



May 1, 2024

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

Re: Notice of Exempt Modifications – AT&T Site CT1037 AT&T Telecommunications Facility @ 5 Barbara Road Tolland, CT 06084

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC ("AT&T") currently maintains a wireless telecommunications facility on an existing +/- 155' monopole tower at the above referenced address, latitude 41.873336, longitude - 72.338331. Said monopole tower is owned and managed by American Tower Company.

AT&T desires to modify its existing telecommunications facility by replacing six (6) antennas, removing three (3) diplexers, removing (3) TMAs, replacing (3) RRUs, adding (9) RRUs, adding (1) surge arrestor, adding (4) cables, as more particularly detailed and described on the enclosed Construction Drawings prepared by TEP Northeast, last revised on April 30, 2024. The centerline height of the existing antennas is and will remain at 149 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: Brian Foley, Town Manager of the Town of Tolland: David Corcoran Director of Planning & Development for the Town of Tolland b: American Tower Company as tower owner and the Town of Tolland as property owner.

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

- 1. The proposed modifications will not result in an increase in the height of the existing structure.
- 2. The proposed modifications will not require an extension of the site boundary.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commissions safety standard. *Please see the RF emissions calculation for AT&T's modified facility enclosed herewith*.
- 5. The proposed modifications will not cause an ineligible change or alternation in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading. Please see the structural analysis dated March 15, 2024 and prepared by American Tower Corp 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 Tolland Original Tower Approval Records

Exhibit 7 – Notice Deliver Confirmations

Cc: Brian Foley, as elected official, Town of Tolland, and as property owner

David Corcoran, Director of Planning & Development, Town of Tolland

Heather Morris, American Tower Company, as tower owner

EXHIBIT 1

PROJECT INFORMATION

SCOPE OF WORK: <u>ITEMS TO BE MOUNTED ON THE EXISTING MONOPOLE:</u>

• INSTALL AT&T ANTENNA TPA65R-BU6DA-K @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

• INSTALL AT&T ANTENNA OPA65R-BU6DA @ POS. 4 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

 \bullet INSTALL AT&T RRUS 4478 B14 (700) @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

• INSTALL AT&T RRUS 4890 B25/B66 (1900) @ POS. 2 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

• INSTALL AT&T RRUS 4415 B30 (WCS) @ POS. 4 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

 \bullet INSTALL AT&T RRUS 4490 B5/B12A (700) @ POS. 4 (TYP. OF 1 PER SECTOR, TOTAL OF 3)

• INSTALL AT&T SURGE ARRESTOR DC9-48-60-24-8C-EV (TOTAL OF 1)
• INSTALL AT&T (3) #6 AWG DC TRUNKS & (1) 24 PAIR FIBER RUNS
(TO FOLLOW EXISTING ROUTING)

• INSTALL PROPOSED AT&T PLATFORM MOUNT (SITEPRO-1 PART # RMQLP-4120-H10)

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

• ADD 1x6651+XCEDE/1xXMU

•FINAL= 1x5216+XMU/1x6651+XCEDE

ITEMS TO BE REMOVED:

• EXISTING AT&T ANTENNA AM-X-CD-16-65-00T-RET @ POS. 3 (TYP. OF 2 PER

• EXISTING AT&T RRUS 11 B5 (850) (TYP. OF 1 PER SECTOR, TOTAL OF 3)
• EXISTING AT&T TMA: TTO8-19DB111-001 (TYP. OF 1 PER SECTOR, TOTAL OF 3)
• EXISTING AT&T TMA: DTMABP7819VG12A (TYP. OF 1 PER SECTOR, TOTAL OF 3)

ITEMS TO REMAIN:

•(3) ANTENNAS, (1) SURGE ARRESTOR, (12) COAX, (2) DC POWER, & (1) FIBER.

RFDS: FINAL-APPROVED V5 RFDS DATED 06/14/23

SITE ADDRESS:

5 BARBARA RD

TOLLAND, CT 06084

LATITUDE: 41.873325*N , 41* 52' 23.97" N LONGITUDE: -72.3382769*W , -72* 20' 17.79" W

TYPE OF SITE: MONOPOLE / INDOOR EQUIPMENT
STRUCTURE HEIGHT: 155'-0"±
RAD CENTER: 149'-0"+

RAD CENTER: 149'-0"±
CURRENT USE: TELECOMMUNICATIONS FACILITY
PROPOSED USE: TELECOMMUNICATIONS FACILITY

DRAWING INDEX

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

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.



SITE NUMBER: CTL01037

SITE NAME: TOLLAND EAST CENTRAL

FA CODE: 10034998

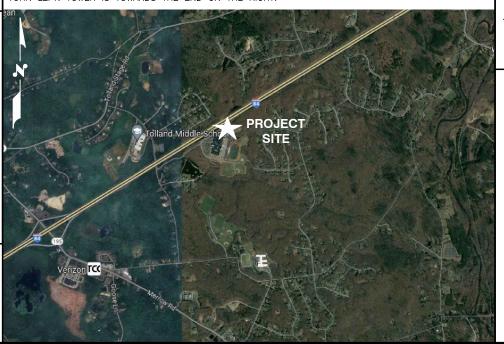
PACE ID: MRCTB061713, MRCTB061715, MRCTB061712, MRCTB061717, MRCTB061714, MRCTB061716

PROJECT: 5G NR 1DR-1 2024 UPGRADE

VICINITY MAP

DIRECTIONS TO SITE: (FROM AT&T ADDRESS)

HEAD NORTH TOWARD BRADLEY INTERNATIONAL AIRPORT, SLIGHT LEFT ONTO BRADLEY INTERNATIONAL AIRPORT, CONTINUE STRAIGHT, KEEP RIGHT TO CONTINUE TOWARD BRADLEY INTERNATIONAL AIRPORT CON, TAKE I-91 S, I-291 E AND I-84 E TO CT-195 S IN TOLLAND. TAKE EXIT 68 FROM I-84 E, CONTINUE ONTO BRADLEY INTERNATIONAL AIRPORT CON, CONTINUE ONTO CT-20 E/BRADLEY INTERNATIONAL AIRPORT CON, USE THE RIGHT 2 LANES TO MERGE WITH I-91 S TOWARD HARTFORD, KEEP RIGHT AT THE Y JUNCTION TO STAY ON I-91 S, TAKE EXIT 35A FOR I-291 TOWARD MANCHESTER, CONTINUE ONTO I-291 E, USE THE LEFT LANE TO MERGE WITH I-84 E TOWARD BOSTON, TAKE EXIT 68 FOR CT-195 TOWARD TOLLAND/MANSFIELD, CONTINUE ON CT-195 S TO YOUR DESTINATION, USE THE RIGHT 2 LANES TO TURN RIGHT ONTO CT-195 S, TURN LEFT ONTO RHODES RD, TURN LEFT ONTO OLD CATHOLE RD S, TURN RIGHT ONTO EAGLE HILL, TURN LEFT, TURN LEFT. TOWER IS TOWARDS THE END ON THE RIGHT.



