

August 03, 2020

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

**Re:** Notice of Exempt Modifications – AT&T Site CT1103  
AT&T Telecommunications Facility @ 37 Bacon Road Enfield, CT 06082

Dear Ms. Bachman,

New Cingular Wireless, PCS, LLC (“AT&T”) currently maintains a wireless telecommunications facility on an existing +/- 180’ monopole tower at the above referenced address, latitude 42.015931, longitude - 72.528741. Said monopole tower is owned and managed by SAI Group.

AT&T desires to modify its existing telecommunications facility by replacing (3) antennas, removing (6) antennas, adding six (6) remote radio units, removing six (6) TMAs, removing six (6) coax cables, adding one (1) surge arrestors, adding two (2) DC cables and adding (1) fiber cables as more particularly detailed and described on the enclosed Construction Drawings prepared by Hudson Design Engineering last revised on July 20, 2020. The centerline height of the existing antennas is and will remain at 168 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: Christopher Bromson, Town Manager of the Town of Enfield; Jennifer Pacacha Assistant Town Planner of the Town of Enfield, Renee Martinson as Contracts Administrator for SAI Group, and Shaker Pines Fire District #5 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 Commission’s 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 July 13, 2020 and prepared by Hudson Design Engineering Group LLC 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 Hebel**

*Site Acquisition Consultant – Agent for AT&T*  
*Centerline Communications LLC*  
750 West Center St. Ste 301  
West Bridgewater, MA 02379  
215-588-7035  
ahebel@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 Enfield Original Tower Approval Records  
                     Exhibit 7 – Notice Deliver Confirmations

Cc:                Christopher Bromson, Town Manager of the Town of Enfield as elected official  
                     Jennifer Pacacha, Assistant Town Planner, Town of Enfield  
                     Shaker Pines Fire District #5 as Property Owner  
                     Renee Martinson, SAI Group, as Tower Owner

Connecticut Siting Council

Check: 21282  
Date: 8/3/2020  
Vendor: 0

| <u>Invoice</u>       | <u>P.O. Num.</u> | <u>Invoice Amt</u> | <u>Prior Balance</u> | <u>Retention</u> | <u>Discount</u> | <u>Amt. Paid</u> |
|----------------------|------------------|--------------------|----------------------|------------------|-----------------|------------------|
| 504971-030<br>CT1103 |                  | 625.00             | 625.00               | 0.00             | 0.00            | 625.00           |
|                      |                  | <u>625.00</u>      | <u>625.00</u>        | <u>0.00</u>      | <u>0.00</u>     | <u>625.00</u>    |

**Centerline Communications LLC**750 W. Center Street  
Suite 301  
W. Bridgewater, MA 02379  
(781) 713-4725ROCKLAND TRUST COMPANY  
MEDFIELD, MA 02052

53-447/113

021282

DATE

AMOUNT

8/3/2020

\*\*\*\*\*625.00

PAY  
TO THE  
ORDER  
OF

THE SUM OF SIX HUNDRED TWENTY FIVE DOLLARS AND NO CENTS \*\*\*\*\*

Connecticut Siting Council

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

⑈021282⑈ ⑈011304478⑈ 2922009879⑈

Centerline Communications LLC

021282

Connecticut Siting Council

Check: 21282  
Date: 8/3/2020  
Vendor: 0

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| 504971-030<br>CT1103 |                  | 625.00             | 625.00               | 0.00             | 0.00            | 625.00           |
|                      |                  | <u>625.00</u>      | <u>625.00</u>        | <u>0.00</u>      | <u>0.00</u>     | <u>625.00</u>    |



