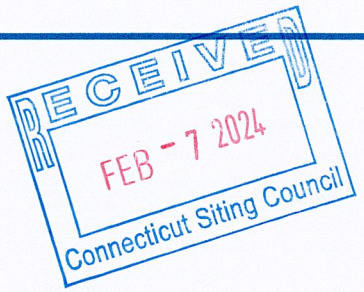
CENTERLINE COMMUNICATIONS

768 Southleaf Dr.
Virginia Beach, VA 23462
aconwell@clinellc.com
215.588.7035

February 2, 2023



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

Re: Notice of Exempt Modifications – AT&T Site CT1205
AT&T Telecommunications Facility @ Burr Mountain Road Torrington, CT 06790

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC ("AT&T") currently maintains a wireless telecommunications facility on an existing +/- 199' monopole tower at the above referenced address, latitude 41.8732800, longitude -73.0886000. Said monopole tower is owned and managed by SBA.

AT&T desires to modify its existing telecommunications facility by replacing three (3) antennas, and replacing three (3) RRUs as more particularly detailed and described on the enclosed Construction Drawings prepared by Centerline, last revised on February 2, 2024. The centerline height of the existing antennas is and will remain at 173 feet.

Please accept this letter as notification pursuant to R.C.S.A §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 the following individuals: Elinor Carbone, Mayor of the City of Torrington: Jeremy Leifert, City Planner for the City of Torrington: SBA as tower owner and O&G Industries Inc as 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). Specifically:

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an 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 modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commissions safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alternation in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated January 26, 2024 and prepared by TES enclosed herewith.

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).

Best Regards,

Allison Conwell
Site Acquisition Consultant – Agent for AT&T
Centerline Communications LLC
750 West Center St. Ste 301
West Bridgewater, MA 02379
215-588-7035
aconwell@clinellc.com

Enclosures:
Exhibit 1 – Construction Drawings
Exhibit 2 – Property Card and GIS
Exhibit 3 – Structural Analysis
Exhibit 4 – Mount Analysis
Exhibit 5 – RF Emissions Analysis Report Evaluation
Exhibit 6 – Available City of Torrington Original Tower Approval Records
Exhibit 7 – Notice Deliver Confirmations

Cc:
Elinor Carbone, as elected official, City of Torrington
Jeremy Leifert, City Planner, City of Torrington
George O'Neil, American Tower Company, as tower owner
O&G Industries Inc as property owner

EXHIBIT 1

PROJECT INFORMATION

TOWER OWNER:	SBA
SITE NAME:	TORRINGTON – BURR MT ROAD
SITE ADDRESS:	BURR MOUNTAIN ROAD TORRINGTON, CT 06790
LATITUDE:	41° 52' 23.7" N
LONGITUDE:	73° 05' 18.3" W
TOWER HEIGHT:	198'–0"± AGL
RAD CENTER:	173'–0"± AGL
COUNTY:	LITCHFIELD

DESCRIPTION OF WORK:

TELECOMMUNICATIONS FACILITY UPGRADE (5G NR RADIO, 5G NR 1DR–1, 4TX4RX):

MONOPOLE:

INSTALL:
(3) TPA65R–BU6DA–K ANTENNAS (ONE PER SECTOR)
(3) 4890 B2/B66A RRUS (ONE PER SECTOR)

REMOVE:
(3) 800–10965 ANTENNAS (ONE PER SECTOR)
(3) RRUS–12 B2 (ONE PER SECTOR)

EXISTING TO REMAIN:
(3) 7770 ANTENNAS (ONE PER SECTOR)
(3) 800–10965 ANTENNAS (ONE PER SECTOR)
(6) LGP17201 TMA (TWO PER SECTOR)
(3) 4449 B5/B12 (ONE PER SECTOR)
(3) 4478 B14 (ONE PER SECTOR)
(3) RRUS–32 B30 (ONE PER SECTOR)
(2) DC6–48–60–18–8C SURGE ARRESTOR
(1) DC6–48–60–18–8F SURGE ARRESTOR
(3) 18 PAIR FIBER
(6) 8 AWG DC LINES
(6) LINES OF 1–5/8" COAX

EQUIPMENT AREA/GROUND:

EXISTING TO REMAIN:
(1) 5216
(2) XMU

INSTALL:
(2) 6651 WTIH XCEDE CABLE

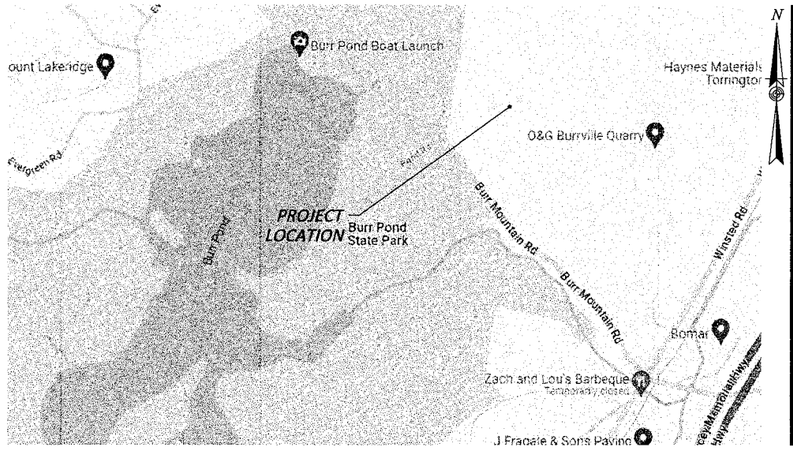
PROJECT DIRECTORY

A&E / PROJECT MANAGER:
CENTERLINE COMMUNICATIONS
750 WEST CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
CONTACT: DAVID FORD
PHONE 844.748.8878

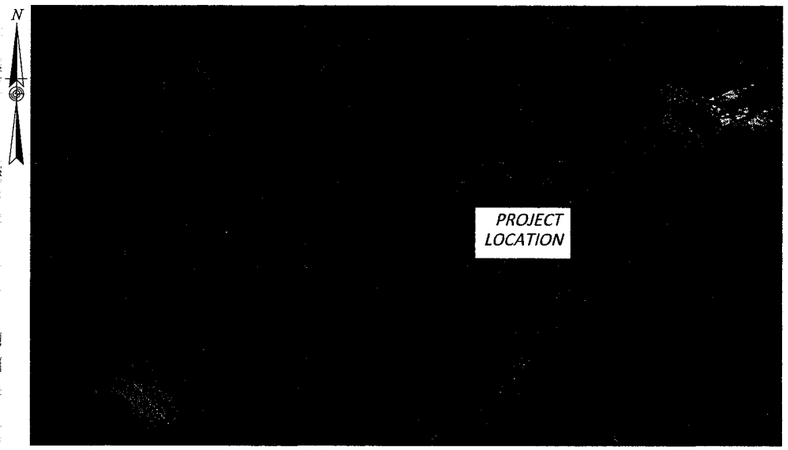
APPLICANT:
AT&T MOBILITY CORP.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

AT&T

SITE NUMBER: CTL01205
FA# 10035404
SITE NAME: TORRINGTON - BURR MT ROAD (CTL01205)
PACE ID: MRCTB0068579, MRCTB068580, MRCTB068655, MRCTB068656
PROJECT: 5G NR RADIO, 5G NR 1DR-1, 4TX4RX



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

DIRECTIONS:

HEAD NORTHEAST TOWARD LEGGAITT MCCALL CONN. TURN LEFT ONTO LEGGATT MCCALL CONN. CONTINUE ONTO BURR ST. TURN LEFT ONTO COCHITUATE RD. TAKE RAMP TO I–90 E/MASSPIKE W/SPRINGFIELD/BOSTON. KEEP LEFT AT THE FORK FOLLOW SINGS TO I–90 W/MASSPIKE/WORCESTER/SPRINGFIELD AND MERGE ONTO I–90 W/MASSPIKE. MERGE ONTO I–90 W/MASSPIKE. TAKE EXIT 9 FOR I–84 TOWARD US–20/HARTFORD/NEW YORK CITY. CONTINUE ONTO I–84. TAKE EXIT 39 TOWARD FARMINGTON/CT–4. CONTINUE ONTO STATE HWY 508. STATE HWY 508 TURNS SLIGHTLY RIGHT AND BECOMES CT–4. SLIGHT RIGHT ON CT–4 W. CONTINUE ONTO CT–179 N. TURN RIGHT ONTO BRIDGE ST. TURN LEFT ONTO CT–179 N/RIBER RD. TURN LEFT ONTO US–202 W. TURN RIGHT ONTO CEDAR LN. TURN RIGHT ONTO TORRINGFORD ST. TURN LEFT ONTO GREENWOODS RD. CONTINUE ONTO BURR MOUNTAIN RD.

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 PURPOSE 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 REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DRAWING INDEX

NO.	DESCRIPTION	REV.	DATE
T–1	TITLE SHEET	3	02/02/24
GN–1	GENERAL NOTES	3	02/02/24
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A–2	ANTENNA LAYOUT & ELEVATIONS	3	02/02/24
A–3	DETAILS	3	02/02/24
SN–1	STRUCTURAL NOTES	3	02/02/24
RF–1	RF PLUMBING DIAGRAM	3	02/02/24
G–1	GROUNDING DETAILS	3	02/02/24

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500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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750 W CENTER ST, SUITE 301
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PHONE: 781.713.4725

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DESIGNED BY:	APPROVED BY:
TG	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28554
LICENSED PROFESSIONAL ENGINEER

811 DigSafe MA·ME·NH·RI·VT

SITE NAME:
TORRINGTON – BURR MT ROAD

SITE NUMBER:
CTL01205

SITE ADDRESS:
BURR MOUNTAIN ROAD
TORRINGTON, CT 06790

PROJECT TYPE:
5G NR RADIO, 5G NR 1DR–1, 4TX4RX

SHEET TITLE:
TITLE SHEET

DRAWING #: T–1 REVISION: 3

GENERAL NOTES

1. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR – CENTERLINE COMMUNICATIONS
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. TOUCHUP 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 MOBILITY 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 2015 & CONNECTICUT STATE BUILDING CODE 2018
ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE
LIGHTNING CODE: NFPA 780–2017

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, FIFTEENTH EDITION;

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222–H, STRUCTURAL STANDARDS FOR STEEL

ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES; REFER TO ELECTRICAL DRAWINGS FOR SPECIFIC ELECTRICAL STANDARDS.

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.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	G.C.	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
AWG	AMERICAN WIRE GAUGE	MGB	MASTER GROUND BUS		
BCW	BARE COPPER WIRE	MIN	MINIMUM	TBD	TO BE DETERMINED
BTS	BASE TRANSCEIVER STATION	PROPOSED	NEW	TBR	TO BE REMOVED
EXISTING	EXISTING	N.T.S.	NOT TO SCALE	TBRR	TO BE REMOVED AND REPLACED
EG	EQUIPMENT GROUND	REF	REFERENCE	TYP	TYPICAL
EGR	EQUIPMENT GROUND RING	REQ	REQUIRED		

RF NOTES

1. ACTUAL LENGTHS SHALL BE DETERMINED PER SITE CONDITION BY SUBCONTRACTOR

2. THE DESIGN IS BASED ON RF DATA SHEETS, SIGNED AND APPROVED.

3. RADIO SIGNAL CABLE AND RACEWAY SHALL COMPLY WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE (NEC, NFPA 70), CHAPTER 8.

4. ALL SPECIFIED MATERIAL FOR EACH LOCATION (E.G. OUT DOORS–OCCUPIED, INDOORS–UNOCCUPIED, PLENUMS, RISER SHAFTS, ETC.) SHALL BE APPROVED, LISTED, OR LABELED AS REQUIRED BY THE NEC.

5. RADIO SIGNAL CABLE SHALL BE SUPPORTED AT MINIMUM OF EVERY THREE (3) FEET EXCEPT INSIDE MONOPOLES OR MONOPOLES WHERE CABLE AND CONNECTOR MANUFACTURERS SUPPORT RECOMMENDATIONS SHALL BE FOLLOWED. MANUFACTURER RECOMMENDATION CABLES SUPPORT ACCESSORIES SHALL BE USED.

