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

May 31, 2024

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

Re: Notice of Exempt Modifications – AT&T Site CT5375
AT&T Telecommunications Facility @ 1657 Willbur Cross Highway Kensington, CT 06037

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC ("AT&T") currently maintains a wireless telecommunications facility on an existing +/- 175' monopole tower at the above referenced address, latitude 41.6062919, longitude -72.749589. Said monopole tower is owned and managed by Berlin Volunteer Fire Department.

AT&T desires to modify its existing telecommunications facility by replacing six (6) antennas, removing (6) TMAs, replacing (6) RRUs, adding (3) RRUs, replacing (1) surge arrestor, replacing (3) cables and adding (1) cable, as more particularly detailed and described on the enclosed Construction Drawings prepared by TEP Northeast, last revised on May 29, 2024. The centerline height of the existing antennas is and will remain at 170 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: Arosha Jayawickrema, Town Manager of the Town of Berlin: Maureen Giusti, Town Planner/Zoning Enforcement Officer for the Town of Berlin: Berlin Volunteer Fire Department as tower 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.
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 April 17, 2024 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).

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 Town of Berlin Original Tower Approval Records
Exhibit 7 – Notice Deliver Confirmations

Cc:
Arosha Jayawickrema as elected official, Town of Berlin
Maureen Giusti, Town Planner/Zoning Officer, Town of Berlin
Berlin Volunteer Fire Department, as Tower and Property Owner

EXHIBIT 1

PROJECT INFORMATION

SCOPE OF WORK:	ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE: • NEW AT&T ANTENNAS: TPA65R-BU6DA-K (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T ANTENNAS: NNHHS4-65B-R5 (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T RRUS: 8863 N77G (TYP. OF 1 PER SECTOR, TOTAL OF 3). • NEW AT&T RRUS 4490 B5/B12 (700/850) @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3) • INEW AT&T RRUS 4890 B25/B66 (PCS/AWS) @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3) • NEW AT&T SURGE ARRESTOR: DC9-48-60-24-8C-EV (TOTAL OF 1). • NEW AT&T (3) 6AWG DC POWER CABLES & (1) 24 PAIRS OF FIBER RUNS. • NEW AT&T LOW PROFILE PLATFORM, SITEPRO-1 PART # RMQLP-4120-H10. • NEW AT&T CALIBRATION CABLES FOR 8863 RRUS ITEMS TO BE MOUNTED IN EQUIPMENT LOCATION: • NEW AT&T RRUS 4478 B14 @ POS. 1 (TYP. OF 1 PER SECTOR, TOTAL OF 3) • NEW AT&T TSXDC-4310FM RRU INTEGRATED SURGE ARRESTORS (TYP. OF 4 PER SECTOR, TOTAL OF 12) • ADD (1) 6651 +XCEDE CABLE FINAL: 2x6630+1xXMU+IDLE+1x6651+XCEDE CABLE ITEMS TO BE REMOVED: • EXISTING AT&T ANTENNA: 800-10121 (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T ANTENNA: HPA-65R-BUU-H6 (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T RRUS: RRUS-11 B12 (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T RRUS: RRUS-32 B2 (TYP. OF 1 PER SECTOR, TOTAL OF 3). • EXISTING AT&T TMAS: LGP21401 (TYP. OF 2 PER SECTOR, TOTAL OF 6). • EXISTING AT&T SURGE ARRESTOR (TOTAL OF 1) WITH (2) DC POWER & (1) FIBER. ITEMS TO REMAIN: • NONE.
RFDS:	AS-BUILT IN PROGRESS V4 DATED: 04/18/2024
SITE ADDRESS:	1657 WILLBUR CROSS HIGHWAY KENSINGTON, CT 06037
LATITUDE:	41.6062919° N, 41° 36' 22.65" N
LONGITUDE:	-72.7495989° W, 72° 44' 58.55" W
TYPE OF SITE:	MONOPOLE / INDOOR EQUIPMENT
STRUCTURE HEIGHT:	176'-0"±
RAD CENTER:	170'-0"±
CURRENT USE:	TELECOMMUNICATIONS FACILITY
PROPOSED USE:	TELECOMMUNICATIONS FACILITY

DRAWING INDEX

SHEET NO.	DESCRIPTION	REV.
T-1	TITLE SHEET	1
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A-1	EQUIPMENT PLAN	1
A-2	ANTENNA LAYOUT PLANS & ELEVATION	1
A-3	DETAILS	1
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RF-1	RF PLUMBING DIAGRAM	1

NOTE TO GENERAL CONTRACTOR: (PRIOR TO CONSTRUCTION COMPLETION)

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

AT&T

SITE NUMBER: CTL05375

SITE NAME: BERLIN EAST CENTRAL

FA CODE: 10070926

PACE ID: MRCTB055164, MRCTB054149, MRCTB054885, MRCTB054281, MRCTB054292

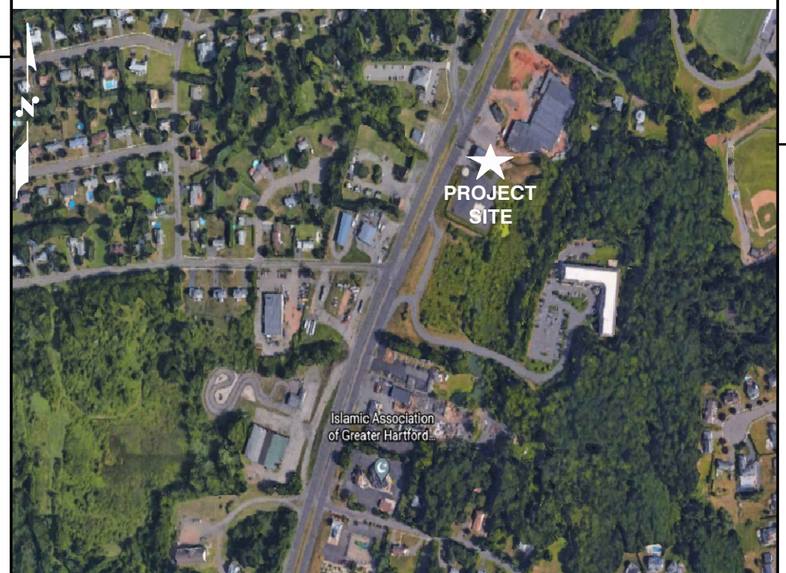
PROJECT: 5G NR 1SR CBAND UPGRADE

ISSUED FOR PERMITTING

VICINITY MAP

DIRECTIONS TO SITE:

START OUT GOING EAST ON ENTERPRISE DR TOWARD CAPITAL BLVD.TURN LEFT ONTO CAPITAL BLVD.TURN LEFT ONTO WEST ST.MERGE ONTO I-91 S VIA THE RAMP ON THE LEFT TOWARD NEW HAVEN.MERGE ONTO CT-9 N VIA EXIT 22N TOWARD NEW BRITAIN.TAKE THE CT-372 EXIT, EXIT 21, TOWARD EAST BERLIN/US-5 N/CT-15 N.KEEP RIGHT TO TAKE THE RAMP TOWARD BERLIN/HARTFORD.TURN RIGHT ONTO MILL ST/CT-372.TURN LEFT ONTO WORTHINGTON RDG/CT-372.TURN LEFT.TAKE THE US-5/CT-15 S RAMP TOWARD NEW HAVEN.TURN SLIGHT RIGHT ONTO BERLIN TURNPIKE/US-5 S/CT-15 S.TURN LEFT ONTO WORTHINGTON RDG.1645 BERLIN TPKE.



