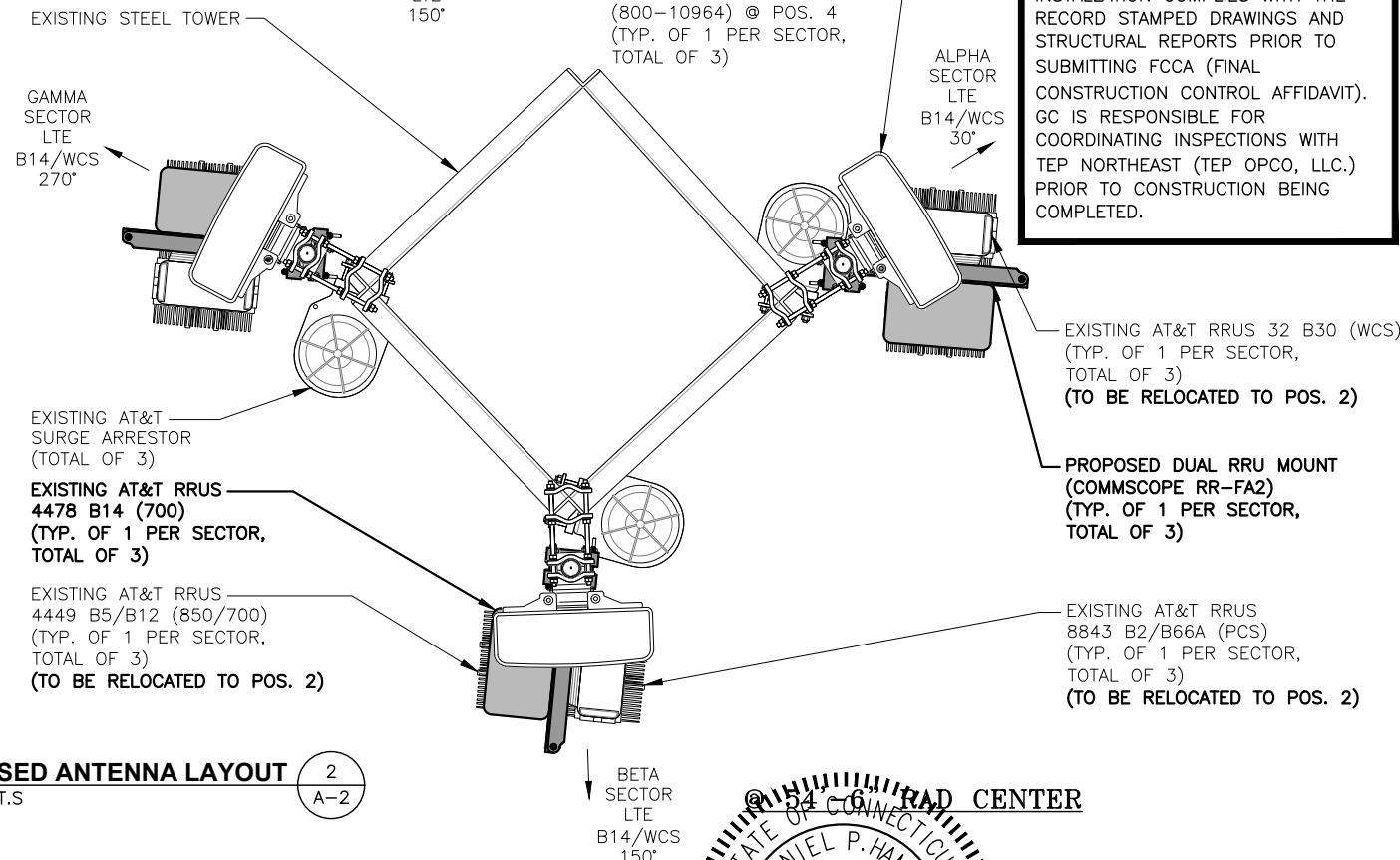
@ 61' RAD CENTER



PROPOSED ANTENNA LAYOUT 2  
SCALE: N.T.S. A-2



@ 54'-6" RAD CENTER



@ 54'-6" RAD CENTER

NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:  
TEP NORTHEAST WAS RESPONSIBLE FOR ANALYZING THE EXISTING CANISTER ASSEMBLY SUPPORTED BY A STEEL PIPE MAST SECURE TO THE EXISTING LATTICE TOWER STRUCTURE (TOWER STRUCTURE ANALYSIS PREPARED BY OTHERS, SEE NOTE BELOW). PLEASE REFERENCE TEP STRUCTURAL ANALYSIS ON THE CANISTER/SHROUD DATED: FEBRUARY 16, 2023 (REV.3) FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE:  
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NOTE TO GENERAL CONTRACTOR:  
(PRIOR TO CONSTRUCTION COMPLETION)

TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

EXISTING AT&T RRUS 32 B30 (WCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RELOCATED TO POS. 2)

PROPOSED DUAL RRU MOUNT (COMMSCOPE RR-FA2) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

EXISTING AT&T RRUS 8843 B2/B66A (PCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RELOCATED TO POS. 2)

TEP NORTHEAST  
TEP OPCO, LLC.  
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TEL: (978) 557-5553

SAI  
12 INDUSTRIAL WAY  
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SITE NUMBER: CTL02124  
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39 WEST STREET  
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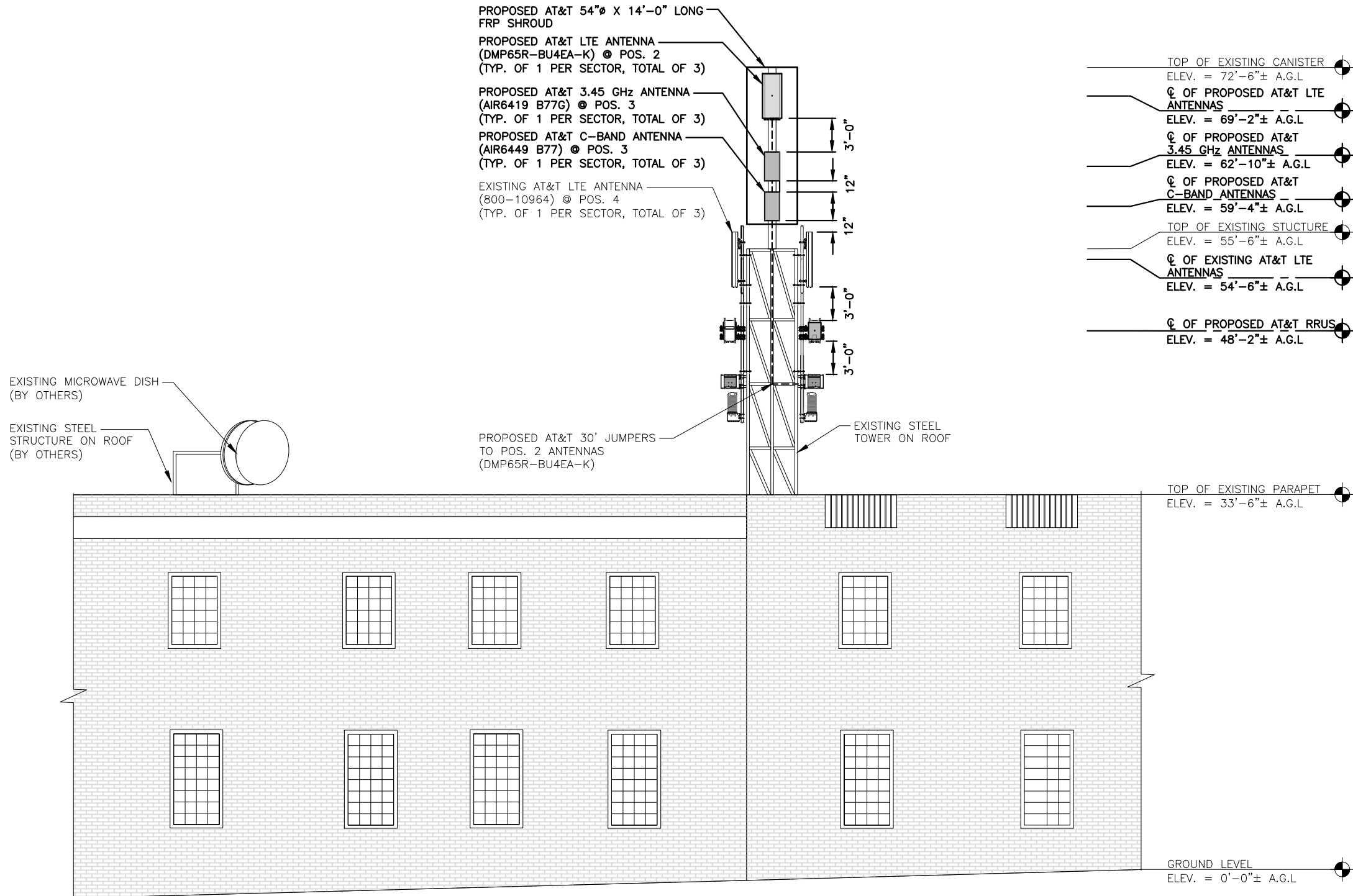
500 ENTERPRISE DRIVE, SUITE 3A  
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SCALE: AS SHOWN    DESIGNED BY: HC    DRAWN BY: JC

DANIEL P. HAMM  
STATE OF CONNECTICUT  
LICENSED PROFESSIONAL ENGINEER

AT&T  
ANTENNA LAYOUTS  
5G NR C-BAND SITE OVERLAY LTE 6TH CARRIER  
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE  
SITE NUMBER: CTL02124    DRAWING NUMBER: A-2    REV: 4

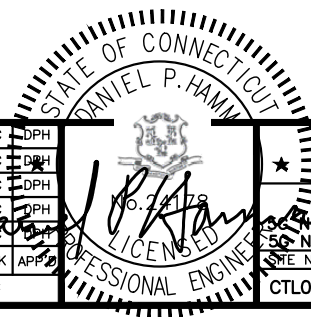
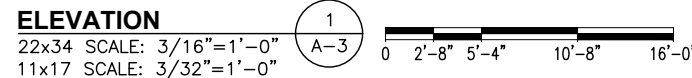


NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

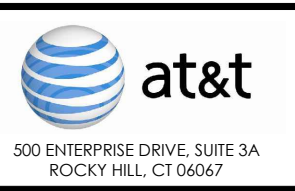
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**SITE NAME: DANBURY CENTRAL SBC CO**  
  
39 WEST STREET  
DANBURY, CT 06810  
FAIRFIELD COUNTY



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SCALE: AS SHOWN    DESIGNED BY: HC    DRAWN BY: JC

<b>AT&amp;T</b>	
ELEVATION	
5G NR 15R C-BAND SITE OVERLAY LTE 6TH CARRIER	
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE	
SITE NUMBER CTL02124	DRAWING NUMBER A-3
REV 4	

**ANTENNA SCHEDULE**

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA Ø HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	-	-	-	-	-	-	-	-	-	-	-
A2	PROPOSED	LTE 700BC/850/PCS/AWS	DMP65R-BU4EA-K	48X20.7X9.7	69'-2"±	30°	-	(E)(1) RRUS-8843 B2/B66A (PCS) (E)(1) 4449 B5/B12 (850/700)	-	(E)(2) DC POWER & (1) FIBER	(E)(1) RAYCAP DC6-48-60-18-8F
A3	PROPOSED	3.45 GHz C-BAND	AIR6419 B77G AIR6449 B77	31.1X16.1X7.3 30.6X15.9X10.6	62'-10"± 59'-4"±	30°	-	-	-	-	(E)(1) RAYCAP DC6-48-60-18-8F
A4	EXISTING	LTE B14/WCS	800-10964	59x20x6.9	54'-6"±	30°	-	(E)(1) RRUS-32 B30 (WCS) (P)(1) 4478 B14 (700)	18.1"x13.4"x8.3"	-	(E)(1) RAYCAP DC6-48-60-18-8F
B1	-	-	-	-	-	-	-	-	-	-	-
B2	PROPOSED	LTE 700BC/850/PCS/AWS	DMP65R-BU4EA-K	48X20.7X9.7	69'-2"±	150°	-	(E)(1) RRUS-8843 B2/B66A (PCS) (E)(1) 4449 B5/B12 (850/700)	-	(E)(2) DC POWER & (1) FIBER	(E)(1) RAYCAP DC6-48-60-18-8F
B3	PROPOSED	3.45 GHz C-BAND	AIR6419 B77G AIR6449 B77	31.1X16.1X7.3 30.6X15.9X10.6	62'-10"± 59'-4"±	150°	-	-	-	-	(E)(1) RAYCAP DC6-48-60-18-8F
B4	EXISTING	LTE B14/WCS	800-10964	59x20x6.9	54'-6"±	150°	-	(E)(1) RRUS-32 B30 (WCS) (P)(1) 4478 B14 (700)	18.1"x13.4"x8.3"	-	(E)(1) RAYCAP DC6-48-60-18-8F
C1	-	-	-	-	-	-	-	-	-	-	-
C2	PROPOSED	LTE 700BC/850/PCS/AWS	DMP65R-BU4EA-K	48X20.7X9.7	69'-2"±	270°	-	(E)(1) RRUS-8843 B2/B66A (PCS) (E)(1) 4449 B5/B12 (850/700)	-	(E)(2) DC POWER & (1) FIBER	(E)(1) RAYCAP DC6-48-60-18-8F
C3	PROPOSED	3.45 GHz C-BAND	AIR6419 B77G AIR6449 B77	31.1X16.1X7.3 30.6X15.9X10.6	62'-10"± 59'-4"±	270°	-	-	-	-	(E)(1) RAYCAP DC6-48-60-18-8F
C4	EXISTING	LTE B14/WCS	800-10964	59x20x6.9	54'-6"±	270°	-	(E)(1) RRUS-32 B30 (WCS) (P)(1) 4478 B14 (700)	18.1"x13.4"x8.3"	-	(E)(1) RAYCAP DC6-48-60-18-8F

NOTE:  
REFER TO THE FINAL RF DATA SHEET  
FOR FINAL ANTENNA SETTINGS.