6. THE OUTDOOR CABLE SUPPORT SYSTEM SHALL BE PROVIDED WITH AN ICE SHIELD TO SUPPORT AND PROTECT ANTENNA CABLE RUNS.

7. DRIP LOOPS SHALL BE REQUIRED ON ALL OUTSIDE CABLES. CABLES SHALL BE SLOPED AWAY FROM BUILDING OR OUTDOOR BTS CABINETS TO PREVENT WATER FROM ENTERING THROUGH THE COAXIAL CABLE PORT.

8. ALL FEEDER LINE AND JUMPER CONNECTORS SHALL BE 7/16 DIN CABLE CONNECTORS THAT MEET IP68 STANDARDS.

9. 7/16 DIN CONNECTORS REQUIRE NO ADDITIONAL WEATHER PROOFING IN INDOOR APPLICATIONS IF INSTALLED AND TORQUED PROPERLY. IN OUTDOOR APPLICATIONS WEATHER PROOFING IS REQUIRED AND THE FOLLOWING PROCEDURE SHOULD BE FOLLOWED.

10. USING WEATHERPROOFING KIT APPROVED BY CABLE MANUFACTURER AND CONTRACTOR START TAPE APPROXIMATELY 5 INCHES FROM THE CONNECTOR, AND WRAP 2 INCHES TOWARD THE CONNECTOR, THEN REVERSE THE TAPE SO THAT THE STICKY SIDE IS UP. TAPE OVER THE CONNECTOR OR SURGE ARRESTOR UNTIL THREE (3) TO FOUR (4) INCHES BEYOND THE CONNECTOR AND REVERSE AGAIN WITH THE STICKY SIDE DOWN FOR ANOTHER INCH OR TWO. PASS THE BUTYL RUBBER AND FINISH WITH A FINAL LAYER OF TAPE.

11. ANTENNAS SHALL BE PAINTED,WHEN REQUIRED, BY THE LANDLORD OR AUTHORITY OF HAVING JURISDICTION IN ACCORDANCE WITH ANTENNA MANUFACTURERS' SURFACES PREPARATION AND PAINTING REQUIREMENTS.

12. CABLE SHIELDS AND TOWER CONDUITS SHALL BE GROUNDED AT THE TOP OF THE TOWER WITHIN 10 FEET OF THEIR CONNECTORS, AND AT THE BOTTOM OF THE TOWER ABOUT 6 INCHES BEFORE THEY TURN TOWARD THE FACILITY. THEY SHALL BE GROUNDED AT THE MIDPOINT OF THE TOWERS THAT ARE BETWEEN 60 FEET AND 200 FEET HIGH, AND AT INTERVALS OF 60 FEET OR LESS ON TOWERS THAT ARE HIGHER THAN 200 FEET.

ANTENNA CABLE AND SCHEDULING NOTES

1. SUBCONTRACTOR SHALL VERIFY THE ACTUAL LENGTH IN THE FIELD BEFORE INSTALLATION.

2. TAG AND COLOR CODE ALL MAIN CABLES AT LOCATIONS PER AT&T ANTENNA CABLE MARKING STANDARD:

- TOP OF TOWER END OF MAIN COAX
- BOTTOM OF TOWER END OF MAIN COAX
- DIRECTLY BEFORE AND AFTER RF EQUIPMENT
- END OF JUMPERS AT BTS EQUIPMENT

3. ANTENNAS SHALL BE PROCURED AND INSTALLED WITH DOWN TILT MOUNTING BRACKETS SUPPLIED BY ANTENNA MANUFACTURER.

4. PRIOR APPROVAL IS REQUIRED BEFORE PERFORMING ANY WORK ON EXISTING CELL SITE EQUIPMENT.

AT&T
AT&T MOBILITY CORP.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

CENTERLINE
ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
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NO.	DATE	DESCRIPTION

DESIGNED BY:	APPROVED BY:
TG	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28551
LICENSED PROFESSIONAL ENGINEER

SITE NAME:
TORRINGTON – BURR MT ROAD

SITE NUMBER:
CTL01205

SITE ADDRESS:
BURR MOUNTAIN ROAD
TORRINGTON, CT 06790

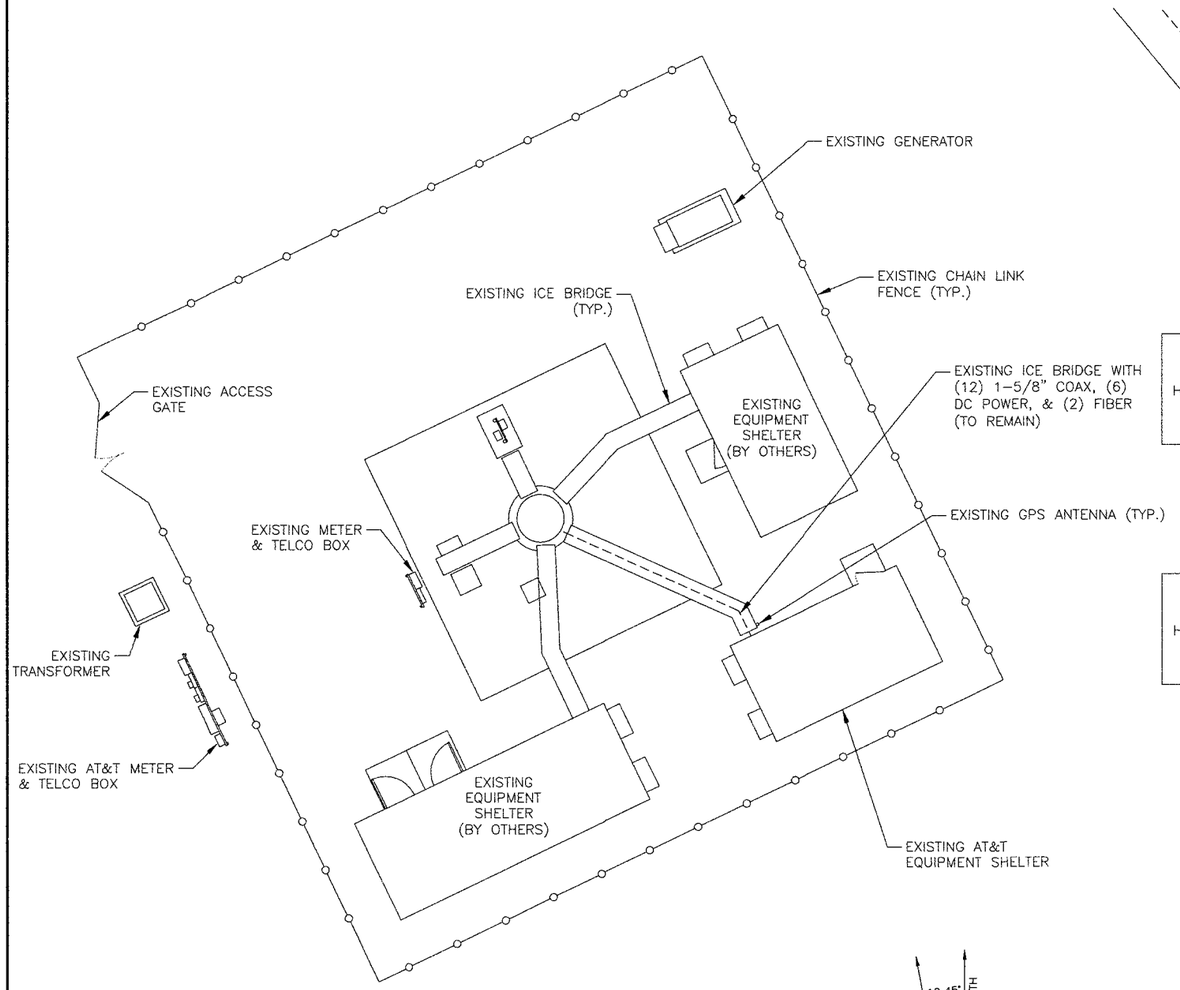
PROJECT TYPE:
5G NR RADIO, 5G NR 1DR–1, 4TX4RX

SHEET TITLE:
GENERAL NOTES

DRAWING #:	REVISION:
GN–1	3

NOTES:

1. REFERENCE STRUCTURAL ANALYSIS BY OTHERS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

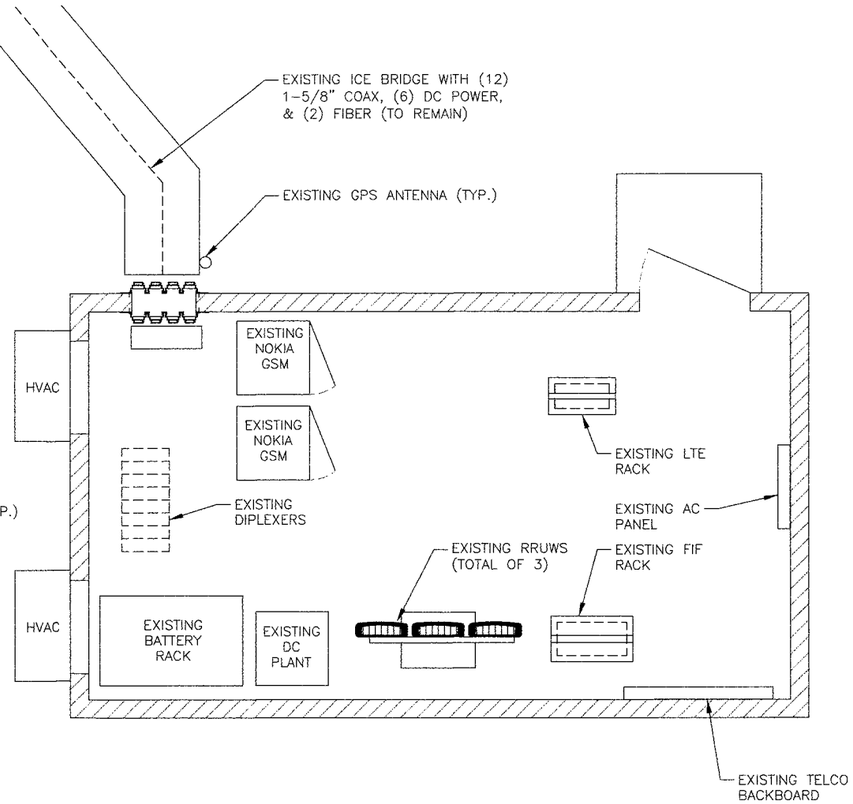


COMPOUND PLAN

SCALE: 1/8" = 1'-0" (22"X34")
1/16" = 1'-0" (11"X17")

GRAPHIC SCALE

8 0 4 8 16 32
(IN FEET)



EQUIPMENT PLAN

SCALE: 1/2" = 1'-0" (22"X34")
1/4" = 1'-0" (11"X17")

GRAPHIC SCALE

2 0 1 2 4 8
(IN FEET)

AT&T

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DESIGNED BY:	APPROVED BY:
TG	DC

SITE NAME:
TORRINGTON – BURR MT ROAD

SITE NUMBER:
CTL01205

SITE ADDRESS:
BURR MOUNTAIN ROAD
TORRINGTON, CT 06790

PROJECT TYPE:
5G NR RADIO, 5G NR 1DR-1, 4TX4RX

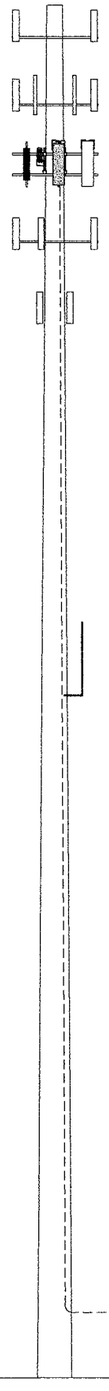
SHEET TITLE:
COMPOUND AND EQUIPMENT PLAN

DRAWING #: A-1

REVISION: 3

TOP OF EXISTING MONOPOLE
ELEV: 198'-0" AGL

C.L. OF PROPOSED ANTENNAS
ELEV: 173'-0" AGL



GROUND LEVEL
ELEV: 0'-0" AGL

3'-0" MIN.