GENERAL NOTES

- 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.
- . CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

72 HOURS



BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455

or call 811

UNDERGROUND SERVICE ALERT





WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01037 SITE NAME: TOLLAND EAST CENTRAL ATC SITE #: 302495

> 5 BARBARA RD TOLLAND, CT 06084 TOLLAND COUNTY



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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	Р	PROPOSED	TYP	TYPICAL
E	EXISTING	NTS	WOTITO BOALE	UG	UNDER GROUND
EGB	EQUIPMENT GROUND BAR	RADK	MOTITOLEDALE BADIATHOMEENTED LINE	VIF	VERIFY IN FIELD
EGR	EQUIPMENT GROUND RING	REF	Received		
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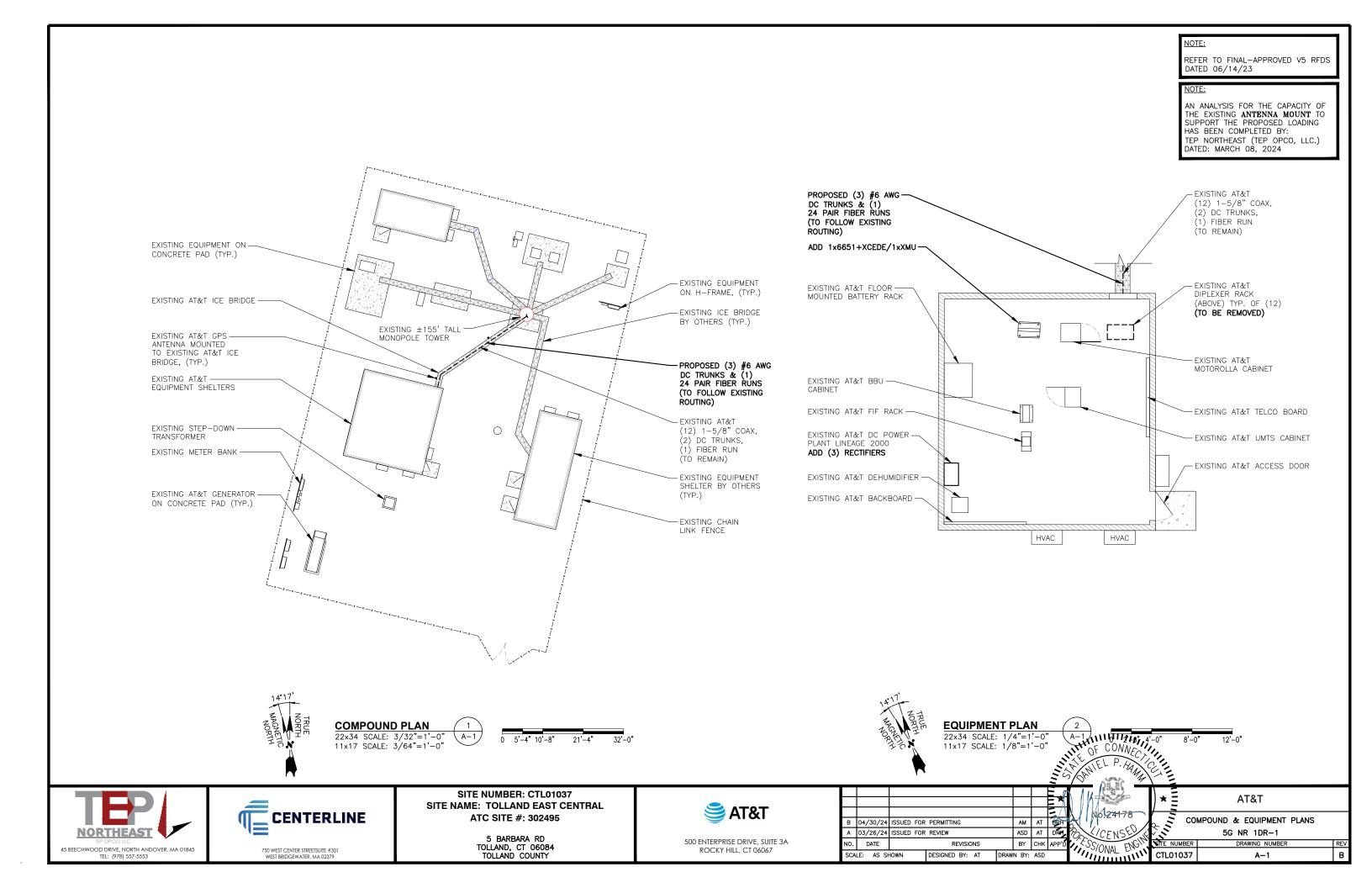
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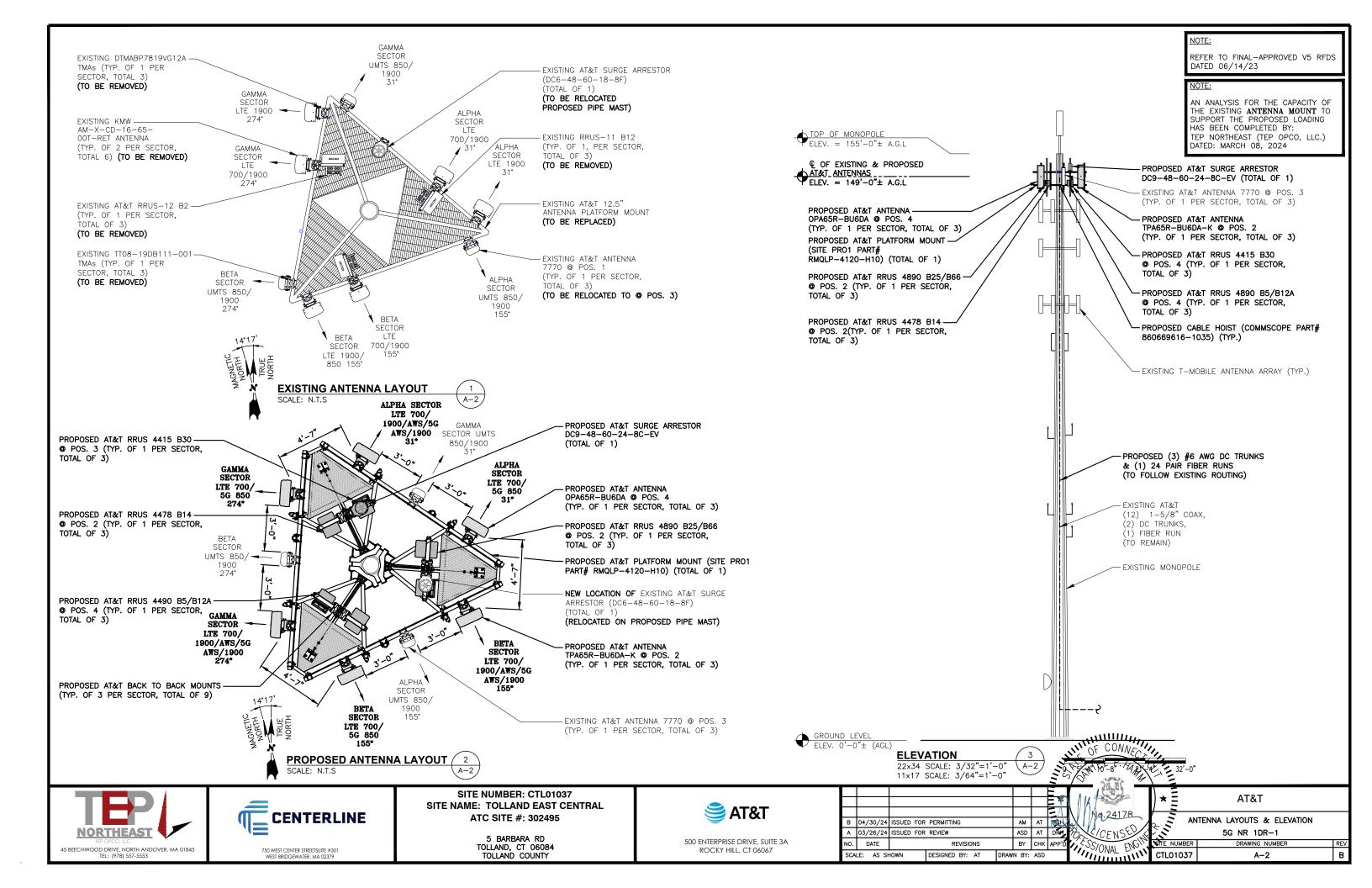
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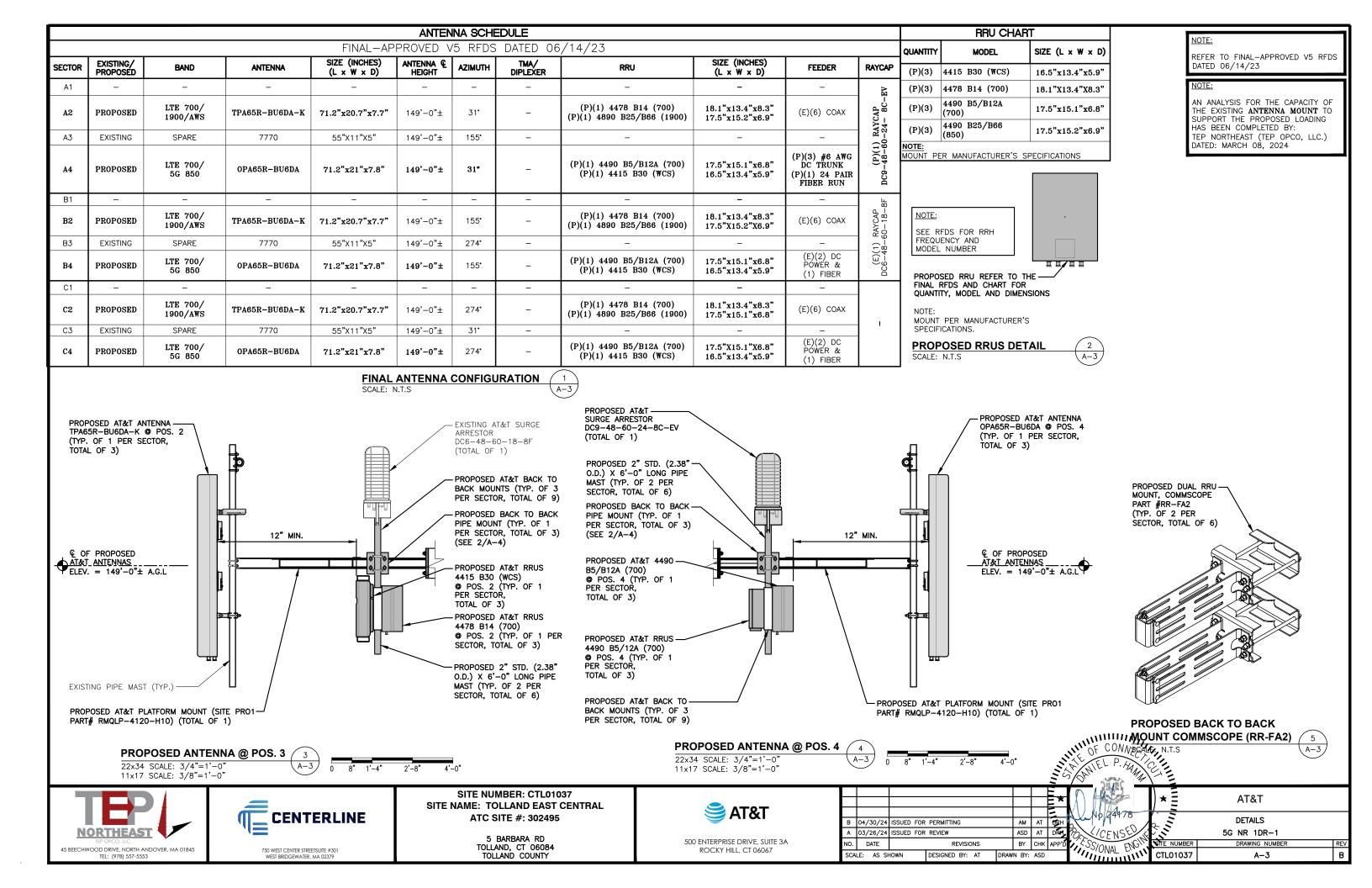
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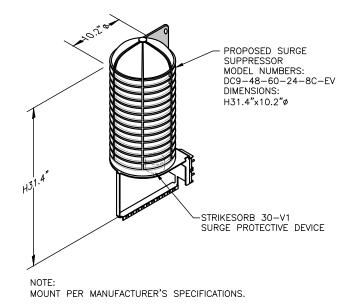