NOTE:  
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STEEL PIPE MAST SECURE TO THE  
EXISTING LATTICE TOWER STRUCTURE  
(TOWER STRUCTURE ANALYSIS  
PREPARED BY OTHERS, SEE NOTE  
BELOW). PLEASE REFERENCE TEP  
**STRUCTURAL ANALYSIS** ON THE  
CANISTER/SHROUD  
DATED: FEBRUARY 16, 2023 (REV.3)  
FOR THE CAPACITY OF THE EXISTING  
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NOTE TO GENERAL CONTRACTOR:  
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TEP NORTHEAST (TEP OPCO, LLC.)  
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**FINAL ANTENNA SCHEDULE**

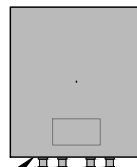
SCALE: N.T.S

1  
A-4

RRU CHART		
QUANTITY	MODEL	SIZE (L x W x D)
3(E)	4449 (850/700)	17.9"x13.2"x10.4"
3(E)	8843 (PCS/AWS)	14.9"x13.2"x10.9"
3(P)	4478 B14 (700)	18.1"x13.4"x8.3"
3(E)	RRUS-32 (WCS)	27.2"x12.1"x7.0"

NOTE:  
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:  
SEE RFDS FOR RRH  
FREQUENCY AND  
MODEL NUMBER



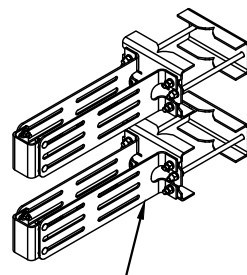
PROPOSED RRU REFER TO THE  
FINAL RFDS AND CHART FOR  
QUANTITY, MODEL AND DIMENSIONS

NOTE:  
MOUNT PER MANUFACTURER'S  
SPECIFICATIONS.

**PROPOSED RRUS DETAIL**

22x34 SCALE: 1/8"=1'-0"  
11x17 SCALE: 1/16"=1'-0"

2  
A-4



DUAL RRU MOUNT (COMMSCOPE  
RR-FA2) (TYP. OF 1 PER  
SECTOR, TOTAL OF 3)

**DUAL RRU MOUNT DETAIL**

SCALE: N.T.S

3  
A-3



SITE NUMBER: CTL02124  
SITE NAME: DANBURY CENTRAL SBC CO

39 WEST STREET  
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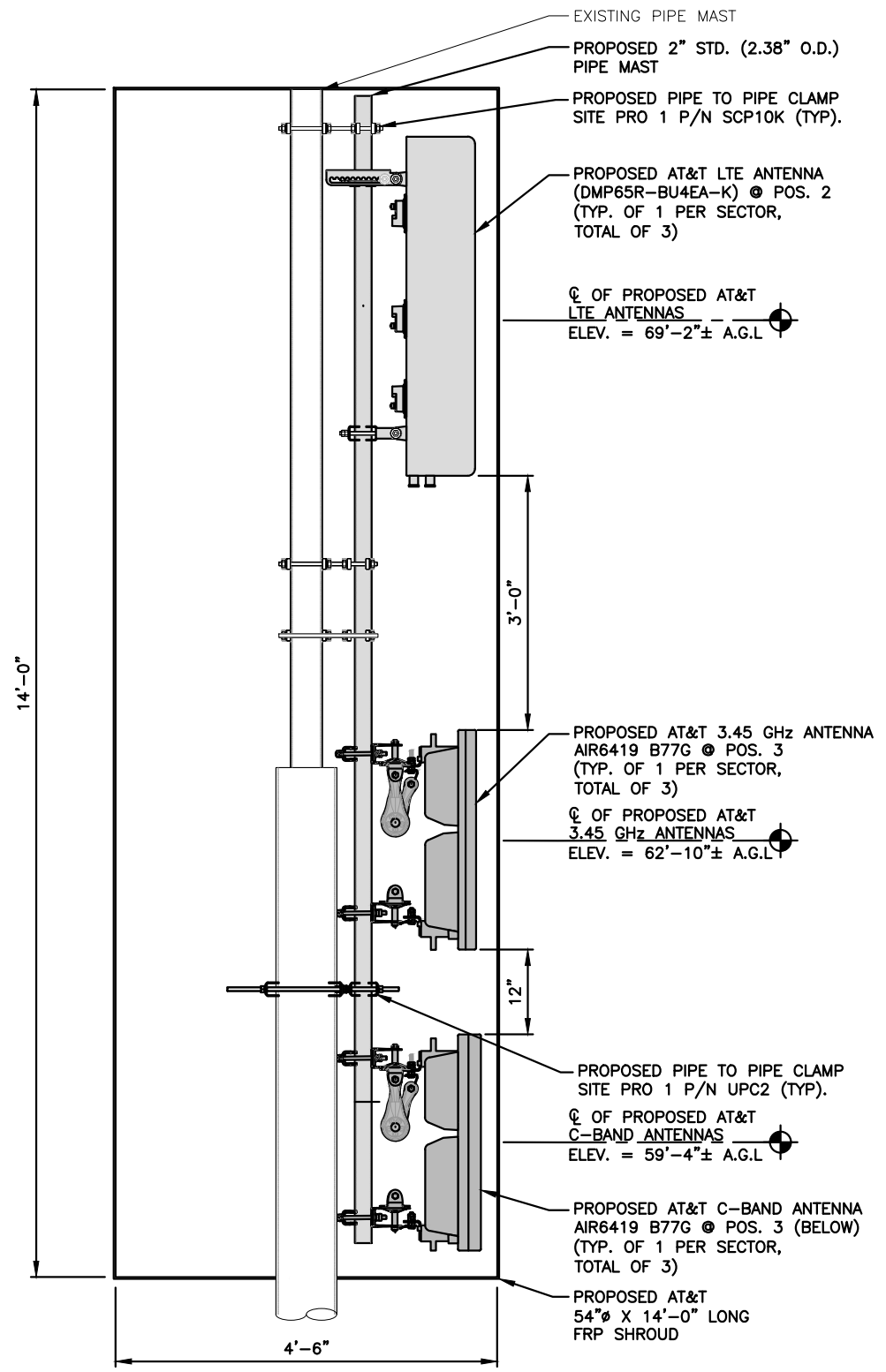
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SCALE: AS SHOWN    DESIGNED BY: HC    DRAWN BY: JC

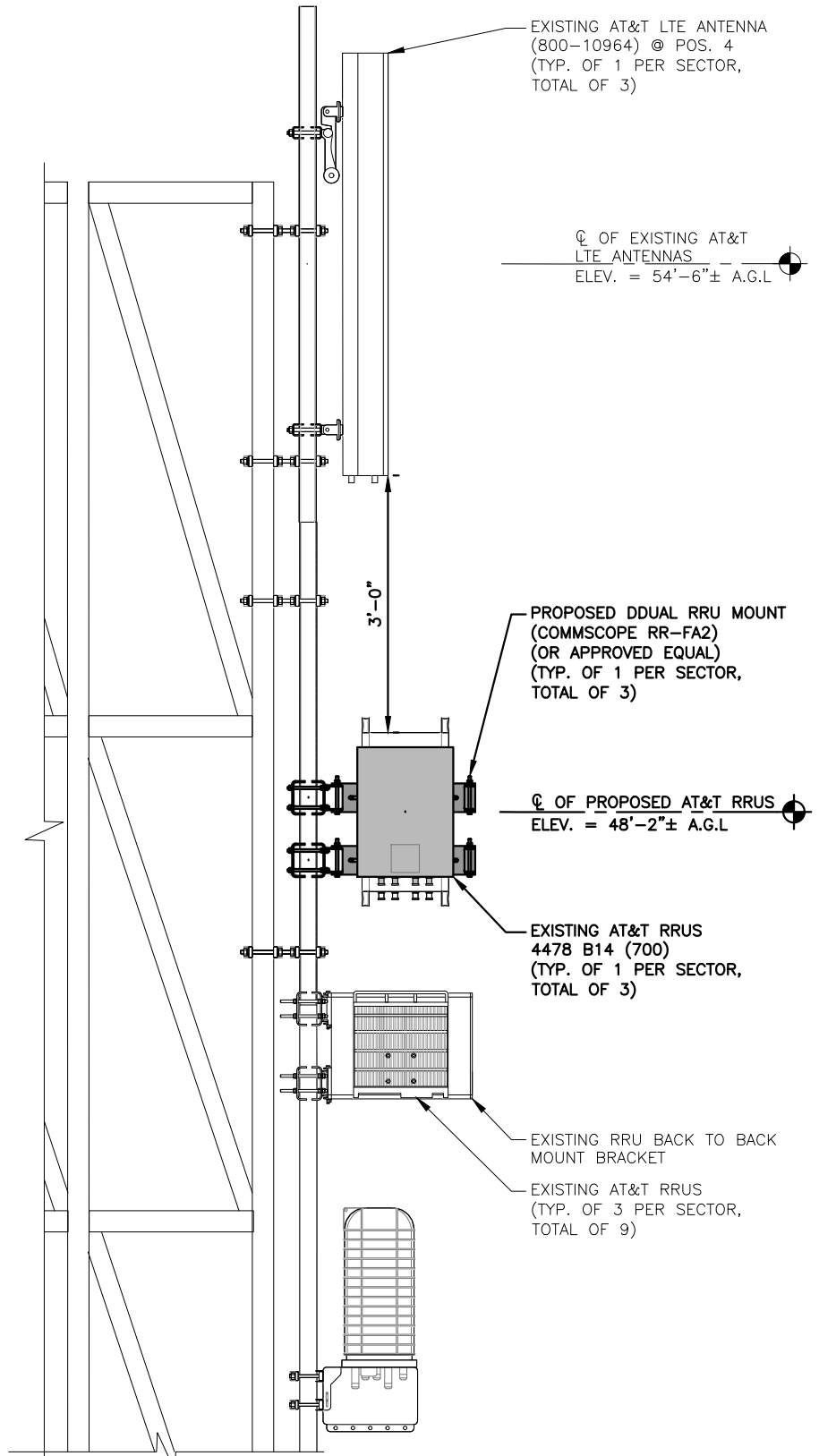
AT&T

DETAILS

5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE  
SITE NUMBER: CTL02124    DRAWING NUMBER: A-4    REV: 4



**PROPOSED AT&T LTE AND C-BAND ANTENNAS MOUNTING DETAILS**  
 22x34 SCALE: 1"=1'-0"  
 11x17 SCALE: 1/2"=1'-0"



**EXISTING AT&T LTE ANTENNA & PROPOSED RRUS MOUNTING DETAILS**  
 22x34 SCALE: 1"=1'-0"  
 11x17 SCALE: 1/2"=1'-0"

**NOTE:**  
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**NOTE:**  
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THE EXISTING LATTICE TOWER THAT SUPPORTS THE CANISTER/SHROUD ASSEMBLY WAS ANALYSIS BY "EVEREST" PLEASE REFERENCE THE LATEST REPORT.

**NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)**  
  
TEP NORTHEAST (TEP OPCO, LLC.) TO PERFORM POST/CLIMB AND INSPECTION TO CONFIRM PROPOSED INSTALLATION COMPLIES WITH THE RECORD STAMPED DRAWINGS AND STRUCTURAL REPORTS PRIOR TO SUBMITTING FCCA (FINAL CONSTRUCTION CONTROL AFFIDAVIT). GC IS RESPONSIBLE FOR COORDINATING INSPECTIONS WITH TEP NORTHEAST (TEP OPCO, LLC.) PRIOR TO CONSTRUCTION BEING COMPLETED.

