April 13, 2023

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

Regarding: Notice of Exempt Modification – AT&T Site CT-1077 / FA# 10035012
Address: 60 North Eagleville Road, Mansfield, CT 06268

Dear Ms. Bachman:

New Cingular Wireless, PCS, LLC ("AT&T") currently maintains a wireless telecommunications facility on an existing +/- 295' Guyed Tower at the above-referenced address, latitude 41.8140481, longitude -72.2594431. Said Guyed Tower is operated by University of Connecticut.

AT&T desires to modify its existing telecommunications facility by swapping twelve (12) antennas, swapping nine (9) remote radio units (RRUS), removing nine (9) remote radio units (RRUS) in shelter, swapping three (3) diplexers, adding (2) diplexers, removing three (3) TMAs, removing (12) triplexers, adding three (3) surge arrestor and accompanying feedlines, and modifying the mounts as more particularly detailed and described on the enclosed Construction Drawings prepared by TEP Northeast, last revised March 24, 2023. The centerline height of the existing antennas is and will remain at 185 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: The Honorable Antonia Moran, Mayor of the Town of Mansfield, as elected official, Jillene Woodmansee, Zoning Enforcement Officer and Town Planner of the Town of Mansfield, and the University of Connecticut, as tower operator and 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.

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 Commission 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 alteration 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 February 20, 2023 and prepared by TEP Northeast, 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).

Sincerely,

Allison Conwell

Allison Conwell
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
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 – Original Tower Approval
Exhibit 7 – Notice Delivery Confirmations

Cc: The Honorable Antonia Moran, Mayor, Town of Mansfield, as elected official
Jillene Woodmansee, Zoning Enforcement and Town Planner, Town of Mansfield
University of Connecticut, as tower operator and property owner

EXHIBIT 1

PROJECT INFORMATION

SCOPE OF WORK:

ITEMS TO BE MOUNTED ON THE EXISTING GUYED SUPPORT:
- NEW AT&T MOUNT MODIFCIATIONS (SEE "S" SHEETS)
- NEW AT&T ANTENNAS: AIR6419 B77G (TOP) (STACKED) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNAS: AIR6449 B77D (BOTTOM) (STACKED) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T ANTENNA: QD6616-7 (BETA SECTOR, TOTAL OF 1).
- NEW AT&T ANTENNA: MS-MBA-3.2-H4-L4 (BETA SECTOR, TOTAL OF 1).
- NEW AT&T ANTENNA: QD8616-7 (TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2).
- NEW AT&T ANTENNA: DMP65R-BU8DA (TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2).
- PROPOSED AT&T SQUID DC6-48-60-0-8C-EC (TOTAL OF 3) WITH PROPOSED (6) 6 AWG DC TRUNKS & (1) 18 PAIR FIBER (TO FOLLOW EXISTING ROUTE).
- NEW AT&T Y-CABLES (TYP. OF 1 PER ALPHA & GAMMA SECTOR, 5 FOR BETA SECTOR, TOTAL OF 7).
- REPLACE EXISTING (1) 8 AWG DC POWER CABLES WITH (1) 6AWG DC POWER CABLE @ DC ONLY SURGE ARRESTOR.
- NEW AT&T RADIO: 4415 B25(1900)(TYP. OF 1 PER ALPHA & GAMMA SECTOR, TOTAL OF 2).
- NEW AT&T RADIO: 4449 B5/B12 (700) (TYP. OF 1 PER ALPHA & GAMMA SECTOR, 2 FOR BETA SECTOR, TOTAL OF 4).
- NEW AT&T RADIO: 8843 B2/B66 (1900) (BETA SECTOR, TOTAL OF 3).
- EXISTING AT&T RADIO: 32 B30 (WCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RECONNECTED TO POS. 4).
- NEW AT&T DIPLEXERS: DBC0051F3V51-2 (BETA SECTOR, TOTAL OF 5).
- EXISTING AT&T RADIO: 32 B66A (AWS) (TYP. OF 1 PER SECTOR, TOTAL OF 3) (TO BE RECONNECTED TO POS. 2).

ITEMS TO BE MOUNTED IN EQUIPMENT LOCATION:
- INSTALL (1) FIBER TRAY IN LTE RACK & (1) FIBER BOX ON ICE BRIDGE.
- INSTALL (3) -48v RECTIFIERS FOR A TOTAL OF (10) -48v RECTIFIERS.
- POWER UP EXISTING DC12 FOR NEW DC6.
- ADD (1) 6630 + IDLe CABLE, (1) 6675 SIDE HAUL SWITCH & (1) 6648 + XCEDE IDLe CABLE

FINAL=5216x2XMUx6630x6630/6675/6648xIDLE XCEDE.

ITEMS TO BE REMOVED:
- EXISTING AT&T ANTENNA: 7770 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T ANTENNA: OPA-65R-LCUU-H8 (TYP. OF 1 IN ALPHA & GAMMA SECTOR, TOTAL OF 2).
- EXISTING AT&T ANTENNA: TPA-65R-LCUUUU-H8 (TYP. OF 1 IN ALPHA & GAMMA SECTOR, TOTAL OF 2).
- EXISTING AT&T ANTENNA: HPA-65R-BUU-H8 (TYP. OF 1 IN ALPHA & GAMMA SECTOR, TOTAL OF 2).
- EXISTING AT&T ANTENNA: OPA-65R-LCUU-H6 (TYP. OF 1 IN BETA SECTOR, TOTAL OF 1).
- EXISTING AT&T ANTENNA: QS66512-2 (TYP. OF 1 IN BETA SECTOR, TOTAL OF 1).
- EXISTING AT&T ANTENNA: HPA-65R-BUU-H6 (TYP. OF 1 IN BETA SECTOR, TOTAL OF 1).
- EXISTING AT&T RRUS: RRUS-11 B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUS-32 B2 (TYP. OF 2 PER SECTOR, TOTAL OF 6).
- EXISTING AT&T RRUS: RRUS-11 B5 SHELTER (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUW-B5 IN SHELTER (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T RRUS: RRUW-B2 IN SHELTER (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T TMA'S: DTMABP7819VG12A (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T TRIPLEXER: TPX-070821 (TYP. OF 4 PER SECTOR, TOTAL OF 12).
- EXISTING AT&T DIPLEXER: DBC2055F1V1-2 (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- EXISTING AT&T (6) 1-5/8"ø COAX.

ITEMS TO REMAIN:
- (6) 1-5/8"ø COAX, (12) RRU'S, (3) SURGE ARRESTOR, (6) DC POWER & (2) FIBER.

SITE ADDRESS:	1298 STORRS ROAD STORRS, CT 06268
LATITUDE:	41.813889° N, 41° 48' 50.0" N
LONGITUDE:	72.259444° W, 72° 15' 34.0" W
TYPE OF SITE:	GUYED TOWER / INDOOR EQUIPMENT
STRUCTURE HEIGHT:	327'-0"±
RAD CENTER:	185'-0"±
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	C
GN-1	GENERAL NOTES	C
A-1	COMPOUND & EQUIPMENT PLANS	C
A-2	EXISTING & PROPOSED ANTENNA PLANS	C
A-3	ELEVATION	C
A-4	DETAILS	C
G-1	GROUNDING DETAILS	C
SN-1	STRUCTURAL NOTES	C
S-1	STRUCTURAL DETAILS	C
S-2	STRUCTURAL DETAILS	C
RF-1	RF PLUMBING DIAGRAM	C
RF-2	RF PLUMBING DIAGRAM	C

at&t

SITE NUMBER: CTL01077

SITE NAME: STORRS-UCONN

FA CODE: 10035012

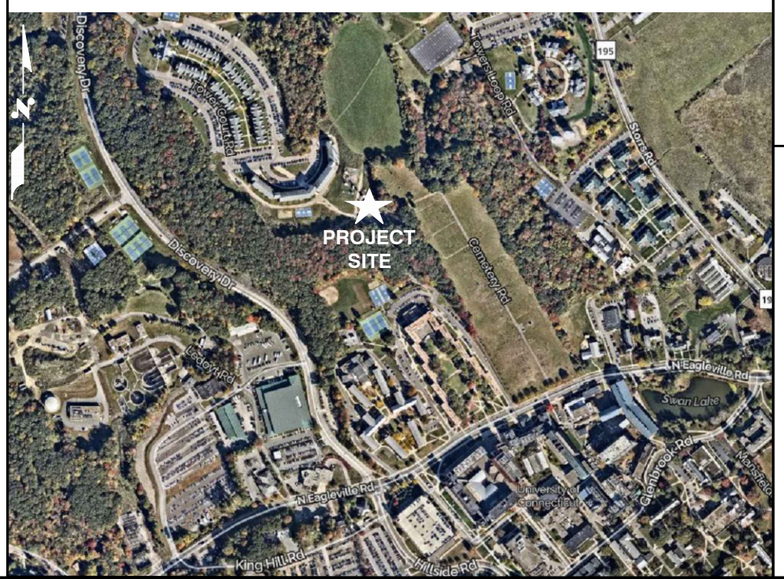
PACE ID: MRCTB061044, MRCTB054183, MRCTB054550, MRCTB054706, MRCTB054601, MRCTB060968, MRCTB060991

PROJECT: SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO, 2023 UPGRADE

ISSUED FOR PERMITTING

VICINITY MAP

DIRECTIONS TO SITE:
HEAD SOUTHEAST TOWARD CAPITAL BLVD, TURN LEFT ONTO CAPITAL BLVD, USE THE LEFT LANE TO TURN LEFT ONTO STATE HWY 411, TURN LEFT TO MERGE WITH I-91 N, MERGE WITH I-91 N, USE THE LEFT LANE TO TAKE EXIT 29 FOR U.S.5 N/CONNECTICUT 15 N/I-84 E TOWARD E HARTFORD/BOSTON, MERGE WITH US-5 N, CONTINUE ONTO CT-15 N, TAKE THE EXIT ON THE LEFT ONTO I-84 E TOWARD BOSTON, TAKE EXIT 59 FOR I-384 E TOWARD PROVIDENCE, CONTINUE ONTO I-384, CONTINUE ONTO US-44 E/US-6 E, KEEP LEFT AT THE Y JUNCTION TO CONTINUE ON US-44 E, FOLLOW SIGNS FOR COVENTRY/MANSFIELD, TURN RIGHT ONTO DISCOVERY DR, TURN LEFT ONTO TOWER CT RD, TURN LEFT TO STAY ON TOWER CT RD, TURN RIGHT TO STAY ON TOWER CT RD, TURN LEFT TO STAY ON TOWER CT RD, TURN RIGHT TO STAY ON TOWER CT 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 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

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

CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01077
SITE NAME: STORRS-UCONN

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

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

TITLE SHEET
SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	T-1	C

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 – CENTERLINE
   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.

ABBREVIATIONS

AGL	ABOVE GRADE LEVEL	EQ	EQUAL	REQ	REQUIRED
AWG	AMERICAN WIRE GAUGE	GC	GENERAL CONTRACTOR	RF	RADIO FREQUENCY
BBU	BATTERY BACKUP UNIT	GRC	GALVANIZED RIGID CONDUIT	TBD	TO BE DETERMINED
BTCW	BARE TINNED SOLID COPPER WIRE	MGB	MASTER GROUND BAR	TBR	TO BE REMOVED
BGR	BURIED GROUND RING	MIN	MINIMUM	TBRR	TO BE REMOVED AND REPLACED
BTS	BASE TRANSCEIVER STATION	P	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	NOT TO SCALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RAD CL	RADIATION CENTER LINE (ANTENNA)	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

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

CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01077
SITE NAME: STORRS-UCONN

1298 STORRS ROAD
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at&t
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ROCKY HILL, CT 06067

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT · DANIEL R. HAMM · No. 24178 · LICENSED PROFESSIONAL ENGINEER

AT&T

GENERAL NOTES

SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

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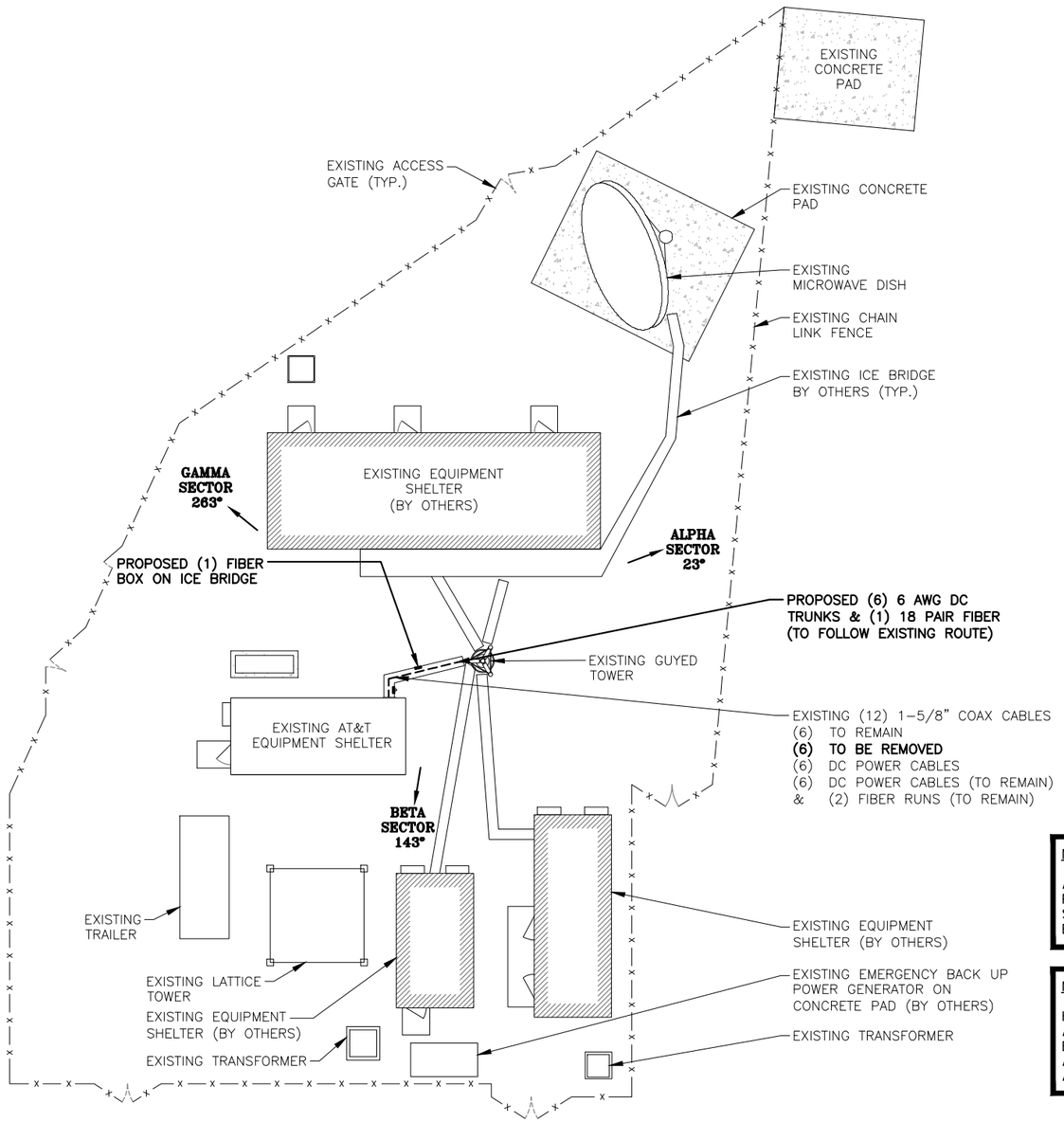