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

CENTERLINE
750 WEST CENTER STREET
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WEST BRIDGEWATER, MA 02379

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

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

AT&T

TITLE SHEET
5G NR 1SR CBAND

SITE NUMBER	DRAWING NUMBER	REV
CTL05375	T-1	1

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	RADIATION CENTER LINE ANTENNAS	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	REFERENCE		

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

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

SITE NUMBER: CTL05375
SITE NAME: BERLIN EAST CENTRAL

1657 WILLBUR CROSS HIGHWAY
KENSINGTON, CT 06037
HARTFORD COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
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A	02/18/22	ISSUED FOR REVIEW	JP	AT	DPH

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

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

AT&T

GENERAL NOTES
5G NR 1SR CBAND

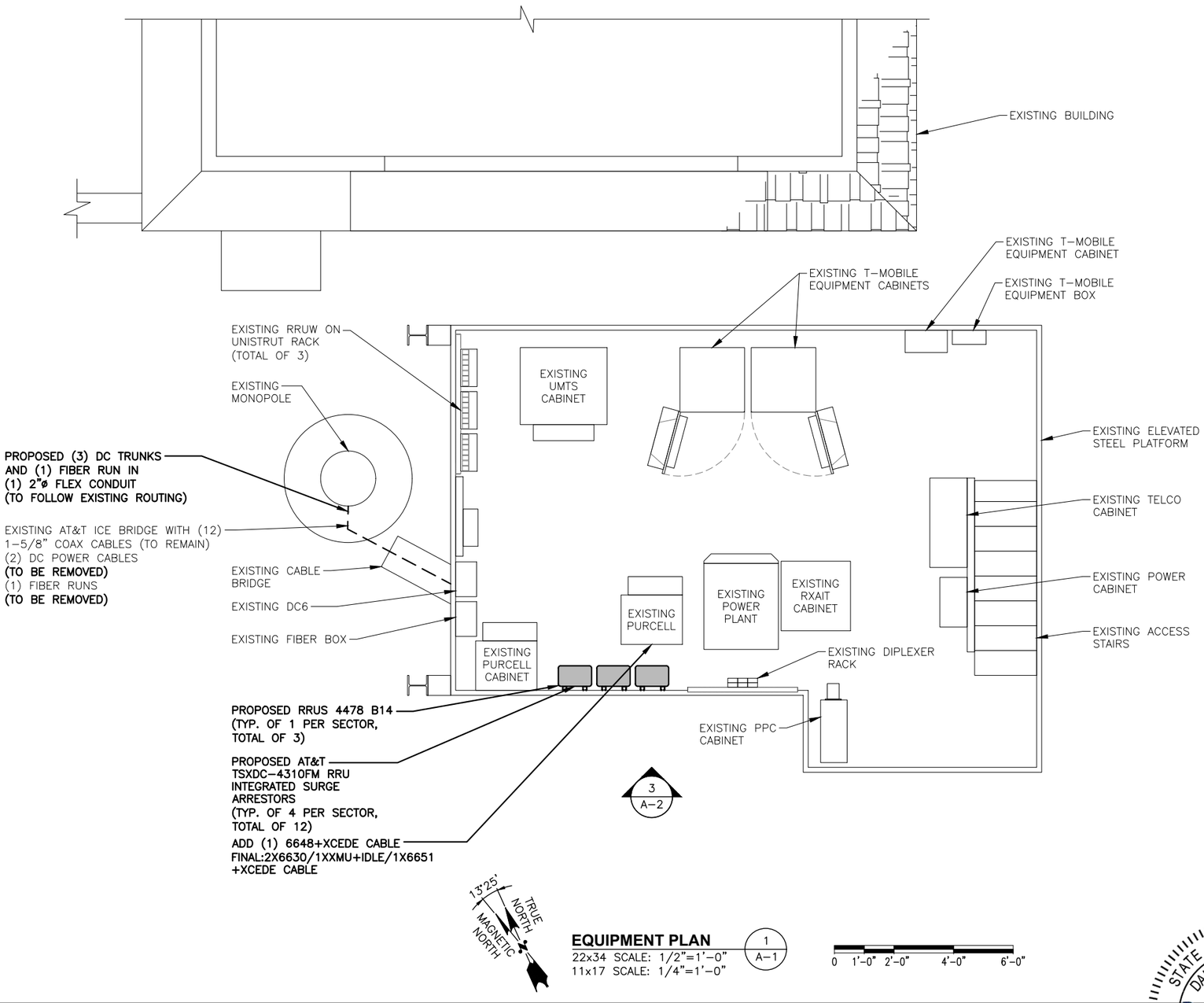
SITE NUMBER	DRAWING NUMBER	REV
CTL05375	GN-1	1

NOTE:

REFER TO THE FINAL RF DATA SHEET AS-BUILT IN PROGRESS V4 DATED: 04/18/2024 FOR FINAL ANTENNA SETTING.

NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.



EQUIPMENT PLAN (1 / A-1)

22x34 SCALE: 1/2"=1'-0"

11x17 SCALE: 1/4"=1'-0"

0 1'-0" 2'-0" 4'-0" 6'-0"

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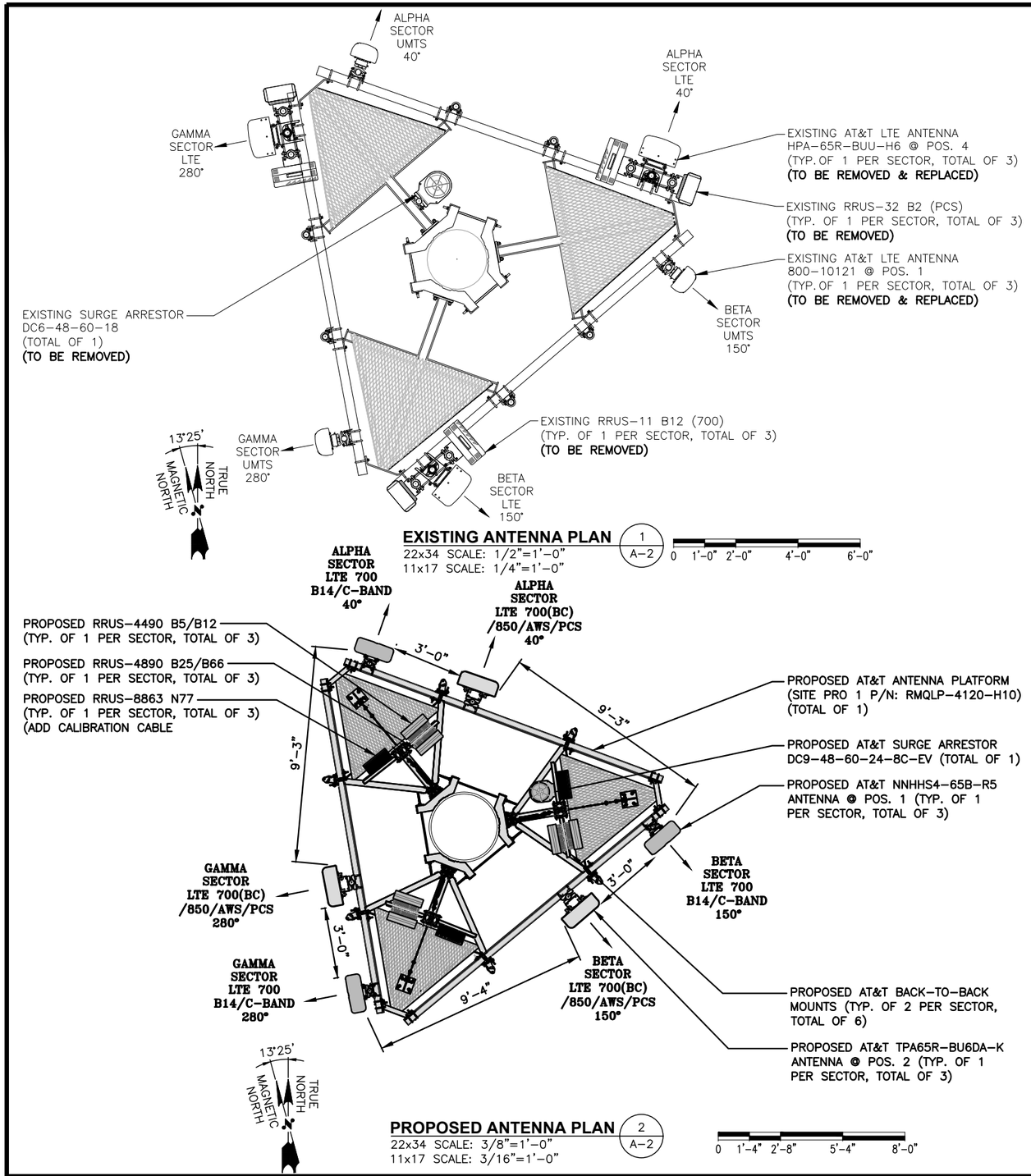
STATE OF CONNECTICUT
DANIEL P. HAMM
LICENSED PROFESSIONAL ENGINEER
dc.24.174