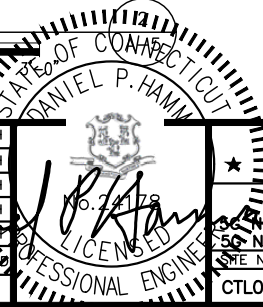
**NOTE:**  
DO NOT CAP THE TOP OF THE CANISTER AND LEAVE OPENED TO ALLOW HEAT TO CIRCULATE OUT.



**SITE NUMBER: CTL02124**  
**SITE NAME: DANBURY CENTRAL SBC CO**  
  
 39 WEST STREET  
 DANBURY, CT 06810  
 FAIRFIELD COUNTY



4	03/06/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
3	02/16/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
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NO.	DATE	REVISIONS	BY	CHK	APP
SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: JC		



AT&T	
DETAILS	
5G NR T5R C-BAND SITE OVERLAY LTE 6TH CARRIER	
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE	
SITE NUMBER	DRAWING NUMBER
CTL02124	A-5
REV	4

**STRUCTURAL NOTES:**

- DESIGN REQUIREMENTS ARE PER STATE BUILDING CODE AND APPLICABLE SUPPLEMENTS, INTERNATIONAL BUILDING CODE, EIA/TIA-222-H STRUCTURAL STANDARDS FOR STEEL ANTENNA, TOWERS AND ANTENNA SUPPORTING STRUCTURES.
- CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO FABRICATION AND ERECTION OF ANY MATERIAL. ANY UNUSUAL CONDITIONS SHALL BE REPORTED TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND ENGINEER OF RECORD.
- DESIGN AND CONSTRUCTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS".
- STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
- STEEL PIPE SHALL CONFORM TO ASTM A500 "COLD-FORMED WELDED & SEAMLESS CARBON STEEL STRUCTURAL TUBING", GRADE B, OR ASTM A53 PIPE STEEL BLACK AND HOT-DIPPED ZINC-COATED WELDED AND SEAMLESS TYPE E OR S, GRADE B. PIPE SIZES INDICATED ARE NOMINAL. ACTUAL OUTSIDE DIAMETER IS LARGER.
- STRUCTURAL CONNECTION BOLTS SHALL BE HIGH STRENGTH BOLTS (BEARING TYPE) AND CONFORM TO ASTM A325 TYPE-X "HIGH STRENGTH BOLTS FOR STRUCTURAL JOINTS, INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS". ALL BOLTS SHALL BE 3/4" DIA UON.
- ALL STEEL MATERIALS SHALL BE GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ASTM A123 "ZINC (HOT-DIP GALVANIZED) COATINGS ON IRON AND STEEL PRODUCTS", UNLESS OTHERWISE NOTED.
- ALL BOLTS, ANCHORS AND MISCELLANEOUS HARDWARE SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 "ZINC-COATING (HOT-DIP) ON IRON AND STEEL HARDWARE", UNLESS OTHERWISE NOTED.
- FIELD WELDS, DRILL HOLES, SAW CUTS AND ALL DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED WITH AN ORGANIC ZINC REPAIR PAINT COMPLYING WITH REQUIREMENTS OF ASTM A780. GALVANIZING REPAIR PAINT SHALL HAVE 65 PERCENT ZINC BY WEIGHT, ZIRP BY DUNCAN GALVANIZING, GALVA BRIGHT PREMIUM BY CROWN OR EQUAL. THICKNESS OF APPLIED GALVANIZING REPAIR PAINT SHALL BE NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
- CONTRACTOR SHALL COMPLY WITH AWS CODE FOR PROCEDURES, APPEARANCE AND QUALITY OF WELDS, AND FOR METHODS USED IN CORRECTING WELDING. ALL WELDERS AND WELDING PROCESSES SHALL BE QUALIFIED IN ACCORDANCE WITH AWS "STANDARD QUALIFICATION PROCEDURES". ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND D.I.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
- INCORRECTLY FABRICATED, DAMAGED OR OTHERWISE MISFITTING OR NON-CONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH ACTION SHALL REQUIRE CONSTRUCTION MANAGER APPROVAL.
- UNISTRUT SHALL BE FORMED STEEL CHANNEL STRUT FRAMING AS MANUFACTURED BY UNISTRUT CORP., WAYNE, MI OR EQUAL. STRUT MEMBERS SHALL BE 1 5/8"x1 5/8"x12GA, UNLESS OTHERWISE NOTED, AND SHALL BE HOT-DIP GALVANIZED AFTER FABRICATION.
- EPOXY ANCHOR ASSEMBLY SHALL CONSIST OF STAINLESS STEEL ANCHOR ROD WITH NUTS & WASHERS. AN INTERNALLY THREADED INSERT, A SCREEN TUBE AND A EPOXY ADHESIVE. THE ANCHORING SYSTEM SHALL BE THE HILTI-HIT HY-270 AND OR HY-200 SYSTEMS (AS SPECIFIED IN DWG.) OR ENGINEERS APPROVED EQUAL.
- EXPANSION BOLTS SHALL CONFORM TO FEDERAL SPECIFICATION FF-S-325, GROUP II, TYPE 4, CLASS I, HILTI KWIK BOLT III OR APPROVED EQUAL. INSTALLATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- LUMBER SHALL COMPLY WITH THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION AND THE NATIONAL FOREST PRODUCTS ASSOCIATION'S NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION. ALL LUMBER SHALL BE PRESSURE TREATED AND SHALL BE STRUCTURAL GRADE NO. 2 OR BETTER.
- WHERE ROOF PENETRATIONS ARE REQUIRED, THE CONTRACTOR SHALL CONTACT AND COORDINATE RELATED WORK WITH THE BUILDING OWNER AND THE EXISTING ROOF INSTALLER. WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO NOT VOID THE EXISTING ROOF WARRANTY. ROOF SHALL BE WATERTIGHT.
- ALL FIBERGLASS MEMBERS USED ARE AS MANUFACTURED BY STRONGWELL COMPANY OF BRISTOL, VA 24203. ALL DESIGN CRITERIA FOR THESE MEMBERS IS BASED ON INFORMATION PROVIDED IN THE DESIGN MANUAL. ALL REQUIREMENTS PUBLISHED IN SAID MANUAL MUST BE STRICTLY ADHERED TO.
- NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
- SUBCONTRACTOR SHALL FIREPROOF ALL STEEL TO PRE-EXISTING CONDITIONS.

**SPECIAL INSPECTIONS (REFERENCE IBC CHAPTER 17):**

**GENERAL:** WHERE APPLICATION IS MADE FOR CONSTRUCTION, THE OWNER OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE ACTING AS THE OWNER'S AGENT SHALL EMPLOY ONE OR MORE APPROVED AGENCIES TO PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK LISTED IN THE INSPECTION CHECKLIST ABOVE.

THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT ARE PERMITTED TO ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO ACT AS THE SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THOSE PERSONNEL MEET THE QUALIFICATION REQUIREMENTS.

STATEMENT OF SPECIAL INSPECTIONS: THE APPLICANT SHALL SUBMIT A STATEMENT OF SPECIAL INSPECTIONS PREPARED BY THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE IN ACCORDANCE WITH SECTION 107.1 AS A CONDITION FOR ISSUANCE. THIS STATEMENT SHALL BE IN ACCORDANCE WITH SECTION 1705.

REPORT REQUIREMENT: SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS OR WAS NOT COMPLETED IN CONFORMANCE TO APPROVED CONSTRUCTION DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS SHALL BE SUBMITTED.

**NOTES:**

- ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"Ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
- SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
- VERIFICATION OF EXISTING ROOF CONSTRUCTION IS REQUIRED PRIOR TO THE INSTALLATION OF THE ROOF PLATFORM. ENGINEER OF RECORD IS TO APPROVE EXISTING CONDITIONS IN ORDER TO MOVE FORWARD.
- CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
- EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

**NOTES:**

- REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
- PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
- PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
- HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
- ADHESIVE FOR REBAR AND ANCHORS SHALL HAVE BEEN TESTED IN ACCORDANCE WITH ACI 355.4 AND ICC-ES AC308 FOR CRACKED CONCRETE AND SEISMIC APPLICATIONS. DESIGN ADHESIVE BOND STRENGTH HAS BEEN BASED ON ACI 355.4 TEMPERATURE CATEGORY B WITH INSTALLATIONS INTO DRY HOLES DRILLED USING A CARBIDE BIT INTO CRACKED CONCRETE THAT HAS CURED FOR AT LEAST 21 DAYS. ADHESIVE ANCHORS REQUIRING CERTIFIED INSTALLATIONS SHALL BE INSTALLED BY A CERTIFIED ADHESIVE ANCHOR INSTALLER PER ACI 318-11 D.9.2.2. INSTALLATIONS REQUIRING CERTIFIED INSTALLERS SHALL BE INSPECTED PER ACI 318-11 D.8.2.4.
- AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

**SPECIAL INSPECTION CHECKLIST**

**BEFORE CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
N/A	ENGINEER OF RECORD APPROVED SHOP DRAWINGS <sup>1</sup>
N/A	MATERIAL SPECIFICATIONS REPORT <sup>2</sup>
N/A	FABRICATOR NDE INSPECTION
<b>REQUIRED</b>	PACKING SLIPS <sup>3</sup>

ADDITIONAL TESTING AND INSPECTIONS:

**DURING CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
<b>REQUIRED</b>	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS <sup>4</sup>
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION <sup>5</sup>
N/A	GROUT VERIFICATION
N/A	CERTIFIED WELD INSPECTION
N/A	EARTHWORK: LIFT AND DENSITY
N/A	ON SITE COLD GALVANIZING VERIFICATION
N/A	GUY WIRE TENSION REPORT

ADDITIONAL TESTING AND INSPECTIONS:

**AFTER CONSTRUCTION**

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
<b>REQUIRED</b>	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS <sup>6</sup>
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
<b>REQUIRED</b>	PHOTOGRAPHS

ADDITIONAL TESTING AND INSPECTIONS:




TEP NORTHWEST  
TEP OF CO, LLC.  
45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553



SAI  
12 INDUSTRIAL WAY  
SALEM, NH 03079

**SITE NUMBER: CTL02124**  
**SITE NAME: DANBURY CENTRAL SBC CO**

39 WEST STREET  
DANBURY, CT 06810  
FAIRFIELD COUNTY



500 ENTERPRISE DRIVE, SUITE 3A  
ROCKY HILL, CT 06067

4	03/06/23	ISSUED FOR CONSTRUCTION	MR	HC	DPH
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SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: JC		



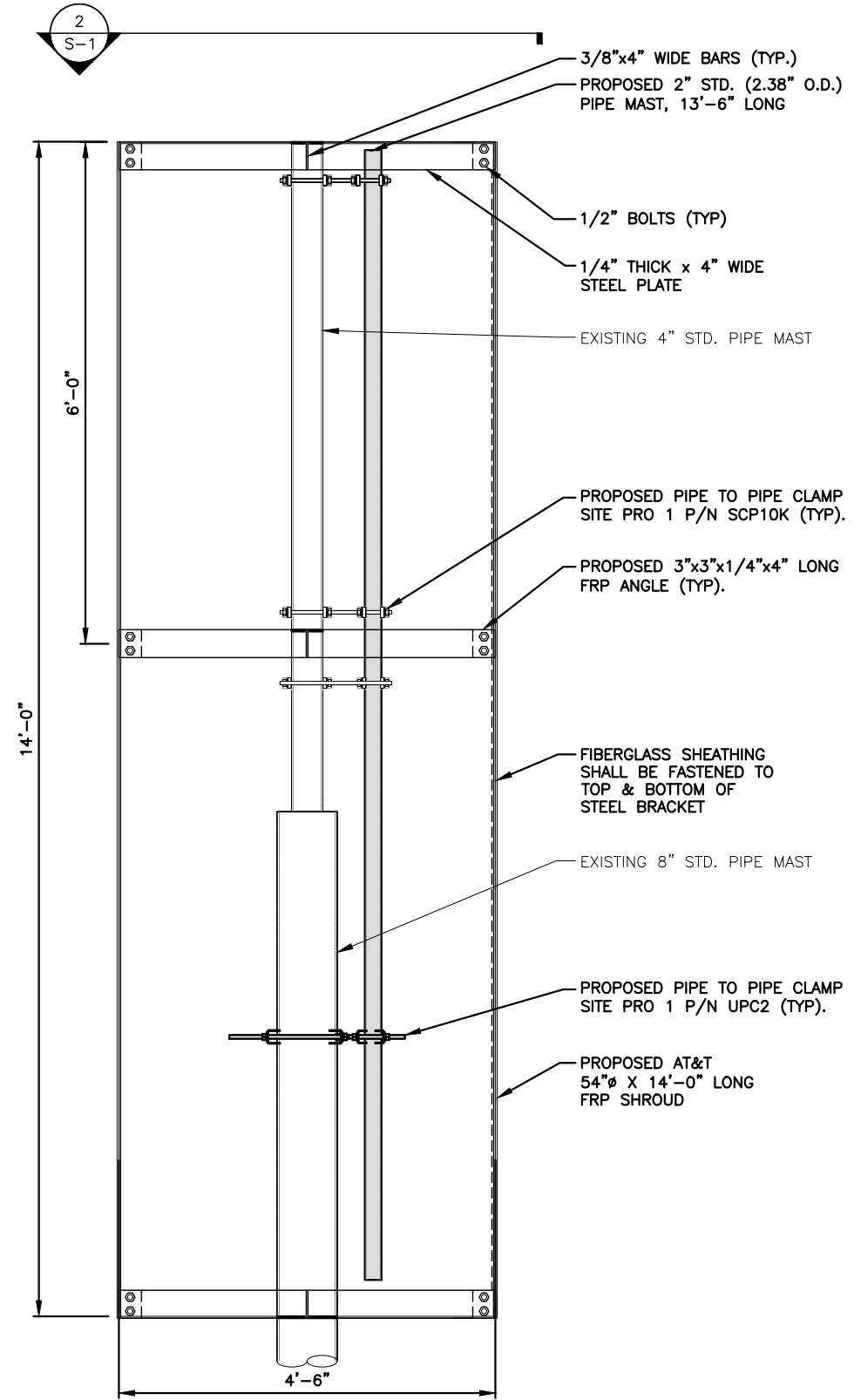
STATE OF CONNECTICUT  
DANIEL P. HAMM  
LICENSED PROFESSIONAL ENGINEER  
No. 21178