3
A-2

COMPOUND PLAN (1 / A-1)
22x34 SCALE: 3/32"=1'-0"
11x17 SCALE: 3/64"=1'-0"

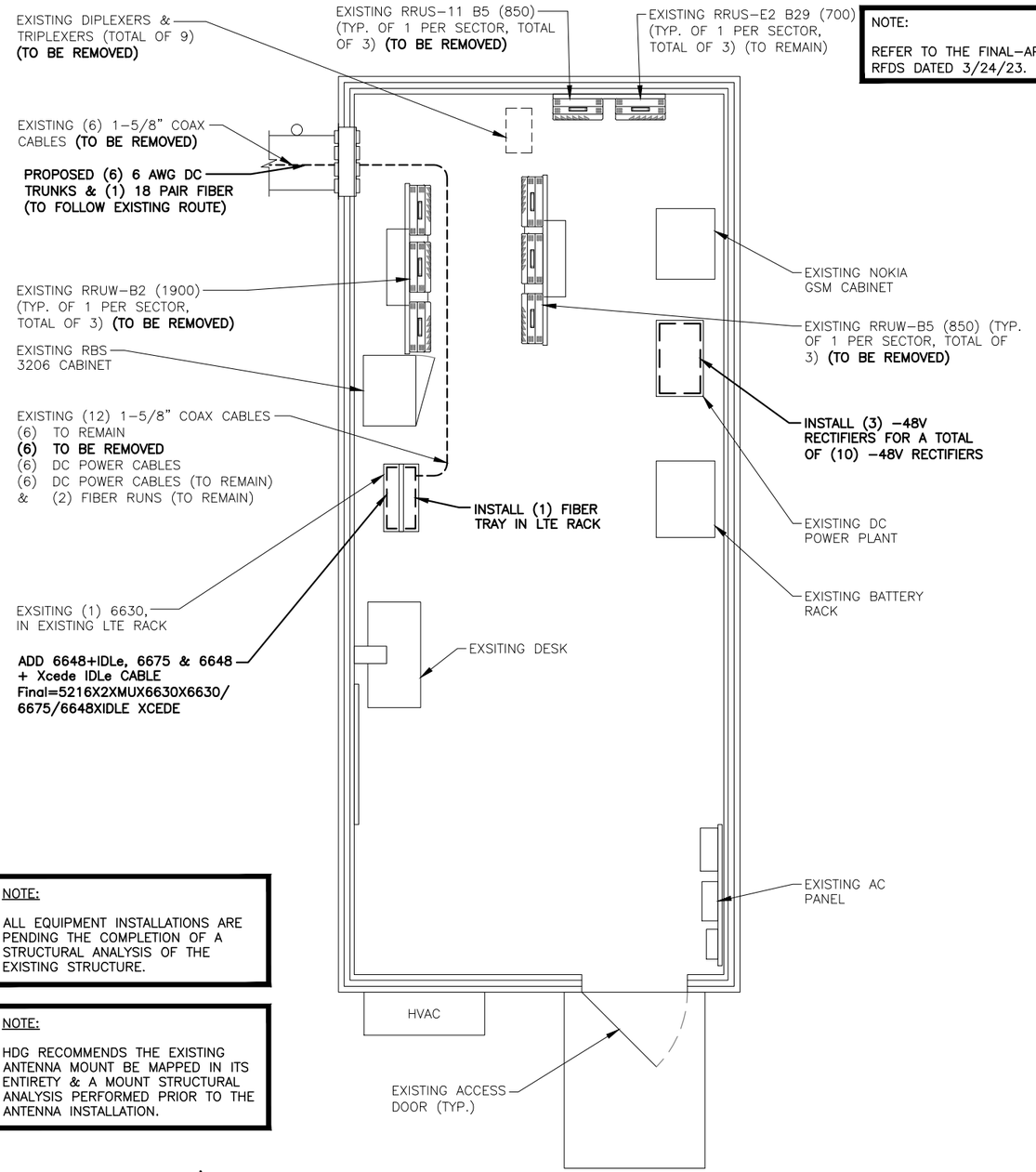
0 5'-4" 10'-8" 21'-4" 32'-0"

NOTE:

ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

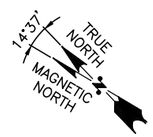
NOTE:

HDG RECOMMENDS THE EXISTING ANTENNA MOUNT BE MAPPED IN ITS ENTIRETY & A MOUNT STRUCTURAL ANALYSIS PERFORMED PRIOR TO THE ANTENNA INSTALLATION.



NOTE:

REFER TO THE FINAL-APPROVED V6 RFDS DATED 3/24/23.



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

0 3'-0" 6'-0"

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

CENTERLINE COMMUNICATIONS
750 WEST CENTER STREET, SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01077
SITE NAME: STORRS-UCONN

1298 STORRS ROAD
STORRS, CT 06268
TOLLAND COUNTY

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

NO.	DATE	REVISIONS	BY	CHK	APP'D
C	03/24/23	ISSUED FOR PERMITTING	SS	MKT	DPH
B	03/08/22	ISSUED FOR PERMITTING	GD	MKT	DPH
A	09/13/22	ISSUED FOR REVIEW	GD	MKT	DPH

SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

COMPOUND & EQUIPMENT PLANS
SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	A-1	C

NOTE:
ANTENNAS AND MOUNTS TO BE ADJUSTED AS REQUIRED TO ACHIEVE A 3'-0" MINIMUM SEPARATION BETWEEN ANTENNAS

NOTE:

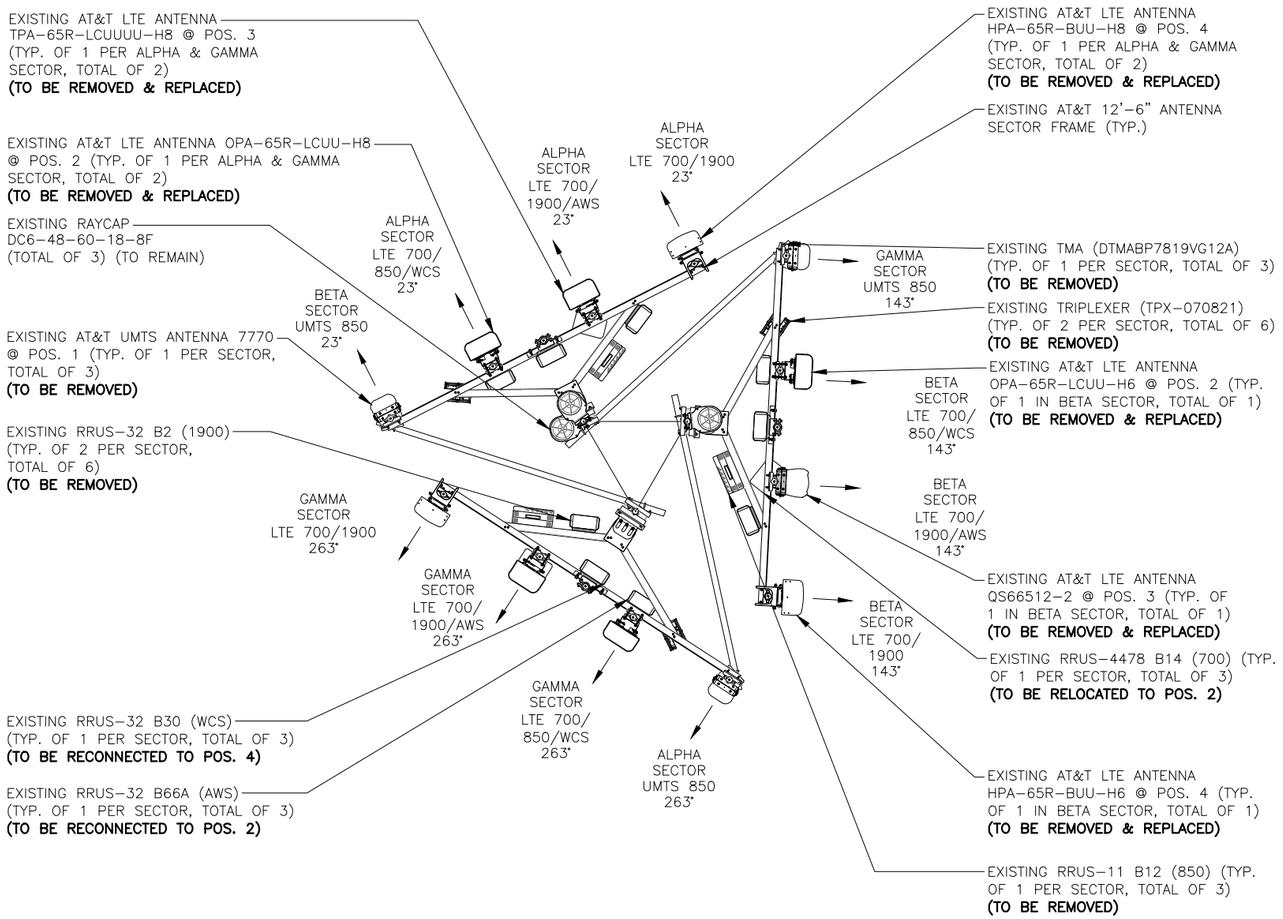
REFER TO THE FINAL-APPROVED V6 RFDS DATED 3/24/23.

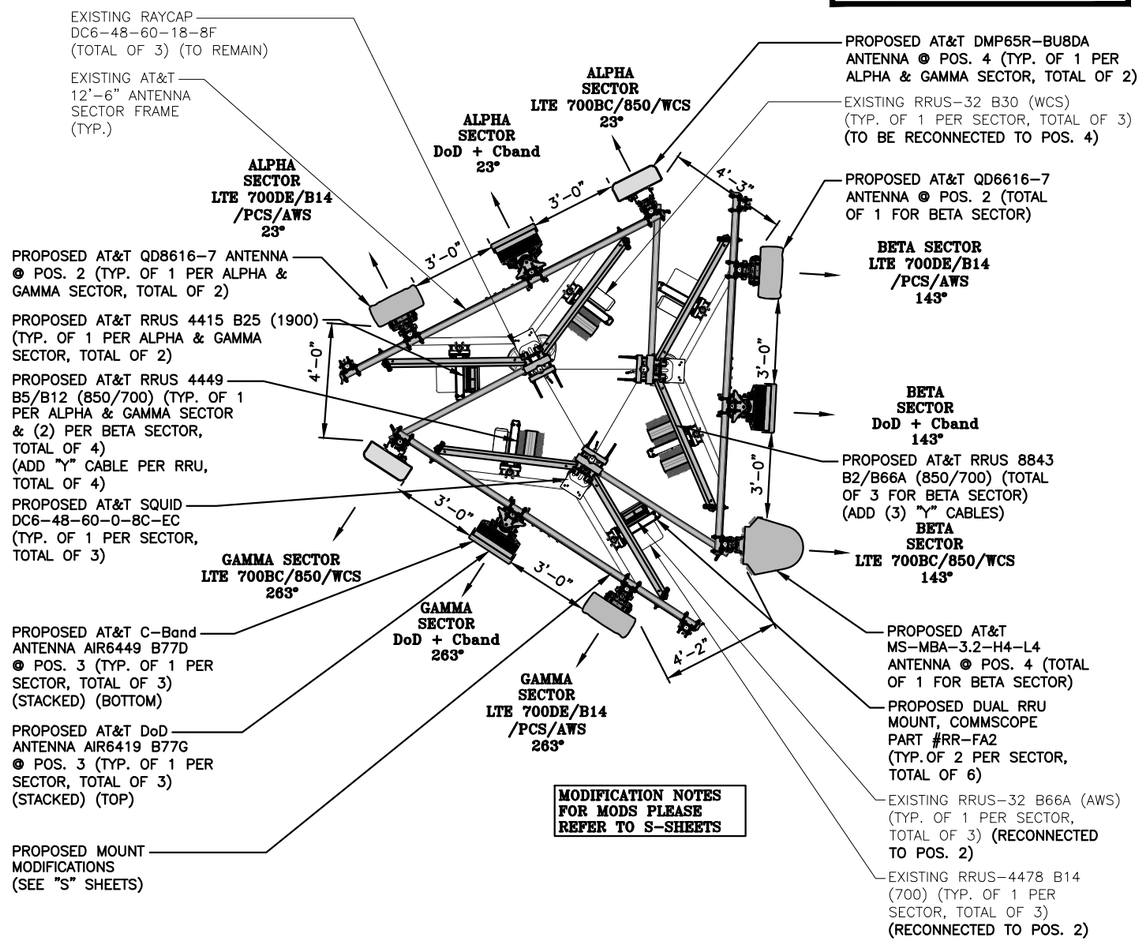
NOTE:

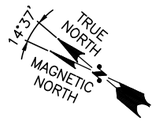
ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

NOTE:

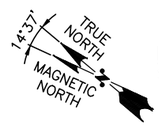
HDG RECOMMENDS THE EXISTING ANTENNA MOUNT BE MAPPED IN ITS ENTIRETY & A MOUNT STRUCTURAL ANALYSIS PERFORMED PRIOR TO THE ANTENNA INSTALLATION.