AT&T

COMPOUND & EQUIPMENT PLANS
5G NR 1SR CBAND

SITE NUMBER	DRAWING NUMBER	REV
CTL05375	A-1	1



EXISTING ANTENNA PLAN

1 / A-2

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

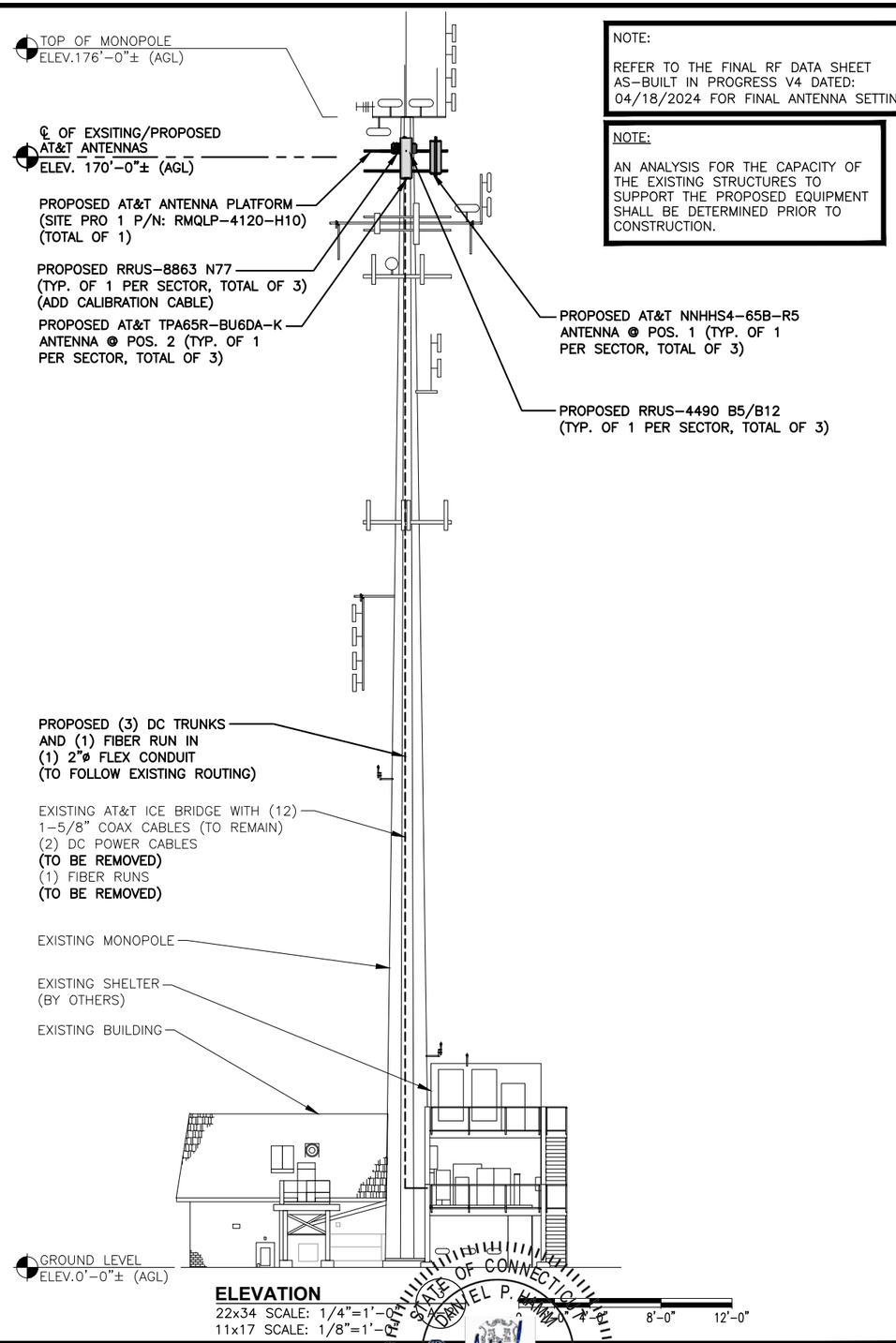
0 1'-0" 2'-0" 4'-0" 6'-0"

PROPOSED ANTENNA PLAN

2 / A-2

22x34 SCALE: 3/8"=1'-0"
11x17 SCALE: 3/16"=1'-0"

0 1'-4" 2'-8" 5'-4" 8'-0"



ELEVATION

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

0 2'-4" 4'-0" 8'-0" 12'-0"

NOTE:

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AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

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

AT&T

ANTENNA LAYOUT PLANS & ELEVATION
5G NR 1SR CBAND

SITE NUMBER	DRAWING NUMBER	REV
CTL05375	A-2	1

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	PROPOSED	LTE 700 B14/C-BAND	NNHHS4-65B-R5	72.8"X19.6"X7.8"	170'-0"±	40°	–	(P)(G)(1) 4478 B14 (P)(1) 8863 N77	18.1"x13.4"x8.3" 18.8"x14.8"x6.2"	(P)(1) CALIBRATION CABLE	(P) (1) RAYCAP DC9-48-60-24-8C-EV
A2	PROPOSED	LTE 700(BC) /850/AWS/PCS	TPA65R-BU6DA-K	71.2"X20"X7.7"	170'-0"±	40°	–	(P)(1) 4490 B5/B12 (700/850) (P)(1) 4890 B25/B66 (PCS/AWS)	17.5"x15.1"x6.8" 17.5"x15.1"x6.8"	(P)(3) DC POWER & (1) FIBER	
A3	–	–	–	–	–	–	–	–	–	–	
A4	–	–	–	–	–	–	–	–	–	–	
B1	PROPOSED	LTE 700 B14/C-BAND	NNHHS4-65B-R5	72.8"X19.6"X7.8"	170'-0"±	150°	–	(P)(G)(1) 4478 B14 (P)(1) 8863 N77	18.1"x13.4"x8.3" 18.8"x14.8"x6.2"	(P)(1) CALIBRATION CABLE	1
B2	PROPOSED	LTE 700(BC) /850/AWS/PCS	TPA65R-BU6DA-K	71.2"X20"X7.7"	170'-0"±	150°	–	(P)(1) 4490 B5/B12 (700/850) (P)(1) 4890 B25/B66 (PCS/AWS)	17.5"x15.1"x6.8" 17.5"x15.1"x6.8"	–	
B3	–	–	–	–	–	–	–	–	–	–	
B4	–	–	–	–	–	–	–	–	–	–	
C1	PROPOSED	LTE 700 B14/C-BAND	NNHHS4-65B-R5	72.8"X19.6"X7.8"	170'-0"±	280°	–	(P)(G)(1) 4478 B14 (P)(1) 8863 N77	18.1"x13.4"x8.3" 16"x15"x6"	(P)(1) CALIBRATION CABLE	1
C2	PROPOSED	LTE 700(BC) /850/AWS/PCS	TPA65R-BU6DA-K	71.2"X20"X7.7"	170'-0"±	280°	–	(P)(1) 4490 B5/B12 (700/850) (P)(1) 4890 B25/B66 (PCS/AWS)	17.5"x15.1"x6.8" 17.5"x15.1"x6.8"	–	
C3	–	–	–	–	–	–	–	–	–	–	
C4	–	–	–	–	–	–	–	–	–	–	

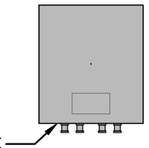
FINAL ANTENNA SCHEDULE (1 / A-3)
SCALE: N.T.S

RRU CHART

QUANTITY	MODEL	SIZE (L x W x D)
P(3)	4490 B5/B12 (700/850)	17.5"x15.1"x6.8"
P(3)	4890 B25/B66 (PCS/AWS)	17.5"x15.1"x6.8"
P(3)	8863 N77	18.8"x14.8"x6.2"
P(G)(3)	4478 B14	18.1"x13.4"x8.3"

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:
SEE RFDS FOR RRH FREQUENCY AND MODEL NUMBER



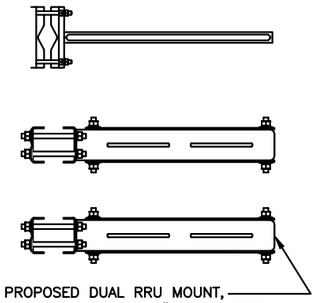
PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRUS DETAIL (2 / A-3)
SCALE: N.T.S

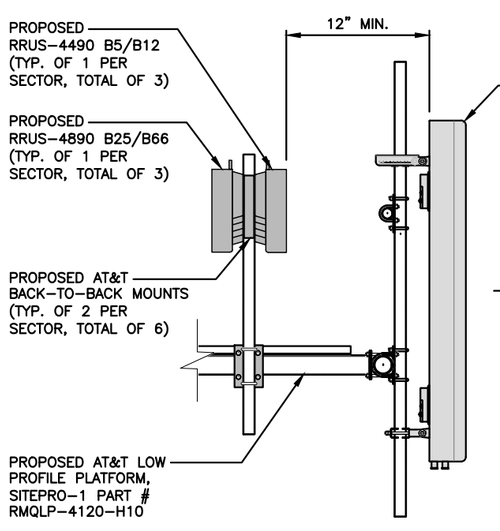
NOTE:
REFER TO THE FINAL RF DATA SHEET AS-BUILT IN PROGRESS V4 DATED: 04/18/2024 FOR FINAL ANTENNA SETTING.