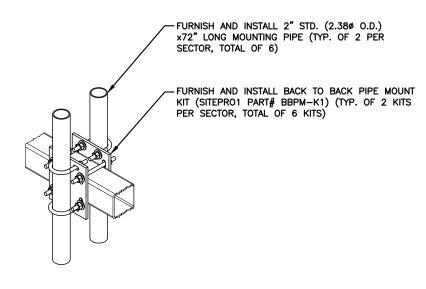


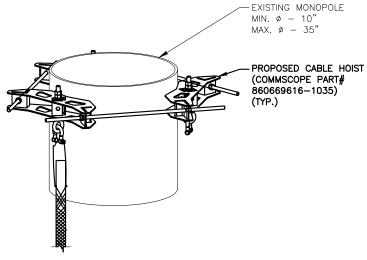


NOTE:

REFER TO FINAL—APPROVED V5 RFDS DATED 06/14/23







DC SURGE SUPPRESSOR DETAIL

SCALE: N.T.S

A-4

BACK TO BACK PIPE MOUNT KIT DETAIL

2
SCALE: N.T.S





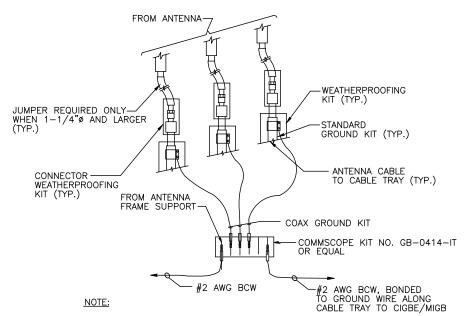


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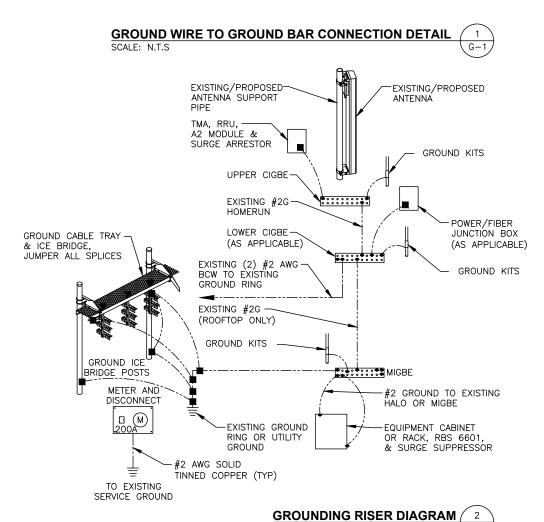
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1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO CIGBE.