EXISTING ANTENNA PLAN (1 / A-2)
SCALE: N.T.S



PROPOSED ANTENNA PLAN (2 / A-2)
SCALE: N.T.S

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

CENTERLINE COMMUNICATIONS
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WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01077
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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

EXISTING & PROPOSED ANTENNA PLANS
SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	A-2	C

NOTE:
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NOTE:
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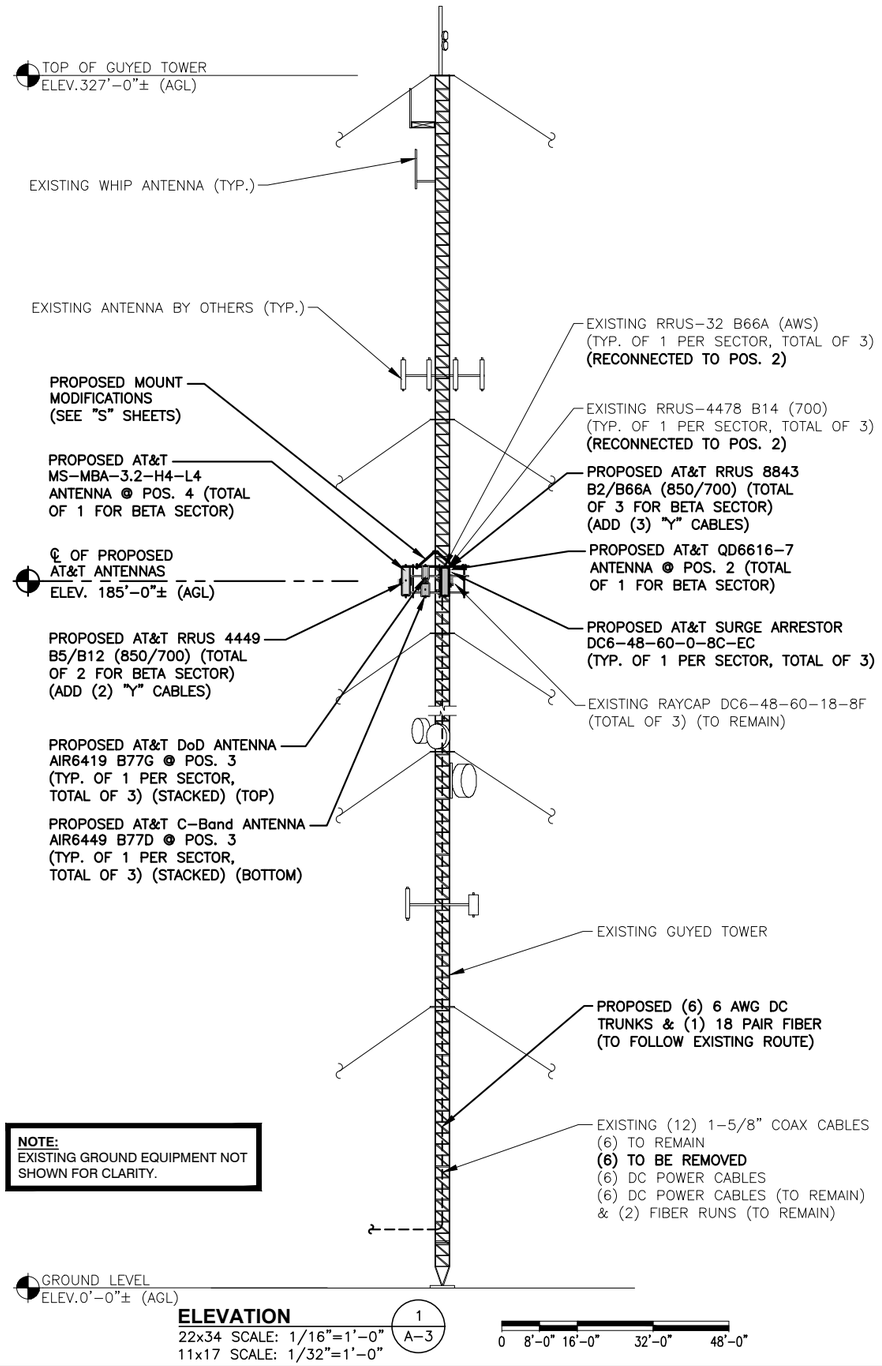
NOTE:
HDG RECOMMENDS THE EXISTING ANTENNA MOUNT BE MAPPED IN ITS ENTIRETY & A MOUNT STRUCTURAL ANALYSIS PERFORMED PRIOR TO THE ANTENNA INSTALLATION.



NOTE:
EXISTING GROUND EQUIPMENT NOT SHOWN FOR CLARITY.

ELEVATION 1 A-3
22x34 SCALE: 1/16"=1'-0"
11x17 SCALE: 1/32"=1'-0"

0 8'-0" 16'-0" 32'-0" 48'-0"

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
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ELEVATION
SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	A-3	C

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	EMPTY	–	–	–	–	–	–	–	–	–	(E) (1) RAYCAP DC6-48-60-18-8F (P) (1) DC6-48-60-0-8C-EC
A2	PROPOSED	LTE 700DE/B14 /PCS/AWS	QD8616-7	96"X22"X9.6"	185'-0"±	23°	–	(E)(1)RRUS-4478 B14 (700) (P)(1)RRUS-4415 B25 (1900) (E)(1)RRUS-32 B66A (AWS) (G)(E)(1)RRUS-E2 B29 (700)	– 16.5"x13.4"x5.9" – –	(E)(2) 1-5/8"ø COAX (E)(2) DC POWER & (1) FIBER	
A3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"X16.1"X7.3" 30.4"X15.9"X8.1"	185'-0"±	23°	–	–	–	(P)(2) 6 AWG DC TRUNK (APPROX. LENGTH=200'±)	
A4	PROPOSED	LTE 700BC/850/WCS	DMP65R-BU8DA	96"X20.7"X7.7"	185'-0"±	23°	–	(P)(1)RRUS-4449 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	17.9"x13.2"x10.4" –	(P)(1) Y CABLE	
B1	EMPTY	–	–	–	–	–	–	–	–	–	(E) (1) RAYCAP DC6-48-60-18-8F (P) (1) DC6-48-60-0-8C-EC
B2	PROPOSED	LTE 700(DE)/700(B14)/WCS	QD8616-7	72"X24"X25"	185'-0"±	143°	–	(E)(1)RRUS-4478 B14 (700) (E)(1)RRUS-32 B30 (WCS) (E)(1)RRUS-E2 B29 (700)	– – –	(E)(2) 1-5/8"ø COAX (E)(2) DC POWER	
B3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"X16.1"X7.3" 30.4"X15.9"X8.1"	185'-0"±	143°	–	–	–	(P)(2) #6AWG DC TRUNK & (1) 18 PAIR FIBER (APPROX. LENGTH=200'±)	
B4	PROPOSED	LTE 700BC/850/WCS	MS-MBA-3.2-H4-L4	71.2"X20.7"X7.7"	185'-0"±	143°	–	(P)(2)RRUS-4449 B5/B12 (850/700) (P)(3)RRUS-8843 B2/B66A (1900)	17.9"x13.2"x10.4" 14.9"X13.2"X10.9"	(P)(5) Y CABLE	
C1	EMPTY	–	–	–	–	–	–	–	–	–	(E) (1) RAYCAP DC6-48-60-18-8F (P) (1) DC6-48-60-0-8C-EC
C2	PROPOSED	LTE 700DE/B14 /PCS/AWS	QD8616-7	96"X22"X9.6"	185'-0"±	263°	–	(E)(1)RRUS-4478 B14 (700) (P)(1)RRUS-4415 B25 (1900) (E)(1)RRUS-32 B66A (AWS) (G)(E)(1)RRUS-E2 B29 (700)	– 16.5"x13.4"x5.9" – –	(E)(2) 1-5/8"ø COAX (E)(2) DC POWER & (1) FIBER	
C3	PROPOSED	DoD C-BAND	AIR6419 B77G AIR6449 B77D	31.1"X16.1"X7.3" 30.4"X15.9"X8.1"	185'-0"±	263°	–	–	–	(P)(2) 6 AWG DC TRUNK (APPROX. LENGTH=200'±)	
C4	PROPOSED	LTE 700BC/850/WCS	DMP65R-BU8DA	96"X20.7"X7.7"	185'-0"±	263°	–	(P)(1)RRUS-4449 B5/B12 (850/700) (E)(1)RRUS-32 B30 (WCS)	17.9"x13.2"x10.4" –	(P)(1) Y CABLE	

RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)
P(5)	4449 B5/B12 (850/700)	17.9"x13.2"x10.4"
P(3)	8843 B2/B66A (1900)	14.9"X13.2"X10.9"
P(2)	4415 B25 (1900)	18.1"x13.4"x8.3"
E(3)	RRUS-32 B30 (WCS)	27.2"x12.1"x7.0"
E(3)	RRUS-32 B66A (AWS)	27.2"x12.1"x7.0"
E(3)	RRUS-E2 B29 (700)	20.4"x18.5"x7.5"
E(3)	RRUS-4478 B14 (700)	18.1"x13.4"x8.3"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:
REFER TO THE FINAL-APPROVED V6 RFDS DATED 3/24/23.

NOTE:
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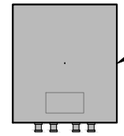
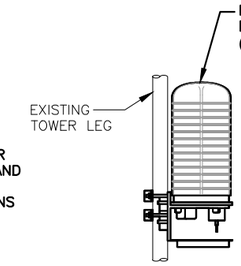
NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER

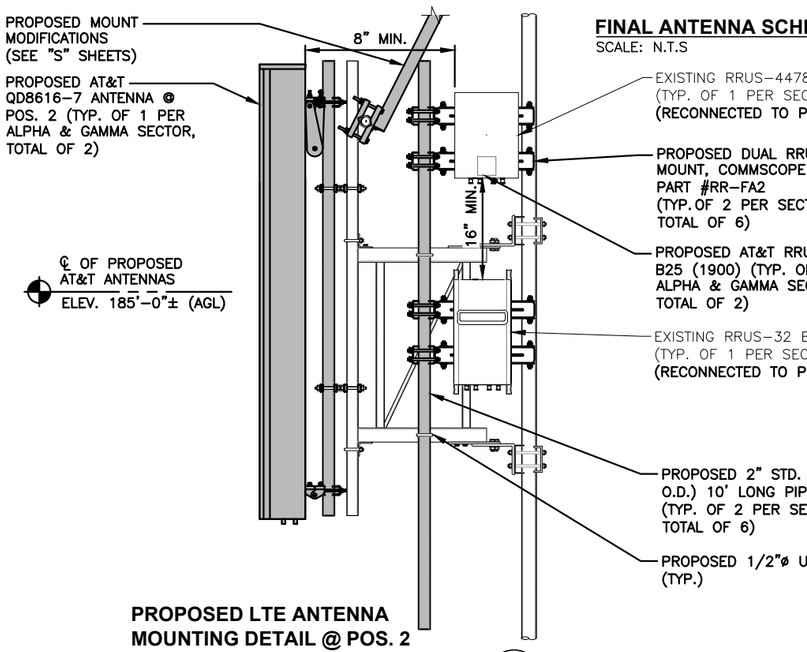


NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRUS DETAIL 2 A-4
SCALE: N.T.S

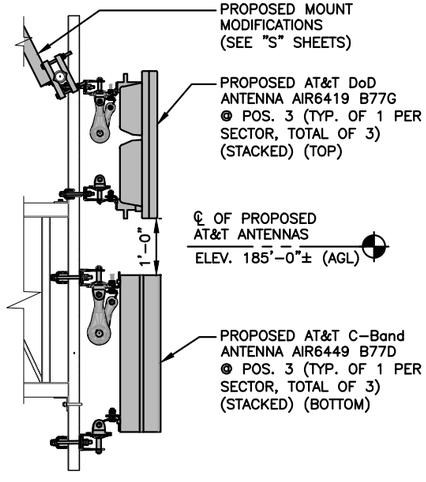


PROPOSED SURGE ARRESTOR MOUNTING DETAIL 3 A-4
SCALE: N.T.S

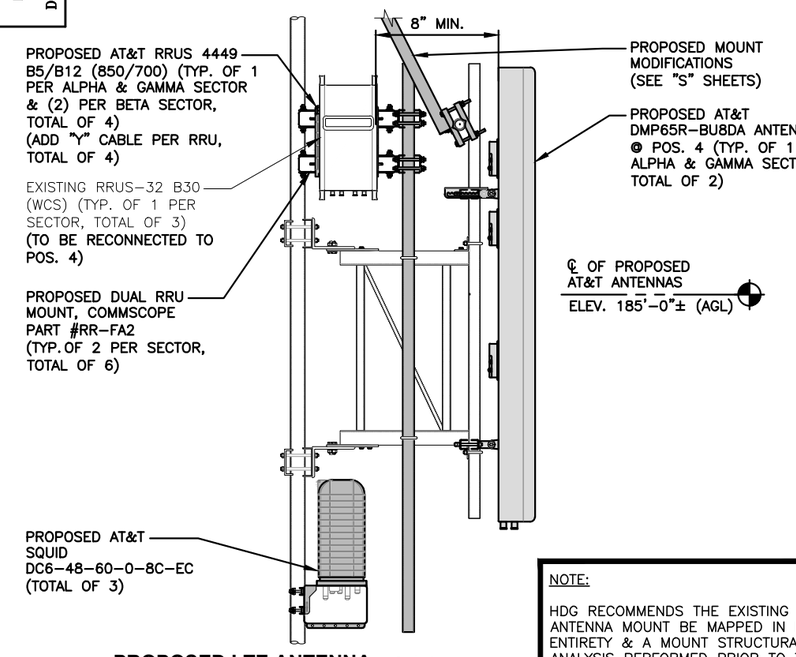


FINAL ANTENNA SCHEDULE 1 A-4
SCALE: N.T.S

PROPOSED LTE ANTENNA MOUNTING DETAIL @ POS. 2 (ALPHA & GAMMA SECTOR) 4 A-4
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"
0 8" 1'-4" 2'-8" 4'-0"



PROPOSED LTE ANTENNA MOUNTING DETAIL @ POS. 3 (ALL SECTORS) 5 A-4
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"
0 8" 1'-4" 2'-8" 4'-0"



PROPOSED LTE ANTENNA MOUNTING DETAIL @ POS. 4 (ALPHA & GAMMA SECTOR) A-4
22x34 SCALE: 3/4"=1'-0"
11x17 SCALE: 3/8"=1'-0"
0 8" 1'-4" 2'-8" 4'-0"