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

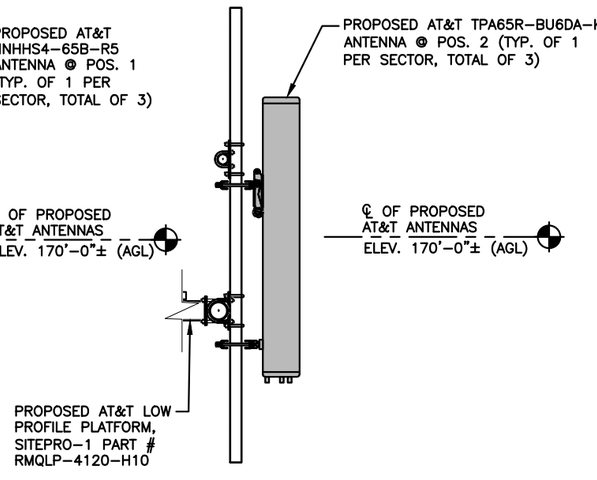


PROPOSED DUAL RRU MOUNT, ROSENBERGER PART #D220RRUDSM (TYP. OF 2 PER SECTOR, TOTAL OF 6)

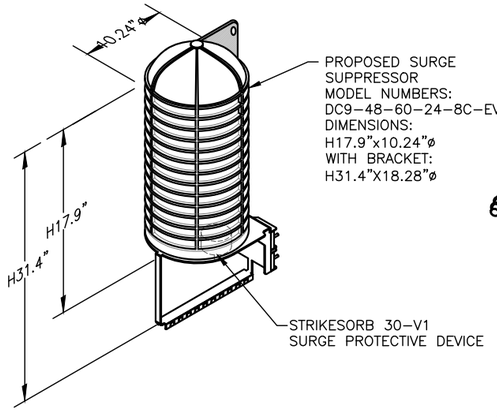
BACK TO BACK RRU MOUNT DETAIL (3 / A-3)
SCALE: N.T.S



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

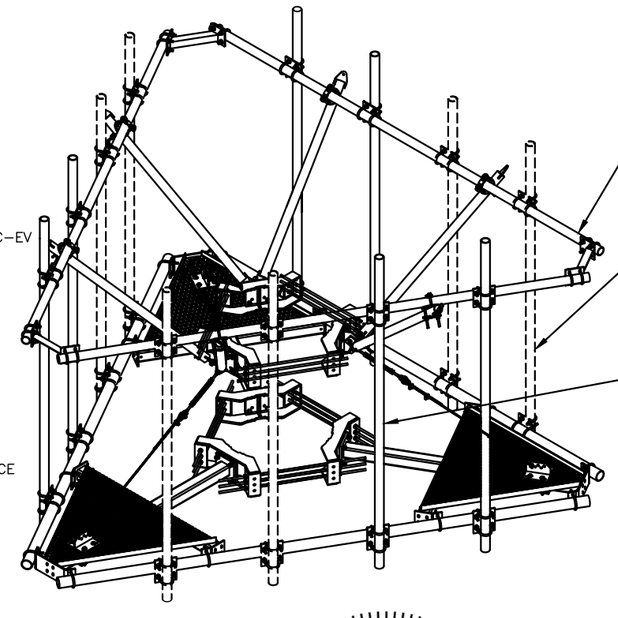


PROPOSED ANTENNA @ POS. 2 (5 / A-3)
22x34 SCALE: 1"=1'-0"
11x17 SCALE: 1/2"=1'-0"
0 0'-6" 1'-0" 2'-0" 3'-0"



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DC SURGE SUPPRESSOR DETAIL (6 / A-3)
SCALE: N.T.S



14'-6" LOW PROFILE PLATFORM (RMQLP-4120-H10) (7 / A-3)
SCALE: N.T.S

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

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

SITE NUMBER: CTL05375
SITE NAME: BERLIN EAST CENTRAL

1657 WILLBUR CROSS HIGHWAY
KENSINGTON, CT 06037
HARTFORD COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/29/24	ISSUED FOR PERMITTING	AM	AT	DPH
0	08/05/22	ISSUED FOR REVIEW	JP	AT	DPH
A	02/18/22	ISSUED FOR REVIEW	JP	AT	DPH

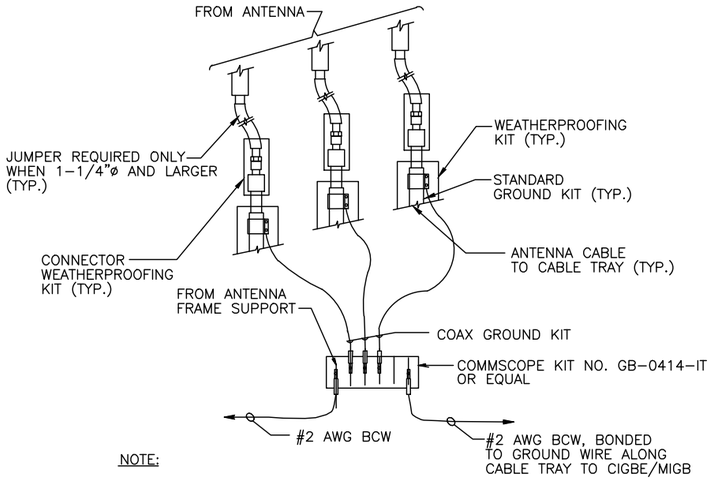
SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: JP

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

AT&T

DETAILS
5G NR 1SR CBAND

SITE NUMBER	DRAWING NUMBER	REV
CTL05375	A-3	1



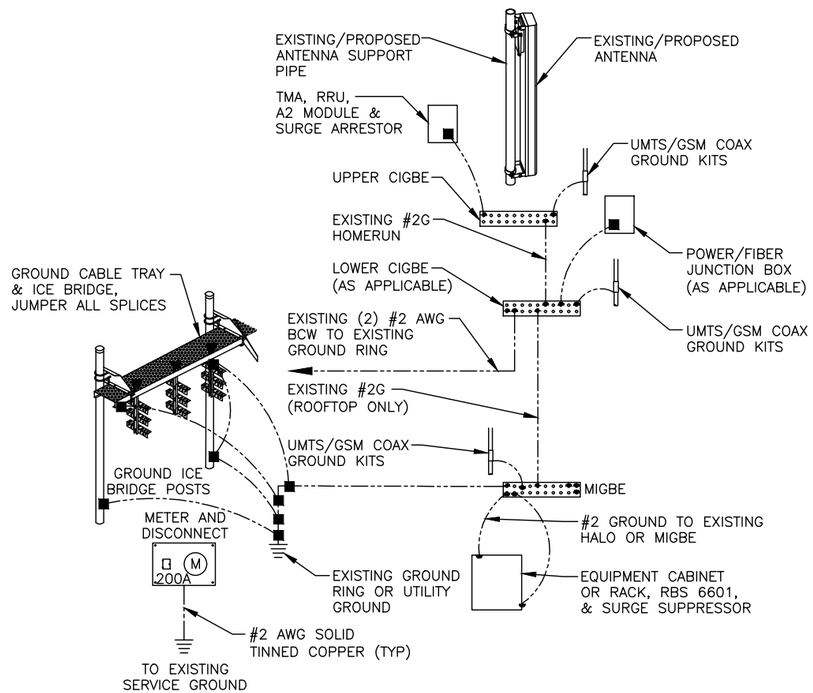
NOTE:

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



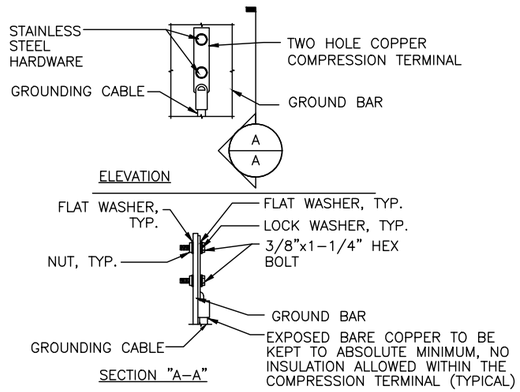
GROUNDING RISER DIAGRAM

SCALE: N.T.S

2 / G-1

AT&T GROUNDING STANDARDS TO BE FOLLOWED:

ATT-TP-76416
ATT-TP-76300
ATT-CEM-18002
ATT-002-290-531
ATT-002-290-701
ATT-CEM-23001



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

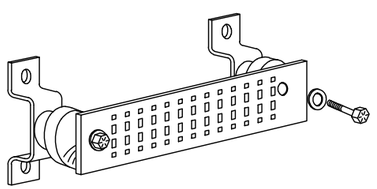
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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

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

CENTERLINE
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SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL05375
SITE NAME: BERLIN EAST CENTRAL

1657 WILLBUR CROSS HIGHWAY
KENSINGTON, CT 06037
HARTFORD COUNTY

AT&T
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

NO.	DATE	REVISIONS	BY	CHK	APP'D
1	05/29/24	ISSUED FOR PERMITTING	AM	AT	DPH
0	08/05/22	ISSUED FOR REVIEW	JP	AT	DPH
A	02/18/22	ISSUED FOR REVIEW	JP	AT	DPH

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

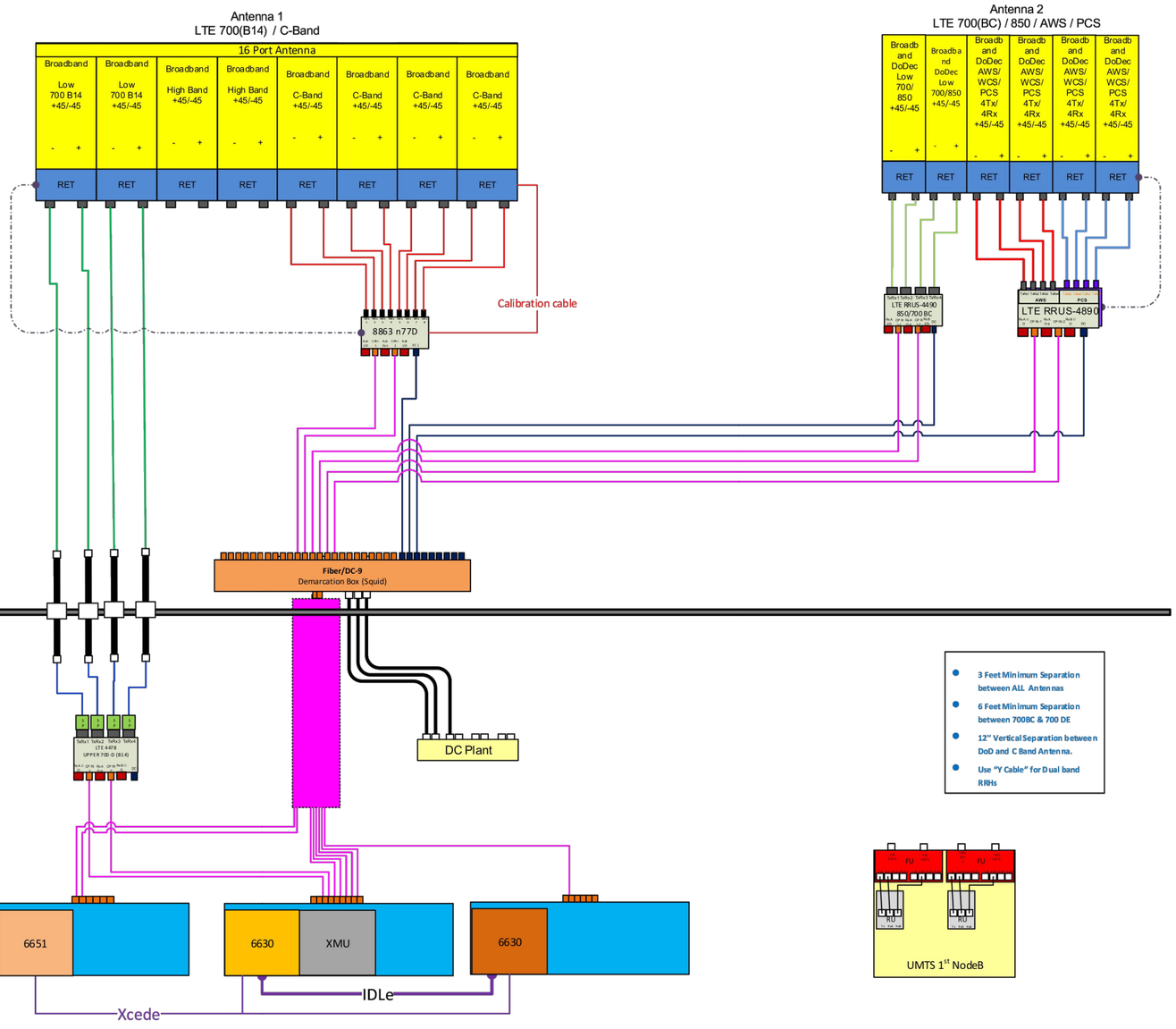
STATE OF CONNECTICUT
DANIEL P. HAMM
LICENSED PROFESSIONAL ENGINEER
Dec 24 '24

AT&T

GROUNDING DETAILS
5G NR 1SR CBAND

SITE NUMBER	DRAWING NUMBER	REV
CTL05375	G-1	1

AS-BUILT IN PROGRESS V4 DATED: 04/18/2024



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 RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

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

CENTERLINE
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SUITE #301
WEST BRIDGEWATER, MA 02379

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1657 WILLBUR CROSS HIGHWAY
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NO.	DATE	REVISIONS	BY	CHK	APP'D
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A	02/18/22	ISSUED FOR REVIEW	JP	AT	DPH

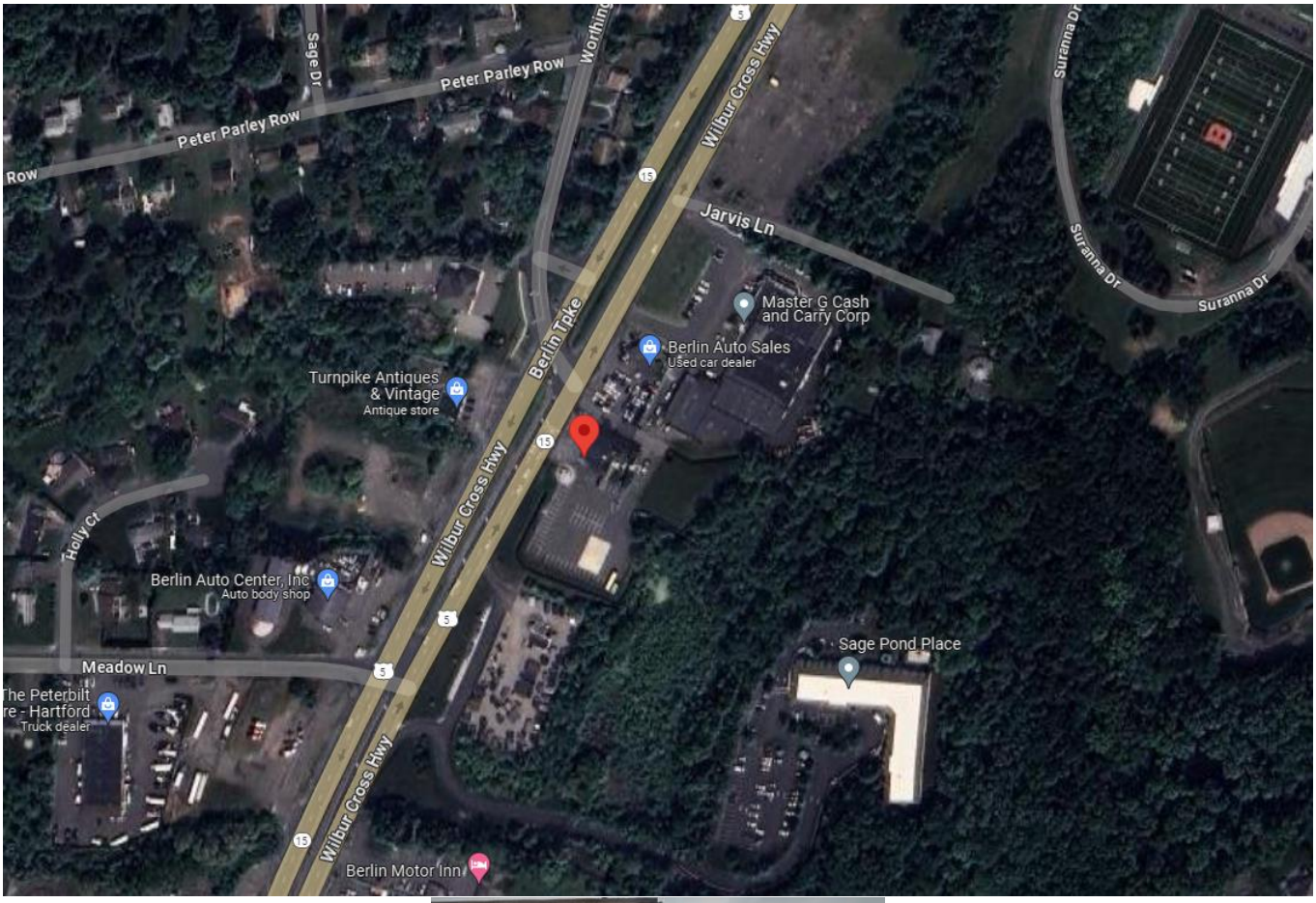
SCALE: AS SHOWN | DESIGNED BY: AT | DRAWN BY: JP