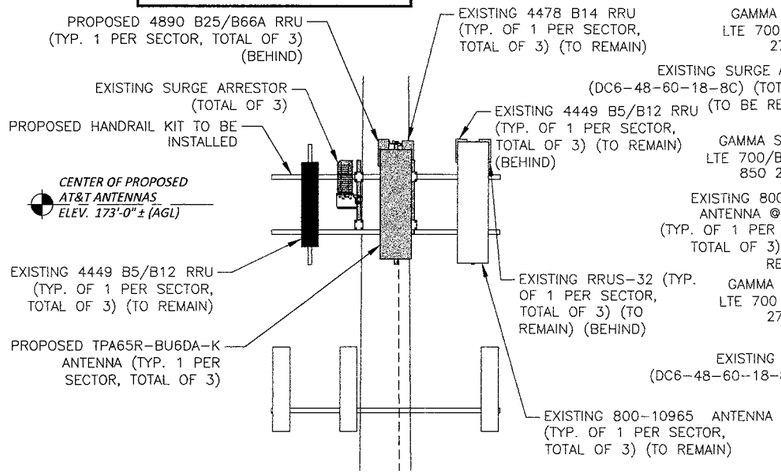
TOWER ELEVATION

SCALE: 3/32" = 1'-0" (22"X34")
3/64" = 1'-0" (11"X17")

GRAPHIC SCALE
5'-4" 0 5'-4" 10'-8" 21'-4" 42'-8"
(IN FEET)

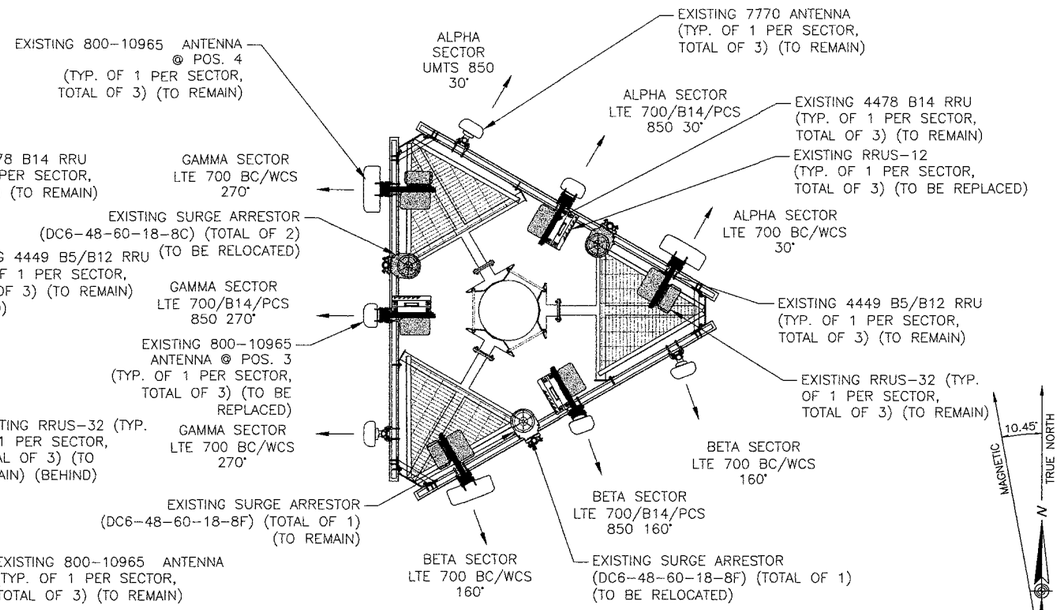
NOTES:

1. REFERENCE STRUCTURAL ANALYSIS BY OTHERS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.



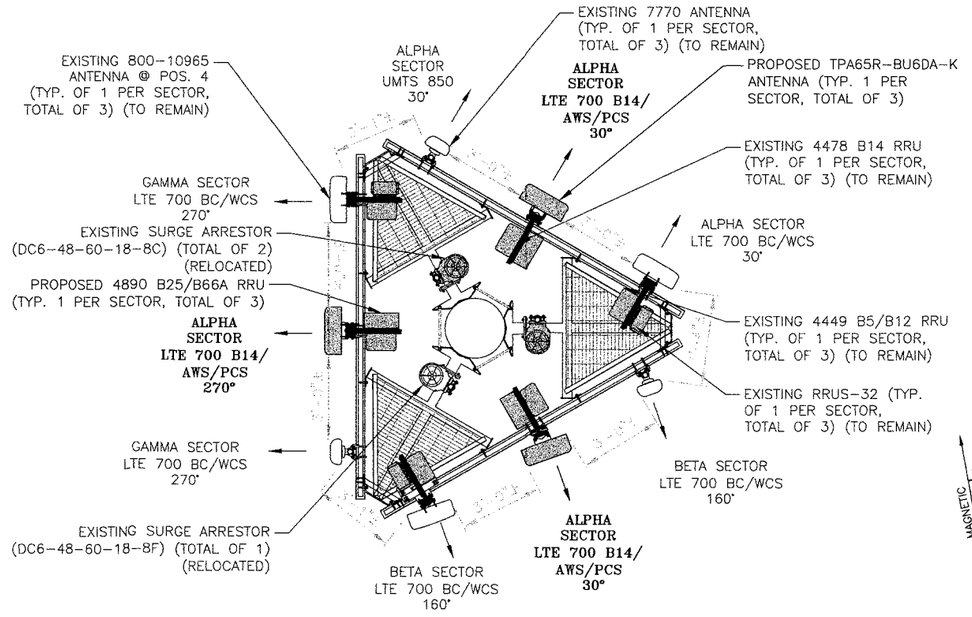
ENLARGED ANTENNA ELEVATION

SCALE: N.T.S



EXISTING ANTENNA CONFIGURATION

SCALE: N.T.S



PROPOSED ANTENNA CONFIGURATION

SCALE: N.T.S

AT&T
AT&T MOBILITY CORP.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

CENTERLINE
ENGINEERING SERVICES, PA
750 W CENTER ST, SUITE 301
WEST BRIDGEWATER, MA 02379
PHONE: 781.713.4725

REVISIONS		
NO.	DATE	DESCRIPTION
3	02/02/24	FOR PERMITTING
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1	01/10/24	REVISED PER COMMENTS
0	12/19/23	ISSUED FOR REVIEW

DESIGNED BY:	APPROVED BY:
TG	DC

STATE OF CONNECTICUT
DEREK J. CREASER
No. 28551
LICENSED PROFESSIONAL ENGINEER

SITE NAME:
TORRINGTON – BURR MT ROAD

SITE NUMBER:
CTL01205

SITE ADDRESS:
BURR MOUNTAIN ROAD
TORRINGTON, CT 06790

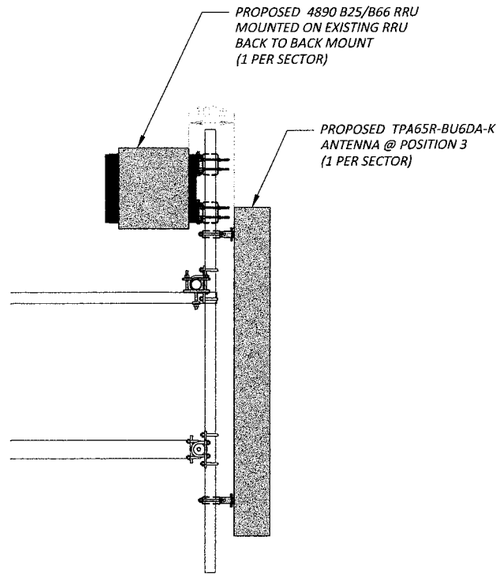
PROJECT TYPE:
5G NR RADIO, 5G NR 1DR-1, 4TX4RX

SHEET TITLE:
ANTENNA LAYOUT & ELEVATIONS

DRAWING #: A-2 REVISION: 3

ANTENNA SCHEDULE

SECTOR	EXISTING/ PROPOSED	BAND	ANTENNA	SIZE (INCHES) (L x W x D)	ANTENNA ℄ HEIGHT	AZIMUTH	TMA/ DIPLEXER	RRU	SIZE (INCHES) (L x W x D)	FEEDER	RAYCAP
A1	EXISTING	UMTS 850	7770	55X11X5	±175'	30°	–	–	–	(2) 1–5/8 COAX (225'± LENGTH)	– –
A2	–	–	–	–	–	–	–	–	–	–	(E) (1) RAYCAP DC6–48–60–18–8C
A3	**PROPOSED**	**LTE 700 B14/AWS/PCS**	**TPA65R–BU6DA–K**	**71.2X20X7.7**	**±175'**	**30°**	–	**(P) (1) 4890 B25/B66 RRUS (E) (1) 4478 B14 RRUS**	**17.5X15.2X6.9 18.1X13.4X8.26**	(E) (2) DC POWER & (1) FIBER	
A4	EXISTING	LTE 700 BC/850/WCS	800–10965	78.7X20X6.9	±175'	30°	–	**(E) (1) 4449 B5/B12 RRUS (E) (1) RRUS–32 B30**	**15.0X13.2X10.4 27.2X12.1X7.0**	–	
B1	EXISTING	UMTS 850	7770	55X11X5	±175'	160°	–	–	–	(2) 1–5/8 COAX (225'± LENGTH)	– –
B2	–	–	–	–	–	–	–	–	–	–	(E) (1) RAYCAP DC6–48–60–18–8C
B3	**PROPOSED**	**LTE 700 B14/AWS/PCS**	**TPA65R–BU6DA–K**	**71.2X20X7.7**	**±175'**	**160°**	–	**(P) (1) 4890 B25/B66 RRUS (E) (1) 4478 B14 RRUS**	**17.5X15.2X6.9 18.1X13.4X8.26**	(E) (2) DC POWER & (1) FIBER	
B4	EXISTING	LTE 700 BC/850/WCS	800–10965	78.7X20X6.9	±175'	160°	–	**(E) (1) 4449 B5/B12 RRUS (E) (1) RRUS–32 B30**	**15.0X13.2X10.4 27.2X12.1X7.0**	–	
C1	EXISTING	UMTS 850	7770	55X11X5	±175'	270°	–	–	–	(2) 1–5/8 COAX (225'± LENGTH)	– –
C2	–	–	–	–	–	–	–	–	–	–	(E) (1) RAYCAP DC6–48–60–18–8F
C3	**PROPOSED**	**LTE 700 B14/AWS/PCS**	**TPA65R–BU6DA–K**	**71.2X20X7.7**	**±175'**	**270°**	–	**(P) (1) 4890 B25/B66 RRUS (E) (1) 4478 B14 RRUS**	**17.5X15.2X6.9 18.1X13.4X8.26**	(E) (2) DC POWER & (1) FIBER	
C4	EXISTING	LTE 700 BC/850/WCS	800–10965	78.7X20X6.9	±175'	270°	–	**(E) (1) 4449 B5/B12 RRUS (E) (1) RRUS–32 B30**	**15.0X13.2X10.4 27.2X12.1X7.0**	–	



ANTENNA MOUNTING DETAIL

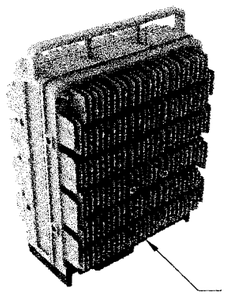
N.T.S.

RRU CHART				
QUANTITY	MODEL	L	W	D
3(P)	4490 B5/B12	17.5"	15.1"	6.8"
3(E)	RRUS–32 B30	27.2"	12.1"	7.0"
3(E)	4478 B14	18.1"	13.4"	8.3"
3(P)	4890 B25/B66	17.5"	15.1"	6.9"

NOTES:

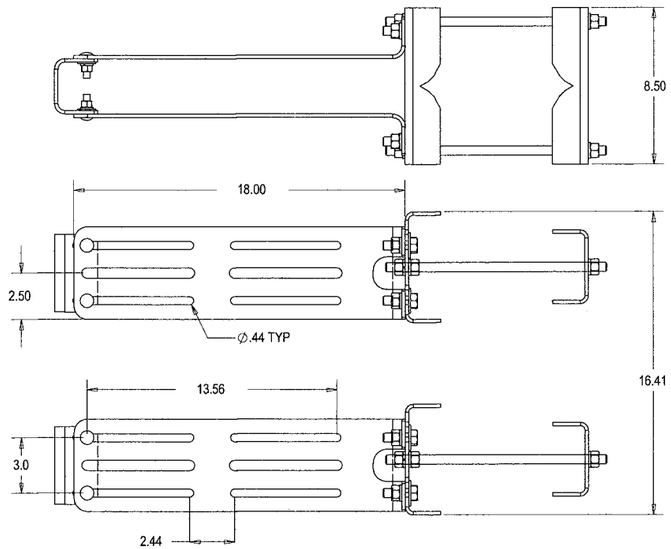
1. REFERENCE STRUCTURAL ANALYSIS BY OTHERS FOR FURTHER INFORMATION REGARDING THE CAPACITY OF THE EXISTING STRUCTURE TO SUPPORT THIS EQUIPMENT UPGRADE.
2. REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.