ATT-TP-76416 ATT-TP-76300 ATT-CEM-18002 ATT-002-290-531 ATT-002-290-701 ATT-CEM-23001 STAINLESS: TWO HOLE COPPER HARDWARE COMPRESSION TERMINAL GROUNDING CABLE GROUND BAR **ELEVATION** -FLAT WASHER, TYP. FLAT WASHER -LOCK WASHER, TYP. - 3/8"x1−1/4" HEX NUT. TYP GROUND BAR EXPOSED BARE COPPER TO BE GROUNDING CABLE-KEPT TO ABSOLUTE MINIMUM, NO INSULATION ALLOWED WITHIN THE COMPRESSION TERMINAL (TYPICAL) SECTION "A-A"

NOTES:

- "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



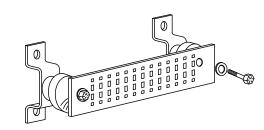
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

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)









WEST BRIDGEWATER, MA 02379

SITE NUMBER: CTL01037 SITE NAME: TOLLAND EAST CENTRAL ATC SITE #: 302495

> 5 BARBARA RD TOLLAND, CT 06084 TOLLAND COUNTY



								11) * [AT&T	
В	04/30/24	ISSUED FOR	PERMITTING		AM	AT		\mathbb{M}	No 24178		-	GROUNDING DETAILS	
Α	03/26/24	ISSUED FOR	REVIEW		ASD	ΑT	DRH	8)	LICENSED &	75		5G NR 1DR-1	
9.	DATE		REVISIONS		BY	СНК	APP'D	1,5	SSIONAL ENGLA	SITE N	UMBER	DRAWING NUMBER	REV
SCA	E: AS SI	HOWN	DESIGNED BY: AT	DRAWN	I BY:	ASD		77	11111111111111111111111111111111111111	CTLO	1037	G-1	В

FINAL-APPROVED V5 RFDS DATED 06/14/23

NO PLUMBING DIAGRAM FOR REFERENCED RFDS, TO BE INSERTED ONCE UPDATED RFDS HAS BEEN RECIEVED

RF PLUMBING DIAGRAM

REFER TO FINAL-APPROVED V5 RFDS DATED 06/14/23

NOTE:
1. CONTRACTOR TO CONFIRM ALL PARTS. 2. INSTALL ALL EQUIPMENT TO

MANUFACTURER'S RECOMMENDATIONS





SITE NUMBER: CTL01037 SITE NAME: TOLLAND EAST CENTRAL ATC SITE #: 302495

> 5 BARBARA RD TOLLAND, CT 06084
> TOLLAND COUNTY



SCALE: N.T.S

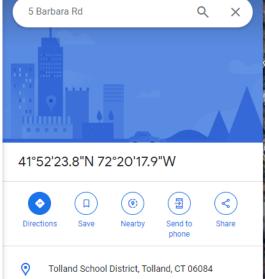
500 ENTERPRISE DRIVE, SUITE 3A
ROCKY HILL, CT 06067

В	04/30/24	ISSUED FOR	AM	AT	DPH			
Α	03/26/24	ISSUED FOR	REVIEW			ASD	AT	DPH
NO.	DATE		BY	СНК	APP'D			
SCA	LE: AS SH	HOWN	DESIGNED BY:	AT	DRAW	N BY:	ASD	

	AT&T							
	RF PLUMBING DIAGRAM							
	5G NR 1DR-1							
SITE NUMBER	DRAWING NUMBER	REV						
CTL01037	RF-1	В						

EXHIBIT 2





1 EAGLE HILL

Location 1 EAGLE HILL Mblu 23/ E/ 51/00 /

Acct# 6783 Owner TOWN OF TOLLAND

Assessment \$47,410,700 **Appraisal** \$67,729,400

Building Count 1 PID 3893

Current Value

	Appraisal											
Valuation Year	Improvements	Land	Total									
2023	\$64,952,400	\$2,777,000	\$67,729,400									
	Assessment											
Valuation Year	Improvements	Land	Total									
2023	\$45,466,800	\$1,943,900	\$47,410,700									

Owner of Record

Owner TOWN OF TOLLAND Sale Price \$850,000

Co-Owner

Address 21 TOLLAND GREEN Book & Page 0819/0081 TOLLAND, CT 06084-0000 Sale Date 04/24/2003

15

Instrument

Certificate

Ownership History

Ownership History										
Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date					
TOWN OF TOLLAND	\$850,000		0819/0081	15	04/24/2003					
RUOPS ALBERT J TRUSTEE U TR	\$0		0396/0288	29	06/16/1960					

Building Information

Building 1 : Section 1

Year Built: 2005 Living Area: 258,330 Replacement Cost: \$69,099,782

Building Percent Good: 90

Replacement Cost

Less Depreciation: \$62,189,800

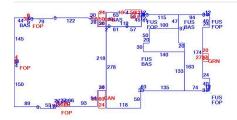
Ви	uilding Attributes			
Field Description				
Style:	Schools-Public			
Model	Commercial			
Grade	Excellent			
Stories:	2			
Occupancy	1.00			
Ext Wall 1	Brick Veneer			
Exterior Wall 2	Reinforc Concr			
Roof Structure	Flat			
Roof Cover	Tar & Gravel			
Interior Wall 1	Minim/Masonry			
Interior Wall 2	Drywall/Sheet			
Interior Floor 1	Vinyl/Asphalt			
Interior Floor 2				
Heating Fuel	Oil			
Heating Type	Hot Water			
AC Type	Vapor Cooler			
Struct Class				
Bldg Use	Municipal			
Total Rooms	70			
Total Bedrms	0			
Total Baths	0			
Solar				
1st Floor Use:	901C			
Heat/AC	Heat/AC Split			
Frame Type	Fireprf Steel			
Baths/Plumbing	Average			
Ceiling/Wall	Sus Ceil Min W			
Rooms/Prtns	Above Average			
Wall Height	16.00			
% Comn Wall				

Building Photo



(https://images.vgsi.com/photos/TollandCTPhotos/\00\00\69\90.jpg)

Building Layout



(ParcelSketch.ashx?pid=3893&bid=3931)

Building Sub-Areas (sq ft)			<u>Legend</u>
Code	Description	Gross Area	Living Area
BAS	Main Floor	177,914	177,914
FUS	Finished Upper Story	80,416	80,416
CAN	Canopy	2,640	0
CLP	Covered Loading Platform	380	0
FOP	Open Porch	202	0
GRN	Green House	540	0
ULP	Loading Platform	728	0
		262,820	258,330

Extra Features

	Extra Features <u>Legen</u>				
Code	Description	Size	Value	Bldg #	
SPR1	SPRINKLERS-WET	248306.00 S.F.	\$178,800	1	
ELV	ELEVATOR	1.00 UNITS	\$24,300	1	

Land

Land Use

Land Line Valuation

Use Code901CDescriptionMunicipalZoneRDDNeighborhood350C

 Size (Acres)
 68.5

 Frontage
 1351

Depth

Assessed Value \$1,943,900 **Appraised Value** \$2,777,000

Neighborhood 3500 Alt Land Appr No

Category

Outbuildings

Outbuildings					<u>Legend</u>	
Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
PAV	PAVING	A	Asphalt	480000.00 S.F.	\$645,100	1
FN	FENCE	CL4	4' Chain Link	7500.00 L.F.	\$50,400	1
PLS	POLES	L1	Lighting	48.00 UNITS	\$121,000	1
BALL	FIELD HARD		TYPICAL	1.00 UNITS	\$702,000	1
TRL1	TRAILER	A	Storage	640.00 S.F.	\$9,600	1
FGR	GARAGE	1F	1Story Frame	720.00 S.F.	\$16,800	1
FGR	GARAGE	1F	1Story Frame	720.00 S.F.	\$16,800	1
SHD	SHED	1LT	1 Stry Lean To	1024.00 S.F.	\$9,200	1
BALL	FIELD HARD		TYPICAL	2.00 UNITS	\$650,000	1
AF	ATHLETIC FLD	FB	Football	1.00 UNITS	\$126,000	1
AF	ATHLETIC FLD	RT	Running Trck	1.00 UNITS	\$210,000	1
SHD	SHED	1F	1 Stry Frame	160.00 S.F.	\$2,600	1

Valuation History

Appraisal					
Valuation Year Improvements Land Total					
2023	\$64,952,400	\$2,777,000	\$67,729,400		
2022	\$64,952,400	\$2,777,000	\$67,729,400		
2021	\$64,952,400	\$2,777,000	\$67,729,400		

Assessment				
Valuation Year Improvements Land Total				
2023	\$45,466,800	\$1,943,900	\$47,410,700	
2022	\$45,466,800	\$1,943,900	\$47,410,700	
2021	\$45,466,800	\$1,943,900	\$47,410,700	

EXHIBIT 3



March 8, 2024



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

RE: AT&T Site Number: CT037 (LTE 3C-4C-5G-BWE-4TXRX)