AT&T

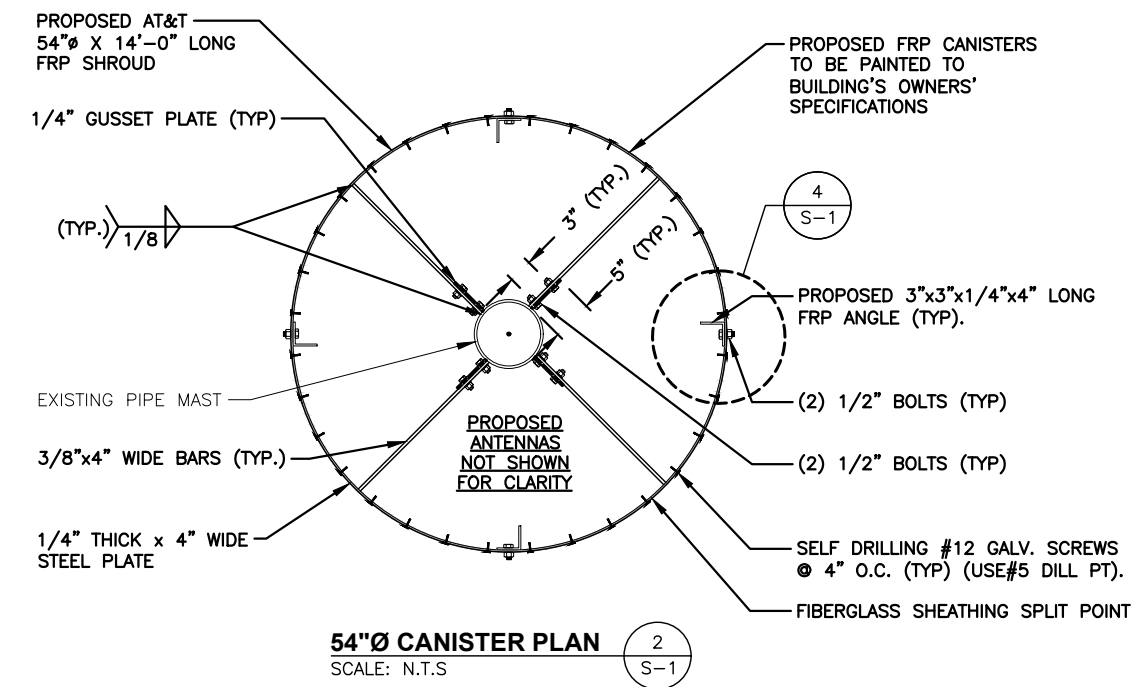
STRUCTURAL NOTES  
36 NR 15R C-BAND SITE OVERLAY LTE 6TH CARRIER  
56 NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE

SHEET NUMBER	DRAWING NUMBER	REV
CTL02124	SN-1	4

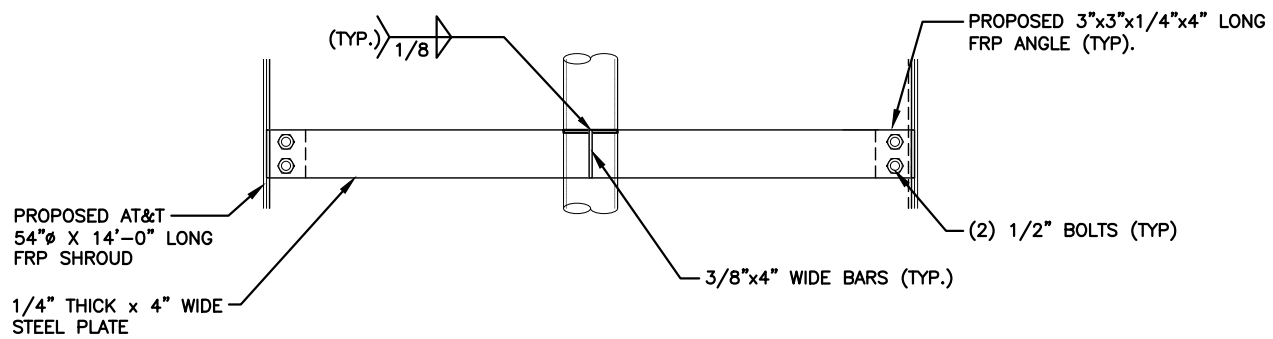




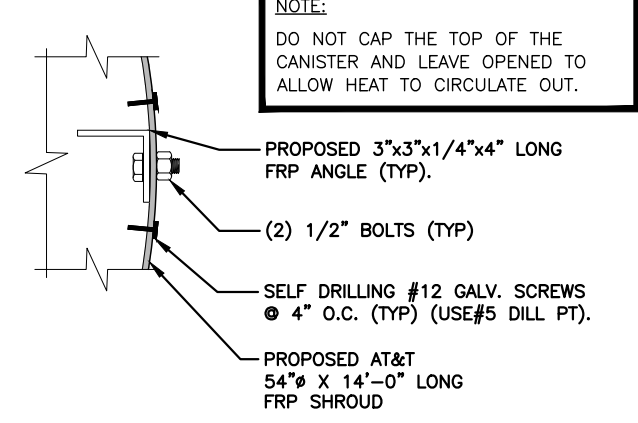
**PROPOSED 54"Ø CANISTER MOUNT DETAIL**  
 22x34 SCALE: 1-1/2"=1'-0"  
 11x17 SCALE: 3/4"=1'-0"  
 1 S-1



**54"Ø CANISTER PLAN**  
 SCALE: N.T.S.  
 2 S-1



**CONNECTION DETAIL**  
 22x34 SCALE: 3"=1'-0"  
 11x17 SCALE: 1-1/2"=1'-0"  
 3 S-1



**CONNECTION DETAIL**  
 22x34 SCALE: 3"=1'-0"  
 11x17 SCALE: 1-1/2"=1'-0"  
 4 S-1

NOTE:  
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:  
 TEP NORTHEAST WAS RESPONSIBLE FOR ANALYZING THE EXISTING CANISTER ASSEMBLY SUPPORTED BY A STEEL PIPE MAST SECURE TO THE EXISTING LATTICE TOWER STRUCTURE (TOWER STRUCTURE ANALYSIS PREPARED BY OTHERS, SEE NOTE BELOW). PLEASE REFERENCE TEP **STRUCTURAL ANALYSIS** ON THE CANISTER/SHROUD DATED: FEBRUARY 16, 2023 (REV.3) FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.

NOTE:  
 THE EXISTING LATTICE TOWER THAT SUPPORTS THE CANISTER/SHROUD ASSEMBLY WAS ANALYSIS BY "EVEREST" PLEASE REFERENCE THE LATEST REPORT.

NOTE TO GENERAL CONTRACTOR:  
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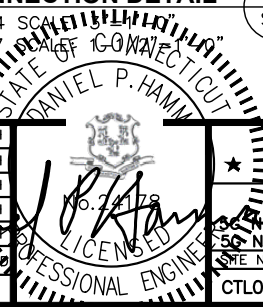
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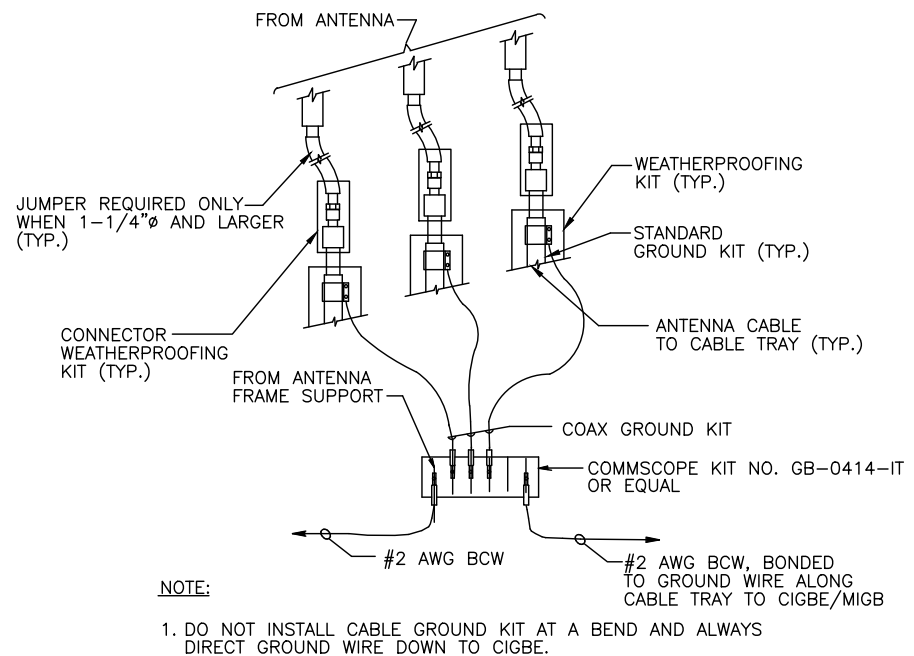
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 39 WEST STREET  
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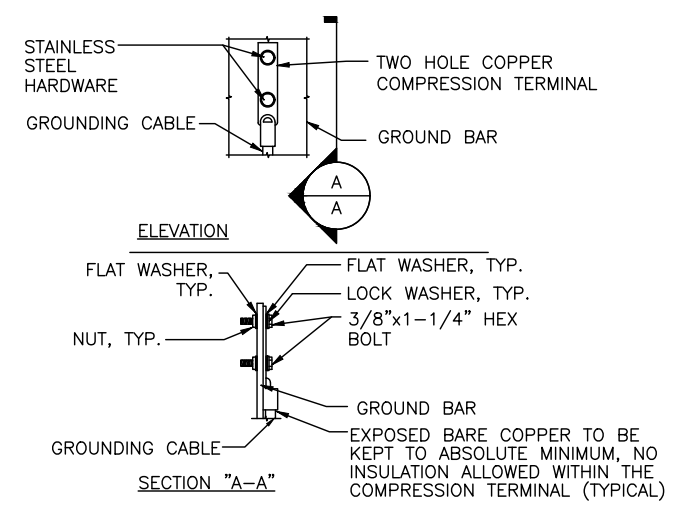
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SCALE: AS SHOWN		DESIGNED BY: HC	DRAWN BY: JC		



AT&T	
STRUCTURAL MODIFICATION DESIGN	
5G NR T5R C-BAND SITE OVERLAY LTE 6TH CARRIER	
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE	
SITE NUMBER	DRAWING NUMBER
CTL02124	S-1
REV	4