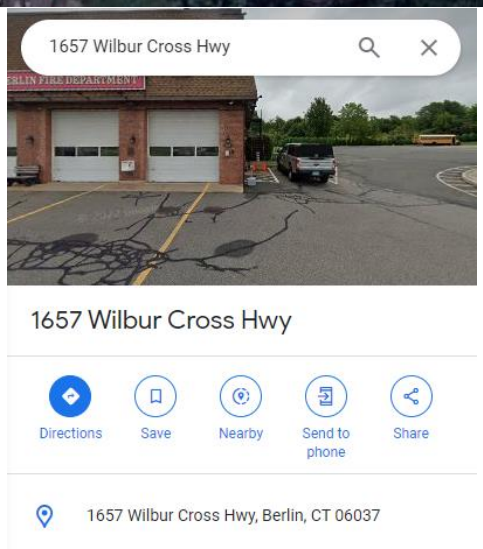
AT&T

RF PLUMBING DIAGRAM
5G NR 1SR CBAND

SITE NUMBER	DRAWING NUMBER	REV
CTL05375	RF–1	1

EXHIBIT 2


Peter Parley Row
Sage Dr
Wilbur Cross Hwy
Jarvis Ln
Suranna Dr
Master G Cash and Carry Corp
Berlin Auto Sales
Used car dealer
Turnpike Antiques & Vintage
Antique store
Berlin Tpke
Holly Ct
Berlin Auto Center, Inc
Auto body shop
Meadow Ln
Sage Pond Place
Berlin Motor Inn


1657 Wilbur Cross Hwy
1657 Wilbur Cross Hwy
Directions
Save
Nearby
Send to phone
Share
1657 Wilbur Cross Hwy, Berlin, CT 06037

Town of Berlin, CT

Property Listing Report

Map Block Lot	22-1-141-17	Building #	1	PID	8039	Account	1101290

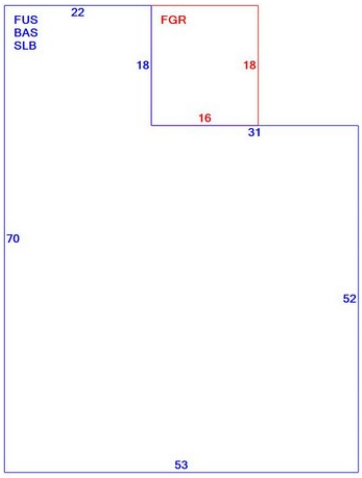
Property Information

Property Location	1657 BERLIN TPKE
Owner	BERLIN VOLUNTEER FIRE DEPT
Co-Owner	BERLIN FIREHOUSE
Mailing Address	1657 BERLIN TPKE BERLIN CT 06037
Land Use	903I Municipal MDL-96
Land Class	E
Zoning Code	BT-1
Census Tract	4002

District	7
Acreage	0.23
Utilities	All Public
Book / Page	0114/0272

Photo

Sketch



Primary Construction Details

Year Built	1946
Building Desc.	Municipal MDL-96
Building Style	Other Municip
Stories	2
Occupancy	1.00
Exterior Walls	Brick Veneer
Exterior Walls 2	
Roof Style	Mansard
Roof Cover	Rolled Compos
Interior Walls	Plaster/Drywal
Interior Walls 2	
Interior Floors 1	Hardwood
Interior Floors 2	Carpet

Heating Fuel	Oil/Gas
Heating Type	Hot Air-no Duc
AC Type	Central
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	
Kitchen Style	
Fin BSMT Area	
Fin BSMT Quality	
Fin BSMT Area 2	
Fin BSMT Qual 2	

BSMT Garages	0
Fireplaces	0
Whirlpool Tub	0
Building Use	Ind/Comm
Building Condition	A

Industrial / Commercial Details
(*Residential Not Applicable)

Heat / AC	HEAT/AC SPLIT
Frame Type	MASONRY
Baths / Plumbing	AVERAGE
Ceiling / Wall	SUS-CEIL & WL
Rooms / Prtns	AVERAGE
Wall Height	12
First Floor Use	903I

Report Created On 4/19/2024

Town of Berlin, CT

Property Listing Report

Map Block Lot	22-1-141-17	Building #	1	PID	8039	Account	1101290

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings	1313500	919500
Extras	0	0
Improvements		
Outbuildings	22500	15700
Land	88800	62200
Total	1424800	997400

Outbuilding and Extra Features

Type	Description
Garage - Good	288 S.F.
Paving - Asphalt	5000 S.F.

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Upper Story, Finished	3152	3152
First Floor	3152	3152
Slab	3152	0
Garage, Attached	288	0
Total Area	9744	6304

Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price
BERLIN VOLUNTEER FIRE DEPT	0114/0272	1956-06-27	0

Report Created On 4/19/2024

EXHIBIT 3

(REVISED)
STRUCTURAL ANALYSIS REPORT

For

AT&T SITE NUMBER: CT5375 (C-BAND)
TEP PROJECT NUMBER: 74314.945787
AT&T SITE NAME: BERLIN EAST CENTRAL

1657 Willbur Cross Highway
Kensington, CT 06037

Antennas Mounted on the Monopole

Prepared for:

CENTERLINE AT&T

Dated: April 17, 2024 (Rev.3)
February 12, 2024 (Rev.2)
June 5, 2023 (Rev.1)
October 28, 2022

Prepared by:

TEP NORTHEAST

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

STATE OF CONNECTICUT
DANIEL HAMM
24178
LICENSED
PROFESSIONAL ENGINEER

4/18/2024

SCOPE OF WORK:

TEP Northeast (TEP NE) has been authorized by AT&T to conduct a structural evaluation of the existing 175' monopole supporting the proposed AT&T antennas located at elevation 170' 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:

- Modification Drawings prepared by Ramaker & Associates dated August 7, 2014.
- Mount Structural Analysis Report prepared by Hudson Design Group, LLC dated April 27, 2022.
- Tower Mapping Report prepared by TEP Northeast dated October 21, 2022.
- Structural Analysis Report prepared by Centerline Engineering Services dated October 16, 2023.

TOWER SUMMARY:

TEP NE performed a structural evaluation on the existing tower with the following proposed modifications:

1. **Weld a proposed 6"x4"x1/2" (H x W x T) steel plate to the existing base plate stiffeners in order to increase the overall stiffener height to 16" (typ. of 18). The proposed steel plates should be lapped 4" over the existing stiffener and welded to the existing plate and monopole façade with 3/8" fillet welds (F_{EXX} = 70 ksi) (typ. of all seams). Refer to the latest TEP NE Construction Drawings for modification and installation details.**

Based on our evaluation, we have determined that the existing tower, with the modifications described above, **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 **97.6 %** - (Stiffeners Controlling).

FOUNDATION SUMMARY:

Based on our evaluation, we have determined that the existing 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 **66.9 %** - (Concrete Shear Controlling).

APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	(1) 12' Dipole Antenna	176'-0"	Platform
	(1) 10' Omni Antenna	176'-0"	Platform
	(1) 8' Dipole Antenna	176'-0"	Platform
	(1) 8' Omni Antenna	176'-0"	Platform
	(1) 4' Omni Antenna	176'-0"	Platform
	(1) 3' Omni Antenna	176'-0"	Platform
	(2) MTI1669 Antennas	176'-0"	Platform
	(2) VHLP1-18-SI4C Dish Antennas	175'-0"	Platform
	(1) 1' Dish Antenna	175'-0"	Platform
	(2) Grid Dish Antennas	175'-0"	Platform
AT&T	***(3) TPA65R-BU6DA-K Antennas***	170'0"	***RMQLP-4120-H10***
AT&T	***(3) NNHHS4-65B-R5 Antennas***	170'-0"	***RMQLP-4120-H10***
AT&T	***(3) 4490 B5/B12 RRH's***	170'-0"	***RMQLP-4120-H10***
AT&T	***(3) 4890 B2/B66A RRH's***	170'-0"	***RMQLP-4120-H10***
AT&T	***(3) 8863 N77G RRH's***	170'-0"	***RMQLP-4120-H10***
AT&T	***(1) DC9-48-60-24-8C-EV Surge Arrestor***	170'-0"	***RMQLP-4120-H10***
	(1) Grid Dish Antenna	166'-7"	Stand-Off Mount
	(1) 8' Dipole Antenna	163'-0"	Stand-Off Mount
	(3) APXVAARR24_43-U-NA20 Antennas	163'-0"	Sector Frame
	(3) AIR6449 B41 Antennas	163'-0"	Sector Frame
	(3) 4449 RRH's	163'-0"	Sector Frame
	(3) 8843 RRH's	163'-0"	Sector Frame
	(3) APXVTM14-ALU-I20 Antennas	153'-0"	Platform
	(3) 840-10520 Antennas	153'-0"	Platform
	(3) 1900 4x45 RRH's	153'-0"	Platform
	(3) RRH 2x50-800 RRH's	153'-0"	Platform
	(3) RRH 8X20-25-FEU_8T8R RRH's	153'-0"	Platform
	(1) 10' Omni Antenna	153'-0"	Platform
	(3) 2' Dish Antennas	153'-0"	Platform
	(2) 3' Dish Antennas	153'-0"	Platform
	(1) MTI1669 Antenna	135'-0"	Stand-Off Mount
	(1) 10' Dipole Antenna	135'-0"	Stand-Off Mount
	(3) MT6407-77A Antennas	116'-0"	Platform
	(6) NHH-65B-R2B Antennas	116'-0"	Platform
	(3) BXA-70063-6CF-EDIN-X Antennas	116'-0"	Platform
	(3) B2/B66A RRH-BR049 RRH's	116'-0"	Platform
	(3) B5/B13 RRH-BR04C RRH's	116'-0"	Platform
	(4) KA-6030 Filters	116'-0"	Platform
	(2) OVP Boxes	116'-0"	Platform

APPURTENANCES CONFIGURATION:

Tenant	Appurtenances	Elev.	Mount
	(1) Grid Dish Antenna	104'-6"	Stand-Off Mount
	(1) MTI1669 Antenna	104'-5"	Stand-Off Mount
	(1) 10' Dipole Antenna	104'-5"	Stand-Off Mount
	(1) GPS Antenna	77'-0"	Stand-Off Mount
	(1) GPS Antenna	35'-0"	Stand-Off Mount

Proposed AT&T Appurtenances shown in Bold.

AT&T EXISTING/PROPOSED COAX CABLES:

Tenant	Coax Cables	Elev.	Mount
AT&T	(12) 1 5/8" Coax Cables	170'-0"	Inside Pole
AT&T	(1) RET Cable	170'-0"	Inside Pole
AT&T	***(3) DC Power Cables***	170'-0"	Inside Pole
AT&T	***(1) Fiber Cable***	170'-0"	Inside Pole

Proposed AT&T Coax Cables shown in Bold.

ANALYSIS RESULTS SUMMARY:

Component	Max. Stress Ratio	Elev. of Component (ft)	Pass/Fail	Comments
Pole Section L1	65.9 %	176.0 – 130.7	**PASS**	
Pole Section L2	88.9 %	130.7 – 86.1	**PASS**	
Pole Section L3	87.7 %	86.1 – 43.0	**PASS**	
Pole Section L4	81.4 %	43.0 – 0.0	**PASS**	
Anchors Rods	80.3 %	--	**PASS**	
Base Plate	51.2 %	--	**PASS**	
Stiffeners	**97.6 %**	--	**PASS**	**Controlling**

FOUNDATION RESULTS SUMMARY:

	Stress Ratio	Pass/Fail	Comments
Soil Lateral	37.9 %	**PASS**	
Soil Vertical	55.1 %	**PASS**	
Concrete Flexure	65.0 %	**PASS**	
Concrete Shear	**66.9 %**	**PASS**	**Controlling**

DESIGN CRITERIA:

1. This analysis was conducted in accordance with EIA/TIA-222-H, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures, and the International Building Code 2021 with 2022 Connecticut State Building Code.

   County: Franklin
   Ultimate Wind Speed: 130 mph
   Risk Category: III
   Exposure Category: B
   Topographic Category: 1
   Nominal Ice Thickness: 1.0 inch

2. Approximate height above grade to proposed antennas: 170'

***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, RRH's, and surge arrestors be mounted on the proposed platform mount supported by the tower.

EXHIBIT 4

April 14, 2022
April 27, 2022 (Rev. 1)
May 6, 2024 (Rev. 2)

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

RE:		
	AT&T Site Number:	CT5375
	FA Number:	10070926
	PACE Number:	MRCTB054292
	PT Number:	2051A11P8Y
	TEP Project Number:	74314.754436
	AT&T Site Name:	BERLIN EAST CENTRAL
	Site Address:	1657 Willbur Cross Highway Kensington, CT 06037

To Whom It May Concern:

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

- **(3) NNHHS4-65B-R5 Antennas (72.8"x19.6"x7.8" – Wt. = 84 lbs. /each)**
- **(3) TPA65R-BU6DA-K Antennas (71.2"x20.7"x7.7" – Wt. = 69 lbs. /each)**
- **(3) 8863 N77 RRH's (18.8"x14.8"x6.2" – Wt. = 56 lbs. /each) (Standoff)**
- **(3) 4890 B25/B66 RRH's (17.5"x15.2"x6.9" – Wt. = 68 lbs. /each) (Standoff)**
- **(3) 4490 B5/B12 RRH's (17.5"x15.1"x6.8" – Wt. = 68 lbs. /each) (Standoff)**
- **(1) DC9-48-60-24-8C-EV Surge Arrestor (31.4"x10.2"Ø – Wt. = 29 lbs.) (Standoff)**

*Proposed equipment shown in bold.

Mount fabrication drawings prepared by SitePro1 P/N RMQLP-4120-H10, dated October 18, 2019, were 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 120 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 1.18 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 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 0.201 and a spectral response acceleration parameter at a period of 1 second, S_1, of 0.055.
- 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 2.
- The mount has been analyzed with load combinations consisting of a 250 lbs live load in a worst case location on the mount.
- The proposed mount will be secured to the existing monopole with a ring mount and threaded rods. TEP NE considers the threaded rods as the governing connection members.

Based on our evaluation, we have determined that the Proposed SitePro1 RMQPL-4120-H10 mount **IS CAPABLE** of supporting the proposed installation.

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Proposed Mount Rating	31	LC4	40%	**PASS**

Reference Documents:

- Mount fabrication drawings prepared by SitePro1 P/N RMQLP-4120-H10 dated October 18, 2019.

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 proposed mount will be 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

05/06/2024

Daniel P. Hamm, PE
Vice President

EXHIBIT 5

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

November 8, 2002

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

RE: **TS-AT&T-007-021025** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless request for an order to approve tower sharing at an existing telecommunications facility located 1657 Wilbur Cross-Highway, Berlin, Connecticut.