FA Number: 10034998
PACE Number: MRCTB061716
PT Number: 2051A13YTA
TEP Project Number: 93993.933327

AT&T Site Name: TOLLAND EAST CENTRAL

Site Address: 5 Barbara Road Tolland, CT 06084

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 its capability of supporting the following loading:

- (3) 7770 Antennas (55.0"x11.0"x5.0" Wt. = 35 lbs. /each)
- (1) DC6-48-60-18-8F Surge Arrestor (31.4"x10.2"Ø Wt. = 29 lbs.) (standoff)
- (3) TPA65R-BU6DA-K Antennas (71.2"x20.7"x7.7" Wt. = 69 lbs. /each)
- (3) OPA65R-BU6DA Antennas (71.2"x20.7"x7.7" Wt. = 64 lbs. /each)
- (3) 4478 B14 RRH's (18.1"x13.4"x8.3" Wt. = 60 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)
- (3) 4415 B30 RRH's (16.5"x13.4"x5.9" Wt. = 46 lbs. /each) (standoff)
- (1) DC9-48-60-24-8C-EV Surge Arrestor (31.4"x10.2"Ø Wt. = 29 lbs.) (standoff)

Mount fabrication drawings prepared by SitePro1, P/N RMQLP-4120-H10, dated October 18, 2019, were used to perform this analysis.

^{*}Proposed equipment shown in bold

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 1.74 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 0.182 and a spectral response acceleration parameter at a period of 1 second, S₁, 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 ring mounts and threaded rods.
 TEP NE considers the threaded rods to be the governing connection member.

Based on our evaluation, we have determined that the <u>Proposed SitePro1 P/N RMQLP-4120-H10 mount IS CAPABLE</u> of supporting the proposed installation.

	Component	Controlling Load Case	Stress Ratio	Pass/Fail
Proposed Mount Rating	15	LC2	45%	PASS

Reference Documents:

- Fabrication Drawings prepared by SitePro1, P/N RMQLP-4120-H10, dated October 18, 2019.
- Construction Drawings prepared by Ramaker, dated November 14, 2022.

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 has 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 OF CONNECTION OF

Daniel P. Hamm, PE Vice President

EXHIBIT 4



Structural Analysis Report

Structure : 165 ft Monopole

ATC Asset Name : Tolland CT

ATC Asset Number : 302495

Engineering Number : OAA790864_C3_01

Proposed Carrier : AT&T MOBILITY

Carrier Site Name : CT1037

Carrier Site Number : Tolland East Central

Site Location : 56 Ruops Road

Tolland, CT 06084-3116

41.8733° N, 72.3383° W

County : Tolland

Date : March 15, 2024

Max Usage : 82%

Analysis Result : Pass





Table of Contents

Introduction	3
Supporting Documents	
Analysis	
Conclusion	
Structure Usages	
Maximum Reactions	
Tower Loading	
Standard Conditions	
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 165 ft Monopole tower to reflect the change in loading by AT&T MOBILITY.

Supporting Documents

Tower:	EEI Drawing #GS50842 Rev 1, dated June 24, 1998 Mapping by Delta Oaks Group Project #AGI19-04721-03, dated August 1, 2019
Foundation:	EEI Drawing #F3503-150.N, dated March 2, 1998
Geotechnical:	ASR Project #12-06077, dated December 1, 2006
Modification:	Spectrasite Drawing #CT-0031-M1, dated November 15, 2004

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	118 mph (3-second gust)	
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.50" radial ice concurrent	
Code(s):	ANSI/TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code	
Exposure Category:	В	
Risk Category:	II	
Topographic Factor Procedure:	Method 1	
Topographic Category:	1	
Spectral Response:	$Ss = 0.18, S_1 = 0.06$	
Site Class:	D - Stiff Soil - Default	

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please reach out to your American Tower contact. If you do not have an American Tower contact and have an Engineering question, please contact **Engineering@americantower.com** Please include the American Tower asset name, asset number, and engineering number in the subject line for any questions.



Structure Usages

Structural Component	Usage	Control	Result
Pole Shaft	82.1%	1.2D + 1.0W	Pass
Serviceability Usage	57.1%	1.0D + 1.0W	Pass
Upper Flange Plate @ 155.0 ft	10.5%	Plate	Pass
Upper Flange Plate @ 146.0 ft	9.2%	Bolts	Pass
Base Plate @ 0.0 ft	67.6%	Rods	Pass
Pier	79.0%	Flexure [Steel]	Pass

Maximum Reactions

Foundation	Moment (k-ft)	Axial (k)	Shear (k)
Monopole Base	3,648.2	61.6	31.9

^{*}Reactions shown reflect the results from the Load Case with maximum Moment

Structure base reactions were analyzed using available geotechnical and foundation information.



AT&T MOBILITY Final Loading

Elev (ft)	Qty	Equipment	Lines
	1	Raycap DC6-48-60-18-8F ("Squid")	
	1	Raycap DC9-48-60-24-PC16-EV	
	1	Site Pro1 RMQLP-4120-H10	(1) 0.39" (10mm) Fiber Trunk
	3	CCI OPA65RBU6DA	(2) 0.88" (22.4mm) 8 AWG 6
149.0	3	CCI TPA-65R-BU6DA-K	(1) 0.96" (24.4mm) Hybrid
149.0	3	Ericsson RRUS 4415 B30	(6) 1 5/8" Coax
	3	Ericsson RRUS 4478 B14	(3) 1.13" (28.7mm) Cable
	3	Ericsson Radio 4490HP 44B5 44B12A C	(2) 3" conduit
	3	Ericsson Radio 4890HP 48B2/B25 48B66 M01	
	3	Powerwave Allgon 7770.00	

Other Existing/Reserved Loading

Elev (ft)	Qty	Equipment	Lines	Carrier		
163.8	3	EMS RR90-17-02DP	-	T-MOBILE		
157.9	3	Ericsson KRY 112 71/x (12.8"x5.9")	-	T-MOBILE		
155.0	1	Canister	-	T-MOBILE		
141.9	6	Decibel DB844G90A-XY	-	VERIZON WIRELESS		
	1	Platform with Handrails				
	2	Kaelus KA-6030				
	2	Raycap RRFDC-3315-PF-48				
	2	Swedcom SC 9012				
	3	Samsung B2/B66A RRH-BR049	(24) 4 5 (0) 6			
140.0	3	Samsung B5/B13 RRH-BR04C	(24) 1 5/8" Coax	VERIZON WIRELESS		
	3	Samsung MT6407-77A	(2) 1 5/8" Hybriflex			
	3	Samsung XXDWMM-12.5-65-8T-CBRS				
-	4	RFS APL868013-42T0-00				
	6	Commscope CBC78T-DS-43-2X				
	6	Commscope JAHH-65B-R3B				
133.0	1	Platform with Handrails	-	SPRINT NEXTEL		
	3	Commscope VV-65A-R1				
132.0	3	Ericsson Air6449 B41				
	3	Ericsson Radio 4460 B25+B66	(2) 1.99" (50.7mm) Hybrid	SPRINT NEXTEL		
	3	Ericsson Radio 4480 B71+B85A				
	3	RFS APXVAARR24_43-U-NA20				
121.1	1	Andrew DB844H90E-A	-	SPRINT NEXTEL		
121.0	3	Andrew DB844H90E-A	-	SPRINT NEXTEL		
120.9	4	Andrew DB844H90E-A	-	SPRINT NEXTEL		
120.8	4	Andrew DB844H90E-A	-	SPRINT NEXTEL		
120.0	1	Platform with Handrails	-	-		
107.4	3	Commscope LNX-6515DS-VTM	-	T-MOBILE		
105.0	3	Kathrein Scala Smart Bias Tee	-	T-MOBILE		
	1	Commscope RDIDC-9181-PF-48				
	1	Platform with Handrails				
93.0	3	Fujitsu TA08025-B604	(1) 1.60" (40.6mm) Hybrid	DISH WIRELESS L.L.C.		
	3	Fujitsu TA08025-B605				
3		JMA Wireless MX08FRO665-21				
81.9	1	GPS	-	T-MOBILE		
81.0	1	Stand-Off	-	T-MOBILE		
63.0	2	GPS				
03.0	2	Stand-Off	-	-		



Elev (ft)	Qty	Equipment	Lines	Carrier
,	~~,	zqu.pc	265	Currici

(If table breaks across pages, please see previous page for data in merged cells)



Standard Conditions

All engineering services performed by A.T. Engineering Services LLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts, and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T.
 Engineering Services LLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Services LLC and used in the performance of our engineering services is correct and complete.