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT DANIEL P. HAMM No. 24178 LICENSED PROFESSIONAL ENGINEER

AT&T

DETAILS

SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	A-4	C

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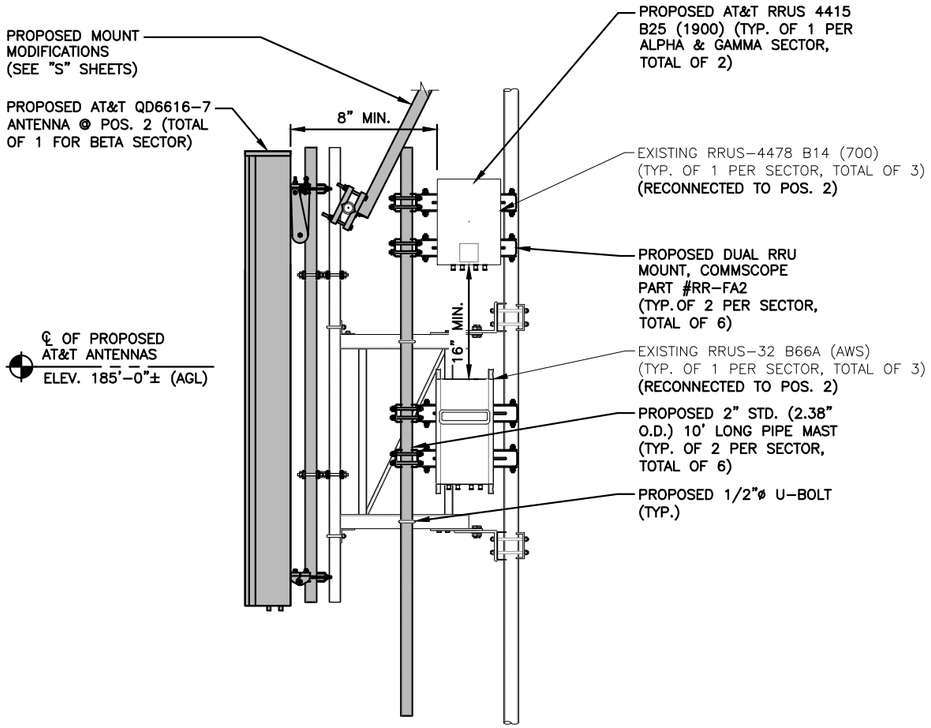
NOTE:

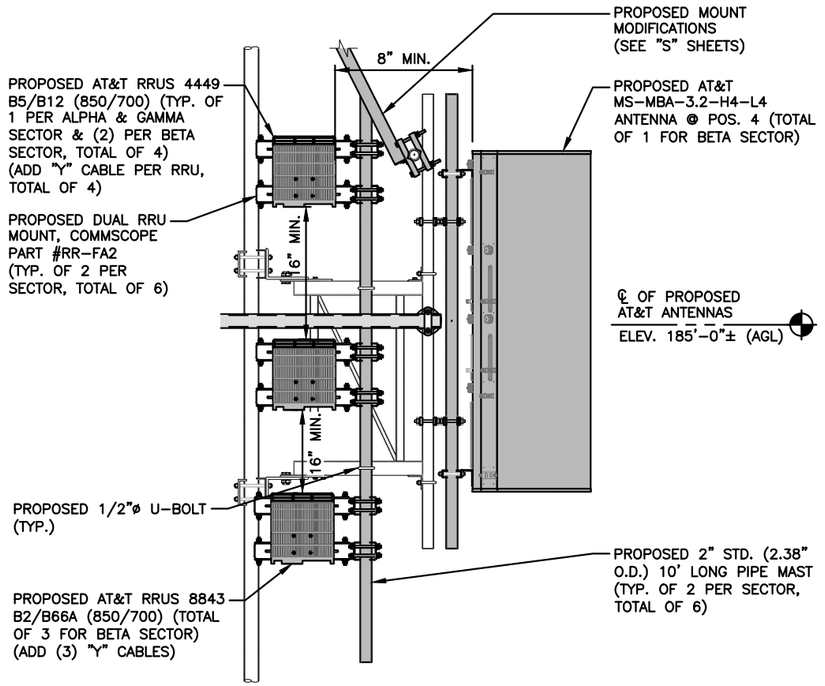
REFER TO THE FINAL–APPROVED V6 RFDS DATED 3/24/23.



PROPOSED LTE ANTENNA MOUNTING DETAIL @ POS. 2 (BETA SECTOR) 1 / A–5

22x34 SCALE: 3/4"=1'–0"
11x17 SCALE: 3/8"=1'–0"

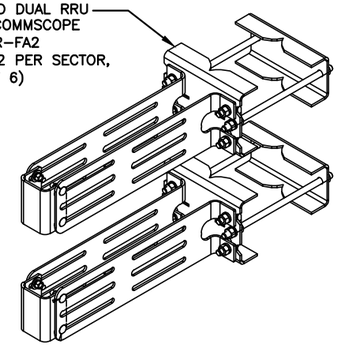
0 8" 1'–4" 2'–8" 4'–0"



PROPOSED LTE ANTENNA MOUNTING DETAIL @ POS. 4 (BETA SECTOR) 2 / A–5

22x34 SCALE: 3/4"=1'–0"
11x17 SCALE: 3/8"=1'–0"

0 8" 1'–4" 2'–8" 4'–0"



PROPOSED BACK TO BACK MOUNT, COMMSCOPE (RR-FA2) 3 / A–5

SCALE: N.T.S.

TEP NORTHEAST
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TEL: (978) 557-5553

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
DANIEL P. HAMM
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AT&T

DETAILS

SPLIT SECTOR, 5G NR 1DR–1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	A–5	C

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.

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

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WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01077
SITE NAME: STORRS-UCONN

1298 STORRS ROAD
STORRS, CT 06268
TOLLAND COUNTY

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

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

AT&T

STRUCTURAL NOTES

SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	SN-1	C

NOTE:

ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

NOTE:

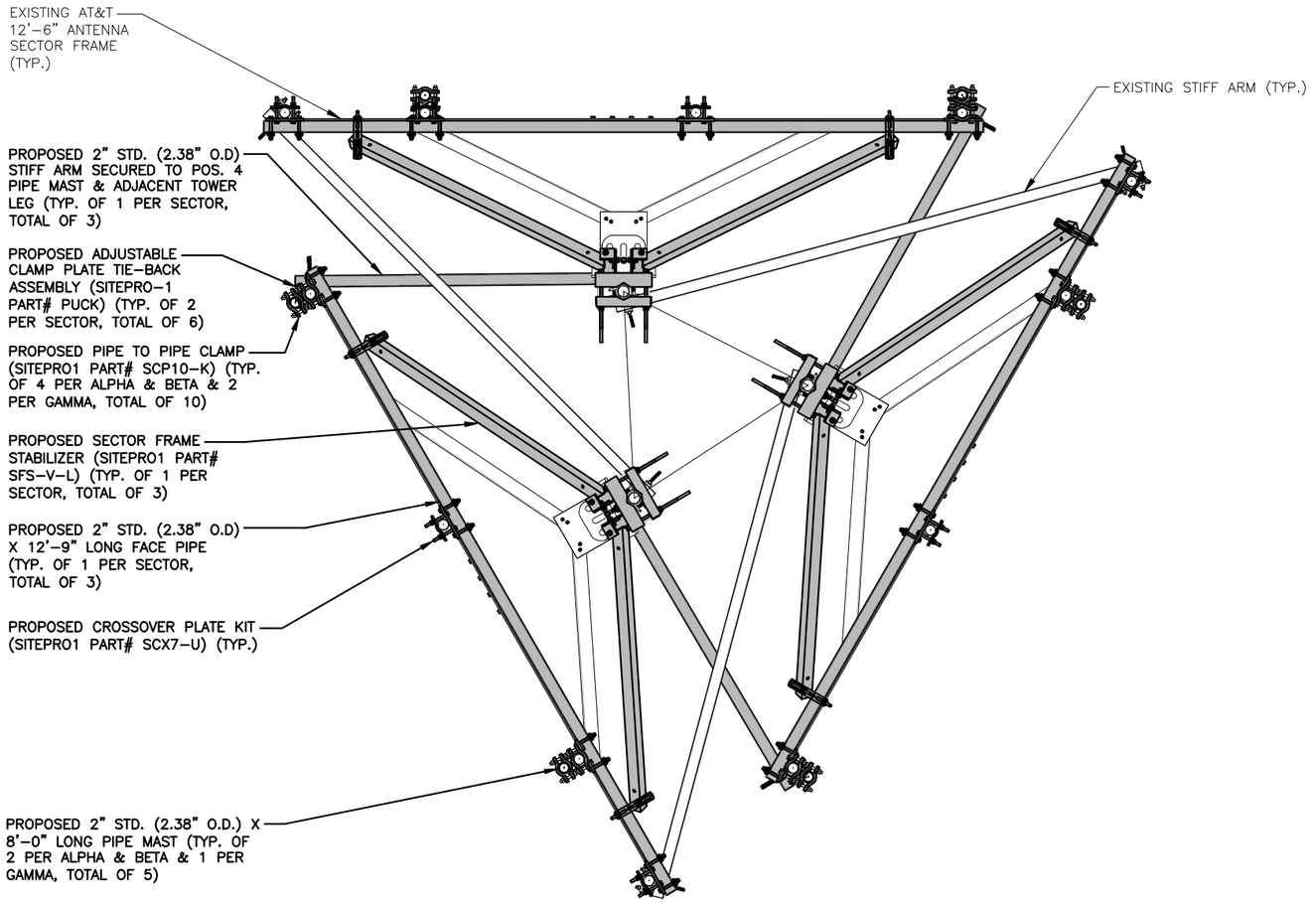
ALL ANTENNAS AND LINES TO BE INSTALLED IN ACCORDANCE WITH STRUCTURAL ANALYSIS PROVIDED BY CROWN CASTLE AND FINAL AT&T RF DATA SHEET.

NOTE:

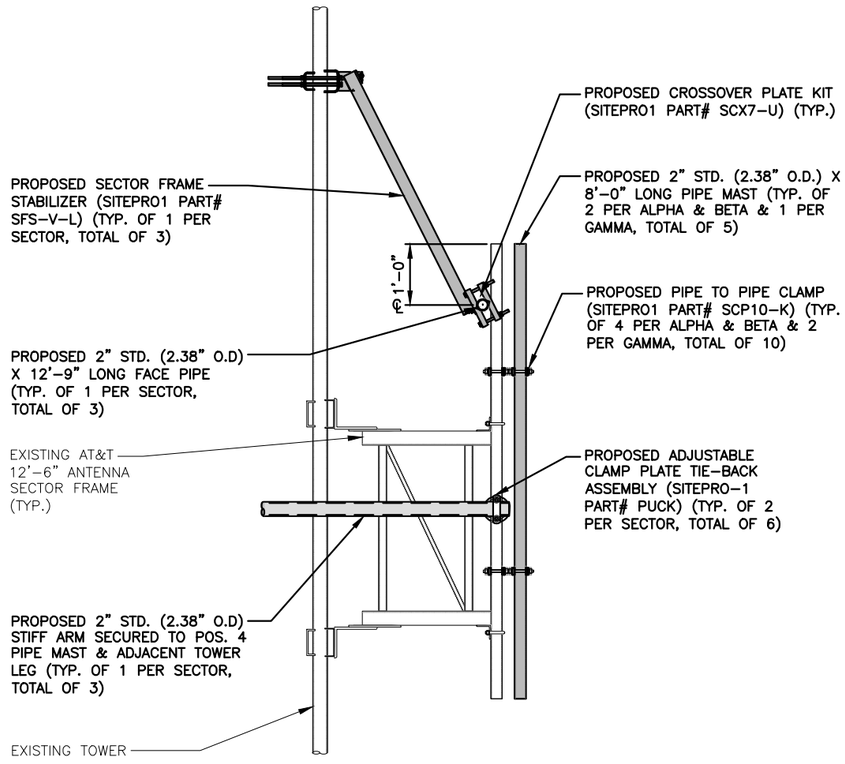
HDG RECOMMENDS THE EXISTING ANTENNA MOUNT BE MAPPED IN ITS ENTIRETY & A MOUNT STRUCTURAL ANALYSIS PERFORMED PRIOR TO THE ANTENNA INSTALLATION.

NOTE:

REFER TO THE FINAL–APPROVED V6 RFDS DATED 3/24/23.



PROPOSED MOUNT MODIFICATION PLAN VIEW (1 / S–1)
22x34 SCALE: 3/4"=1'–0"
11x17 SCALE: 3/8"=1'–0"
0 8" 1'–4" 2'–8" 4'–0"



PROPOSED MOUNT MODIFICATION SIDE VIEW (2 / S–1)
22x34 SCALE: 3/4"=1'–0"
11x17 SCALE: 3/8"=1'–0"
0 8" 1'–4" 2'–8" 4'–0"

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT · DANIEL P. HAMM · No. 24178 · LICENSED PROFESSIONAL ENGINEER

AT&T

STRUCTURAL DETAILS

SPLIT SECTOR, 5G NR 1DR–1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	S–1	C

NOTE:

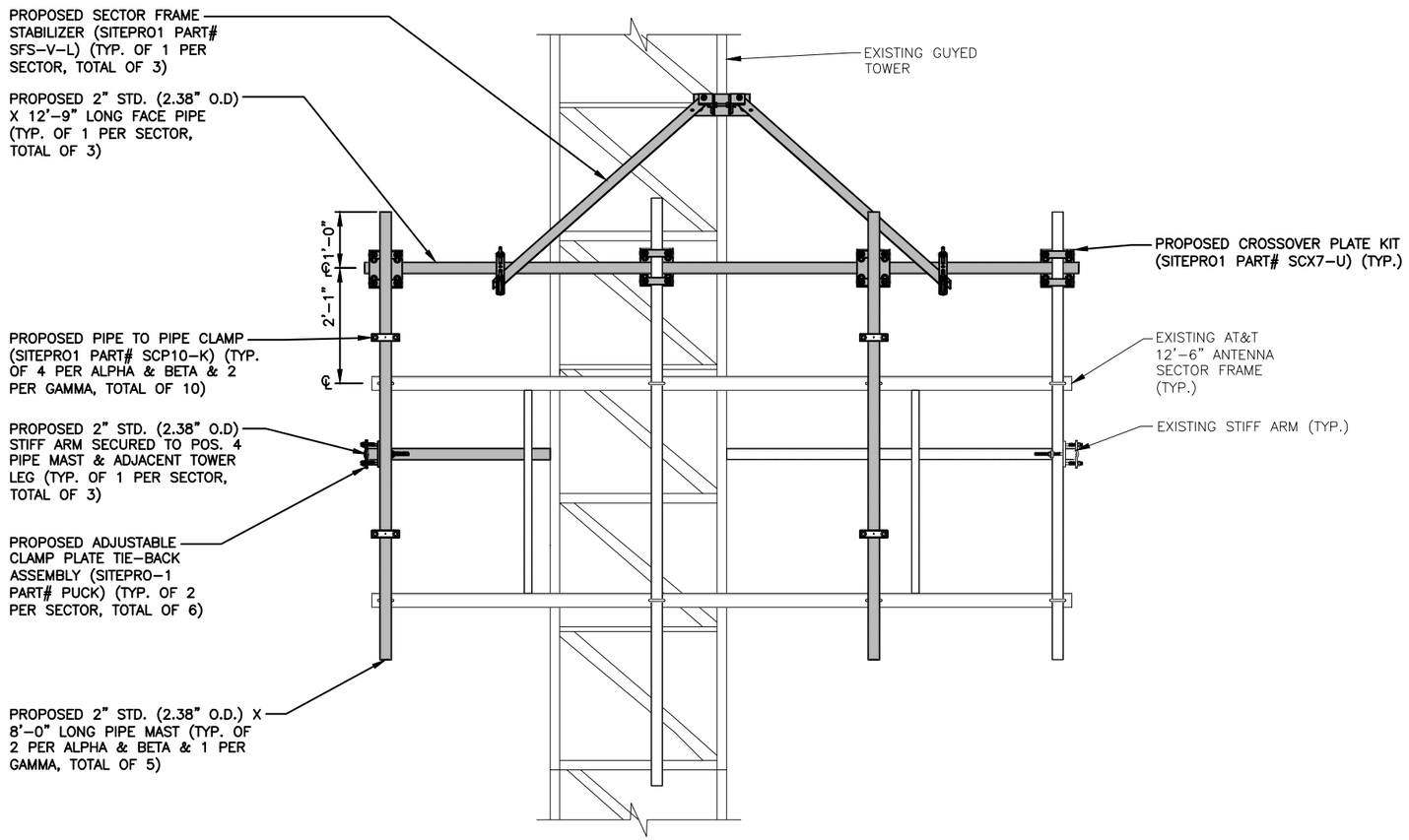
REFER TO THE FINAL–APPROVED V6 RFDS DATED 3/24/23.