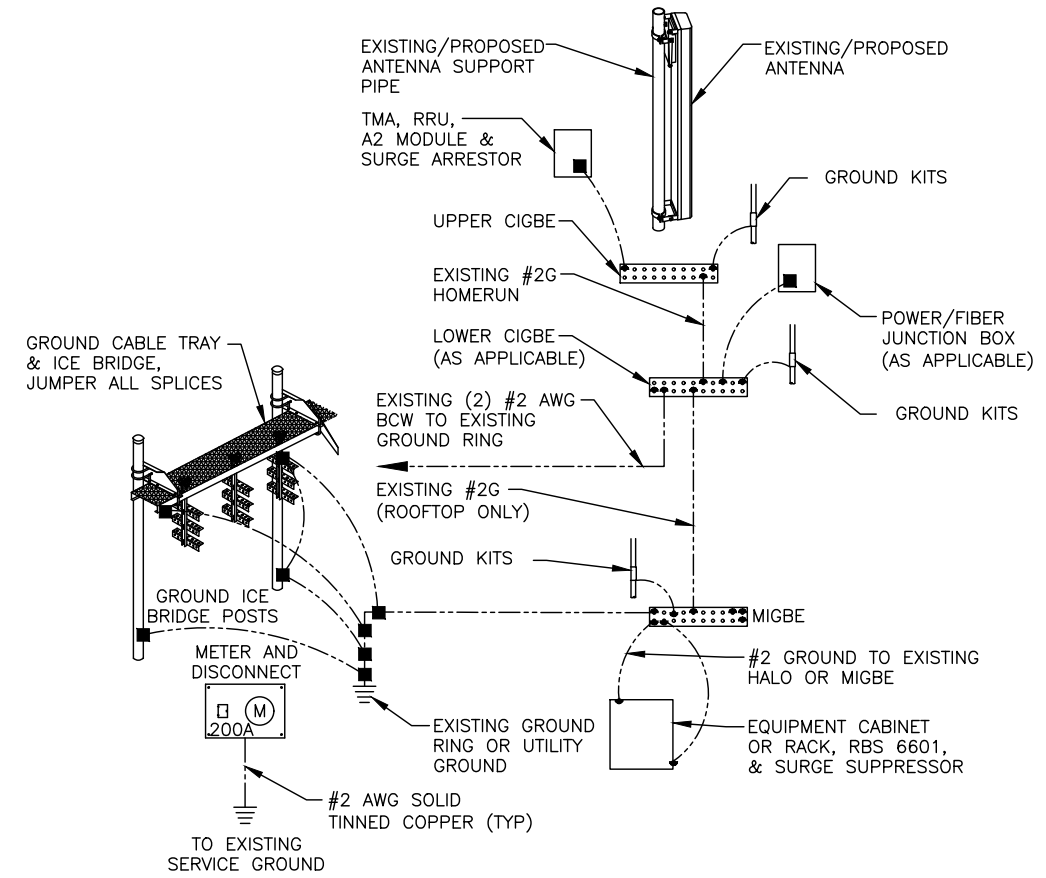


**GROUND WIRE TO GROUND BAR CONNECTION DETAIL** 1  
SCALE: N.T.S. G-1



- NOTES:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
  2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
  3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

**TYPICAL GROUND BAR CONNECTION DETAIL** 3  
SCALE: N.T.S. G-1



**GROUNDING RISER DIAGRAM** 2  
SCALE: N.T.S. G-1

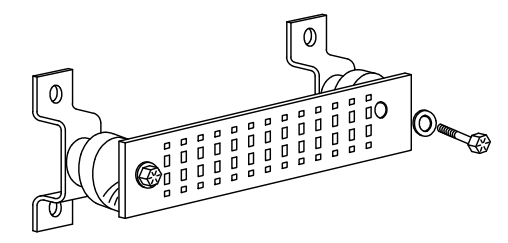
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

**SECTION "P" - SURGE PRODUCERS**

- CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)
- GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)
- TELCO GROUND BAR
- COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)
- +24V POWER SUPPLY RETURN BAR (#2 AWG)
- 48V POWER SUPPLY RETURN BAR (#2 AWG)
- RECTIFIER FRAMES.

**SECTION "A" - SURGE ABSORBERS**

- INTERIOR GROUND RING (#2 AWG)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
- BUILDING STEEL (IF AVAILABLE) (#2 AWG)



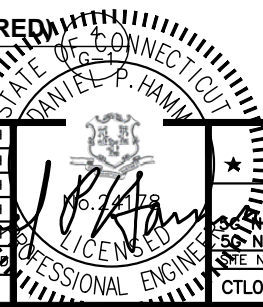
**GROUND BAR - DETAIL (AS REQUIRED)**  
SCALE: N.T.S.



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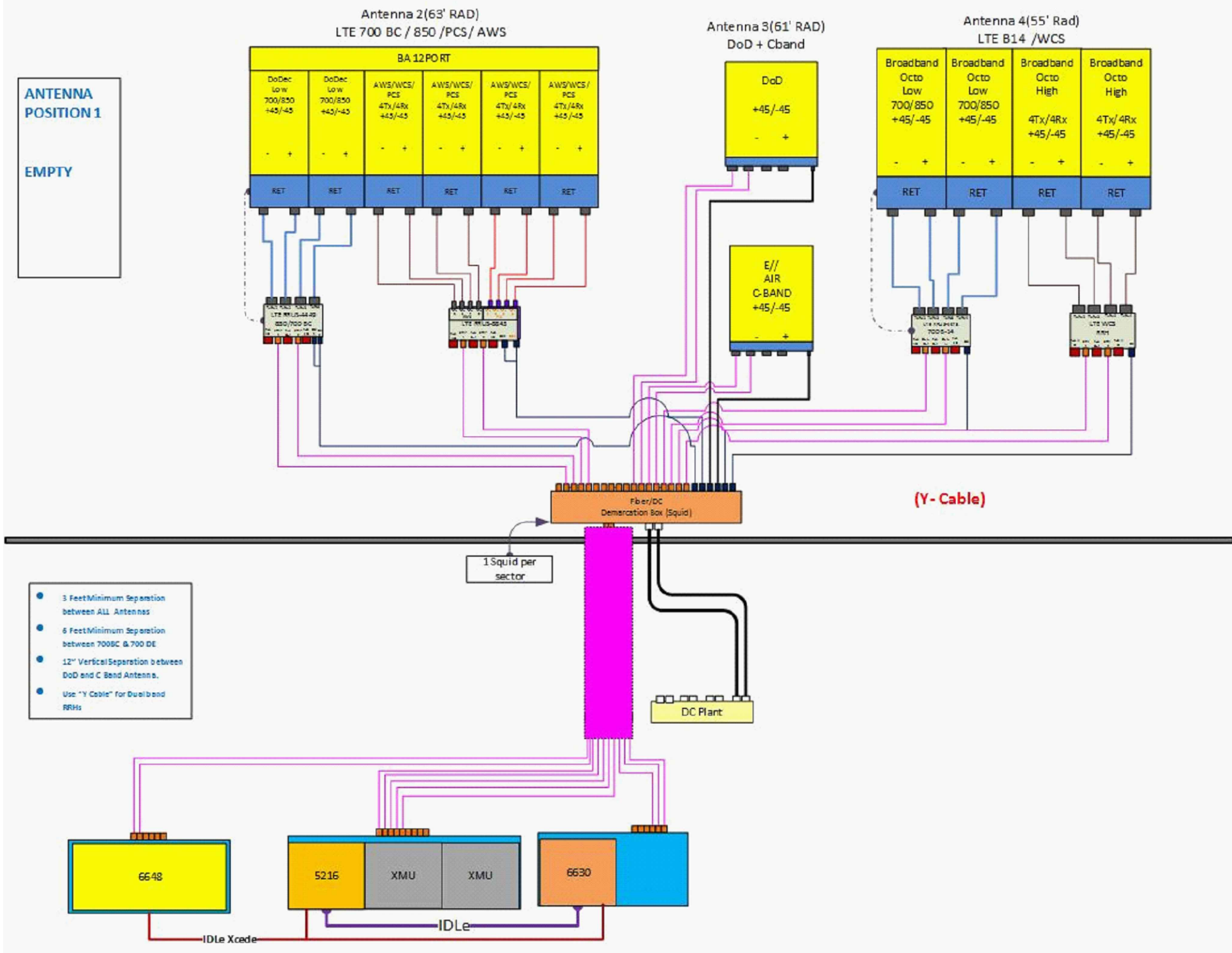


NO.	DATE	REVISIONS	BY	CHK	APP
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AT&T	
GROUNDING DETAILS	
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE	
SITE NUMBER	DRAWING NUMBER
CTL02124	G-1
REV	4

**NOTE:**  
 REV: 2  
 DATED: 02/13/2023  
 RFDS ID: 4835729



**RF PLUMBING DIAGRAM** 1  
 SCALE: N.T.S. RF-1

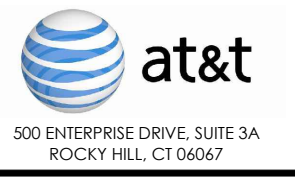
**NOTE:**  
 1. CONTRACTOR TO CONFIRM ALL PARTS.  
 2. INSTALL ALL EQUIPMENT TO MANUFACTURER'S RECOMMENDATIONS

**NOTE:**  
 REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



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<b>AT&amp;T</b>		
RF PLUMBING DIAGRAM		
5G NR 1SR C-BAND_SITE OVERLAY LTE 6TH CARRIER		
5G NR SOFTWARE RADIO/5G NR ACTIVATION UPGRADE		
SITE NUMBER	DRAWING NUMBER	REV
CTL02124	RF-1	4

# Exhibit D

## **Structural Analysis Report**

January 19, 2023

Thomas L. Rigg Jr.  
Everest Infrastructure Partners  
Two Allegheny Center, Nova Tower 2, Suite 703  
Pittsburgh, PA 15212  
(603) 498-7462



Tower Engineering Professionals  
326 Tryon Road  
Raleigh, NC 27603  
(919) 661-6351  
[Structures@tepgroup.net](mailto:Structures@tepgroup.net)

**Subject: Structural Analysis Report**

**Carrier Designation:** **AT&T Mobility Reconfiguration**  
**Carrier Site Number:** CT2124  
**Carrier Site Name:** Danbury Central SBC CO

**Client Designation:** **EIP Site Number:** 701815  
**EIP Site Name:** Danbury CO

**Engineering Firm Designation:** **TEP Project Number:** 263235.810812

**Site Data:** **39 West Street, Danbury, Fairfield County, CT 06810**  
**Latitude 41° 23' 34.00", Longitude -73° 27' 14.00"**  
**38.5± Foot - Self-Support Tower**

Dear Thomas L. Rigg Jr.,

*Tower Engineering Professionals* is pleased to submit this “**Structural Analysis Report**” to determine the structural integrity of the above-mentioned tower.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the stress level for the tower and foundation structure, under the following load case, to be:

LC1: Existing + Proposed + Reserved Loading  
Note: See Table 1 for the existing, proposed, and reserved loading

**Sufficient Capacity**

Structure Capacity	Foundation Capacity
31.5%	-

The analysis has been performed in accordance with the ANSI/TIA-222-H Structural Standard for Antenna Supporting Structures, Antennas, and Small Wind Turbine Support Structures and the 2022 Connecticut State Building Code.

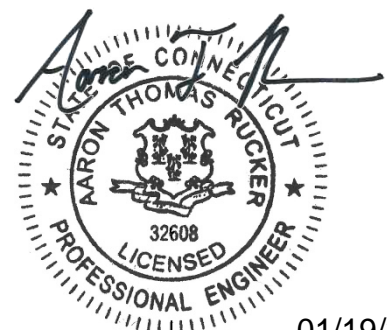
All modifications and equipment proposed in this report shall be installed in accordance with the appurtenances listed in Table 1 for the determined available structural capacity to be effective.

We at *Tower Engineering Professionals* appreciate the opportunity of providing our continuing professional services to you and *Everest Infrastructure Partners*. If you have any questions or need further assistance on this or any other projects, please give us a call.

Structural analysis prepared by: Gautam Sopal, E.I. /

Respectfully submitted by:

Aaron T. Rucker, P.E.



01/19/2023

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tnxTower Output

## 1) INTRODUCTION

The tower is a 38.5± Foot Self-Support Tower. The original design standard and wind speed were unavailable for review. All information provided to TEP was assumed to be accurate and complete.