All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Services LLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Services LLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

EXHIBIT 5



Radio Frequency Exposure Analysis Report

April 22, 2024

AT&T

Site Name: TOLLAND EAST CENTRAL

Site ID: CTL01037 FA#: 10034998 USID: 25954

Site Address: 5 Barbara Road, Tolland, CT 06084



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

Signed 22 April 2024

Site Compliance Summary

AT&T Compliance Status: Compliant

Cumulative Calculated Power Density (Ground Level): 2.05295 μW/cm²

Cumulative General Population % MPE (Ground Level): 0.31958%

Cumulative Calculated Power Density (Adjacent 36' Structure): 0.27185 μW/cm²

Cumulative General Population % MPE (Adjacent 36' Structure): 0.05821%



April 22, 2024

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

RF Exposure Analysis for Site: TOLLAND EAST CENTRAL

Centerline was contracted to analyze the proposed AT&T facility at **5 Barbara Road, Tolland, CT 06084** 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/cm²) or microwatts per square centimeter (μ W/cm²). The exposure limits vary depending upon the frequencies being utilized. The General Population/Uncontrolled MPE limit (in mW/cm²) 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/cm² (1000 μ W/cm²). 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 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 and the adjacent 36' structure.

The theoretical calculations performed in Roofmaster® determine the cumulative exposure at all sample points at ground level (0-6' spatial average) and the adjacent 36' structure (36-42' spatial average). The results from highest cumulative sample point at ground level surrounding the site and the adjacent 36' structure are displayed in the tables below. The contribution from directional antennas to the maximum cumulative totals varies greatly depending on location; therefore, the contribution from one antenna sector at the highest calculated exposure point may be greater or less than other sectors since sectorized directional antennas are pointed in different directions and there is not much overlapping exposure.

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



<u>Maximum Calculated Cumulative Power Density @ Ground Level</u> (<u>Location: approximately 30' North of site)</u>

	(Location, approximately 50 North of site)									
Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (μW/cm²)	General Population MPE Limit (μW/cm²)	General Population % MPE
AT&T A 1	POWERWAVE 7770 00	850	11.35	149.00	0.00	0.00	0.00	0.00000	566.67	0.00000
AT&T A 1	POWERWAVE 7770 00	1900	13.35	149.00	0.00	0.00	0.00	0.00000	1000.00	0.00000
AT&T A 2	CCI TPA65R-BU6D	700	11.75	149.00	4.00	30.00	1795.48	0.03990	466.67	0.00855
AT&T A 2	CCI TPA65R-BU6D	1900	15.05	149.00	2.00	45.00	2879.01	0.03015	1000.00	0.00302
AT&T A 2	CCI TPA65R-BU6D	1900	15.45	149.00	2.00	45.00	3156.77	0.02889	1000.00	0.00289
AT&T A 2	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.02616	1000.00	0.00262
AT&T A 2	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.02616	1000.00	0.00262
AT&T A 3	CCI OPA65R-BU6D	700	11.35	149.00	4.00	45.00	2456.25	0.05618	466.67	0.01204
AT&T A 3	CCI OPA65R-BU6D	850	11.95	149.00	4.00	45.00	2820.15	0.06122	566.67	0.01080
AT&T B 4	POWERWAVE 7770 00	850	11.35	149.00	0.00	0.00	0.00	0.00000	566.67	0.00000
AT&T B 4	POWERWAVE 7770 00	1900	13.35	149.00	0.00	0.00	0.00	0.00000	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	700	11.75	149.00	4.00	30.00	1795.48	0.00003	466.67	0.00001
AT&T B 5	CCI TPA65R-BU6D	1900	15.05	149.00	2.00	45.00	2879.01	0.00001	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	1900	15.45	149.00	2.00	45.00	3156.77	0.00001	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00001	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00001	1000.00	0.00000
AT&T B 6	CCI OPA65R-BU6D	700	11.35	149.00	4.00	45.00	2456.25	0.00003	466.67	0.00001
AT&T B 6	CCI OPA65R-BU6D	850	11.95	149.00	4.00	45.00	2820.15	0.00000	566.67	0.00000
AT&T C 7	POWERWAVE 7770 00	850	11.35	149.00	0.00	0.00	0.00	0.00000	566.67	0.00000
AT&T C 7	POWERWAVE 7770 00	1900	13.35	149.00	0.00	0.00	0.00	0.00000	1000.00	0.00000
AT&T C 8	CCI TPA65R-BU6D	700	11.75	149.00	4.00	30.00	1795.48	0.00189	466.67	0.00041
AT&T C 8	CCI TPA65R-BU6D	1900	15.05	149.00	2.00	45.00	2879.01	0.00031	1000.00	0.00003
AT&T C 8	CCI TPA65R-BU6D	1900	15.45	149.00	2.00	45.00	3156.77	0.00030	1000.00	0.00003
AT&T C 8	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00044	1000.00	0.00004
AT&T C 8	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00044	1000.00	0.00004
AT&T C 9	CCI OPA65R-BU6D	700	11.35	149.00	4.00	45.00	2456.25	0.00325	466.67	0.00070
AT&T C 9	CCI OPA65R-BU6D	850	11.95	149.00	4.00	45.00	2820.15	0.00052	566.67	0.00009
Dish A 10	GENERIC PANEL	600	11.66	163.00	4.00	40.00	2344.88	0.06471	400.00	0.01618
Dish A 10	GENERIC PANEL	2100	15.70	163.00	4.00	40.00	5944.56	0.07798	1000.00	0.00780
Dish B 10	GENERIC PANEL	600	11.66	163.00	4.00	40.00	2344.88	0.06471	400.00	0.01618
Dish B 10	GENERIC PANEL	2100	15.70	163.00	4.00	40.00	5944.56	0.07798	1000.00	0.00780
Dish C 10	GENERIC PANEL	600	11.66	163.00	4.00	40.00	2344.88	0.06471	400.00	0.01618
Dish C 10	GENERIC PANEL	2100	15.70	163.00	4.00	40.00	5944.56 2686.09	0.07798	1000.00 566.67	0.00780 0.01738
Verizon A 11 Verizon A 12	GENERIC PANEL	850 700	12.25	140.00	4.00	40.00 40.00		0.09846	466.67	
Verizon A 12	GENERIC PANEL GENERIC PANEL	1900	12.31 15.05	140.00 140.00	4.00	40.00	2723.45 5118.23	0.10369 0.10319	1000.00	0.02222 0.01032
Verizon A 13	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.10319	466.67	0.01032
Verizon A 13	GENERIC PANEL	2100	15.53	140.00	4.00	40.00	5716.37	0.10369	1000.00	0.02222
Verizon B 14	GENERIC PANEL	850	12.25	140.00	4.00	40.00	2686.09	0.00070	566.67	0.001113
Verizon B 15	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00076	466.67	0.00012
Verizon B 15	GENERIC PANEL	1900	15.05	140.00	4.00	40.00	5118.23	0.00018	1000.00	0.00004
Verizon B 16	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00034	466.67	0.00003
Verizon B 16	GENERIC PANEL	2100	15.53	140.00	4.00	40.00	5716.37	0.00010	1000.00	0.00007
Verizon C 17	GENERIC PANEL	850	12.25	140.00	4.00	40.00	2686.09	0.00071	566.67	0.00007
Verizon C 18	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00077	466.67	0.00017
Verizon C 18	GENERIC PANEL	1900	15.05	140.00	4.00	40.00	5118.23	0.00027	1000.00	0.00003
Verizon C 19	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00077	466.67	0.00017
Verizon C 19	GENERIC PANEL	2100	15.53	140.00	4.00	40.00	5716.37	0.00017	1000.00	0.00002
T-Mobile A 20	GENERIC PANEL	1900	15.05	115.00	4.00	40.00	5118.23	0.14879	1000.00	0.01488
T-Mobile A 21	GENERIC PANEL	2100	15.53	115.00	4.00	40.00	5716.37	0.16130	1000.00	0.01613
T-Mobile A 22	GENERIC PANEL	600	11.66	115.00	4.00	40.00	2344.88	0.13172	400.00	0.03293
T-Mobile A 23	GENERIC PANEL	700	12.31	115.00	4.00	40.00	2723.45	0.14952	466.67	0.03204
T-Mobile B 24	GENERIC PANEL	1900	15.05	115.00	4.00	40.00	5118.23	0.00078	1000.00	0.00008
T-Mobile B 25	GENERIC PANEL	2100	15.53	115.00	4.00	40.00	5716.37	0.00102	1000.00	0.00010
T-Mobile B 26	GENERIC PANEL	600	11.66	115.00	4.00	40.00	2344.88	0.00098	400.00	0.00025
T-Mobile B 27	GENERIC PANEL	700	12.31	115.00	4.00	40.00	2723.45	0.00026	466.67	0.00006
		•				• • • • • • • • • • • • • • • • • • • •			•	