RRUS DETAIL

N.T.S.



COMMSCOPE RR–FA2 RRUS MOUNT DETAIL

N.T.S.

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500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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STATE OF CONNECTICUT
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16,285
LICENSED
PROFESSIONAL ENGINEER

SITE NAME:
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TORRINGTON, CT 06790

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5G NR RADIO, 5G NR 1DR–1, 4TX4RX

SHEET TITLE:
DETAILS

DRAWING #: A–3 REVISION: 3

STRUCTURAL NOTES:

1. 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.
2. 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.
3. 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".
4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992 (Fy=50 ksi), MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36 UNLESS OTHERWISE INDICATED.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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 NOT LESS THAN 4 COATS (ALLOW TIME TO DRY BETWEEN COATS) WITH A RESULTING COATING THICKNESS REQUIRED BY ASTM A123 OR A153 AS APPLICABLE.
10. 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 DI.I. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "STEEL CONSTRUCTION MANUAL". 14TH EDITION.
11. 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.
12. 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.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.
18. NO MATERIALS TO BE ORDERED AND NO WORK TO BE COMPLETED UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED IN WRITING.
19. 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.

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 [1]
N/A	MATERIAL SPECIFICATIONS REPORT [2]
N/A	FABRICATOR NDE INSPECTION
N/A	PACKING SLIPS [3]
ADDITIONAL TESTING AND INSPECTIONS:	
DURING CONSTRUCTION	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY ENGINEER OF RECORD)	REPORT ITEM
REQUIRED	STEEL INSPECTIONS
N/A	HIGH STRENGTH BOLT INSPECTIONS
N/A	HIGH WIND ZONE INSPECTIONS [4]
N/A	FOUNDATION INSPECTIONS
N/A	CONCRETE COMP. STRENGTH, SLUMP TESTS AND PLACEMENT
N/A	POST INSTALLED ANCHOR VERIFICATION [5]
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
REQUIRED	MODIFICATION INSPECTOR REDLINE OR RECORD DRAWINGS [6]
N/A	POST INSTALLED ANCHOR PULL-OUT TESTING
REQUIRED	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTES:

1. REQUIRED FOR ANY NEW SHOP FABRICATED FRP OR STEEL.
2. PROVIDED BY MANUFACTURER, REQUIRED IF HIGH STRENGTH BOLTS OR STEEL.
3. PROVIDED BY GENERAL CONTRACTOR; PROOF OF MATERIALS.
4. HIGH WIND ZONE INSPECTION CATB 120MPH OR CAT C,D 110MPH INSPECT FRAMING OF WALLS, ANCHORING, FASTENING SCHEDULE.
5. 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.
6. AS REQUIRED; FOR ANY FIELD CHANGES TO THE ITEMS IN THIS TABLE.

NOTES:

1. ALL CONNECTIONS TO BE SHOP WELDED & FIELD BOLTED USING 3/4"ø A325-X BOLTS, UNLESS OTHERWISE NOTIFIED.
2. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED BEFORE ORDERING MATERIAL.
3. SHOP DRAWING ENGINEER REVIEW & APPROVAL REQUIRED PRIOR TO STEEL FABRICATION.
4. 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.
5. CENTERLINE OF PROPOSED STEEL PLATFORM SUPPORT COLUMNS TO BE CENTRALLY LOCATED OVER THE EXISTING BUILDING COLUMNS.
6. EXISTING BRICK MASONRY COLUMNS/BEARING TO BE REPAIRED/REPLACED AT ALL PROPOSED PLATFORM SUPPORT POINTS. ENGINEER OF RECORD TO REVIEW AND APPROVE.

AT&T

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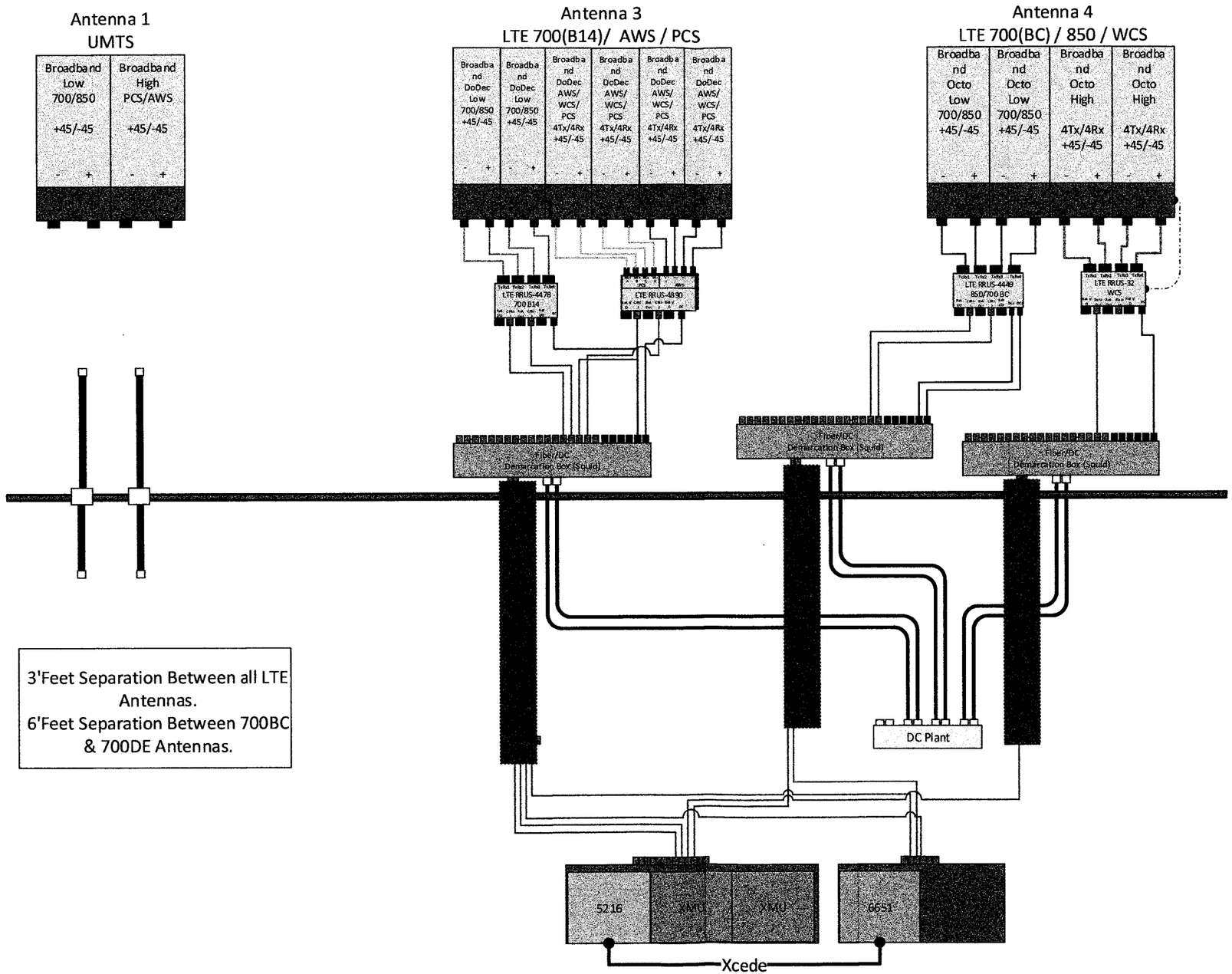
PROJECT TYPE:
5G NR RADIO, 5G NR 1DR-1, 4TX4RX

SHEET TITLE:
STRUCTURAL NOTES

DRAWING #:	REVISION:
SN-1	3

CT1205_ABG_MULTI CARRIER_REV2.VSD



3'Feet Separation Between all LTE Antennas.
6'Feet Separation Between 700BC & 700DE Antennas.

RF PLUMBING DIAGRAM
N.T.S.

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AT&T MOBILITY CORP.
500 ENTERPRISE DRIVE
ROCKY HILL, CT 06067

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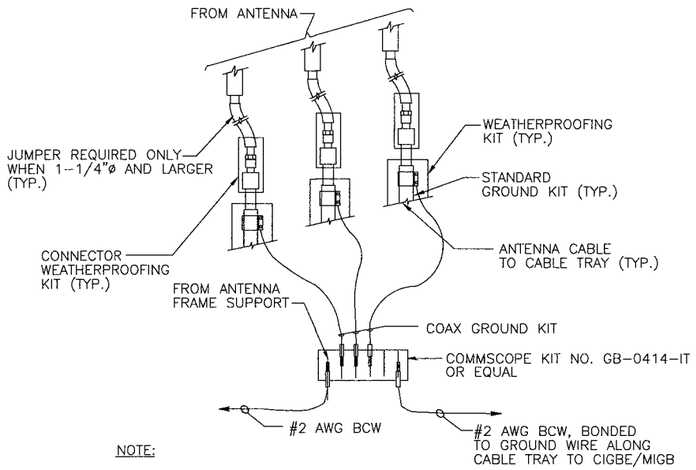
RF PLUMBING DIAGRAM

DRAWING #: RF–1 REVISION: 3



NOTE:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.

GROUNDING RISER DIAGRAM

N.T.S.

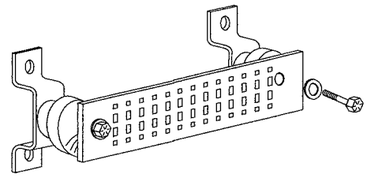
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" – SURGE PRODUCERS

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

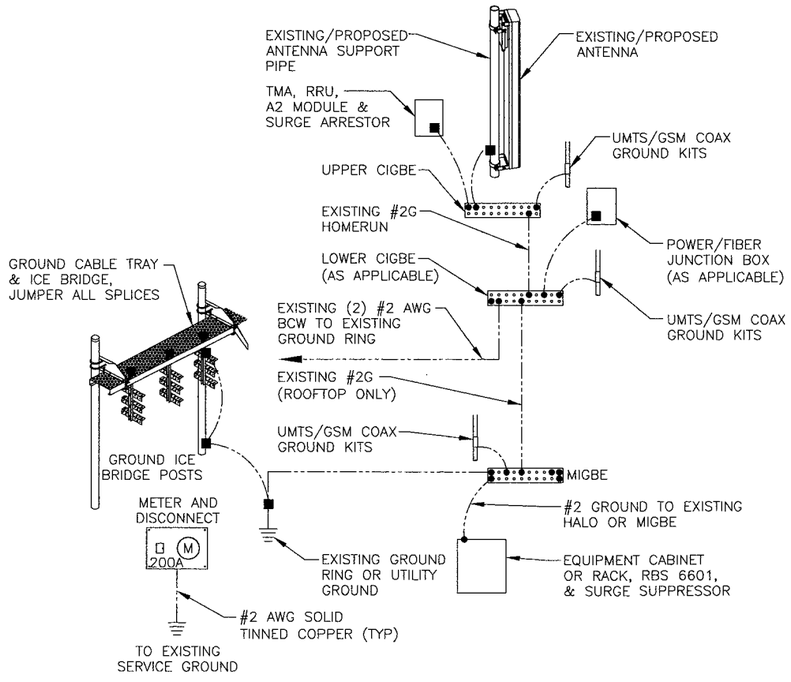
SECTION "A" – SURGE ABSORBERS

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



GROUND BAR DETAIL

N.T.S.