Dear Attorney Fisher:

At a public meeting held November 7, 2002, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. 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 may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated October 24, 2002.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: Honorable Paul C. Argazzi, Mayor, Town of Berlin
Brian J. Miller, Town Planner, Town of Berlin
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP

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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
   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.
   Take your package to any location of The UPS Store®, 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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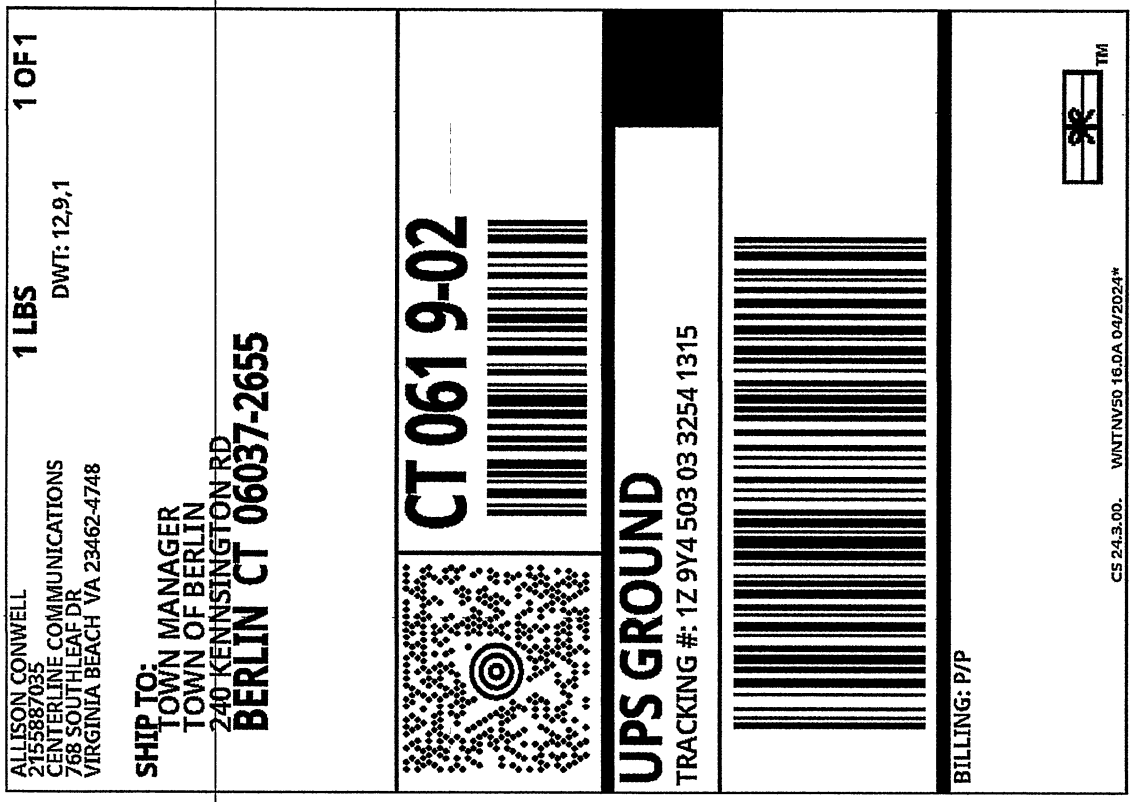

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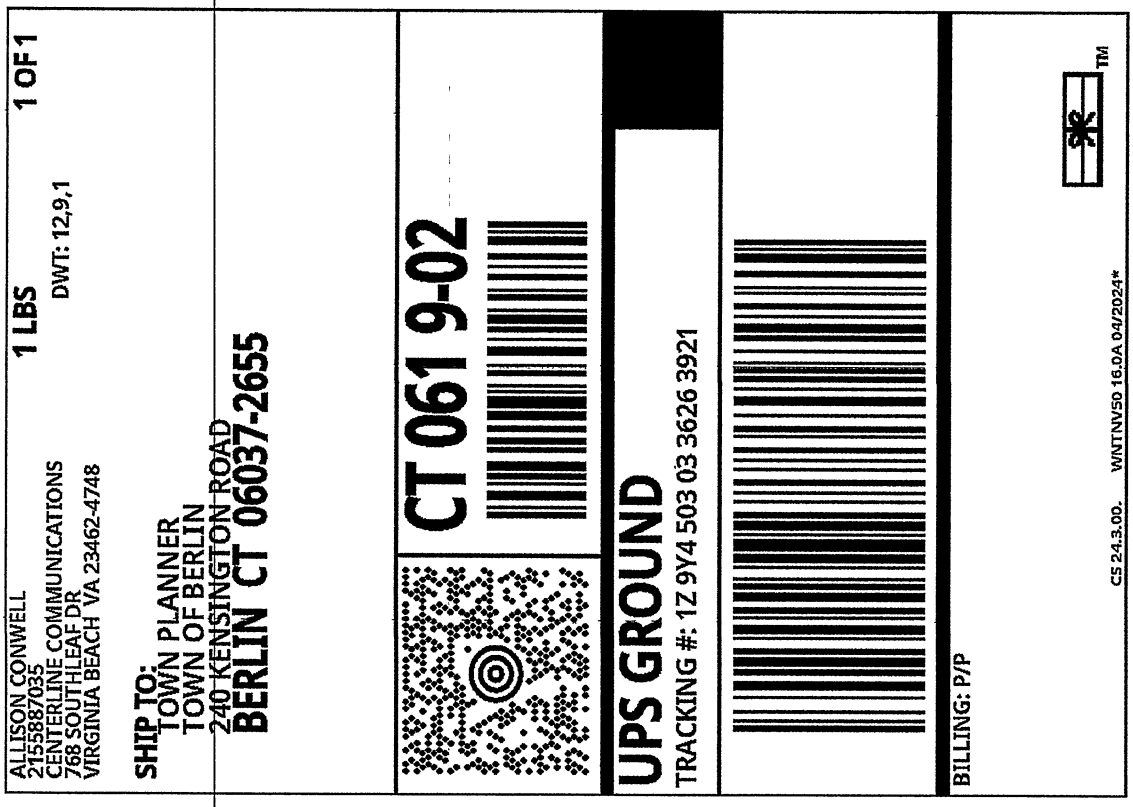

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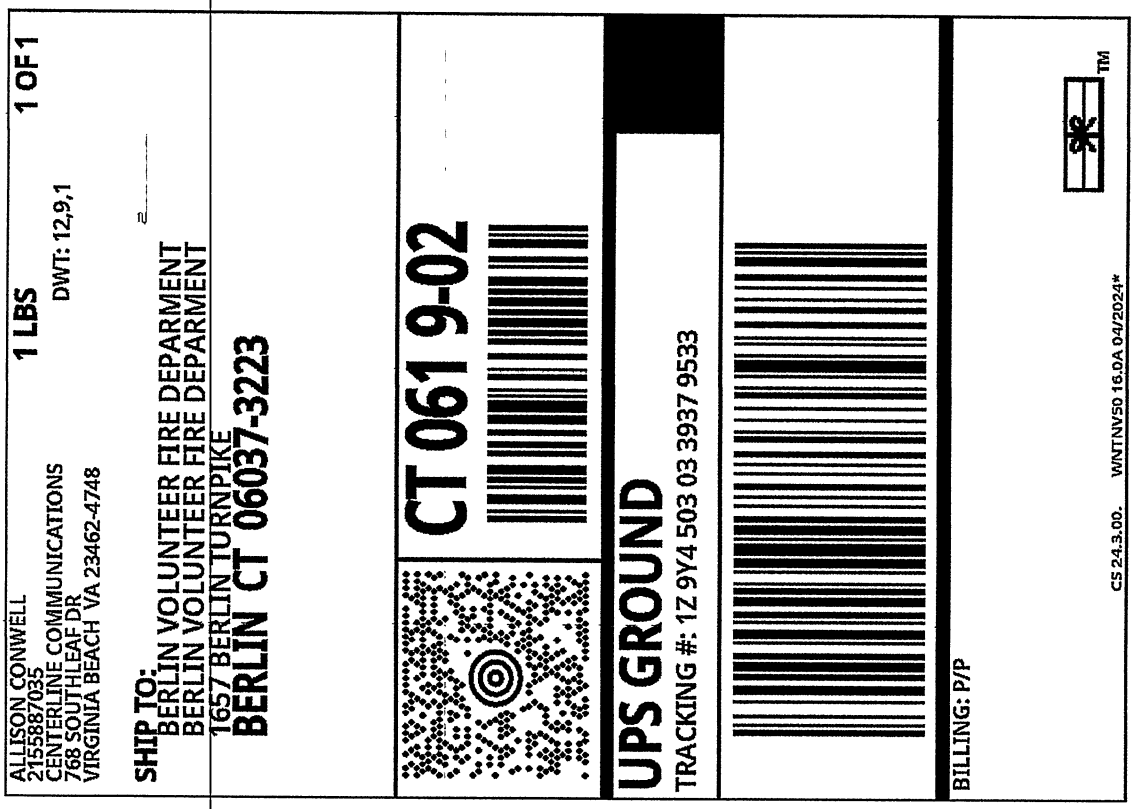

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