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (μW/cm²)	General Population MPE Limit (μW/cm²)	General Population % MPE
T-Mobile C 28	GENERIC PANEL	1900	15.05	115.00	4.00	40.00	5118.23	0.00040	1000.00	0.00004
T-Mobile C 29	GENERIC PANEL	2100	15.53	115.00	4.00	40.00	5716.37	0.00025	1000.00	0.00003
T-Mobile C 30	GENERIC PANEL	600	11.66	115.00	4.00	40.00	2344.88	0.00098	400.00	0.00024
T-Mobile C 31	GENERIC PANEL	700	12.31	115.00	4.00	40.00	2723.45	0.00112	466.67	0.00024
Unknown A 32	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.11239	1000.00	0.01124
Unknown A 33	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.11239	1000.00	0.01124
Unknown B 34	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00059	1000.00	0.00006
Unknown B 35	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00059	1000.00	0.00006
Unknown C 36	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00030	1000.00	0.00003
Unknown C 37	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00030	1000.00	0.00003
								2.05295 μW/cm²	Cumulative % MPE:	0.31958%



Maximum Calculated Cumulative Power Density @ Adjacent 36' Structure (Location: approximately 300' Southwest of site)

		Locatio	лі. арріс	oximately :	300 30ati	IWC3t OI 3	ite <u>j</u>			ı
			A	0		TV D/		Calculated	General	
		Frequency		Antenna	Channel	TX Power/ Channel	ERP	Power	Population MPE Limit	General
Antenna ID	Make / Model	Band (MHz)	Gain (dBd)	Centerline (ft)	Count	(watts)	(watts)	Density (μW/cm²)	(μW/cm²)	Population % MPE
AT&T A 1	POWERWAVE 7770 00	850	11.35	149.00	0.00	0.00	0.00	0.00000	566.67	0.00000
AT&T A 1	POWERWAVE 7770 00	1900	13.35	149.00	0.00	0.00	0.00	0.00000		
AT&T A 2		700	11.75	149.00	4.00	30.00	1795.48	0.00000	1000.00 466.67	0.00000
	CCLTPA65R-BU6D									
AT&T A 2	CCI TPA65R-BU6D	1900	15.05	149.00	2.00	45.00	2879.01	0.00000	1000.00	0.00000
AT&T A 2	CCI TPA65R-BU6D	1900	15.45	149.00	2.00	45.00	3156.77	0.00000	1000.00	0.00000
AT&T A 2	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00000	1000.00	0.00000
AT&T A 2	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00000	1000.00	0.00000
AT&T A 3	CCI OPA65R-BU6D	700	11.35	149.00	4.00	45.00	2456.25	0.00002	466.67	0.00001
AT&T A 3	CCI OPA65R-BU6D	850	11.95	149.00	4.00	45.00	2820.15	0.00000	566.67	0.00000
AT&T B 4	POWERWAVE 7770 00	850	11.35	149.00	0.00	0.00	0.00	0.00000	566.67	0.00000
AT&T B 4	POWERWAVE 7770 00	1900	13.35	149.00	0.00	0.00	0.00	0.00000	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	700	11.75	149.00	4.00	30.00	1795.48	0.00004	466.67	0.00001
AT&T B 5	CCI TPA65R-BU6D	1900	15.05	149.00	2.00	45.00	2879.01	0.00003	1000.00	0.00000
AT&T B 5	CCI TPA65R-BU6D	1900	15.45	149.00	2.00	45.00	3156.77	0.00009	1000.00	0.00001
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00009	1000.00	0.00001
AT&T B 5	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00009	1000.00	0.00001
AT&T B 6	CCI OPA65R-BU6D	700	11.35	149.00	4.00	45.00	2456.25	0.26556	466.67	0.05691
AT&T B 6	CCI OPA65R-BU6D	850	11.95	149.00	4.00	45.00	2820.15	0.00009	566.67	0.00002
AT&T C 7	POWERWAVE 7770 00	850	11.35	149.00	0.00	0.00	0.00	0.00000	566.67	0.00000
AT&T C 7	POWERWAVE 7770 00	1900	13.35	149.00	0.00	0.00	0.00	0.00000	1000.00	0.00000
AT&T C 8	CCI TPA65R-BU6D	700	11.75	149.00	4.00	30.00	1795.48	0.00000	466.67	0.00000
AT&T C 8	CCI TPA65R-BU6D	1900	15.05	149.00	2.00	45.00	2879.01	0.00000	1000.00	0.00000
AT&T C 8	CCI TPA65R-BU6D	1900	15.45	149.00	2.00	45.00	3156.77	0.00001	1000.00	0.00000
AT&T C 8	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00000	1000.00	0.00000
AT&T C 8	CCI TPA65R-BU6D	2100	15.95	149.00	2.00	45.00	3541.95	0.00000	1000.00	0.00000
AT&T C 9	CCI OPA65R-BU6D	700	11.35	149.00	4.00	45.00	2456.25	0.00564	466.67	0.00121
AT&T C 9	CCI OPA65R-BU6D	850	11.95	149.00	4.00	45.00	2820.15	0.00000	566.67	0.00000
Dish A 10	GENERIC PANEL	600	11.66	163.00	4.00	40.00	2344.88	0.00000	400.00	0.00000
Dish A 10	GENERIC PANEL	2100	15.70	163.00	4.00	40.00	5944.56	0.00000	1000.00	0.00000
Dish B 10	GENERIC PANEL	600	11.66	163.00	4.00	40.00	2344.88	0.00000	400.00	0.00000
Dish B 10	GENERIC PANEL	2100	15.70	163.00	4.00	40.00	5944.56	0.00000	1000.00	0.00000
Dish C 10	GENERIC PANEL	600	11.66	163.00	4.00	40.00	2344.88	0.00000	400.00	0.00000
Dish C 10	GENERIC PANEL	2100	15.70	163.00	4.00	40.00	5944.56	0.00000	1000.00	0.00000
Verizon A 11	GENERIC PANEL	850	12.25	140.00	4.00	40.00	2686.09	0.00000	566.67	0.00000
Verizon A 12	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00000	466.67	0.00000
Verizon A 12	GENERIC PANEL	1900	15.05	140.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
Verizon A 13	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00000	466.67	0.00000
Verizon A 13	GENERIC PANEL	2100	15.53	140.00	4.00	40.00	5716.37	0.00000	1000.00	0.00000
Verizon B 14	GENERIC PANEL	850	12.25	140.00	4.00	40.00	2686.09	0.00000	566.67	0.00000
Verizon B 15	GENERIC PANEL	700	12.23	140.00	4.00	40.00	2723.45	0.00000	466.67	0.00000
Verizon B 15	GENERIC PANEL	1900	15.05	140.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
Verizon B 16	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00000	466.67	0.00000
Verizon B 16	GENERIC PANEL	2100	15.53	140.00	4.00	40.00	5716.37	0.00000	1000.00	0.00000
Verizon C 17	GENERIC PANEL	850	12.25	140.00	4.00	40.00	2686.09	0.00001	566.67	0.00000
Verizon C 18	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00001	466.67	0.00000
Verizon C 18	GENERIC PANEL	1900	15.05	140.00	4.00	40.00	5118.23	0.00001	1000.00	0.00000
Verizon C 19	GENERIC PANEL	700	12.31	140.00	4.00	40.00	2723.45	0.00001	466.67	0.00000
Verizon C 19	GENERIC PANEL	2100	15.53	140.00	4.00	40.00	5716.37	0.00002	1000.00	0.00000
T-Mobile A 20	GENERIC PANEL	1900	15.05	115.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
T-Mobile A 21	GENERIC PANEL	2100	15.53	115.00	4.00	40.00	5716.37	0.00000	1000.00	0.00000
T-Mobile A 22	GENERIC PANEL	600	11.66	115.00	4.00	40.00	2344.88	0.00000	400.00	0.00000
T-Mobile A 23	GENERIC PANEL	700	12.31	115.00	4.00	40.00	2723.45	0.00000	466.67	0.00000
T-Mobile B 24	GENERIC PANEL	1900	15.05	115.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
T-Mobile B 25	GENERIC PANEL	2100	15.53	115.00	4.00	40.00	5716.37	0.00001	1000.00	0.00000
T-Mobile B 26	GENERIC PANEL	600	11.66	115.00	4.00	40.00	2344.88	0.00000	400.00	0.00000
T-Mobile B 27	GENERIC PANEL	700	12.31	115.00	4.00	40.00	2723.45	0.00000	466.67	0.00000