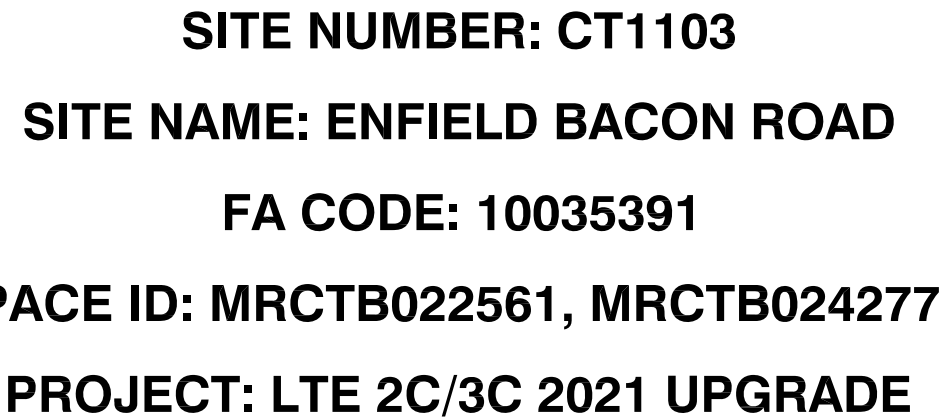
# EXHIBIT 1



| PROJECT INFORMATION |  |
|---------------------|--|
| SCOPE OF WORK:      | <p><b>** BIRD SITE **</b></p> <p><u>ITEMS TO BE MOUNTED ON THE EXISTING TOWER:</u></p> <ul style="list-style-type: none"> <li>• NEW AT&amp;T LTE ANTENNA (TPA-65R-LCUUUU-H8) (TYP. 1 PER BETA &amp; GAMMA SECTORS).</li> <li>• NEW AT&amp;T LTE ANTENNA (QS66512-2) (TOTAL OF 1 FOR ALPHA SECTOR).</li> <li>• NEW RRUS-32 (WCS) (TYP. 1 PER SECTOR, TOTAL OF 3).</li> <li>• NEW RRUS-32 B2 (PCS) (TYP. 1 PER SECTOR, TOTAL OF 3).</li> <li>• NEW AT&amp;T DC &amp; FIBER SURGE ARRESTOR DC6-48-60-18-8C-EV (TOTAL OF 1) WITH (2) DC POWER &amp; (1) FIBER RUN IN 2" CONDUIT.</li> <li>• NEW MOUNT MODIFICATION DESIGN (SEE A-4)</li> <li>• INSTALL NEW 2-1/2" STD. (2.88" O.D.) PIPE MAST BEHIND NEW ANTENNAS SECURED TO THE EXISTING MOUNT STANDOFF (TYP. OF 1 PER SECTOR, TOTAL OF 3)</li> </ul> <p><u>ITEMS TO BE INSTALLED INSIDE THE EXISTING AT&amp;T EQUIPMENT AREA:</u></p> <ul style="list-style-type: none"> <li>• REPLACE DUS'S WITH (2) 5216, (1) XMU AND ADD IDLE CABLE TO EXISTING DUS-41'S.</li> <li>• INSTALL FIBER MANAGEMENT BOX INSTALL (2) 150 AMP BREAKER TO 24V GALAXY POWER PLANT &amp; REPLACE EXISTING (2) 250 AMP BREAKER WITH (2) 150 AMP BREAKER FOR EXISTING LTE 1C 48V CONVERTER SHELF</li> </ul> <p><u>ITEMS TO BE REMOVED:</u></p> <ul style="list-style-type: none"> <li>• EXISTING AT&amp;T ANTENNA (TYP. OF 3 PER SECTOR, TOTAL OF 9)</li> <li>• EXISTING TMA (TYP. OF 2 PER SECTOR TOTAL OF 6)</li> <li>• EXISTING HORIZONTAL ANTENNA MOUNT (TYP OF 1 PER SECTOR, TOTAL OF 3).</li> <li>• EXISTING (6) LINES 1-5/8" COAX</li> </ul> <p><u>ITEMS TO REMAIN:</u></p> <p>(3) RRUS-11 (700), (1) SURGE SUPPRESSOR, (2) DC POWER, (1) FIBER LINE, &amp; (6) LINES 1-5/8" COAX</p> |
| SITE ADDRESS:       | 37 BACON ROAD<br>ENFIELD, CT 06082   |
| LATITUDE:           | 42.015931° N, 42° 0' 57.35" N  |
| LONGITUDE:          | 72.528741° W, 72° 31' 43.46" W   |
| TYPE OF SITE:       | MONOPILE / EQUIPMENT SHELTER   |
| STRUCTURE HEIGHT:   | 180'-0"±   |
| RAD CENTER:         | 168'-0"±   |
| CURRENT USE:        | TELECOMMUNICATIONS FACILITY  |
| PROPOSED USE:       | TELECOMMUNICATIONS FACILITY  |

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

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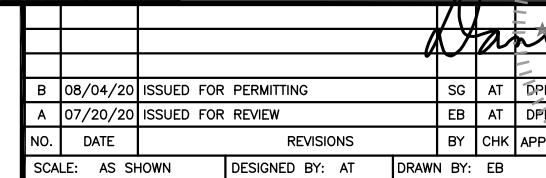
1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS 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.

A circular prohibition sign with a diagonal slash. Inside the circle are icons for a handgun, a shotgun, a shield, and a bomb, indicating that these items are prohibited.

**H2G** | **HUDSON**  
Design Group LLC

45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845

TEL: (978) 557-5553  
FAX: (978) 336-5586



|             |                |     |
|-------------|----------------|-----|
| SITE NUMBER | DRAWING NUMBER | REV |
| CT1103      | T-1            | B   |

1. THE SUBCONTRACTOR SHALL 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 CIRCUIT 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

1. FOR THE PURPOSE OF THE 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.

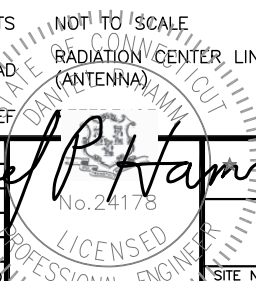
14. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000 PSI STRENGTH AT 28 DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS.
15. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 ( $F_y = 36$  ksi) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E ( $F_y = 36$  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 EDITIONS OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.