## 2) ANALYSIS CRITERIA

<b>TIA-222 Revision:</b>	ANSI/TIA-222-H
<b>Type of Analysis:</b>	Comprehensive
<b>Risk Category:</b>	II
<b>Wind Speed:</b>	115 mph (Ultimate)
<b>Exposure Category:</b>	B
<b>Topographic Procedure:</b>	Method 1 (Kzt = 1.0)
<b>Ice Thickness:</b>	1.00 in
<b>Wind Speed with Ice:</b>	50 mph
<b>Seismic Design Category:</b>	B
<b>Seismic Ss:</b>	0.226
<b>Seismic S1:</b>	0.056
<b>Service Wind Speed:</b>	60 mph

**Table 1 - Existing, Proposed, and Reserved Antenna and Cable Information**

Existing/ Proposed/ Reserved	Mount Level (ft)	Ant CL (ft)	Qty	Antenna Model	Mount Type	Qty Coax	Coax Size	Coax Location	Owner/ Tenant
<b>Proposed</b>	<b>69.0</b>	<b>69.0</b>	<b>3</b>	<b>CCI DMP65R-BU4EA-K</b>	<b>Pipe Mount</b>	-	-	-	<b>AT&amp;T</b>
<b>Proposed</b>	<b>65.0</b>	<b>65.0</b>	<b>3</b>	<b>Ericsson AIR 6419 B77G</b>	<b>Pipe Mount</b>	-	-	-	<b>AT&amp;T</b>
<b>Proposed</b>	<b>61.0</b>	<b>61.0</b>	<b>3</b>	<b>Ericsson AIR 6449 B77D</b>	<b>Pipe Mount</b>	-	-	-	<b>AT&amp;T</b>
Existing	54.5	54.5	3	Kathrein 800-10964	Pipe Mount	6	5/8" DC	BC Face	AT&T
Existing	50.0	50.0	3	Ericsson RRUS-32	(3) Pipe Mounts				AT&T
<b>Proposed</b>	<b>47.5</b>	<b>47.5</b>	<b>3</b>	<b>Ericsson 4478-B14</b>		-	-	-	<b>AT&amp;T</b>
Existing	47.5	47.5	3	Ericsson 8843 B2/B66		3	3/8" Fiber	BC Face	AT&T
			3	Ericsson 4449 B5/B12					
Existing	45.0	45.0	3	Raycap DC6-48-60-18-8C					

## 3) ANALYSIS PROCEDURE

**Table 2 - Documents Provided**

Document	Remarks	Source
Previous Structural Analysis	Hudson Design Group LLC, dated April 04, 2019 Job No. CT2124	EIP
Previous Mount Analysis	TEP Northeast, dated December 09, 2022 Project No. CT2124	EIP
Maintenance and Condition Assessment Report	Tower Engineering Professionals, Inc., dated May 05, 2021 TEP No. 263235.513100	TEP
Correspondence	Correspondence in reference to the existing, proposed, and reserved loading.	EIP

### 3.1) Analysis Method

tnxTower (version 8.1.1.0), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

### 3.2) Analysis Assumptions

- 1) The tower and foundation were built and maintained in accordance with the manufacturer's specification.
- 2) The configuration of existing antennas, transmission cables, mounts and other appurtenances are as specified in the tower mapping report by TEP.
- 3) Unless specified by the client or tower mapping, the location of the existing and proposed coax is assumed by TEP and listed in Table 1.
- 4) All tower components are in sufficient condition to carry their full design capacity.
- 5) Serviceability with respect to antenna twist, tilt, roll, or lateral translation, is not checked and is left to the carrier or tower owner to ensure conformance.
- 6) All antenna mounts and mounting hardware are structurally sufficient to carry the full design capacity requirements of appurtenance wind area and weight as provided by the original manufacturer specifications. It is the carrier's responsibility to ensure compliance to the structural limitations of the existing and/or proposed antenna mounts. TEP did not perform a site visit to verify the size, condition or capacity of the antenna mounts and did not analyze antenna supporting mounts as part of this structural analysis report.
- 7) All tower information was taken from the previous structural analyses listed in Table 2 for this analysis. TEP assumed this information to be accurate and complete.
- 8) The following material grades were assumed:
  - a) Tower Leg Grade: ASTM A36
  - b) Tower Bracing Grade: ASTM A36
  - c) Tower Pole Grade: ASTM A53-B-35

This analysis may be affected if any assumptions are not valid or have been made in error. Tower Engineering Professionals should be notified to determine the effect on the structural integrity of the tower.



#### 4) ANALYSIS RESULTS

**Table 3 - Section Capacity (Summary)**

Section No.	Elevation (ft)	Component Type	Size	Critical Element	P (k)	$\phi P_{allow}$ (k)	% Capacity	Pass / Fail	
L1	74 - 66	Pole	P4x.337	1	-1.56	145.78	9.7	Pass	
L2	66 - 55.5	Pole	P8x.322	2	-3.51	277.81	13.5	Pass	
T1	55.5 - 35.5	Leg	L3x3x1/4	6	-11.47	36.43	31.5	Pass	
T1	55.5 - 35.5	Diagonal	L2 1/2x2 1/2x3/16	13	-2.62	16.14	16.2	Pass	
T1	55.5 - 35.5	Horizontal	L2 1/2x2 1/2x3/16	17	-1.27	29.34	4.3	Pass	
T1	55.5 - 35.5	Top Girt	L3x3x1/4	9	-0.18	48.99	0.4	Pass	
							Summary		
							Pole (L2)	13.5	Pass
							Leg (T1)	31.5	Pass
							Diagonal (T1)	16.2	Pass
							Horizontal (T1)	4.3	Pass
							Top Girt (T1)	0.4	Pass
							<b>RATING =</b>	<b>31.5</b>	<b>Pass</b>

<b>Structure Rating (max from all components) =</b>	<b>31.5%</b>
---	--------------

**Table 5 - Dish Twist/Sway Results for 60 mph Service Wind Speed**

Elevation (ft)	Dish Model	Beam Deflection		
		Deflection (in)	Tilt (deg)	Twist (deg)
-	-	-	-	-

#### 4.1) Recommendations

- 1) If the load differs from that described in Table 1 of this report or the provisions of this analysis are found to be invalid, another structural analysis should be performed.
- 2) The tower has sufficient capacity to carry the existing, proposed, and reserved loading. No modifications are required at this time.

# Exhibit E

## **Mount Analysis**

**(REVISED)**  
**STRUCTURAL ANALYSIS REPORT**

For

**AT&T SITE NUMBER: CT2124**  
TEP PROJECT NUMBER: 354184  
AT&T SITE NAME: DANBURY CENTRAL SBC CO  
39 West Street  
Danbury, CT 06810

**Antennas Mounted within FRP Enclosure on  
Tower on Roof**



**Prepared for:**



**Dated: February 16, 2023 (Rev. 3)**

December 9, 2022 (Rev. 2)

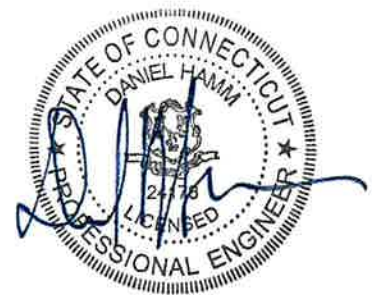
September 13, 2022 (Rev. 1)

June 29, 2022

**Prepared by:**



(TEP OPCO, LLC)  
45 Beechwood Drive  
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**SCOPE OF WORK:**

TEP Northeast (TEP NE) has been authorized by AT&T to conduct a structural evaluation of the pole structure supporting the proposed equipment located in the areas depicted in the latest TEP NE construction drawings.

This report represents this office's findings, conclusions and recommendations pertaining to the support of AT&T's proposed antennas listed below.

The following documents were used for our reference:

- Structural Analysis Report prepared by Hudson Design Group LLC dated April 4, 2019.

**CONCLUSION SUMMARY:**

Based on our evaluation, we have determined that the existing pole section **is in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. The tower structure is rated at **39.0 %** - (Pole Section 1 from EL.55.5' to EL.65' Controlling).

**ANALYSIS RESULTS SUMMARY:**

Component	Max. Stress Ratio	Elev. of Component (ft)	Pass/Fail	Comments
<b>Pole Section 1</b>	<b>39.0 %</b>	55.5 – 65'	PASS	<b>Controlling</b>
<b>Pole Section 2</b>	28.0 %	65' – 74'	PASS	

**POLE STRUCTURE REACTION SUMMARY:**

	Factored Reaction
<b>Axial</b>	2978 lbs.
<b>Shear</b>	882 lbs.
<b>Moment</b>	10221 lb.-ft

**APPURTENANCES CONFIGURATION:**

Tenant	Appurtenances	Elev.	Mount
AT&T	<b>(3) FRP Ring Mounts</b>	Varies	Tower Leg
AT&T	<b>(3) DMP655R-BU4EA-K Antennas</b>	69' – 2"	Tower Leg
AT&T	<b>(3) AIR6419 Antennas</b>	62' – 10"	Tower Leg
AT&T	<b>(3) AIR6449 Antennas</b>	59' – 4"	Tower Leg

\* Proposed equipment shown in bold.

\*\* Elevation to antenna centerline.

Note: This analysis only analyzes the existing pipe mast above the existing latticed structure that will support the proposed FRP enclosure and equipment within. The existing tower, steel platform, and building connections are to be analyzed by others.



### **DESIGN CRITERIA:**

1. EIA/TIA-222-H Structural Standards for Steel Antenna Towers and Antenna Supporting Structures  
County: Fairfield  
Ultimate Wind Speed: 120 mph  
Structural Class: II  
Exposure Category: B  
Topographic Category: 1  
Nominal Ice Thickness: 1 inch
2. Approximate height above grade to proposed antennas: 69' - 2", 62' - 10", and 59' - 4."

**\*Calculations and referenced documents are attached.**

### **ASSUMPTIONS:**

1. Reference the latest TEP NE construction drawings for all the equipment locations and details.
2. The pole structure is properly constructed and maintained. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. TEP NE is not responsible for any modifications completed prior to and hereafter which TEP NE was not directly involved.
4. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
5. If field conditions differ from what is assumed in this report, then the engineer of record is to be notified as soon as possible.

### **SUPPORT RECOMMENDATIONS:**

TEP NE recommends the proposed antennas are to be mounted on proposed pipe masts with the proposed FRP Enclosure secured to the existing pole structure with clamps and threaded rods. The existing pole structure is mounted on an existing self-support tower. The existing self-support tower is to be analyzed by others to account for the proposed loading.



**Photo 1:** Sample photo illustrating the existing upper section antenna mounts (to be removed and replaced).

# Exhibit F

## **Power Density/RF Emissions Report**



C Squared Systems, LLC  
65 Dartmouth Drive  
Auburn, NH 03032  
(603) 644-2800  
[support@csquaredsystems.com](mailto:support@csquaredsystems.com)

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## Calculated Radio Frequency Emissions Report



CT2124  
39 West Street, Danbury, CT

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May 19, 2023



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## 1. Introduction

The purpose of this report is to investigate compliance with applicable FCC regulations for the proposed installation of AT&T antenna arrays to be mounted at 54.5', 59.3', 62.8' and 69.1' AGL on top of a rooftop located at 39 West Street in Danbury, CT. The coordinates of the rooftop are 41° 23' 33.67" N, 73° 27' 14.60" W.

AT&T is proposing the following:

- 1) Install nine (9) multi-band antennas (three per sector) to support its commercial LTE network and the FirstNet National Public Safety Broadband Network ("NPSBN").
- 2) Maintain one (1) existing multi-band antenna per sector.

This report considers the planned antenna configuration for AT&T<sup>1</sup> to derive the resulting % MPE of its proposed installation.

## 2. FCC Guidelines for Evaluating RF Radiation Exposure Limits

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by OET Bulletin 65 Edition 97-01. These new rules include Maximum Permissible Exposure (MPE) limits for transmitters operating between 300 kHz and 100 GHz. The FCC MPE limits are based upon those recommended by the National Council on Radiation Protection and Measurements (NCRP), developed by the Institute of Electrical and Electronics Engineers, Inc., (IEEE) and adopted by the American National Standards Institute (ANSI).

The FCC general population/uncontrolled limits set the maximum exposure to which most people may be subjected. General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

Public exposure to radio frequencies is regulated and enforced in units of milliwatts per square centimeter (mW/cm<sup>2</sup>). The general population exposure limits for the various frequency ranges are defined in the attached "FCC Limits for Maximum Permissible Exposure (MPE)" in Attachment C of this report.

Higher exposure limits are permitted under the occupational/controlled exposure category, but only for persons who are exposed as a consequence of their employment and who have been made fully aware of the potential for exposure, and they must be able to exercise control over their exposure. General population/uncontrolled limits are five times more stringent than the levels that are acceptable for occupational, or radio frequency trained individuals. Attachment C contains excerpts from OET Bulletin 65 and defines the Maximum Exposure Limit.

Finally, it should be noted that the MPE limits adopted by the FCC for both general population/uncontrolled exposure and for occupational/controlled exposure incorporate a substantial margin of safety and have been established to be well below levels generally accepted as having the potential to cause adverse health effects.

---

<sup>1</sup> As referenced to TEP North East's Construction Drawings dated 04/24/2023.

### 3. RF Exposure Prediction Methods

The emission field calculation results displayed in the following figures were generated using the following formula as outlined in FCC bulletin OET 65:

$$\text{Power Density} = \left( \frac{GRF \times 1.64 \times ERP}{4\pi \times R^2} \right) \times \text{Off Beam Loss}$$

Where:

EIRP = Effective Isotropic Radiated Power

R = Radial Distance =  $\sqrt{(H^2 + V^2)}$

H = Horizontal Distance from antenna in meters

V = Vertical Distance from radiation center of antenna in meters

Off Beam Loss is determined by the selected antenna patterns

GRF = Ground Reflection Factor of 1.6

These calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings, etc.) that would normally attenuate the signal are not taken into account. The calculations assume even terrain in the area of study and do not take into account actual terrain elevations which could attenuate the signal. As a result, the predicted signal levels reported below are much higher than the actual signal levels will be from the final installations.