GROUNDING RISER DIAGRAM

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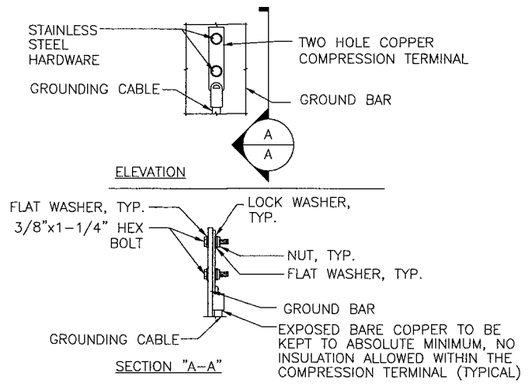

NOTE:
1. "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
2. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
3. CADWELD DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

GROUND BAR CONNECTION DETAIL

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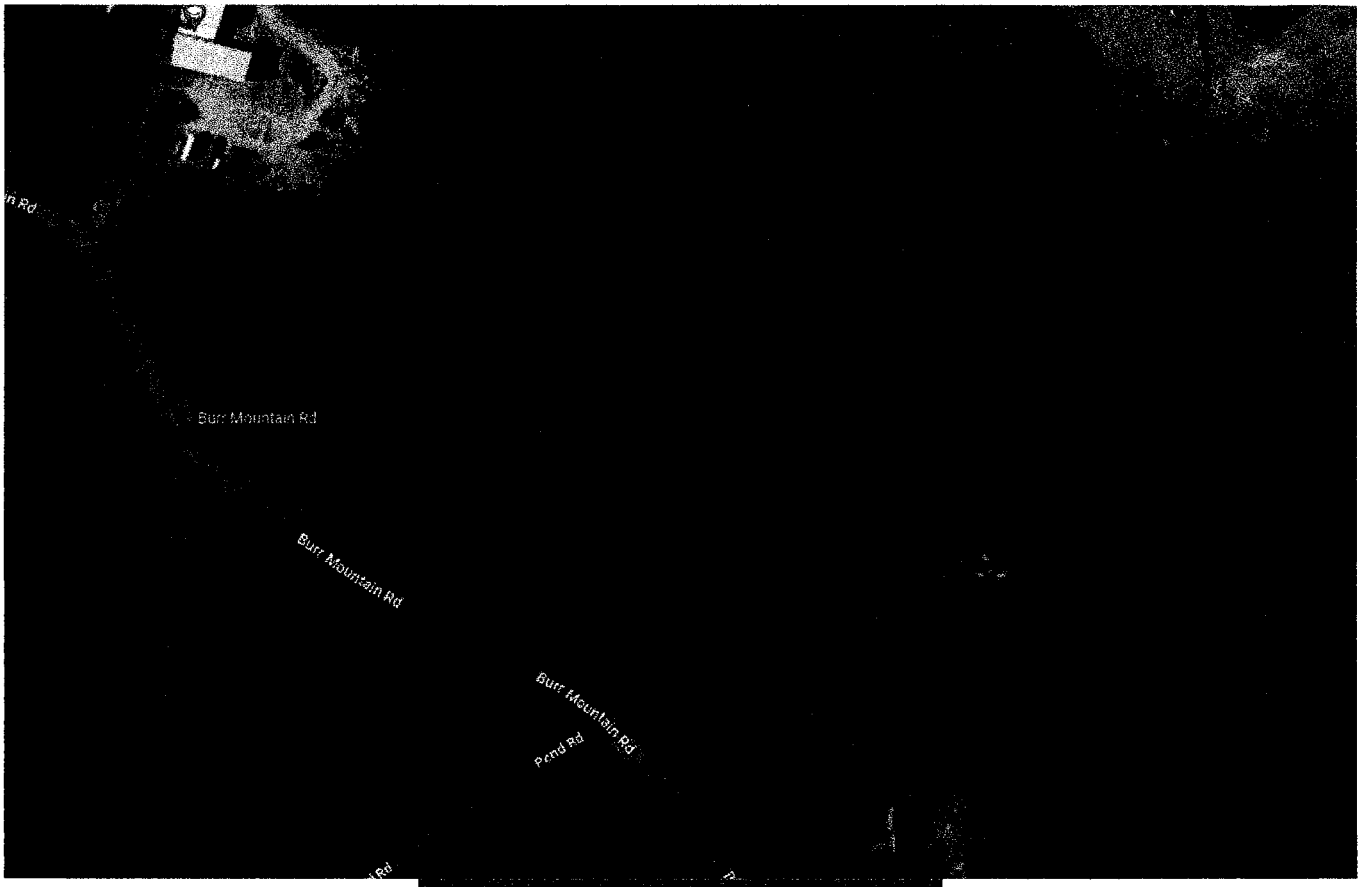
SHEET TITLE:
GROUNDING DETAILS

DRAWING #: G-1 REVISION: 3

EXHIBIT 2

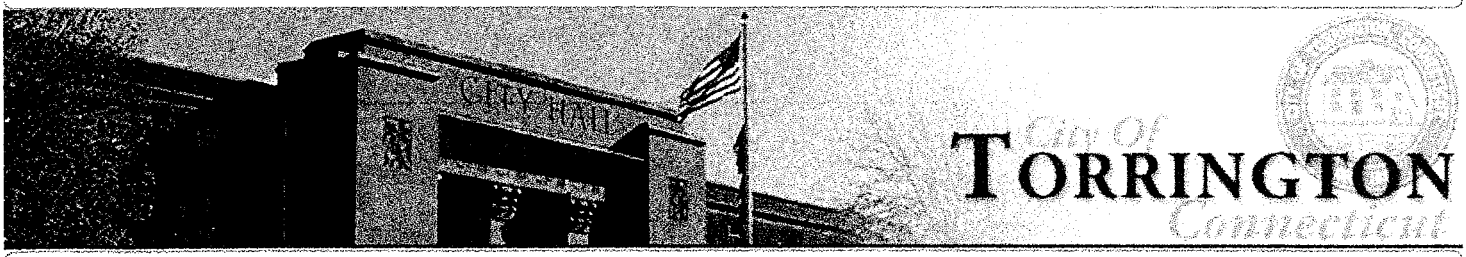


Burr Mountain Rd

Directions Save Nearby Send to phone Share

Torrington, CT 06790

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 2019.



Information on the Property Records for the Municipality of Torrington was last updated on 1/8/2024.

Parcel Information

Location:	3345 WINSTED RD	Property Use:	Vacant Land	Primary Use:	Commercial Vacant Land
Unique ID:	8172	Map Block Lot:	242/001/005	Acres:	193.6100
490 Acres:	132.98	Zone:	I	Volume / Page:	0444/0497
Developers Map / Lot:	5417/5554	Census:	3107-0N		

Value Information

	Appraised Value	Assessed Value
Land	4,598,238	1,019,140
Buildings	0	0
Detached Outbuildings	0	0

	Appraised Value	Assessed Value
Total	4,598,238	1,019,140

Owner's Information

Owner's Data
O & G INDUSTRIES INC 112 WALL ST TORRINGTON, CT 06790

Owner History - Sales

Owner Name	Volume	Page	Sale Date	Deed Type	Sale Price
O & G INDUSTRIES INC	0444	0497	09/23/1988		$2,104,500

Building Permits

Permit Number	Permit Type	Date Opened	Reason
22-600	Building	10/17/2023	REPLACE (6) EXISTING ANTENNA WITH (6) NEW ANTENNAS.
		07/26/2023	
		07/26/2023	
23-990	Building	04/27/2023	DISH WIRELESS COLLOCATION AT EXISTING SBA CELL SITE: INSTALL
23-902	Building	04/03/2023	INSTALLATION OF 2 NON- PENETRATING MICROWAVE SLEDS TO MEASURE INTERIOR SHELTER CONDITIONS (SIMILAR
23-788	Commercial Void	01/24/2023	REMOVE SPRINT ANTENNAS, MOUNT BRACKETS & CABLES FROM TOWER. REMOVE SPRINT EQUIPMENT CABINETS FROM C
19-530	Building	04/01/2019	REM & REPL 6 NEW ANTENNAS/RADIO UNITS
19-439	Building	03/19/2019	MODIFY AT&T FACILITY/REPL 6 ANTENNAS & RADIO UNITS
19-401 Z	Commercial	03/14/2019	CELL TOWER UPGRADE
19-337	Certificate of Completion	03/04/2019	CERT OF COMPL- GENERATOR

Permit Number	Permit Type	Date Opened	Reason
18-974	Electrical	06/13/2018	GENERATOR INSTALLED
17-1669	Certificate of Completion	09/06/2017	CERT OF COMPL- 3 NEWER CELL ANTENNAS & ASSOCIATED EQUIP= PP
17-1081	Certificate of Completion	06/14/2017	CERT OF COMPL- MODIFY AT&T ANTENNA & REPL RADIO HEADS
17-679	Building	05/02/2017	UPGRADES TO EXISTING CELL SITE/3 ANTENNAS & EQUIP
17-544 Z	Commercial	04/17/2017	UPGARDE 3 CELL ANTENNAS & EQUIP
17-323	Building	03/08/2017	MODIFY AT&T ANTENNA SITE/3 REMOTE RADIO UNITS
17-263 Z	Commercial	02/27/2017	CELL TOWER- AT& T ANTENNA MODIFICATION
14-1368	Building	07/11/2014	ADD 3 CELL ANTENNAS & ASSOC EQUIP = PP
14-711	Building	04/24/2014	CABINET/8 KW GENERATOR/MICO DISH FOR PD = PP
14-397	Building	03/06/2014	TELECOMMUNICATION SITE ALTERATION=PP
13-5987	Certificate of Completion	10/10/2013	CERT OF COMPL- 3 MEW ANTENNAD W/SUPPORT EQUIP
13-5813	Building	09/11/2013	MODIFICATIONS TO CELL SITE= PP
12-3424	Building	01/24/2013	ADD 3 NEW ANTENNAS & CABINET TO EXISTING PLATFORM
12-2303	Building	09/20/2012	REPL 6 ANTENNA
11-199	Certificate of Completion	03/17/2011	CERT OF COMPL/PANEL ANTENNAS/COAX & RELATED EQUIP
10-1852	Commercial	10/21/2010	INSTALL PANEL ANTENNAS/PP
08-2511	Commercial	12/08/2008	ADDING ANTENNAS TO EXISTING STRUCTURE AND RELATED GROUND EQUIPMENT. NO CHANGE IN FOOTPRINT.
08-1729	Commercial New	09/09/2008	DOOR CANOPY
08-1545	Commercial New	08/13/2008	DOOR CANOPY
08-533	Commercial New	04/11/2008	NEW TRUCK SCALE
05-192	Commercial New	05/25/2005	CELL ANTENNAE & PRE-FAB SHELTER
04-591	Commercial New	12/08/2004	12'X30' EQUIP SHELTER&ANT
04-541	Commercial New	11/05/2004	EQUIP BLDG & CELLULAR ANTENNAS

Permit Number	Permit Type	Date Opened	Reason
04-437	Commercial New	09/07/2004	NEW 195' CELL TOWER

Information Published With Permission From The Assessor

EXHIBIT 3

TES
A CONGRUEX® COMPANY

Tower Engineering Solutions, LLC
1320 Greenway Drive, Suite 600, Irving, Texas 75038
Phone: (972) 483-0607, Fax: (972) 975-9615

Structural Analysis Report

Structure Information	*Tower Type*	*Existing 196 ft Valmont Monopole*
Customer Information	*Name*	SBA Communications Corp
	Site Number	CT46138-A
	Site Name	Torrington-Oandg Ind Inc
Carrier Information	*Name*	*AT&T*
	Site ID / Name	*CT1205 / Burr Mt Road (CT1205)*
	App #	*243537, V1*
Site Information	*Address:*	*350 Burr Mountain Rd* *Torrington, Connecticut 06790, Litchfield County*
	Latitude:	*41.873255°*
	Longitude:	*-73.088405°*

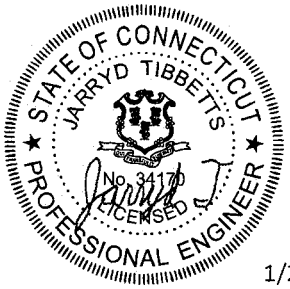
Analysis Result:

Max Structural Usage: **74.0% [Pass]**

Max Foundation Usage: **65.0% [Pass]**

Additional Usage Caused by New Mount/Mount Modification: N/A

Report Prepared By: Kyle Wyant



1/26/2024

Introduction

The purpose of this report is to summarize the analysis results on the 196 ft Valmont Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