Antenna ID	Make / Model	Frequency Band (MHz)	Antenna Gain (dBd)	Antenna Centerline (ft)	Channel Count	TX Power/ Channel (watts)	ERP (watts)	Calculated Power Density (μW/cm²)	General Population MPE Limit (μW/cm²)	General Population % MPE
T-Mobile C 28	GENERIC PANEL	1900	15.05	115.00	4.00	40.00	5118.23	0.00002	1000.00	0.00000
T-Mobile C 29	GENERIC PANEL	2100	15.53	115.00	4.00	40.00	5716.37	0.00003	1000.00	0.00000
T-Mobile C 30	GENERIC PANEL	600	11.66	115.00	4.00	40.00	2344.88	0.00003	400.00	0.00001
T-Mobile C 31	GENERIC PANEL	700	12.31	115.00	4.00	40.00	2723.45	0.00002	466.67	0.00001
Unknown A 32	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
Unknown A 33	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
Unknown B 34	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
Unknown B 35	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00000	1000.00	0.00000
Unknown C 36	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00001	1000.00	0.00000
Unknown C 37	GENERIC PANEL	1900	15.05	130.00	4.00	40.00	5118.23	0.00001	1000.00	0.00000
							Cumulative Power Density:	0.27185 μW/cm²	Cumulative % MPE:	0.05821%



Summary

The theoretical calculations performed for this analysis yielded cumulative power density totals in all areas at ground level and the adjacent 36' structure that are within the allowable federal limits for public exposure to RF energy. Therefore, the site is **compliant** with FCC rules and regulations.

Samuel Cosgrove RF EME Technical Writer II Centerline

EXHIBIT 6



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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

April 30, 2002

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

RE: **EM-AT&T-142-020412** – AT&T Wireless notice of intent to modify an existing telecommunications facility located at 5 Barbara Road, Tolland, Connecticut.

Dear Atty. Fisher:

At a public meeting held on April 25, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice[s] dated April 12, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation.

Mortimer A Gelston

Chairman

MAG/DM/laf

c: Honorable Richard C. Knight, Chairman Town Council, Town of Tolland SpectraSite, Old Saybrook

EXHIBIT 7

1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print from the 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.

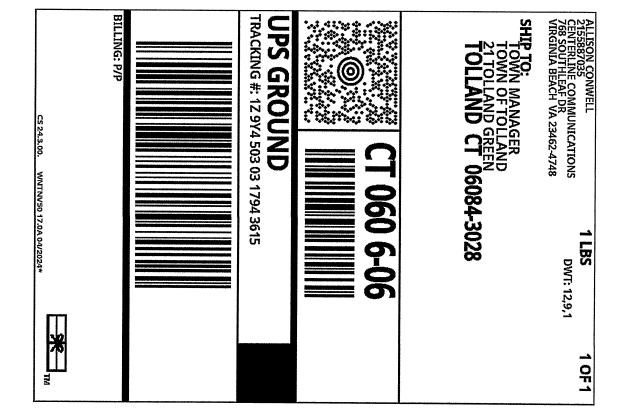
3. GETTING YOUR SHIPMENT TO UPS

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 Take your package to any location of The UPS Store®, UPS Return Services(SM) (including via Ground) are also 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 accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip

FOLD HERE ar brop boxes. To find the focation hearst you, please visit the Resources area of Campusoni and select UPS Locations.

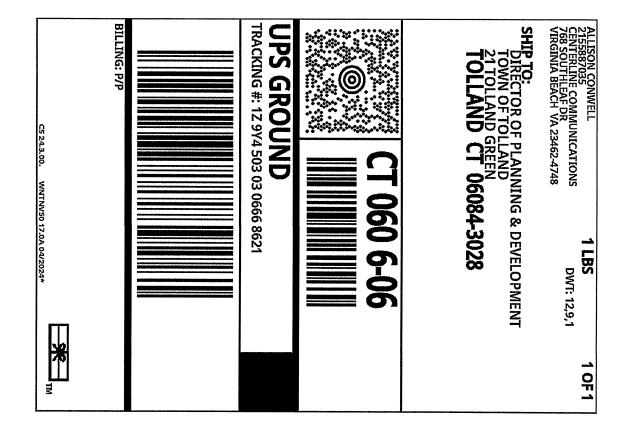


- 1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print from the the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below. 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.
FOLD HERE



1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print from the 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

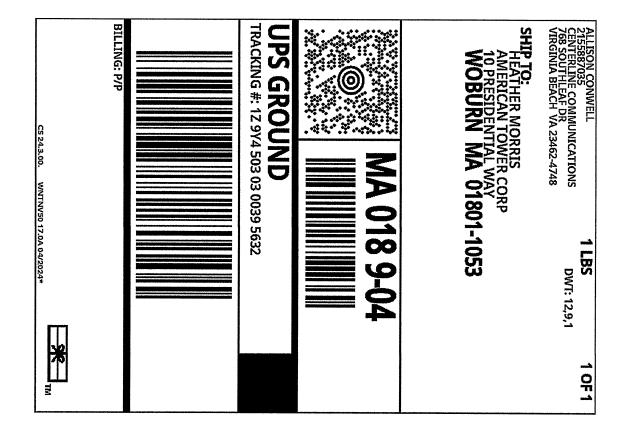
Customers with a Daily Pickup

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.
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