NOTE:

ALL EQUIPMENT INSTALLATIONS ARE PENDING THE COMPLETION OF A STRUCTURAL ANALYSIS OF THE EXISTING STRUCTURE.

NOTE:

HDG RECOMMENDS THE EXISTING ANTENNA MOUNT BE MAPPED IN ITS ENTIRETY & A MOUNT STRUCTURAL ANALYSIS PERFORMED PRIOR TO THE ANTENNA INSTALLATION.



PROPOSED MOUNT MODIFICATION FRONT VIEW (1 / S–2)

22x34 SCALE: 3/4"=1'–0"
11x17 SCALE: 3/8"=1'–0"

0 8" 1'–4" 2'–8" 4'–0"

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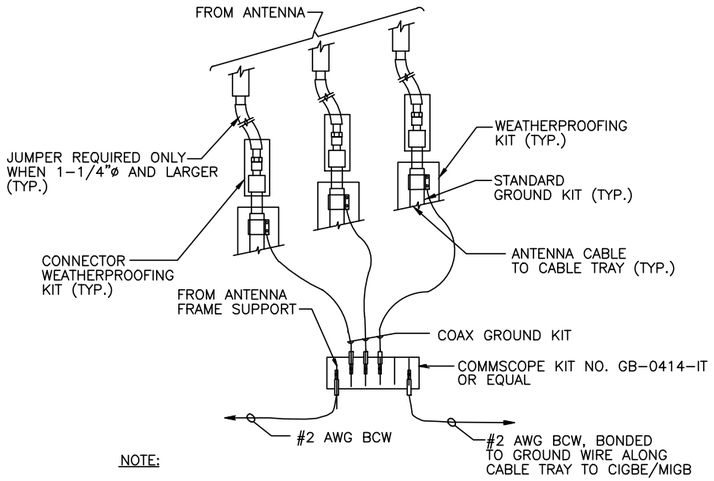
STRUCTURAL DETAILS

SPLIT SECTOR, 5G NR 1DR–1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	S–2	C



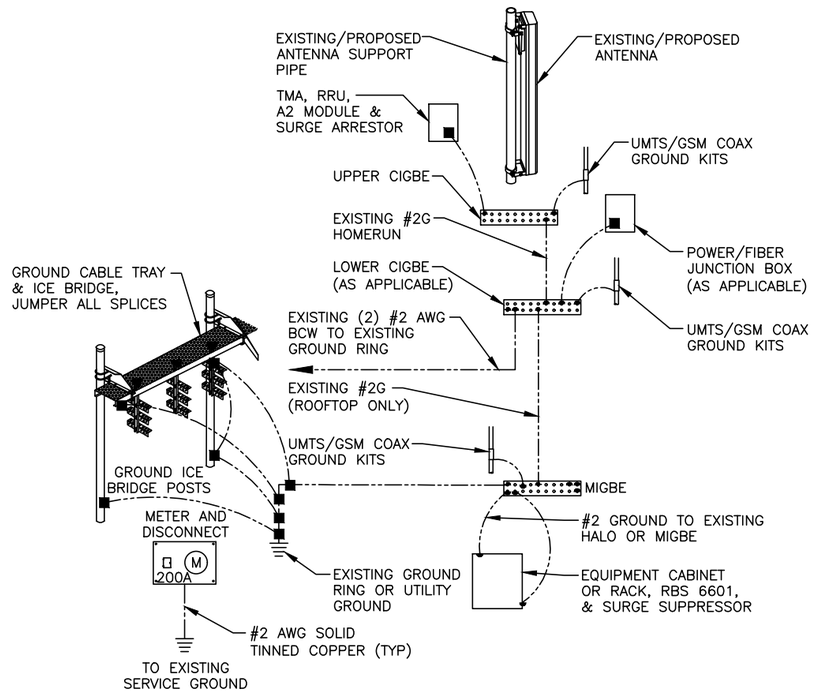
NOTE:

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

GROUND WIRE TO GROUND BAR CONNECTION DETAIL

SCALE: N.T.S

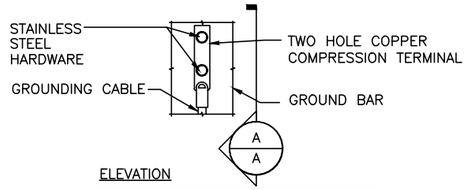
1 / G-1



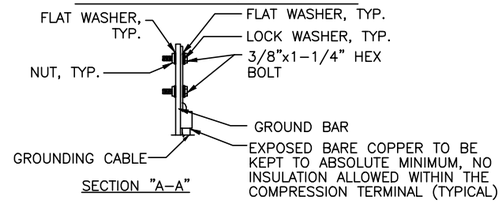
GROUNDING RISER DIAGRAM

SCALE: N.T.S

2 / G-1



ELEVATION



SECTION "A-A"

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

SCALE: N.T.S

3 / G-1

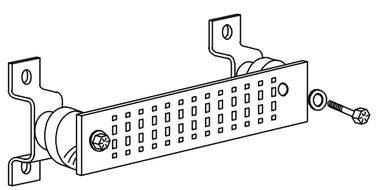
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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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45 BEECHWOOD DRIVE, NORTH ANDOVER, MA 01845
TEL: (978) 557-5553

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SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

STATE OF CONNECTICUT
DANIEL P. HAMM
No. 24178
LICENSED PROFESSIONAL ENGINEER

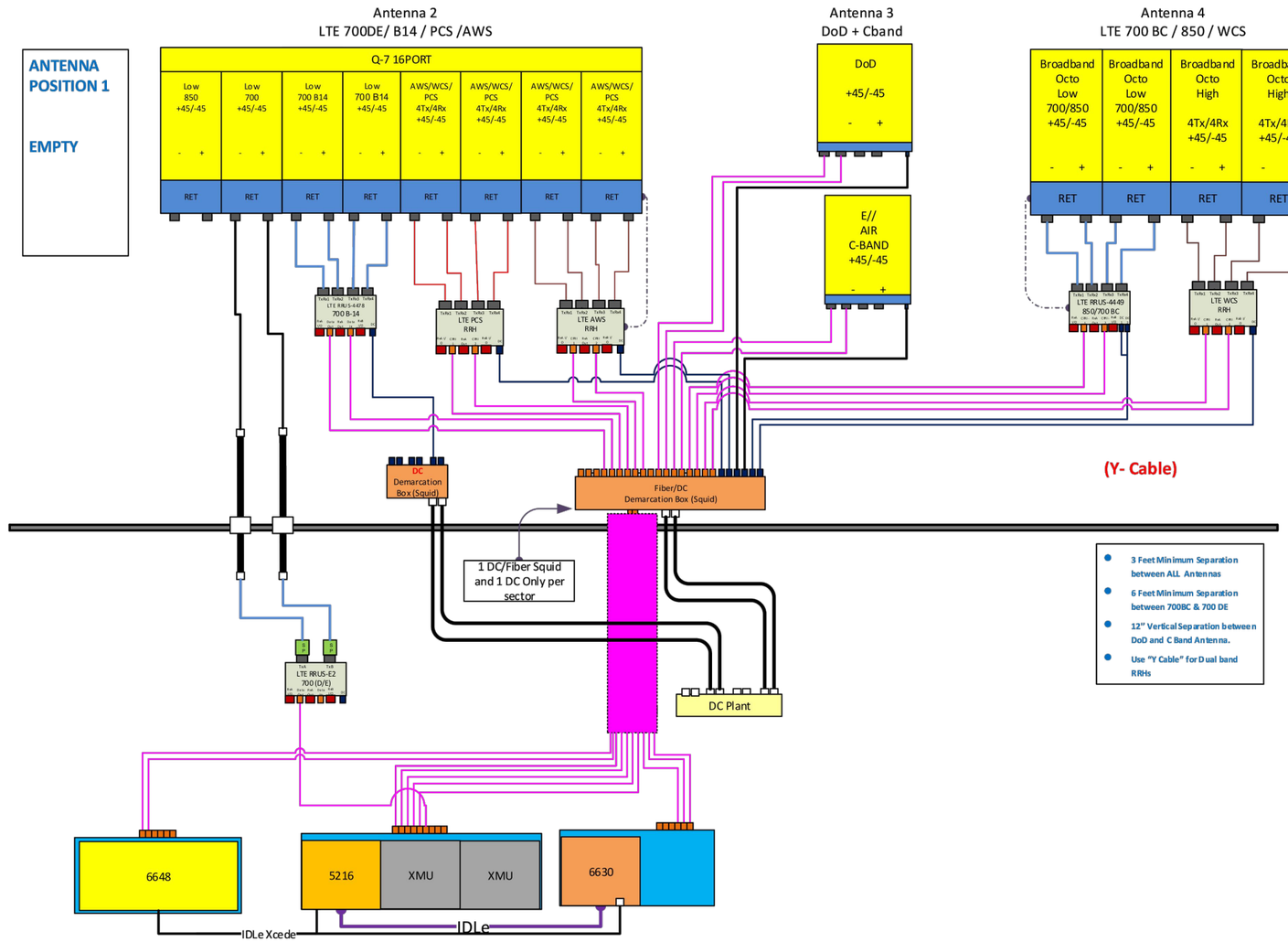
AT&T

GROUNDING DETAILS

SPLIT SECTOR, 5G NR 1DR-1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	G-1	C

FINAL–APPROVED V6 RFDS DATED 03/24/23



ALPHA & GAMMA SECTOR

RF PLUMBING DIAGRAM (1 / RF–1)
SCALE: N.T.S

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

NOTE:

REFER TO THE FINAL–APPROVED V6 RFDS DATED 3/24/23.

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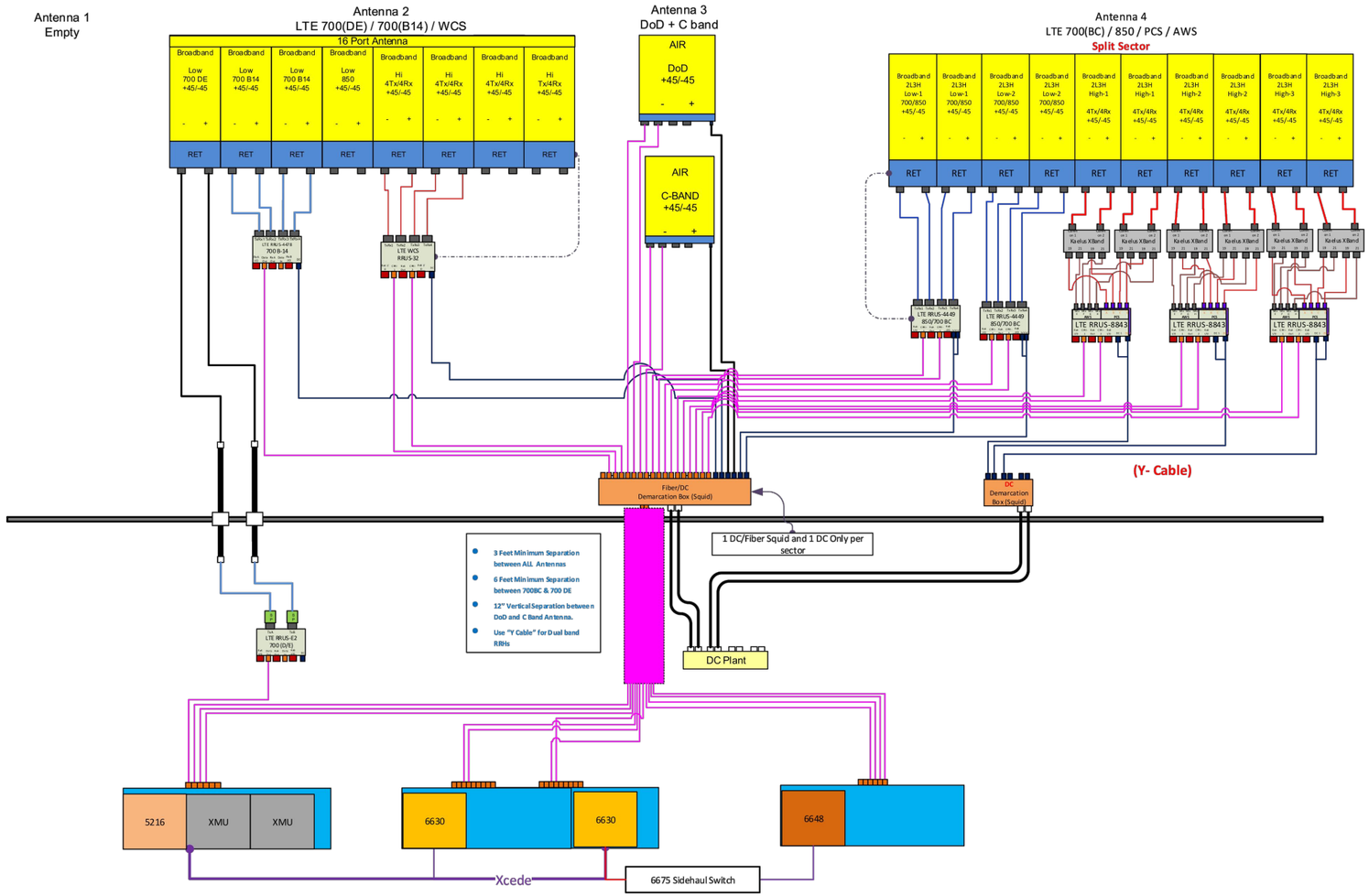
SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

AT&T

RF PLUMBING DIAGRAM
SPLIT SECTOR, 5G NR 1DR–1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	RF–1	C

FINAL–APPROVED V6 RFDS DATED 03/24/23



BETA SECTOR

RF PLUMBING DIAGRAM (1 / RF–2)

SCALE: N.T.S

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

NOTE:

REFER TO THE FINAL–APPROVED V6 RFDS DATED 3/24/23.