#### 4. Antenna Inventory

Table 1 below outlines AT&T's proposed antenna configuration for the site. The associated data sheets and antenna patterns for these specific antenna models are included in Attachments C.

Operator	Sector / Call Sign	TX Freq (MHz)	Power at Antenna (Watts)	Ant Gain (dBi)	Power EIRP (Watts)	Antenna Model	Beam Width	Mech. Tilt	Length (ft)	Antenna Centerline Height (ft)			
AT&T	Alpha / 30°	739	160	12.9	3119	DMP65-BU4EA-K	74	0	4.0	69.16			
		850	160	13.3	3420		63						
		1900	160	16.7	7483		71						
		2100	240	16.7	11225		71						
		763	160	13.6	3665	80010964	60.7				0	4.9	54.5
		2300	160	17.6	9207		54.6						
		3500	86.5	25.65	31770	AIR 6419	11				0	2.5	62.83
		3500	86.5	25.65	31770	AIR 6449	11				0	2.5	59.33
	Beta / 150°	739	160	12.9	3119	DMP65-BU4EA-K	74	0	4.0	69.166			
		850	160	13.3	3420		63						
		1900	160	16.7	7483		71						
		2100	240	16.7	11225		71						
		763	160	17.3	8592	80010964	60.7				0	4.9	54.5
		763	160	13.6	3665		54.6						
		2300	160	17.6	9207	AIR 6419	11				0	2.5	64.83
		3500	86.5	25.65	31770	AIR 6449	11				0	2.5	61.33
	Gamma / 270°	739	160	12.9	3119	DMP65-BU4EA-K	74	0	4.0	69.16			
		850	160	13.3	3420		63						
		1900	160	16.7	7483		71						
		2100	240	16.7	11225		71						
		763	160	13.6	3665	80010964	60.7				0	4.9	54.5
		2300	160	17.6	9207		54.6						
		3500	86.5	25.65	31770	AIR 6419	11				0	2.5	64.83
		3500	86.5	25.65	31770	AIR 6449	11				0	2.5	61.33

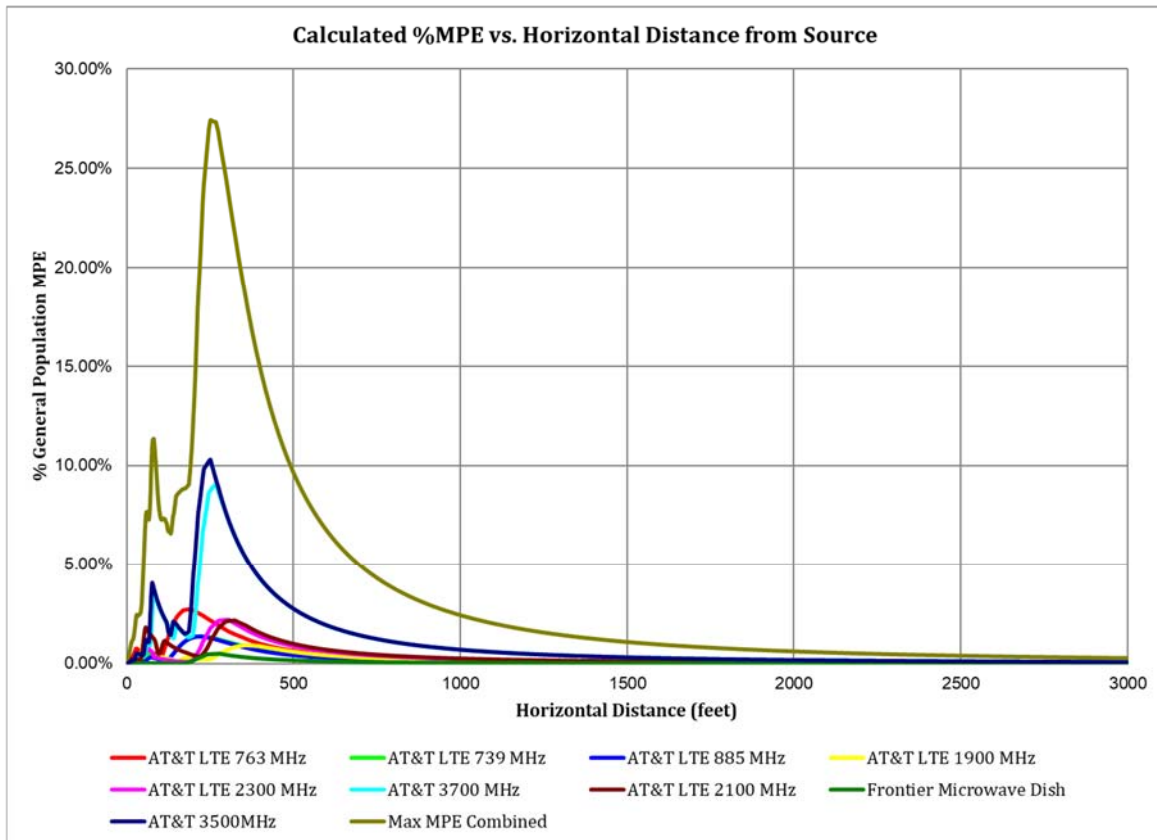
Table 1: Proposed Antenna Inventory<sup>2 3</sup>

<sup>2</sup> Antenna heights are in reference to the Hudson Design Group LLC. Construction Drawings, dated 04/24/2023.

<sup>3</sup> Transmit power assumes 0 dB of cable loss.

## 5. Calculation Results

The calculated power density results are shown in Figure 1 below. For completeness, the calculations for this analysis range from 0 feet horizontal distance (directly below the antennas) to a value of 3,000 feet horizontal distance from the site. In addition to the other worst-case scenario considerations that were previously mentioned, the power density calculations to each horizontal distance point away from the antennas was completed using a local maximum off beam antenna gain (within  $\pm 5$  degrees of the true mathematical angle) to incorporate a realistic worst-case scenario.



**Figure 1: Graph of General Population % MPE vs. Distance**

The highest percent of MPE (27.41% of the General Population limit) is calculated to occur at a horizontal distance of 251 feet from antennas. Please note that the percent of MPE calculations close to the site take into account off beam loss, which is determined from the vertical pattern of the antennas used. Therefore, RF power density levels may increase as the distance from the site increases. At distances of approximately 1500 feet and beyond, one would now be in the main beam of the antenna pattern and off beam loss is no longer considered. Beyond this point, RF levels become calculated solely on distance from the site and the percent of MPE decreases significantly as distance from the site increases.

Table 2 below lists percent of MPE values as well as the associated parameters that were included in the calculations. The highest percent of MPE value was calculated to occur at a horizontal distance of 251 feet from the site (reference Figure 1).

As stated in Section 3, all calculations assume that the antennas are operating at 100 percent capacity, that all antenna channels are transmitting simultaneously, and that the radio transmitters are operating at full power. Obstructions (trees, buildings etc.) that would normally attenuate the signal are not taken into account. In addition, a six-foot height offset was considered in this analysis to account for average human height. As a result, the predicted signal levels are significantly higher than the actual signal levels will be from the final configuration. The results presented in Figure 1 and Table 2 assume level ground elevation from the base of the tower out to the horizontal distances calculated.

Carrier	Number of Transmitters	Power out of Base Station Per Transmitter (Watts)	Antenna Height (Feet)	Distance to the Base of Antennas (Feet)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	% MPE
AT&T 3500MHz	1	86.5	59.3	251	0.102955	1.000	10.30%
AT&T 3700 MHz	1	86.5	62.8	251	0.087577	1.000	8.76%
AT&T LTE 1900 MHz	1	160.0	69.1	251	0.002193	1.000	0.22%
AT&T LTE 2100 MHz	1	240.0	69.1	251	0.011264	1.000	1.13%
AT&T LTE 2300 MHz	1	160.0	54.5	251	0.017811	1.000	1.78%
AT&T LTE 739 MHz	1	160.0	69.1	251	0.006492	0.493	1.32%
AT&T LTE 763 MHz	1	160.0	54.5	251	0.011009	0.509	2.16%
AT&T LTE 885 MHz	1	160.0	69.1	251	0.007548	0.590	1.28%
Frontier Microwave Dish	1	1.0	35.5	251	0.004706	1.000	0.47%
<b>Total</b>							<b>27.41%</b>

**Table 2: Maximum Percent of General Population Exposure Values**

## 6. Conclusion

The above analysis verifies that RF exposure levels from the site with AT&T's proposed antenna configuration will be well below the maximum permissible levels as outlined by the FCC in the OET Bulletin 65 Ed. 97-01. Using the conservative calculation methods and parameters detailed above, the maximum cumulative percent of MPE in consideration of all transmitters is calculated to be **27.41% of the FCC limit (General Population/Uncontrolled)**. This maximum cumulative percent of MPE value is calculated to occur 251 feet away from the site.

## 7. Statement of Certification

I certify to the best of my knowledge that the statements in this report are true and accurate. The calculations follow guidelines set forth in ANSI/IEEE Std. C95.3, ANSI/IEEE Std. C95.1 and FCC OET Bulletin 65 Edition 97-01.



Report Prepared By:

\_\_\_\_\_  
Ram Acharya  
RF Engineer 1  
C Squared Systems, LLC

May 18, 2023

Date



Reviewed/Approved By:

\_\_\_\_\_  
Martin J. Lavin  
Senior RF Engineer  
C Squared Systems, LLC

May 19, 2023

Date

## **Attachment A: References**

OET Bulletin 65 - Edition 97-01 - August 1997 Federal Communications Commission Office of Engineering & Technology

IEEE C95.1-2005, IEEE Standard Safety Levels With Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz IEEE-SA Standards Board

IEEE C95.3-2002 (R2008), IEEE Recommended Practice for Measurements and Computations of Radio Frequency Electromagnetic Fields With Respect to Human Exposure to Such Fields, 100 kHz-300 GHz IEEE-SA Standards Board



**Attachment B: FCC Limits for Maximum Permissible Exposure (MPE)**

<b>(A) Limits for Occupational/Controlled Exposure<sup>4</sup></b>				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842/f	4.89/f	(900/f <sup>2</sup> )*	6
30-300	61.4	0.163	1.0	6
300-1500	-	-	f/300	6
1500-100,000	-	-	5	6

<b>(B) Limits for General Population/Uncontrolled Exposure<sup>5</sup></b>				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (E) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> ,  H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f <sup>2</sup> )*	30
30-300	27.5	0.073	0.2	30
300-1500	-	-	f/1500	30
1500-100,000	-	-	1.0	30

f = frequency in MHz \* Plane-wave equivalent power density

**Table 3: FCC Limits for Maximum Permissible Exposure**

<sup>4</sup> Occupational/controlled limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

<sup>5</sup> General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.