Sources of Information

Document Type	Remarks
Tower Drawings	Valmont, Order # 17566-64 Dated 08/03/2004
Foundation Drawing	Valmont, Eng File # A-402723 Dated 07/16/2004
Geotechnical Report	Geotechnical Report by Dr. Clarence Welti, P.E, P.C, Tower- CT33XC079 Dated 06/18/2004
Modification Drawings	Vertical Solutions, Project # 130499 Dated 06/28/2013
Mount Analysis	TEP Northeast, Project # 25709.916853, dated January 5, 2024

Analysis Criteria

The comprehensive analysis was performed in accordance with the requirements and stipulations of the TIA-222-H. In accordance with this standard, the structure was analyzed using TESPoles, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Codes and Standards	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code	
Wind Parameters	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	115.0 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00"
	Service Load Wind Speed:	60 mph + 0" Radial ice
	Exposure Category:	C
	Risk Category:	II
	Ground Elevation Factor (K_e):	0.963
Topographic Parameters	Method:	Method 1
	Feature Type:	N/A
	Crest Height (H):	0 ft
	Length of Feature (L):	0.0 ft
	Distance to crest (x):	0.0 ft
Seismic Parameters:	S_S	0.175 g
	S_1	0.054 g

This structural analysis is based upon the tower being classified as a Risk Category II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	198.0	1	RFI - BA80-41-DIN - Omni	(1) Pipe mount	(1) 7/8"	Torrington P.D.
2	185.0	3	Antel BXA-70063-6CF-EDIN-2 - Panel	Modified Platform with Handrail w/ (3) Commscope BSAMNT-SBS-2-2 Brackets	(6) 1 5/8" (1) 1- 5/8" Hybrid	Verizon
3		6	Andrew JAHH-65C-R3B-V2 - Panel			
4		3	Samsung MT6407-77A - Panel			
5		3	Commscope CBC78T-DS-43-2X - Diplexer			
6		3	Samsung Telecommunications RFV01U-D2A - RRU			
7		3	Samsung RFV01U-1A - RRU			
8		1	RFS DB-C1-12C-24AB-OZ - OVP			
9		2	Kaelus BSF0020F3V1-1 - Filter			
-	175.0	6	Kathrein 800-10965- Panel	Low Profile Platform SitePro1 HRK12 (Handrail Kit)	(12) 1 5/8" (2) 2" Conduit (Housing (4) 3/4" & (2) 7/16" Fiber lines) (1) 3" Conduit (Housing (2) 3/4" & (1) 7/16" Fiber lines)	AT&T
-		2	Raycap DC6-48-60-18-8C-EV			
-		3	Ericsson RRUS 32 B30			
-		3	Ericsson RRUS 4478 B14			
-		3	Ericsson RRUS 4449 B5/B12			
-		12	Powerwave LGP13519 Diplexer			
-		12	Powerwave LGP21401 TMA			
-		3	Powerwave 7770- Panel			
-		3	Ericsson RRUS 12			
-		1	Raycap DC6-48-60-18-8F			
18	155.0	3	Commscope VV-65A-R1 - Panel	(3) T-Arms w/ Handrail kit & v-brace kit	(8) 1 5/8" (3) 1 5/8" Fiber (1) 1.9" Fiber	T-Mobile
19		3	Ericsson AIR6419 B41 - Panel			
20		3	RFS APXVAARR24_43-U-NA20 - Panel			
21		3	Ericsson KRY 112 144/1			
22		3	Ericsson 4449 B71 + B85			
23		3	Ericsson 4460 B25 + B66			
24	145.0	3	JMA Wireless MX08FRO665-21 - Panel	(1) Commscope MC-PK8-DSH (Platform w/ Handrails)	(1) 1.6" Hybrid	Dish Wireless
25		3	Fujitsu TA08025-B605 - RRU			
26		3	Fujitsu TA08025-B604 - RRU			
27		1	Raycap RDIDC-9181-PF-48 - OVP			
28	132.5	1	Telewave - ANT150F2 - Omni	(1) Standoff	(1) 7/8"	Torrington P.D.
29	116.5	5	14' Omni	(6) Standoff	(6) 1/2"	
30	111.5	1	4' Omni			
31	100.0	1	Maxrad - MPRD - Dish	(1) Standoff	(2) CAT5e	

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
10	175.0	3	Kathrein 800-10965 - Panel	Low Profile Platform SitePro1 HRK12 (Handrail Kit)	(12) 1 5/8" (2) 2" Conduit [Housing (4) 3/4" & (2) 7/16" Fiber lines] (1) 3" Conduit [Housing (2) 3/4" & (1) 7/16" Fiber lines]	AT&T
11		3	Powerwave 7770 - Panel			
12		3	CCI TPA65R-BU6DA-K - Panel			
13		3	Ericsson RRUS 32 B30 - RRU			
14		3	Ericsson RRUS 4478 B14 - RRU			
15		3	Ericsson RRUS 4449 B5/B12 - RRU			
16		3	Ericsson 4890 B25/B66 - RRU			
17		3	Raycap DC6-48-60-18-8F - OVP			

See the attached coax layout for the line placement considered in the analysis.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

Tower Component	Utilization %	Pass / Fail
Pole Shaft	63.6%	Pass
Anchor Bolt	61.0%	Pass
Base Plate	60.0%	Pass
Pole Reinforcement	74.0%	Pass
Structure Rating – *(Controlling Utilization of all Components)*		**74.0%**

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	5986.7	43.9	79.4

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Service Load Condition (Rigidity)

The maximum twist and sway of the microwave dishes under the operational wind speed as specified in the Analysis Criteria are listed in the table below:

Elevation (ft)	Antenna / Dish	Carrier	Twist (deg)	Sway (deg)
191.5	RFI - BA80-41-DIN - Whip	Torrington P.D.	0.000	1.731
185.0	Antel - Antel BXA-70063-6CF-EDIN-2 - Panel	Verizon	0.000	1.724
185.0	Andrew JAHH-65C-R3B-V2 - Panel	Verizon	0.000	1.724
185.0	Samsung MT6407-77A - Panel	Verizon	0.000	1.724
175.0	Powerwave - Powerwave 7770 - Panel	AT&T	0.000	1.683
175.0	Kathrein 800-10965 - Panel	AT&T	0.000	1.683
175.0	CCI TPA65R-BU6DA-K - Panel	AT&T	0.000	1.683
155.0	Commscope VV-65A-R1 - Panel	T-Mobile	0.000	1.507
155.0	Ericsson AIR6419 B41 - Panel	T-Mobile	0.000	1.507
155.0	RFS APXVAARR24_43-U-NA20 - Panel	T-Mobile	0.000	1.507
145.0	MX08FRO665-21 - Panel	Dish Wireless	0.000	1.383
145.0	TA08025-B605	Dish Wireless	0.000	1.383
145.0	TA08025-B604	Dish Wireless	0.000	1.383
145.0	RDIDC-9181-PF-48	Dish Wireless	0.000	1.383
130.0	Telewave - ANT150F2 - Whip	Torrington P.D.	0.000	1.233
109.5	Generic - 14' Omni - Whip	Torrington P.D.	0.000	1.006
109.5	Generic - 4' Omni - Whip	Torrington P.D.	0.000	1.006
100.0	Maxrad - MPRD - Dish	Torrington P.D.	0.000	0.932

It is recommended that the carriers review the twist and sway values of the microwave dishes.

Conclusions

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC.** Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.

2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.

3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.

4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.

6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a comprehensive structural analysis.

EXHIBIT 4

TEP NORTHEAST
(TEP OPCO, LLC)

January 5, 2024

CENTERLINE AT&T

Centerline Communications
750 West Center Street, Suite #301
West Bridgewater, MA 02379

RE:	AT&T Site Number:	CT1205 (LTE 5C/6C/5G NR)
	FA Number:	10035404
	PACE Number:	MRCTB068655
	PT Number:	2051A181TB
	TEP Project Number:	25709.916853
	AT&T Site Name:	BURR MT ROAD (CT1205)
	Site Address:	Burr Mountain Road Torrington, CT 06790

To Whom It May Concern:

TEP Northeast (TEP NE) has been authorized by Centerline Communications to perform a mount analysis on the existing AT&T antenna/RRH mount to determine its capability of supporting the following additional loading:

- (3) 7770 Antennas (55.0"x11.0"x5.0" - Wt. = 35 lbs. /each)
- (3) 800-10965 Antennas (78.7"x20.0"x6.9"– Wt. = 109 lbs. /each)
- (3) 4478 B14 RRH's (18.1"x13.4"x8.3" – Wt. = 60 lbs. /each) (Pos.3)
- (3) 4449 B5/B12 RRH's (17.9"x13.2"x9.4" – Wt. = 73 lbs. /each) (Pos.4)
- (3) RRUS-32 B30 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each) (Pos.4)
- (3) DC6-48-60-18-8F Surge Arrestors (31.4"x10.2"Ø – Wt. = 29 lbs. /each) (Pos.3)
- **(3) TPA65R-BU6DA-K Antennas (71.2"x20.7"x7.7" – Wt. = 69 lbs. /each)**
- **(3) 4890 B25/B66 RRH's (17.5"x15.2"x6.9" – Wt. = 68 lbs. /each) (Pos.3)**

**Proposed equipment shown in bold*

No original structural design documents or fabrication drawings were available for the existing mounts. A Mount Mapping Report prepared by Structural Components, Inc. dated November 15, 2023, was used to perform this analysis.

Mount Analysis Methods:

- This analysis was conducted in accordance with EIA/TIA-222-H, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, the International Building Code 2021 with 2022 Connecticut State Building Code, and AT&T Mount Technical Directive – R22.
- TEP NE considers this mount to be asymmetrical and has applied wind loads in 30 degree increments all around the mount. Per TIA-222-H and Appendix P of the Connecticut State Building Code, the max basic wind speed for this site is equal to 115 mph with a max basic wind speed with ice of 50 mph and a max ice thickness of 1.0 in. An escalated ice thickness of 1.34 in was used for this analysis.
- TEP NE considers this site to be exposure category B; tower is located in an urban/suburban or wooded area with numerous closely spaced obstructions.
- TEP NE considers this site to be topographic category 2; tower is located at the top or crest of an escarpment.
- TEP NE considers this site to have a spectral response acceleration parameter at short periods, S_S, of 0.175 and a spectral response acceleration parameter at a period of 1 second, S_1, of 0.054.
- The mount has been analyzed with load combinations consisting of 500 lbs live load using a service wind speed of 30 mph wind on the worst case antenna. Analysis performed on each antenna pipe to determine worst case location; worst case location was antenna position 1.
- The mount has been analyzed with load combinations consisting of a 250 lbs live load in a worst case location on the mount.
- The existing mount is secured to the existing monopole with ring mounts and threaded rods. TEP NE considers the threaded rods to be the governing connection member.

Based on our evaluation, we have determined that the existing mount **IS CAPABLE** of supporting the proposed installation.

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Existing (LTE 5C/6C/5G NR) Mount Rating	60	LC4	90%	**PASS**

Reference Documents:

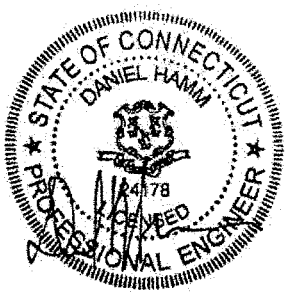
- Mount Mapping Report prepared by Structural Components, Inc. dated November 15, 2023.

This determination was based on the following limitations and assumptions:

1. TEP NE is not responsible for any modifications completed prior to and hereafter which TEP NE was not directly involved.
2. 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. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. The existing mount has been adequately secured to the tower structure per the mount manufacturer's specifications.
5. All components pertaining to AT&T's mount must be tightened and re-plumbed prior to the installation of new appurtenances.
6. TEP NE performed a localized analysis on the mount itself and not on the supporting tower structure.

Please feel free to contact our office should you have any questions.