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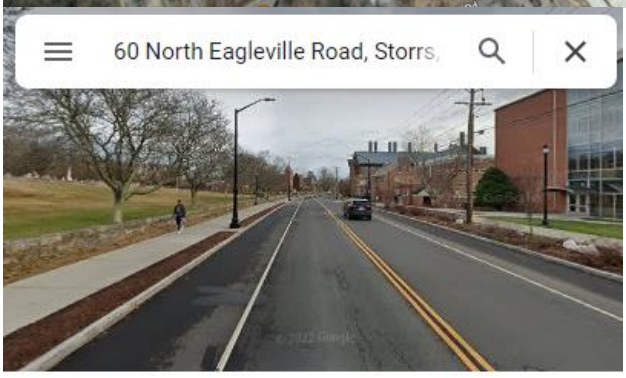
SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: GD

AT&T

RF PLUMBING DIAGRAM
SPLIT SECTOR, 5G NR 1DR–1, 5G NR 1SR CBAND, ANTENNA MOD, 5G NR RADIO, 5G NR ACTIVATION, 5G NR SOFTWARE RADIO

SITE NUMBER	DRAWING NUMBER	REV
CTL01077	RF–2	C

EXHIBIT 2



60 N Eagleville Rd

Directions Save Nearby Send to phone Share

60 N Eagleville Rd, Storrs, CT 06268

Property Location . | Map ID 9/ 23/ UC278/ / | Bldg Name | State Use 902V
Vision ID 6473 | Account # 9 23 UC278 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 1 | Print Date 11/9/2021 10:37:07 A

CURRENT OWNER

UNIVERSITY OF CONNECTICUT
INFORMATION CENTER 1 (NORTH)
U BOX 3252 FACILITIES MGMT
STORRS CT, 06269
STORRS MANS CT 06269

TOPO	UTILITIES	STRT / ROAD	LOCATION
1 Level		1 Paved	

SUPPLEMENTAL DATA

Alt Prcl ID
Census
Devel. Lot
GIS ID 9.23.UC278
Assoc Pid#

CURRENT ASSESSMENT

Description	Code	Appraised	Assessed
Ex C Land	21	3,000	2,100
Ex Com OB	25	2,500	1,800
	Total	5,500	3,900

6078
MANSFIELD, CT

VISION

RECORD OF OWNERSHIP

RECORD OF OWNERSHIP	BK-VOL/PAGE		SALE DATE	Q/U	V/I	SALE PRICE	VC
UNIVERSITY OF CONNECTICUT	0	0	10-01-2014	U	I	0	

PREVIOUS ASSESSMENTS (HISTORY)

Year	Code	Assessed	Year	Code	Assessed V	Year	Code	Assessed
2020	21	2,100	2019	21	2,100	2019	21	2,100
	25	1,800		25	1,800		25	1,800
	Total	3,900		Total	3,900		Total	3,900

EXEMPTIONS

Year	Code	Description	Amount
		Total	0.00

OTHER ASSESSMENTS

Code	Description	Number	Amount	Comm Int

This signature acknowledges a visit by a Data Collector or Assessor

ASSESSING NEIGHBORHOOD

Nbhd	Nbhd Name	B	Tracing	Batch
0001				

NOTES

INIT- FLDFM: (WENT TO FIND 6/29/04)
UNIVERSITY OF CONNECTICUT: INFORMATION
CENTER 1 (NORTH)
BUILT:1968 CONDITION: AVERAGE
9FT HIGH BRICK/GLASS BUILDING WITH
13SF TOTAL, BUILDING IS NO LONGER THERE

APPRAISED VALUE SUMMARY

Appraised Bldg. Value (Card)	0
Appraised Xf (B) Value (Bldg)	0
Appraised Ob (B) Value (Bldg)	2,500
Appraised Land Value (Bldg)	3,000
Special Land Value	0
Total Appraised Parcel Value	5,500
Valuation Method	C
Total Appraised Parcel Value	5,500

BUILDING PERMIT RECORD

Permit Id	Issue Date	Type	Description	Amount	Insp Date	% Comp	Date Comp	Comments

VISIT / CHANGE HISTORY

Date	Id	Type	Is	Cd	Purpost/Result
05-28-2019	WG			35	Field Review
05-24-2005	WT			16	Appraiser Date
06-29-2004	AP			15	Collector Date

LAND LINE VALUATION SECTION

B	Use Code	Description	Zone	Land Type	Land Units		Unit Price	Size Adj	Site Index	Cond.	Nbhd.	Nbhd. Adj	Notes	Location Adjustment		Adj Unit P	Land Value
1	902O	State OB	I		1	BL	3,000	1.00000	0	1.00		1.000		G1	1.0000	3,000	3,000
					Total Card Land Units	0.00	BL	Parcel Total Land Area	0.00						Total Land Value		3,000

Property Location . | Map ID 9/ 23/ UC278/ / | Bldg Name | State Use 902V

Vision ID 6473 | Account # 9 23 UC278 | Bldg # 1 | Sec # 1 of 1 | Card # 1 of 1 | Print Date 11/9/2021 10:37:07 A

CONSTRUCTION DETAIL

Element	Cd	Description
Style:	99	Vacant Land
Model	00	Vacant
Grade:		
Story Height		
Occupancy		
Exterior Wall 1		
Exterior Wall 2		
Roof Structure:		
Roof Cover		
Interior Wall 1		
Interior Wall 2		
Interior Flr 1		
Interior Flr 2		
Heat Fuel		
Heat Type:		
AC Type:		
Total Bedrooms		
Total Bthrms:		
Total Half Baths		
Extra Fixtures		
Total Rooms:		
Bath Style:		
Kitchen Style:		
Finished Bsmt		
Extra Kitchen		
Fireplace Stack		
FP Opening(s)		
FBM Type		

CONSTRUCTION DETAIL (CONTINUED)

Element	Cd	Description

CONDO DATA

Parcel Id		C		Owne	
		B		S	

Adjust Type	Code	Description	Factor%
Condo Flr			
Condo Unit			

COST / MARKET VALUATION

Building Value New	
Year Built	0
Effective Year Built	
Depreciation Code	
Remodel Rating	
Year Remodeled	
Depreciation %	0
Functional Obsol	0
Economic Obsol	0
Trend Factor	1
Condition	
Condition %	100
Percent Good	65
RCNLD	0
Dep % Ovr	
Dep Ovr Comment	
Misc Imp Ovr	
Misc Imp Ovr Comment	
Cost to Cure Ovr	
Cost to Cure Ovr Comment	

No Sketch

OB - OUTBUILDING & YARD ITEMS(L) / XF - BUILDING EXTRA FEATURES(B)

Code	Description	L/B	Units	Unit Price	Yr Blt	Cond. Cd	% Gd	Grade	Grade Adj.	Appr. Value
LUMP	Lump Sum Mis	L	2,500	1.00	2014		100		0.00	2,500

BUILDING SUB-AREA SUMMARY SECTION

Code	Description	Living Area	Floor Area	Eff Area	Unit Cost	Undeprec Value
	Ttl Gross Liv / Lease Area	0	0			0

EXHIBIT 3

March 4, 2022
August 17, 2022 (Rev.1)
March 3, 2023 (Rev.2)
April 7, 2023 (Rev.3)

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

RE:		
	AT&T Site Number:	CT1077
	FA Number:	10035012
	PACE Number:	MRCTB054183
	PT Number:	2051A11P0R
	TEP Site Number:	350546
	AT&T Site Name:	STORRS-UCONN
	Site Address:	1298 Storrs Road Storrs, CT 06268

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 mounts to determine its capability of supporting the following additional loading:

- (3) 4478 B14 RRH's (18.1"x13.4"x8.3" – Wt. = 60 lbs. /each) (Standoff)
- (2) RRUS-32 B66A RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each) (Standoff)
- (3) RRUS-32 B30 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each) (Standoff)
- (3) DC6-48-60-18-8F Surge Arrestors (31.4"x10.2" Ø – Wt. = 33 lbs. /each) (Tower Mounted)
- **(2) QD8616-7 Antennas (96.0"x22.0"x9.6" – Wt. = 150 lbs. /each)**
- **(1) QD6616-7 Antenna (72.0"x22.0"x9.6" – Wt. = 130 lbs. /each)**
- **(3) AIR6419 Antennas (28.0"x15.7"x6.7" – Wt. = 66 lbs. /each)**
- **(3) AIR6449 Antennas (30.6"x15.9"x10.6" – Wt. = 82 lbs. /each)**
- **(2) DMP65R-BU8DA Antennas (96.0"x20.7"x7.7" – Wt. = 119 lbs. /each)**
- **(1) MS-MBA-3.2-H4-L4 Antenna (72.0"x24.0"x26.0" – Wt. = 130 lbs. /each)**
- **(2) 4415 B25 RRH's (16.5"x13.4"x5.9" – Wt. = 46 lbs. /each) (Standoff)**
- **(4) 4449 B5/B12 RRH's (17.9"x13.2"x9.4" – Wt. = 73 lbs. /each) (Standoff)**
- **(3) 8843 B2/B66A RRH's (14.9"x13.2"x10.9" – Wt. = 72 lbs. /each) (Standoff)**
- **(6) DBC0051F3V51-2 Diplexers (8.5"x5.0"x4.5" - Wt. = 15 lbs. /each)**
- **(3) DC6-48-60-0-8C-EC Surge Arrestor (31.4"x10.2" Ø – Wt. = 33 lbs.) (Tower Mounted)**

*Proposed equipment shown in bold.

No original structural design documents or fabrication drawings were available for the existing mounts. TEP conducted a survey climb and mapping of the existing AT&T antenna mounts on June 23, 2022.

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 120 mph with a max basic wind speed with ice of 50 mph and a max ice thickness of 1.5 in. An escalated ice thickness of 1.78 in was used for this analysis.

- TEP NE considers this site to be exposure category C; tower is located near large, flat, open, terrain/grasslands.

- TEP NE considers this site to be topographic category 1; tower is located on flat terrain or the bottom of a hill or ridge.

- TEP NE considers this site to have a spectral response acceleration parameter at short periods, S_S, of 0.186 and a spectral response acceleration parameter at a period of 1 second, S_1, of 0.055.

- The mounts have 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 mounts have been analyzed with load combinations consisting of a 250 lbs live load in a worst case location on the mount.

- The existing mounts are secured to the existing guyed tower with threaded rods and clamps tightened around the tower leg. TEP NE considers the threaded rods to be the governing connection member.

Based on our evaluation, we have determined that the existing mounts **ARE NOT CAPABLE** of supporting the proposed installation. TEP NE recommends the following modifications:

- **Install proposed 2" std (2.38" O.D.) horizontal pipe secured to existing antenna pipe masts (typ. of 1 per sector, total of 3)**

- **Install proposed sector frame stabilizer, SitePro1 P/N SFS-V-L (or approved equal) (typ. of 1 per sector, total of 3).**

- **Install proposed 2" std. (2.38" O.D.) pipe brace secured to existing antenna pipe mast and tower leg (typ. of 1 per sector, total of 3).**

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Existing Mount Rating	14	LC32	152%	**FAIL**
Modified Mount Rating	64	LC32	73%	**PASS**

Reference Documents:

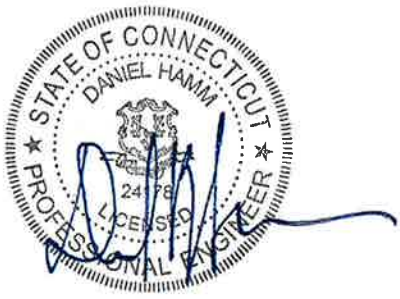
- Mount mapping report prepared by TEP NE.

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 mounts have been adequately secured to the tower structure per the mount manufacturer's specifications.
5. All components pertaining to AT&T's mounts 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 4

(REVISED)
STRUCTURAL ANALYSIS REPORT

For

AT&T SITE NUMBER: CT1077
SITE NAME: STORRS-UCONN
TEP SITE NUMBER: 351041

1298 Storrs Road
Storrs, CT 06268

Antennas Mounted on the Tower

Prepared for:

CENTERLINE COMMUNICATIONS

at&t

Dated: April 11, 2023
February 20, 2023 (Rev.1)
October 19, 2022

Prepared by:

TEP NORTHEAST

(TEP OPCO, LLC)
45 Beechwood Drive
North Andover, MA 01845
(P) 978.557.5553
www.tepgroup.net

SCOPE OF WORK:

TEP Northeast (TEP NE) has been authorized by AT&T to conduct a structural evaluation of the 317' guyed tower supporting the proposed AT&T's antennas located at elevation 185' above the ground level.

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

The following documents were used for our reference:

- Tower Drawings designed by Sabre Communications dated July 21, 1998.
- Foundation Drawings designed by Sabre Communications dated July 21, 1998.
- Tower Mapping Report prepared by ProVertic LLC dated July 15, 2022.
- Mount Structural Analysis Report prepared by Hudson Design Group LLC dated August 17, 2022.

CONCLUSION SUMMARY:

Based on our evaluation, we have determined that the existing tower **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 **96.2 %** - (Horizontals at Tower Section T10 from EL.100' to EL.120' Controlling).

TOWER BASE FOUNDATION SUMMARY:

Based on our evaluation, we have determined that the existing tower base foundation **is in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. The foundation is rated at **54.3 %** - (Bearing Controlling).

TOWER ANCHOR FOUNDATION SUMMARY:

Based on our evaluation, we have determined that the existing tower anchor foundation **is in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. The foundation is rated at **41.4 %** - (Shear Controlling).

APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	(1) Lightning Rod	317'-0"	Top of Spine
	(1) Beacon	317'-0"	Top of Spine
	(1) FM Antenna	305'-0"	Spine
	(1) FM Antenna	305'-0"	Spine
	(1) FM Antenna	305'-0"	Spine
	(1) 10' Omni	274'-0"	6' Standoff
	(1) 8' Omni	274'-0"	6' Standoff
	(1) 8' Omni	274'-0"	4' Standoff
	(1) WPA-70063-2CF-EDIN Antenna	259'-0"	4' Standoff
	(1) WPA-70063-2CF-EDIN Antenna	258'-0"	4' Standoff
	(1) WPA-70063-2CF-EDIN Antenna	258'-0"	3' Standoff
	(1) TMA	255'-0"	Tower Leg
	(1) TMA	250'-0"	Tower Leg
	(2) 15' Omni	252'-0"	3' Standoff w/ Stiff Arm
	(1) 15' Omni	252'-0"	3' Standoff w/ Stiff Arm
	(2) 15' Omni	246'-0"	3' Standoff w/ Stiff Arm
	(1) 15' Omni	246'-0"	3' Standoff w/ Stiff Arm
	(1) TMA	242'-0"	Tower Leg
	(1) FM Antenna	210'-0"	Tower Leg
	(1) FM Antenna	196'-0"	2' Standoff
AT&T	(3) 4478 B14 RRH	185'-0"	Sector Frame
AT&T	(2) RRUS-32 B66A RRH	185'-0"	Sector Frame
AT&T	(3) RRUS-32 B30 RRH's	185'-0"	Sector Frame
AT&T	(3) DC6-48-60-18-8F Surge Arrestors	185'-0"	Sector Frame
AT&T	***(2) QD8616-7 Antennas***	185'-0"	Sector Frame
AT&T	***(1) QD6616-7 Antenna***	185'-0"	Sector Frame
AT&T	***(3) AIR6419 Antennas***	185'-0"	Sector Frame
AT&T	***(3) AIR6449 Antennas***	185'-0"	Sector Frame
AT&T	***(2) DMP65R-BU8DA Antennas***	185'-0"	Sector Frame
AT&T	***(1) MS-MBA-3.2-H4-L4 Antenna***	185'-0"	Sector Frame
AT&T	***(2) 4415 B25 RRH's***	185'-0"	Sector Frame
AT&T	***(4) 4449 B5/B12 RRH's***	185'-0"	Sector Frame
AT&T	***(3) 8843 B2/B66A RRH's***	185'-0"	Sector Frame
AT&T	***(6) DBC0051F3V51-2 Diplexers***	185'-0"	Sector Frame
AT&T	***(3) DC6-48-60-0-8C-EC Surge Arrestors***	185'-0"	Sector Frame
	(1) DB872H120-X Antenna	170'-0"	Tower Leg
	(1) 8' Omni	165'-0"	3' Standoff
	(1) TMA	165'-0"	3' Standoff
	(2) Side Marker Lights	156'-0"	Tower Leg
	(2) 7' Ice Shields	126'-0"	Tower Leg

APPURTENANCES CONFIGURATION: (CONT.)

Tenant	Appurtenances	Elev.	Mount
	(2) 6' Dish Antennas	118'-0"	Pipe Mast
	(1) 10' Omni	109'-0"	2' Standoff
	(1) 6' Dish Antenna	105'-0"	Pipe Mast
	(1) Grid Dish	95'-0"	Tower Leg
	(1) 2' Yagi	92'-0"	Tower Leg
	(2) JAHH-45B-R3B Antennas	83'-0"	Platform
	(3) BXA-80063-4CF-EDIN Antennas	83'-0"	Platform
	(6) JAHH-65B-R3B Antennas	83'-0"	Platform
	(4) B66A RRH 4x45 RRH's	83'-0"	Platform
	(4) B25 RRH 4x30 RRH's	83'-0"	Platform
	(4) B13 RRH 4x30 RRH's	83'-0"	Platform
	(5) AHCA RRH's	83'-0"	Platform
	(1) 2' Dipole	71'-0"	Tower Leg
	(1) 6' Yagi	18'-0"	Tower Leg

Proposed AT&T Appurtenances shown in Bold.

AT&T EXISTING/PROPOSED COAX CABLES:

Tenant	Coax Cables	Elev.	Mount
AT&T	(3) Fiber Cables	186'-6"	Tower Face
AT&T	(6) DC Cables	186'-6"	Tower Face
AT&T	(6) 1-5/8" Cables	186'-6"	Tower Face
AT&T	***(6) DC Cables***	186'-6"	Tower Face

Proposed AT&T Coax Cables shown in Bold.

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft)	Pass/Fail	Comments
Pole	23.2%	287 – 317	PASS	
Leg	49.6%	60 – 80	PASS	
Diagonal	44.7%	80 – 100	PASS	
Horizontal	**96.2%**	100 – 120	**PASS**	**Controlling**
Top Girt	30.2%	280 – 287	PASS	
Bottom Girt	17.6%	60 – 80	PASS	
Guy A	53.3%	100 – 120	PASS	
Guy B	55.2%	100 – 120	PASS	
Guy C	55.7%	100 – 120	PASS	
Torque Arm	30.0%	160 – 180	PASS	
Bolt Checks	10.4%	--	PASS	

TOWER BASE FOUNDATION RESULTS SUMMARY:

Component	Max. Stress Ratio	Pass/Fail	Comments
Lateral (Sliding)	4.0%	PASS	
Bearing	**54.3%**	**PASS**	**Controlling**
Overturning	2.6%	PASS	
Pier Flexure	2.0%	PASS	
Pier Compression	8.0%	PASS	
Pad Flexure	27.1%	PASS	
Pad Shear	34.4%	PASS	

TOWER ANCHOR FOUNDATION RESULTS SUMMARY:

Component	Max. Stress Ratio	Pass/Fail	Comments
Shear	**41.4%**	**PASS**	**Controlling**
Uplift	32.2%	PASS	

DESIGN CRITERIA:

1. EIA/TIA-222-H Structural Standards for Steel Antenna Towers and Antenna Supporting Structures

   County: Tolland
   Ultimate Wind Speed: 120 mph (3 second gust)
   Structural Class: II
   Exposure Category: C
   Topographic Category: 1
   Nominal Ice Thickness: 1.0 inch

2. Approximate height above grade to proposed antennas: 185'

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

ASSUMPTIONS:

1. The appurtenances configuration is as stated in this report. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.

2. The tower and foundation are 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. The support mounts and platforms are not analyzed and are considered adequate to support the loading. The analysis is limited to the primary support structure itself.

SUPPORT RECOMMENDATIONS:

TEP NE recommends that the proposed antennas, RRHs, and surge arrestor be mounted on existing T-frames supported by the tower.

Reference TEP NE's Latest Construction Drawings for all component and connection requirements.

EXHIBIT 5

Radio Frequency Exposure Analysis Report

October 10, 2022

Centerline on behalf of AT&T

AT&T Site Name: STORRS-UCONN
AT&T Site Number: CTL01077
FA#: 10035012
USID: 59367

Site Address: 1298 STORRS ROAD, STORRS, CT 06268

Michael Fischer, P.E.
Registered Professional Engineer (Electrical)
Connecticut License Number 33928
Expires January 31, 2023

Signed 10 October 2022

Site Compliance Summary

AT&T Compliance Status:	Compliant
Cumulative Calculated Power Density (Ground Level):	2.12515 µW/cm^2
Cumulative General Population % MPE (Ground Level):	0.290785%

October 10, 2022

Centerline
Attn: Jennifer Iliades, Project Manager
750 W Center St, Suite 301
West Bridgewater, MA 02379

RF Exposure Analysis for Site: **STORRS-UCONN**

Centerline Communications, LLC ("Centerline") was contracted to analyze the proposed AT&T facility at **1298 STORRS ROAD, STORRS, CT 06268** 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.

Calculation Methodology

Centerline Communications, LLC 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.

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. The cumulative power density and cumulative % MPE are displayed at the bottom of the table.

Maximum Calculated Cumulative Power Density (Location: approximately 9' northeast 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 ($\mu W/cm^2$)	General Population MPE Limit ($\mu W/cm^2$)	General Population % MPE
AT&T A 1	QUINTEL QD8616-7 V1	700	13.04	185.00	4.00	30.00	2414.58	0.02760	466.67	0.00591
AT&T A 1	QUINTEL QD8616-7 V1	700	13.04	185.00	2.00	30.00	1207.29	0.01379	466.67	0.00296
AT&T A 1	QUINTEL QD8616-7 V1	1900	15.27	185.00	4.00	30.00	4042.23	0.03337	1000.00	0.00334
AT&T A 1	QUINTEL QD8616-7 V1	2300	15.56	185.00	4.00	30.00	4321.67	0.03657	1000.00	0.00366
AT&T A 2	ERICSSON AIR6419	3450	23.45	186.50	1.00	108.40	23989.95	0.23155	1000.00	0.02316
AT&T A 3	ERICSSON AIR6449	3700	23.45	183.50	1.00	108.40	23989.95	0.26602	1000.00	0.02660
AT&T A 4	CCI DMP65R-BU8D	700	12.25	185.00	4.00	30.00	2014.56	0.02906	466.67	0.00623
AT&T A 4	CCI DMP65R-BU8D	850	12.55	185.00	4.00	30.00	2158.65	0.02677	566.67	0.00472
AT&T A 4	CCI DMP65R-BU8D	2300	14.95	185.00	4.00	18.75	2344.56	0.02104	1000.00	0.00210
AT&T B 5	QUINTEL QD6616-7 V1	2100	11.93	185.00	4.00	30.00	1871.85	0.00018	1000.00	0.00002
AT&T B 5	QUINTEL QD6616-7 V1	700	11.93	185.00	2.00	30.00	935.93	0.00009	466.67	0.00002
AT&T B 5	QUINTEL QD6616-7 V1	2300	16.28	185.00	4.00	18.75	3185.82	0.00000	1000.00	0.00000
AT&T B 6	ERICSSON AIR6419	3450	23.45	186.50	1.00	108.40	23989.95	0.00170	1000.00	0.00017
AT&T B 7	ERICSSON AIR6449	3700	23.45	183.50	1.00	108.40	23989.95	0.00195	1000.00	0.00020
AT&T B 8	MATSING MS-MBA-3.2-H4-L4	700	10.14	185.00	4.00	30.00	1239.31	0.00087	466.67	0.00019
AT&T B 48	MATSING MS-MBA-3.2-H4-L4	850	12.80	185.00	4.00	30.00	2286.55	0.00021	566.67	0.00004
AT&T B 49	MATSING MS-MBA-3.2-H4-L4	1900	15.35	185.00	4.00	30.00	4113.21	0.00017	1000.00	0.00002
AT&T B 50	MATSING MS-MBA-3.2-H4-L4	2100	16.40	185.00	4.00	30.00	5238.19	0.00007	1000.00	0.00001
AT&T C 9	QUINTEL QD8616-7 V1	700	13.04	185.00	4.00	30.00	2414.58	0.00007	466.67	0.00001
AT&T C 9	QUINTEL QD8616-7 V1	700	13.04	185.00	2.00	30.00	1207.29	0.00003	466.67	0.00001
AT&T C 9	QUINTEL QD8616-7 V1	1900	15.27	185.00	4.00	30.00	4042.23	0.00001	1000.00	0.00000
AT&T C 9	QUINTEL QD8616-7 V1	2300	15.56	185.00	4.00	30.00	4321.67	0.00001	1000.00	0.00000
AT&T C 10	ERICSSON AIR6419	3450	23.45	186.50	1.00	108.40	23989.95	0.00187	1000.00	0.00019
AT&T C 11	ERICSSON AIR6449	3700	23.45	183.50	1.00	108.40	23989.95	0.00215	1000.00	0.00022
AT&T C 12	CCI DMP65R-BU8D	700	12.25	185.00	4.00	30.00	2014.56	0.00000	466.67	0.00000
AT&T C 13	CCI DMP65R-BU8D	850	12.55	185.00	4.00	30.00	2158.65	0.00001	566.67	0.00000
AT&T C 14	CCI DMP65R-BU8D	2300	14.95	185.00	4.00	18.75	2344.56	0.00000	1000.00	0.00000
Unknown A 15	GENERIC OMNI 5FT	850	5.96	81.00	1.00	25.25	99.60	0.01036	566.67	0.00183
Unknown A 16	GENERIC OMNI 5FT	850	5.96	81.00	1.00	25.25	99.60	0.01036	566.67	0.00183
Unknown A 17	GENERIC OMNI 5FT	850	5.96	79.00	1.00	25.25	99.60	0.01093	566.67	0.00193
Unknown A 18	GENERIC OMNI 5FT	850	5.96	76.00	1.00	25.25	99.60	0.01188	566.67	0.00210
Unknown A 19	GENERIC OMNI 5FT	850	5.96	270.00	1.00	25.25	99.60	0.00084	566.67	0.00015
Unknown A 20	GENERIC OMNI 5FT	850	5.96	281.50	1.00	25.25	99.60	0.00077	566.67	0.00014
Unknown A 21	GENERIC MICROWAVE 2FT	18000	36.95	109.50	1.00	0.10	495.45	0.00000	1000.00	0.00000
Unknown A 22	GENERIC MICROWAVE 2FT	18000	36.95	109.50	1.00	0.10	495.45	0.00100	1000.00	0.00010

Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density ($\mu W/cm^2$)	General Population MPE Limit ($\mu W/cm^2$)	General Population % MPE
Unknown A 23	GENERIC MICROWAVE 2FT	18000	36.95	115.00	1.00	0.10	495.45	0.00090	1000.00	0.00009
Unknown A 24	GENERIC PANEL 6FT	700	12.33	80.00	4.00	40.00	2736.02	0.29885	466.67	0.06404
Unknown A 25	GENERIC PANEL 6FT	850	12.62	80.00	4.00	40.00	2924.96	0.30862	566.67	0.05446
Unknown A 26	GENERIC PANEL 6FT	1900	15.84	80.00	4.00	40.00	6139.32	0.30779	1000.00	0.03078
Unknown A 27	GENERIC PANEL 6FT	2100	16.39	80.00	4.00	40.00	6968.19	0.32396	1000.00	0.03240
Unknown B 28	GENERIC PANEL 6FT	700	12.33	80.00	4.00	40.00	2736.02	0.00129	466.67	0.00028
Unknown B 29	GENERIC PANEL 6FT	850	12.62	80.00	4.00	40.00	2924.96	0.00003	566.67	0.00001
Unknown B 30	GENERIC PANEL 6FT	1900	15.84	80.00	4.00	40.00	6139.32	0.00007	1000.00	0.00001
Unknown B 31	GENERIC PANEL 6FT	2100	16.39	80.00	4.00	40.00	6968.19	0.00010	1000.00	0.00001
Unknown C 32	GENERIC PANEL 6FT	700	12.33	80.00	4.00	40.00	2736.02	0.00067	466.67	0.00014
Unknown C 33	GENERIC PANEL 6FT	850	12.62	80.00	4.00	40.00	2924.96	0.00084	566.67	0.00015
Unknown C 34	GENERIC PANEL 6FT	1900	15.84	80.00	4.00	40.00	6139.32	0.00047	1000.00	0.00005
Unknown C 35	GENERIC PANEL 6FT	2100	16.39	80.00	4.00	40.00	6968.19	0.00030	1000.00	0.00003
Unknown A 36	GENERIC PANEL 6FT	700	12.33	226.00	4.00	40.00	2736.02	0.03365	466.67	0.00721
Unknown A 37	GENERIC PANEL 6FT	850	12.62	226.00	4.00	40.00	2924.96	0.03476	566.67	0.00613
Unknown A 38	GENERIC PANEL 6FT	1900	15.84	226.00	4.00	40.00	6139.32	0.03466	1000.00	0.00347
Unknown A 39	GENERIC PANEL 6FT	2100	16.39	226.00	4.00	40.00	6968.19	0.03648	1000.00	0.00365
Unknown B 40	GENERIC PANEL 6FT	700	12.33	226.00	4.00	40.00	2736.02	0.00015	466.67	0.00003
Unknown B 41	GENERIC PANEL 6FT	850	12.62	226.00	4.00	40.00	2924.96	0.00000	566.67	0.00000
Unknown B 42	GENERIC PANEL 6FT	1900	15.84	226.00	4.00	40.00	6139.32	0.00001	1000.00	0.00000
Unknown B 43	GENERIC PANEL 6FT	2100	16.39	226.00	4.00	40.00	6968.19	0.00001	1000.00	0.00000
Unknown C 44	GENERIC PANEL 6FT	700	12.33	226.00	4.00	40.00	2736.02	0.00008	466.67	0.00002
Unknown C 45	GENERIC PANEL 6FT	850	12.62	226.00	4.00	40.00	2924.96	0.00010	566.67	0.00002
Unknown C 46	GENERIC PANEL 6FT	1900	15.84	226.00	4.00	40.00	6139.32	0.00005	1000.00	0.00001
Unknown C 47	GENERIC PANEL 6FT	2100	16.39	226.00	4.00	40.00	6968.19	0.00003	1000.00	0.00000
							Cumulative Power Density:	**2.12515 $\mu W/cm^2$**	**Cumulative % MPE:**	**0.29079%**

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.

Matt Schulzinger
RF EME Technical Writer
Centerline Communications, LLC

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@ct.gov
Internet: ct.gov/csc

Daniel F. Caruso
Chairman

December 5, 2008

UMTS #86
1077 MANSFIELD

Steven L. Levine
Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-078-080924** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at North Eagleville Road a/k/a 1298 Storrs Road, Mansfield, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges 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 notice dated September 23, 2008, including the placement of all necessary equipment and shelters within the tower compound. 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. Please be advised that the validity of this action shall expire one year from the date of this letter. 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,

S. Derek Phelps
Executive Director

SDP/MP/cm

c: The Honorable Elizabeth Patterson, Mayor, Town of Mansfield
Gregory Padick, Town Planner, Town of Mansfield
George L. Davis, Tower Manager, UCONN

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@ct.gov
www.ct.gov/csc

August 1, 2006

Elizabeth H. Lankenau, AICP
Planner
Kise Straw & Kolodner Inc.
123 South Broad Street, Suite 1270
Philadelphia, PA 19109

RE: **EM-CING-078-156-107-101-060717** - New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 1298 Storrs Road, Mansfield; 1 Burwell Road, West Haven; South Orange Center Road, Orange; and 15 (aka 8) Dwight Street, North Haven, Connecticut.

Dear Ms. Lankenau:

At a public meeting held on June 27, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify the Mansfield, West Haven, and Orange telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies, with the condition that a revised structural for the Mansfield site (taking into account Verizon Wireless' proposal) is submitted to the Council prior to construction and any recommendations by the structural engineer are implemented prior to the antenna installation. The Council tabled the North Haven proposal until the structural analysis report for that site is received.

The proposed modifications are to be implemented as specified here and in your notice dated July 13, 2006, including the placement of all necessary equipment and shelters within the tower compounds. 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 existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of these facilities 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,

Colin C. Tait for

Colin C. Tait
Chairman

CCT/laf

c: See List Attachment.

G:\EM\CINGULAR\Mansfield\dc072706(multiplesites)-NoHaventabled.DOC

CSC
CONNECTICUT SITING COUNCIL

List Attachment.

c: The Honorable Kevin J. Kopetz, First Selectman, Town of North Haven
Arthur Hausman, Zoning Enforcement Officer, Town of North Haven
The Honorable James M. Zeoli, First Selectman, Town of Orange
Paul Dinice, Zoning Enforcement Officer, Town of Orange
The Honorable John M. Picard, Mayor, City of West Haven
Edwin Selden, City Planner, City of West Haven
The Honorable Elizabeth Patterson, Mayor, Town of Mansfield
Martin H. Berliner, Town Manager, Town of Mansfield
Gregory Padick, Town Planner, Town of Mansfield
Karen L. Couture, Site Acquisition Specialist
Thomas F. Flynn III, Esq., Sprint-Nextel Communications
Kenneth C. Baldwin, Esq., Robinson & Cole LLP
Christine Farrell, T-Mobile
Christopher B. Fisher, Esq., Cuddy & Feder LLP
Michele G. Briggs, New Cingular Wireless PCS, LLC
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels, LLP
George L. Davis, Tower Manager

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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VIRGINIA BEACH ,VA 23462

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CVS STORE # 4935
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VIRGINIA BEACH ,VA 23462

UPS Access Point™
THE UPS STORE
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VIRGINIA BEACH ,VA 23456

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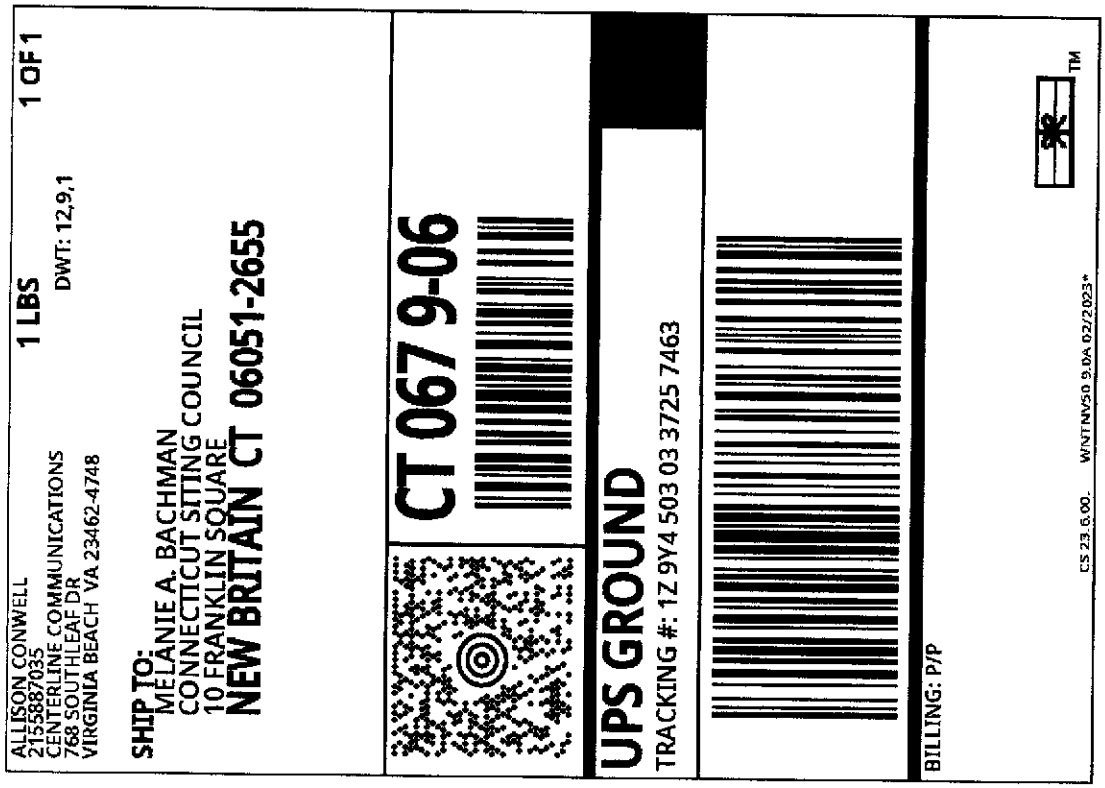

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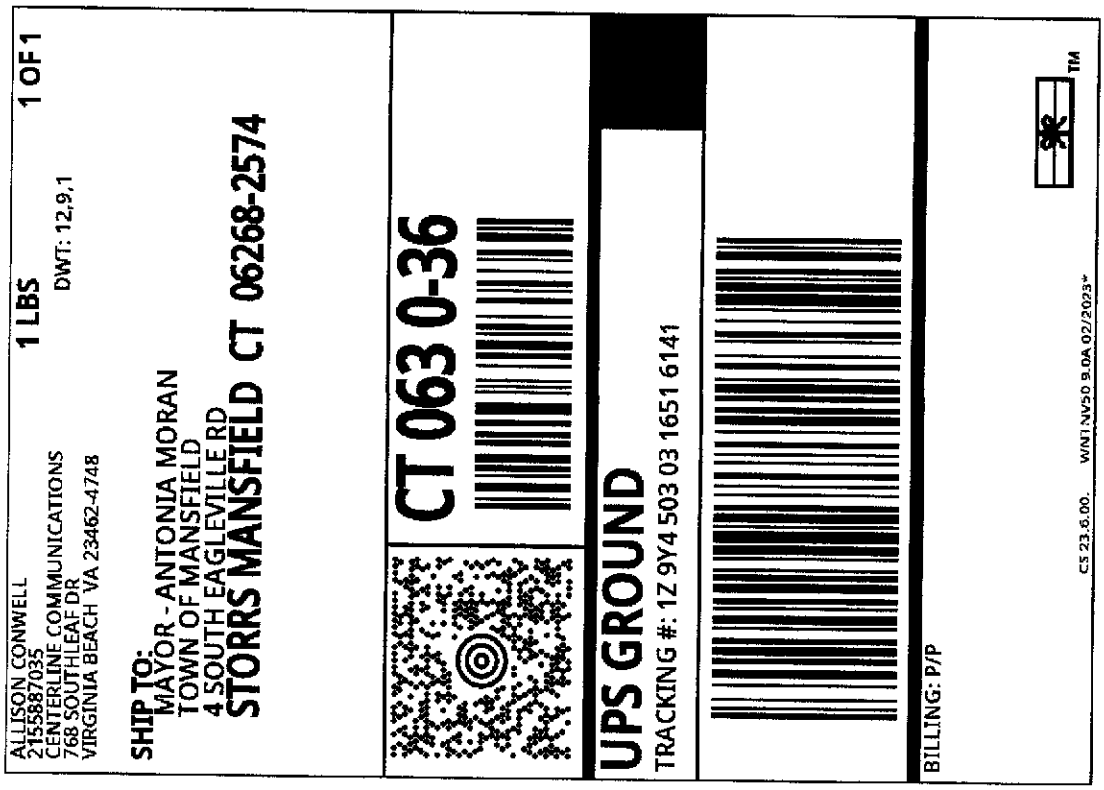

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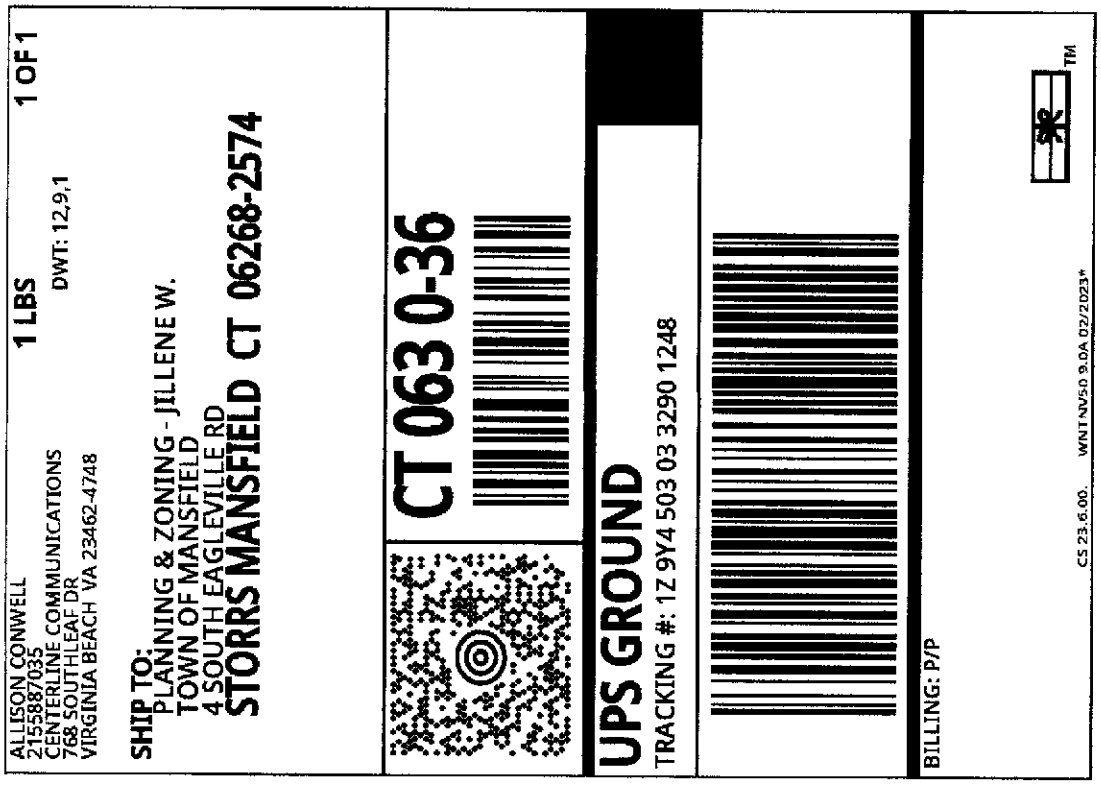

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