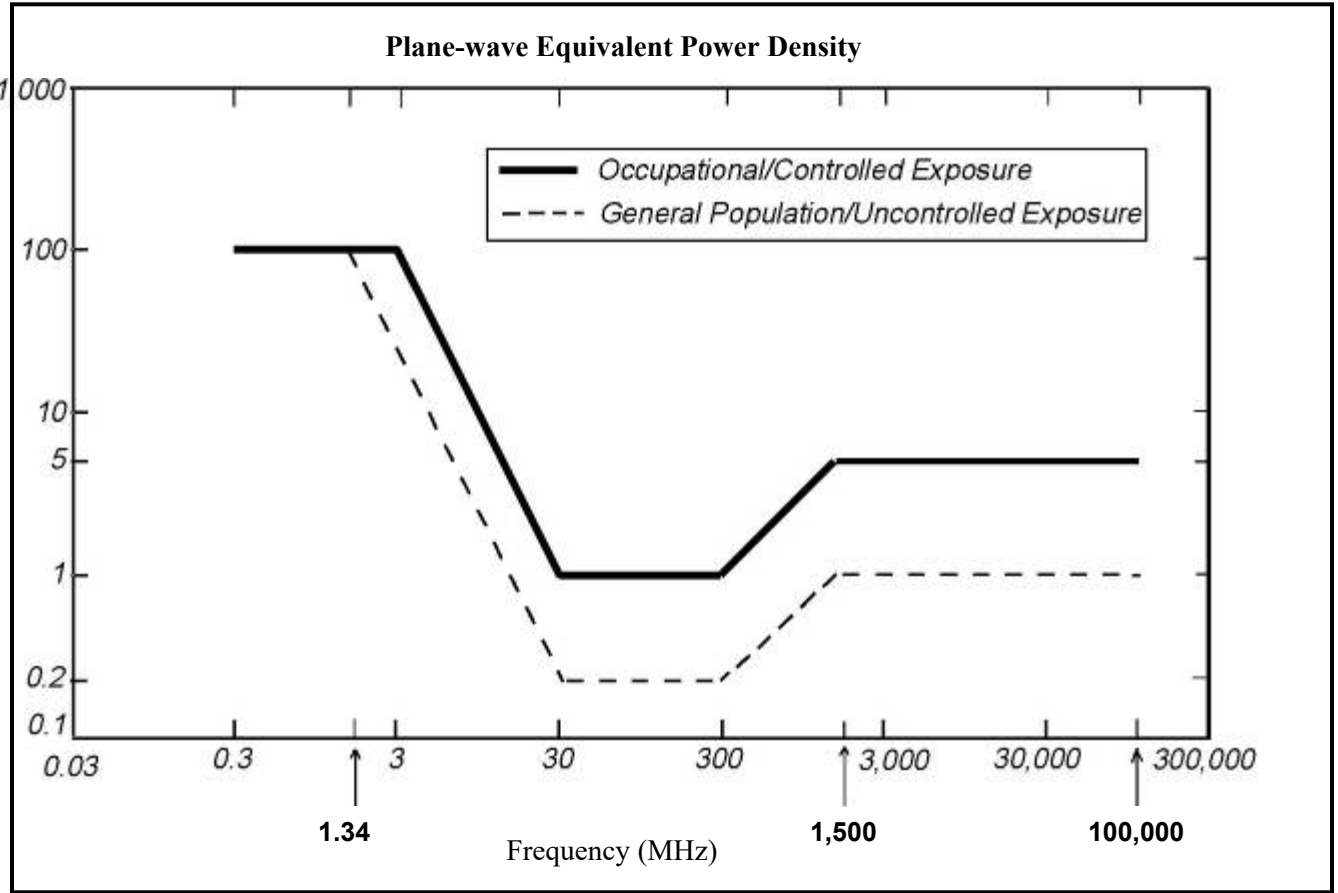
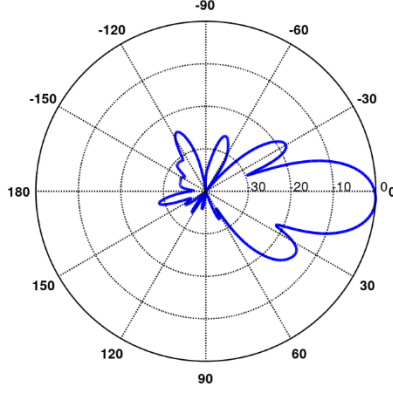
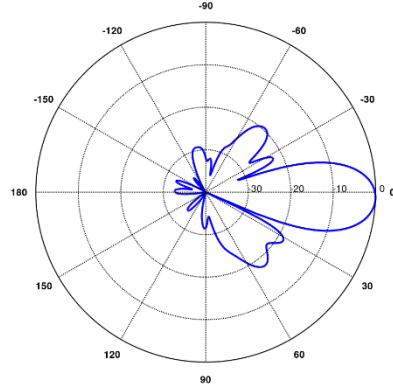
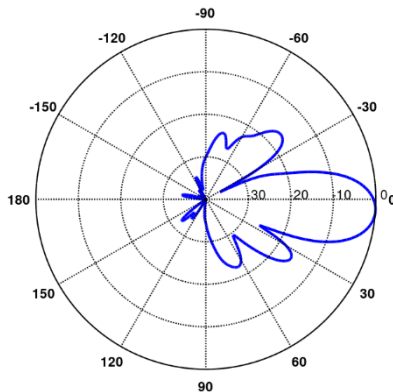
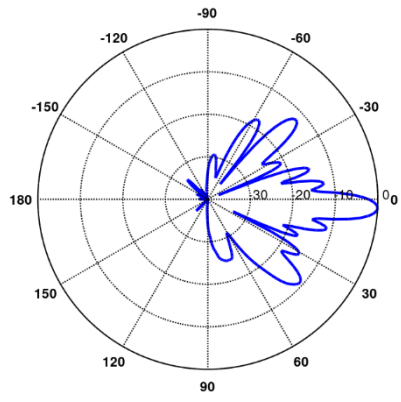
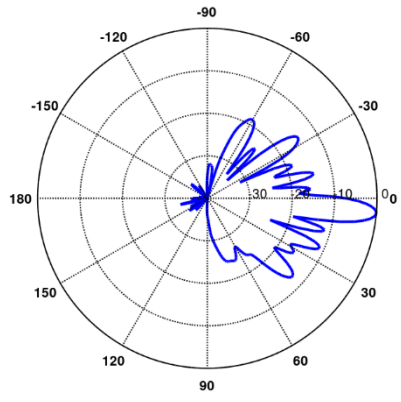
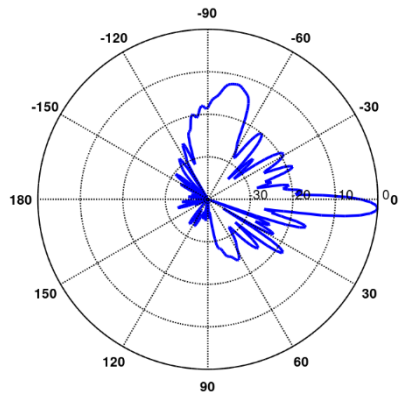


Figure 2: Graph of FCC Limits for Maximum Permissible Exposure (MPE)


### Attachment C: AT&T Mobility Antenna Model Data Sheets and Electrical Patterns

<p><b>739 MHz</b></p> <p>Manufacturer: CCI            Model #: DMP65R-BU4EA-K            Frequency Band: 698-798 MHz            Gain: 12.9 dBi            Vertical Beamwidth: 20.1°            Horizontal Beamwidth: 74°            Polarization: Dual Linear 45°            Dimensions (L x W x D): 48" x 20.7" x 9.7"</p>	
<p><b>763 MHz</b></p> <p>Manufacturer: KATHREIN            Model #: 80010964            Frequency Band: 698-806            Gain: 13.6            Vertical Beamwidth: 17.8            Horizontal Beamwidth: 64.6            Polarization: ±45            Dimensions (L x W x D): 59.0" x 20.0" x 6.9"</p>	
<p><b>885 MHz</b></p> <p>Manufacturer: CCI            Model #: DMP65R-BU4EA-K            Frequency Band: 824-896 MHz            Gain: 13.3 dBi            Vertical Beamwidth: 17.7°            Horizontal Beamwidth: 63°            Polarization: Dual Linear 45°            Dimensions (L x W x D): 48" x 20.7" x 9.7"</p>	

<p><b>1900 MHz</b></p> <p>Manufacturer: CCI  Model #: DMP65R-BU4EA-K  Frequency Band: 1920-2180 MHz  Gain: 16.7 dBi  Vertical Beamwidth: 6.8°  Horizontal Beamwidth: 71°  Polarization: Dual Linear 45°  Dimensions (L x W x D): 48" x 20.7" x 9.7"</p>	
<p><b>2100 MHz</b></p> <p>Manufacturer: CCI  Model #: DMP65R-BU4EA-K  Frequency Band: 1920-2180 MHz  Gain: 16.7 dBi  Vertical Beamwidth: 6.8°  Horizontal Beamwidth: 71°  Polarization: Dual Linear 45°  Dimensions (L x W x D): 48" x 20.7" x 9.7"</p>	
<p><b>2300 MHz</b></p> <p>Manufacturer: KATHREIN  Model #: 80010964  Frequency Band: 2300-2400  Gain: 17.7 dBi  Vertical Beamwidth: 5.2  Horizontal Beamwidth: 53.6  Polarization: ±45  Dimensions (L x W x D): 59.0" x 20.0" x 6.9"</p>	

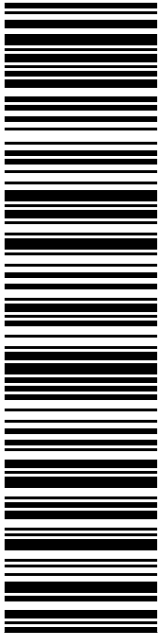
# Exhibit G

## Recipient Mailings



MAYOR DEAN ESPOSITO  
CITY OF DANBURY  
CC: SHARON CALITRO, DIR P & Z  
155 DEER HILL AVE  
DANBURY CT 06810-7726

**USPS TRACKING #**



**9405 5036 9930 0549 9652 96**

QC DEVELOPMENT  
5900 BALCONES DR STE 8148  
AUSTIN TX 78731-4257

Expected Delivery Date: 05/30/23

**0000**

**P**

usps.com 9405 5036 9930 0549 9652 96 0096 5000 0030 6810


US POSTAGE  
Flat Rate Env

U.S. POSTAGE PAID  
Click-N-Ship®

Mailed from 05676 9867566574710175

**PRIORITY MAIL®**


**C005**



UNITED STATES  
POSTAL SERVICE®

**Click-N-Ship®**

Electronic Rate Approved #038555749





Cut on dotted line.

## Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

## Click-N-Ship® Label Record

**USPS TRACKING # :**  
**9405 5036 9930 0549 9652 96**

Trans. #:	588880618	Priority Mail® Postage:	<b>\$9.65</b>
Print Date:	05/23/2023	Total:	<b>\$9.65</b>
Ship Date:	05/26/2023		
Expected Delivery Date:	05/30/2023		

**From:** QC DEVELOPMENT  
5900 BALCONES DR STE 8148  
AUSTIN TX 78731-4257

**To:** MAYOR DEAN ESPOSITO  
CITY OF DANBURY  
CC: SHARON CALITRO, DIR P & Z  
155 DEER HILL AVE  
DANBURY CT 06810-7726

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!  
Check the status of your shipment on the USPS Tracking® page at usps.com

Tracking Number:

Remove X

## 9405503699300549965296

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

Expected Delivery on

**TUESDAY**

**30** May 2023 ⓘ

between

**6:15am and 10:15am** ⓘ

Your item arrived at the hub at 9:48 am on May 29, 2023 in DANBURY, CT 06810.

Feedback

Get More Out of USPS Tracking:

**USPS Tracking Plus<sup>®</sup>**

Delivered

Out for Delivery

**Preparing for Delivery**

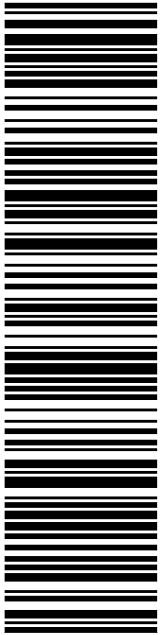
**Arrived at Hub**

DANBURY, CT 06810  
May 29, 2023, 9:48 am

**Arrived at USPS Facility**


DANBURY, CT 06810  
May 29, 2023, 5:47 am

**See All Tracking History**



**USPS TRACKING #**  
**9405 5036 9930 0549 9653 02**

Electronic Rate Approved #038555749



SOUTHERN NEW ENGLAND TELEPHONE  
C/O FRONTIER COMMUNICATIONS  
DUFF & PHELPS LLC  
PO BOX 2629  
ADDISON TX 75001-2629

**P**

usps.com 9405 5036 9930 0549 9653 02 0096 5000 0077 5001

**US POSTAGE**  
Flat Rate Envoy

**U.S. POSTAGE PAID**  
Click-N-Ship®

Mailed from 05676 9867566574709075

**PRIORITY MAIL®**

QC DEVELOPMENT  
5900 BALCONES DR STE 8148  
AUSTIN TX 78731-4257

Expected Delivery Date: 05/30/23

**B032**

**0000**

✂ ————— Cut on dotted line. —————

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3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, **DO NOT TAPE OVER BARCODE.** Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

### Click-N-Ship® Label Record

**USPS TRACKING # :**  
**9405 5036 9930 0549 9653 02**

Trans. #: 588880618	Priority Mail® Postage: <b>\$9.65</b>
Print Date: 05/23/2023	Total: <b>\$9.65</b>
Ship Date: 05/26/2023	
Expected Delivery Date: 05/30/2023	

**From:** QC DEVELOPMENT  
5900 BALCONES DR STE 8148  
AUSTIN TX 78731-4257

**To:** SOUTHERN NEW ENGLAND TELEPHONE  
C/O FRONTIER COMMUNICATIONS  
DUFF & PHELPS LLC  
PO BOX 2629  
ADDISON TX 75001-2629

\* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Tracking Number:

Remove X

## 9405503699300549965302

Copy

Add to Informed Delivery (<https://informedelivery.usps.com/>)

Expected Delivery by

**TUESDAY**

**30** May 2023 ⓘ | by **9:00pm** ⓘ

Your item arrived at our COPPELL TX DISTRIBUTION CENTER destination facility on May 29, 2023 at 9:23 am. The item is currently in transit to the destination.

Feedback

Get More Out of USPS Tracking:

**USPS Tracking Plus<sup>®</sup>**

Delivered

Out for Delivery

Preparing for Delivery

**Processing at Destination**

**Arrived at USPS Regional Destination Facility**

COPPELL TX DISTRIBUTION CENTER

May 29, 2023, 9:23 am

**In Transit to Next Facility**

May 28, 2023

**See All Tracking History**