Respectfully Submitted,
TEP Northeast



Michael Cabral
Director

Daniel P. Hamm, PE
Vice President

EXHIBIT 5

CENTERLINE

Radio Frequency Exposure Analysis Report

January 25, 2024

AT&T

Site Name: TORRINGTON - BURR MT ROAD (CTL01205)
Site ID: CTL01205
FA#: 10035404
USID: 71302
Site Address: BURR MOUNTAIN ROAD, TORRINGTON, CT 06790

Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2025

Signed 25 January 2024

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	0.89787 $\mu W/cm^2$
Cumulative General Population % MPE (Ground Level):	0.13382%

CENTERLINE

January 25, 2024

Attn: David Ford, Program Manager
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: **TORRINGTON - BURR MT ROAD (CTL01205)**

Centerline was contracted to analyze the proposed AT&T facility at **BURR MOUNTAIN ROAD, TORRINGTON, CT 06790** for the purpose of determining whether the predictive exposure from the proposed facility is within specified federal limits.

All information used in this report was analyzed as a percentage of the Maximum Permissible Exposure (% MPE) limits as detailed in 47 CFR § 1.1310 as well as Federal Communications Commission (FCC) OET Bulletin 65 Edition 97-01. The FCC MPE limits are typically expressed in units of milliwatts per square centimeter (mW/cm^2) or microwatts per square centimeter ($\mu W/cm^2$). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm^2) for frequencies between 300 and 1500 is defined as frequency (in MHz) divided by 1500 ($f_{MHz}/1500$). Frequencies between 1500 and 100,000 MHz have a General Population/Uncontrolled MPE limit of 1 mW/cm^2 (1000 $\mu W/cm^2$). The calculated power density at each sample point divided by the limit at each calculated frequency provides a result in % MPE. Summing the calculated % MPE from all contributors provides a cumulative % MPE at a particular sample point. Wireless carriers use different frequency bands with varying MPE limits; therefore, it is useful to report results in terms of % MPE as opposed to power density.

All results were compared to the FCC radio frequency exposure rules as detailed in 47 CFR § 1.1307(b) to determine compliance with the MPE limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/ controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits, as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means. Additional details can be found in FCC OET 65.

CENTERLINE

Calculation Methodology

Centerline has performed theoretical modeling of the site using a software tool, RoofMaster®, which incorporates calculation methodologies detailed in FCC OET 65. RoofMaster® uses a cylindrical model for conservative power density predictions within the near field of the antenna where the antenna pattern has not truly formed yet. Within this area power density values tend to decrease based upon an inverse distance function. At the point where it is appropriate for modeling to change from near-field calculations to far-field calculations, the power decreases inversely with the square of the distance. The modeling is based on worst-case assumptions in terms of transmitter power and duty cycle. No losses were included in the power calculations unless they were specifically provided for the project.

In OET 65, a far field model is presented to calculate the spatial peak power density. The RoofMaster® implementation of this model incorporates antenna manufacturer's horizontal and vertical pattern data to determine the power density in all directions. This model yields the power density at a single point in space. In order to determine the spatial power density for comparison to the FCC limits, the average of several points calculated within the human profile (0-6') must be conducted. RoofMaster® calculates seven power density values between 0-6' above the specified study plane and performs a linear spatial average.

CENTERLINE

Data & Results

The following table details the antennas and operating parameters for the AT&T antenna system as well as any other antenna systems at the site. This is based on antenna information provided by the client and data compiled from other sources where necessary. The data below was input into Roofmaster® to perform the theoretical exposure calculations at ground level.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average). The results from highest cumulative sample point at ground level surrounding the site are displayed in the table below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

The contribution to the cumulative power density and % MPE for each antenna/frequency band is listed in the table(s) below. The cumulative power density and cumulative % MPE are displayed at the bottom of the table(s) below.

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Maximum Calculated Cumulative Power Density @ Ground Level (Location: approximately 12' southeast of site)

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (μW/cm²)	General Population MPE Limit (μW/cm²)	General Population % MPE
AT&T A 1	POWERWAVE 7770 (Decommissioned)	850	11.35	175.00	1.00	0.00	0.00	0.00000	566.67	0.00000
AT&T A 2	CCI TPA65R-BU6D	700	11.75	175.00	4.00	30.00	1795.48	0.00001	466.67	0.00000
AT&T A 2	CCI TPA65R-BU6D	1900	14.55	175.00	4.00	30.00	3421.22	0.00002	1000.00	0.00000
AT&T A 2	CCI TPA65R-BU6D	2100	15.55	175.00	4.00	30.00	4307.06	0.00001	1000.00	0.00000
AT&T A 3	KATHREIN 80010965	700	12.15	175.00	4.00	30.00	1968.71	0.00013	466.67	0.00003
AT&T A 3	KATHREIN 80010965	850	13.45	175.00	4.00	30.00	2655.71	0.00004	566.67	0.00001
AT&T A 3	KATHREIN 80010965 2	2300	15.85	175.00	4.00	18.00	2769.06	0.00004	1000.00	0.00000
AT&T B 4	POWERWAVE 7770 (Decommissioned)	850	11.35	175.00	1.00	0.00	0.00	0.00000	566.67	0.00000
AT&T B 5	CCI TPA65R-BU6D	700	11.75	175.00	4.00	30.00	1795.48	0.04367	466.67	0.00936
AT&T B 5	CCI TPA65R-BU6D	1900	14.55	175.00	4.00	30.00	3421.22	0.04767	1000.00	0.00477
AT&T B 5	CCI TPA65R-BU6D	2100	15.55	175.00	4.00	30.00	4307.06	0.04935	1000.00	0.00494
AT&T B 6	KATHREIN 80010965	700	12.15	175.00	4.00	30.00	1968.71	0.04442	466.67	0.00952
AT&T B 6	KATHREIN 80010965	850	13.45	175.00	4.00	30.00	2655.71	0.04507	566.67	0.00795
AT&T B 6	KATHREIN 80010965 2	2300	15.85	175.00	4.00	18.00	2769.06	0.02906	1000.00	0.00291
AT&T C 7	POWERWAVE 7770 (Decommissioned)	850	11.35	175.00	1.00	0.00	0.00	0.00000	566.67	0.00000
AT&T C 8	CCI TPA65R-BU6D	700	11.75	175.00	4.00	30.00	1795.48	0.00007	466.67	0.00002
AT&T C 8	CCI TPA65R-BU6D	1900	14.55	175.00	4.00	30.00	3421.22	0.00013	1000.00	0.00001
AT&T C 8	CCI TPA65R-BU6D	2100	15.55	175.00	4.00	30.00	4307.06	0.00015	1000.00	0.00002
AT&T C 9	KATHREIN 80010965	700	12.15	175.00	4.00	30.00	1968.71	0.00022	466.67	0.00005
AT&T C 9	KATHREIN 80010965	850	13.45	175.00	4.00	30.00	2655.71	0.00023	566.67	0.00004
AT&T C 9	KATHREIN 80010965 2	2300	15.85	175.00	4.00	18.00	2769.06	0.00014	1000.00	0.00001
Sprint A 10	GENERIC PANEL 6FT (Decommissioned)	862	12.62	195.00	1.00	0.00	0.00	0.00000	574.67	0.00000
Sprint A 11	GENERIC PANEL 6FT (Decommissioned)	1900	15.84	195.00	1.00	0.00	0.00	0.00000	1000.00	0.00000
Sprint A 12	GENERIC PANEL 6FT (Decommissioned)	2500	14.49	195.00	1.00	0.00	0.00	0.00000	1000.00	0.00000
Sprint B 13	GENERIC PANEL 6FT (Decommissioned)	862	12.62	195.00	1.00	0.00	0.00	0.00000	574.67	0.00000
Sprint B 14	GENERIC PANEL 6FT (Decommissioned)	1900	15.84	195.00	1.00	0.00	0.00	0.00000	1000.00	0.00000
Sprint B 15	GENERIC PANEL 6FT (Decommissioned)	2500	14.49	195.00	1.00	0.00	0.00	0.00000	1000.00	0.00000
Sprint C 16	GENERIC PANEL 6FT (Decommissioned)	862	12.62	195.00	1.00	0.00	0.00	0.00000	574.67	0.00000
Sprint C 17	GENERIC PANEL 6FT (Decommissioned)	1900	15.84	195.00	1.00	0.00	0.00	0.00000	1000.00	0.00000
Sprint C 18	GENERIC PANEL 6FT (Decommissioned)	2500	14.49	195.00	1.00	0.00	0.00	0.00000	1000.00	0.00000
Verizon A 19	GENERIC PANEL 6FT	850	12.62	185.00	4.00	40.00	731.24	0.00007	566.67	0.00001
Verizon A 20	GENERIC PANEL 6FT	1900	15.84	185.00	4.00	40.00	1534.83	0.00004	1000.00	0.00000
Verizon A 21	GENERIC PANEL 6FT	2100	16.39	185.00	4.00	40.00	1742.05	0.00003	1000.00	0.00000
Verizon A 22	GENERIC PANEL 6FT	700	12.33	185.00	4.00	40.00	684.01	0.00004	466.67	0.00001
Verizon B 23	GENERIC PANEL 6FT	850	12.62	185.00	4.00	40.00	731.24	0.05337	566.67	0.00942

CENTERLINE

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (μW/cm²)	General Population MPE Limit (μW/cm²)	General Population % MPE
Verizon B 24	GENERIC PANEL 6FT	1900	15.84	185.00	4.00	40.00	1534.83	0.05335	1000.00	0.00534
Verizon B 25	GENERIC PANEL 6FT	2100	16.39	185.00	4.00	40.00	1742.05	0.05616	1000.00	0.00562
Verizon B 26	GENERIC PANEL 6FT	700	12.33	185.00	4.00	40.00	684.01	0.05180	466.67	0.01110
Verizon C 27	GENERIC PANEL 6FT	850	12.62	185.00	4.00	40.00	731.24	0.00001	566.67	0.00000
Verizon C 28	GENERIC PANEL 6FT	1900	15.84	185.00	4.00	40.00	1534.83	0.00002	1000.00	0.00000
Verizon C 29	GENERIC PANEL 6FT	2100	16.39	185.00	4.00	40.00	1742.05	0.00007	1000.00	0.00001
Verizon C 30	GENERIC PANEL 6FT	700	12.33	185.00	4.00	40.00	684.01	0.00028	466.67	0.00006
T-Mobile A 31	GENERIC PANEL 6FT	1900	15.84	165.00	2.00	60.00	2302.24	0.00004	1000.00	0.00000
T-Mobile A 31	GENERIC PANEL 6FT	2100	16.39	165.00	2.00	60.00	2613.07	0.00003	1000.00	0.00000
T-Mobile A 32	GENERIC PANEL 6FT	600	12.33	165.00	2.00	60.00	1026.01	0.00004	400.00	0.00001
T-Mobile A 32	GENERIC PANEL 6FT	700	12.33	165.00	2.00	60.00	1026.01	0.00004	466.67	0.00001
T-Mobile B 33	GENERIC PANEL 6FT	1900	15.84	165.00	2.00	60.00	2302.24	0.05078	1000.00	0.00508
T-Mobile B 33	GENERIC PANEL 6FT	2100	16.39	165.00	2.00	60.00	2613.07	0.05345	1000.00	0.00535
T-Mobile B 34	GENERIC PANEL 6FT	600	12.33	165.00	2.00	60.00	1026.01	0.04931	400.00	0.01233
T-Mobile B 34	GENERIC PANEL 6FT	700	12.33	165.00	2.00	60.00	1026.01	0.04931	466.67	0.01057
T-Mobile C 35	GENERIC PANEL 6FT	1900	15.84	165.00	2.00	60.00	2302.24	0.00002	1000.00	0.00000
T-Mobile C 35	GENERIC PANEL 6FT	2100	16.39	165.00	2.00	60.00	2613.07	0.00006	1000.00	0.00001
T-Mobile C 36	GENERIC PANEL 6FT	600	12.33	165.00	2.00	60.00	1026.01	0.00027	400.00	0.00007
T-Mobile C 36	GENERIC PANEL 6FT	700	12.33	165.00	2.00	60.00	1026.01	0.00027	466.67	0.00006
Dish A 37	GENERIC PANEL 6FT	700	12.33	155.00	4.00	30.00	513.00	0.00004	466.67	0.00001
Dish A 37	GENERIC PANEL 6FT	1900	15.84	155.00	4.00	40.00	1534.83	0.00006	1000.00	0.00001
Dish A 37	GENERIC PANEL 6FT	2100	16.39	155.00	4.00	40.00	1742.05	0.00004	1000.00	0.00000
Dish B 38	GENERIC PANEL 6FT	700	12.33	155.00	4.00	30.00	513.00	0.05620	466.67	0.01204
Dish B 38	GENERIC PANEL 6FT	1900	15.84	155.00	4.00	40.00	1534.83	0.07717	1000.00	0.00772
Dish B 38	GENERIC PANEL 6FT	2100	16.39	155.00	4.00	40.00	1742.05	0.08122	1000.00	0.00812
Dish C 39	GENERIC PANEL 6FT	700	12.33	155.00	4.00	30.00	513.00	0.00031	466.67	0.00007
Dish C 39	GENERIC PANEL 6FT	1900	15.84	155.00	4.00	40.00	1534.83	0.00003	1000.00	0.00000
Dish C 39	GENERIC PANEL 6FT	2100	16.39	155.00	4.00	40.00	1742.05	0.00010	1000.00	0.00001
Unknown 40	GENERIC OMNI 9.5FT	450	5.96	103.00	1.00	25.00	98.61	0.00341	300.00	0.00114
							Cumulative Power Density:	**0.89787 μW/cm²**	**Cumulative % MPE:**	**0.13382%**

CENTERLINE

Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Katrina Styx
RF EME Technical Writer II
Centerline

EXHIBIT 6

STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL
Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@po.state.ct.us
Web Site: www.state.ct.us/csc/index.htm

March 28, 2002

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-064-143-148-020225** - AT&T Wireless notice of intent to modify an existing telecommunications facilities located in Hartford, Torrington, and Wallingford, Connecticut.

Dear Attorney Fisher:

At a public meeting held on March 21, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notices dated February 22, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/RM/laf

c: Honorable Eddie A. Perez, Mayor, City of Hartford
Robert A. LaPorte, Chairman of City Plan Com., City of Hartford
Saundra Kee-Borges, City Manager, City of Hartford
Honorable William W. Dickinson, Jr., Mayor, Town of Wallingford
Linda Bush, Town Planner, Town of Wallingford
Honorable Owen J. Quinn, Jr., Mayor, City of Torrington
Martin Connor, City Planner, City of Torrington

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Allison Conwell

From: Jeremy Leifert <Jeremy_Leifert@torringtonct.org>
Sent: Monday, January 8, 2024 1:55 PM
To: Allison Conwell
Subject: RE: [Torrington CT] AT&T Cell Tower - Burr Mountain Road (Sent by Allison Conwell, aconwell@clinellc.com)

Hi Allison,

I don't see anything in our records except for the periodic upgrade notices from the CT Siting Council. You should contact the Siting Council directly – they have jurisdiction over review and approval of cell towers, so they would likely have files.

https://portal.ct.gov/CSC

Thanks,

Jeremy Leifert, AICP
City Planner, City of Torrington
(860)489-2221
Jeremy_leifert@torringtonct.org

From: Contact form at Torrington CT <cmsmailer@civicplus.com>
Sent: Monday, January 8, 2024 11:59 AM
To: Jeremy Leifert <Jeremy_Leifert@torringtonct.org>
Subject: [Torrington CT] AT&T Cell Tower - Burr Mountain Road (Sent by Allison Conwell, aconwell@clinellc.com)

Hello jleifert,

Allison Conwell (aconwell@clinellc.com) has sent you a message via your contact form (https://www.torringtonct.org/user/2763/contact) at Torrington CT.

If you don't want to receive such e-mails, you can change your settings at https://www.torringtonct.org/user/2763/edit.

Message:

Good Afternoon, I am looking to see if you have the original tower approval for the cell tower on Burr Mountain road.

EXHIBIT 7

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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ADVANCE AUTO PARTS STORE 2890
4676 PRINCESS ANNE RD
VIRGINIA BEACH ,VA 23462

UPS Access Point™
CVS STORE # 4935
4500 PRINCESS ANNE RD
VIRGINIA BEACH ,VA 23462

UPS Access Point™
THE UPS STORE
2085 LYNNHAVEN PKWY
VIRGINIA BEACH ,VA 23456

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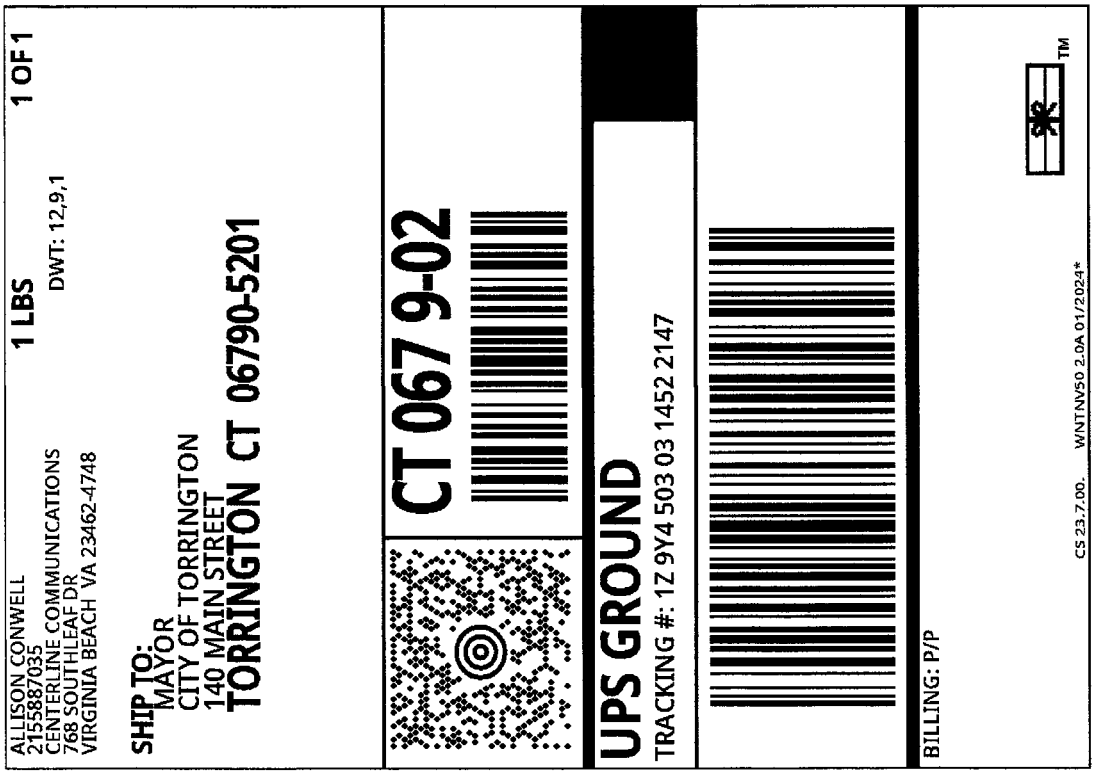

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3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
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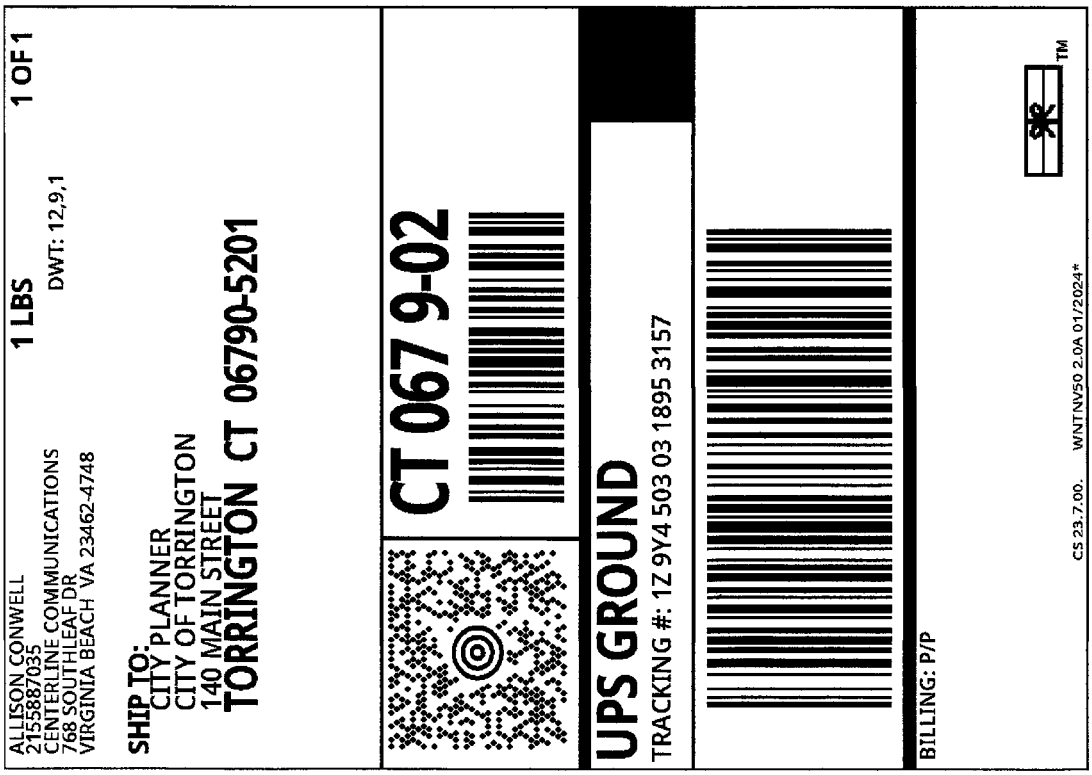

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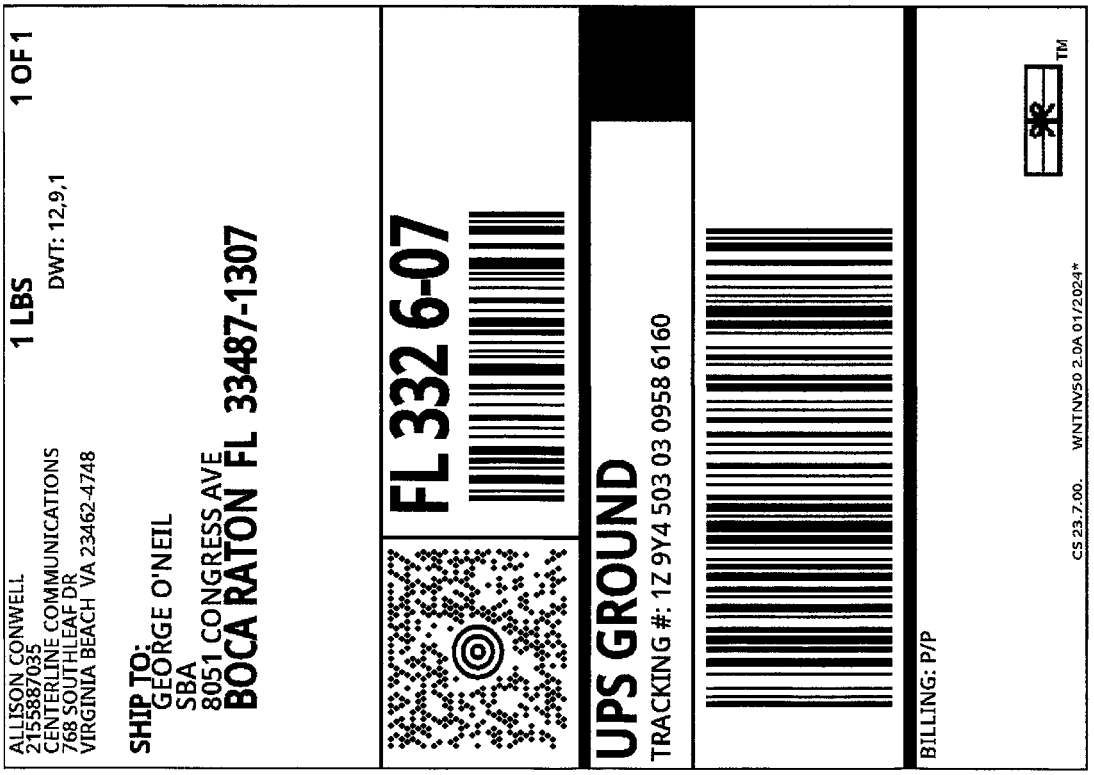

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