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

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION, ASD, FOURTEENTH EDITION;

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<br>COPPER WIRE | MGB | MASTER GROUND BAR                  | TBR  | TO BE REMOVED                 |
| BGR           | BURIED GROUND RING               | MIN | MINIMUM                            | TBRR | TO BE REMOVED AND<br>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<br>(ANTENNA) | VIF  | VERIFY IN FIELD               |
| EGR           | EQUIPMENT GROUND RING            | REF | REFERENCE                          |      |                               |



|   |              |       |   |  |
|---|--------------|-------|---|--|
|  |              |       | AT&T  |  |
| SUBMITTED FOR PERMITTING  |              |       | <b>GENERAL NOTES</b><br><b>LTE 2C/3C 2021 UPGRADE</b> |  |
| SUBMITTED FOR REVIEW  |              |       |   |  |
| REVISIONS   |              |       | SITE NUMBER   |  |
| BY  | CHK          | APP'D | DRAWING NUMBER  |  |
| DESIGNED BY: AT   | DRAWN BY: EB |       | <b>CT1103</b>   |  |
|   |              |       | <b>GN-1</b>   |  |



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

**SITE NUMBER: CT1103**  
**SITE NAME: ENFIELD BACON ROAD**

37 BACON ROAD  
ENFIELD, CT 06082  
HARTFORD COUNTY



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

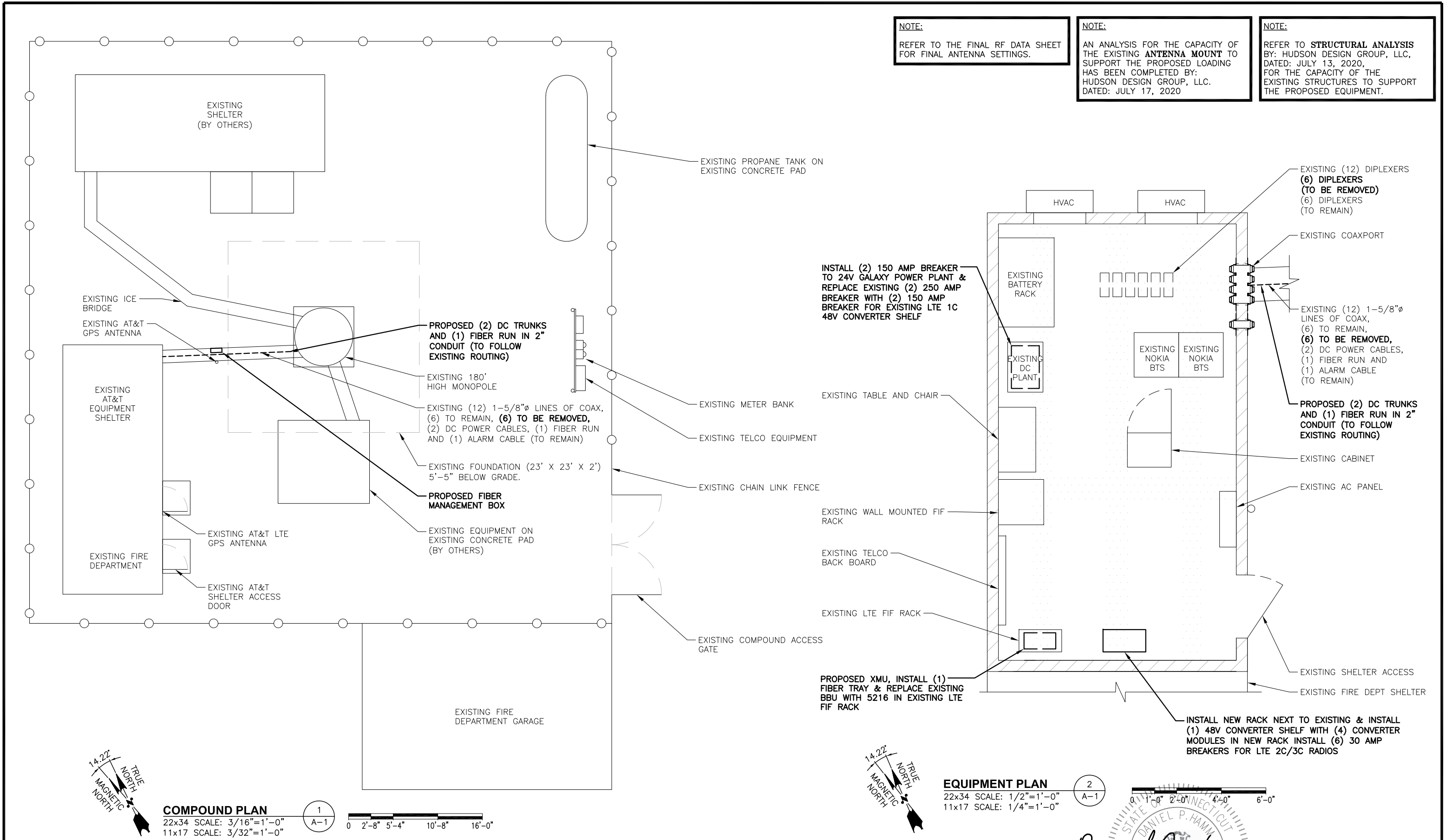
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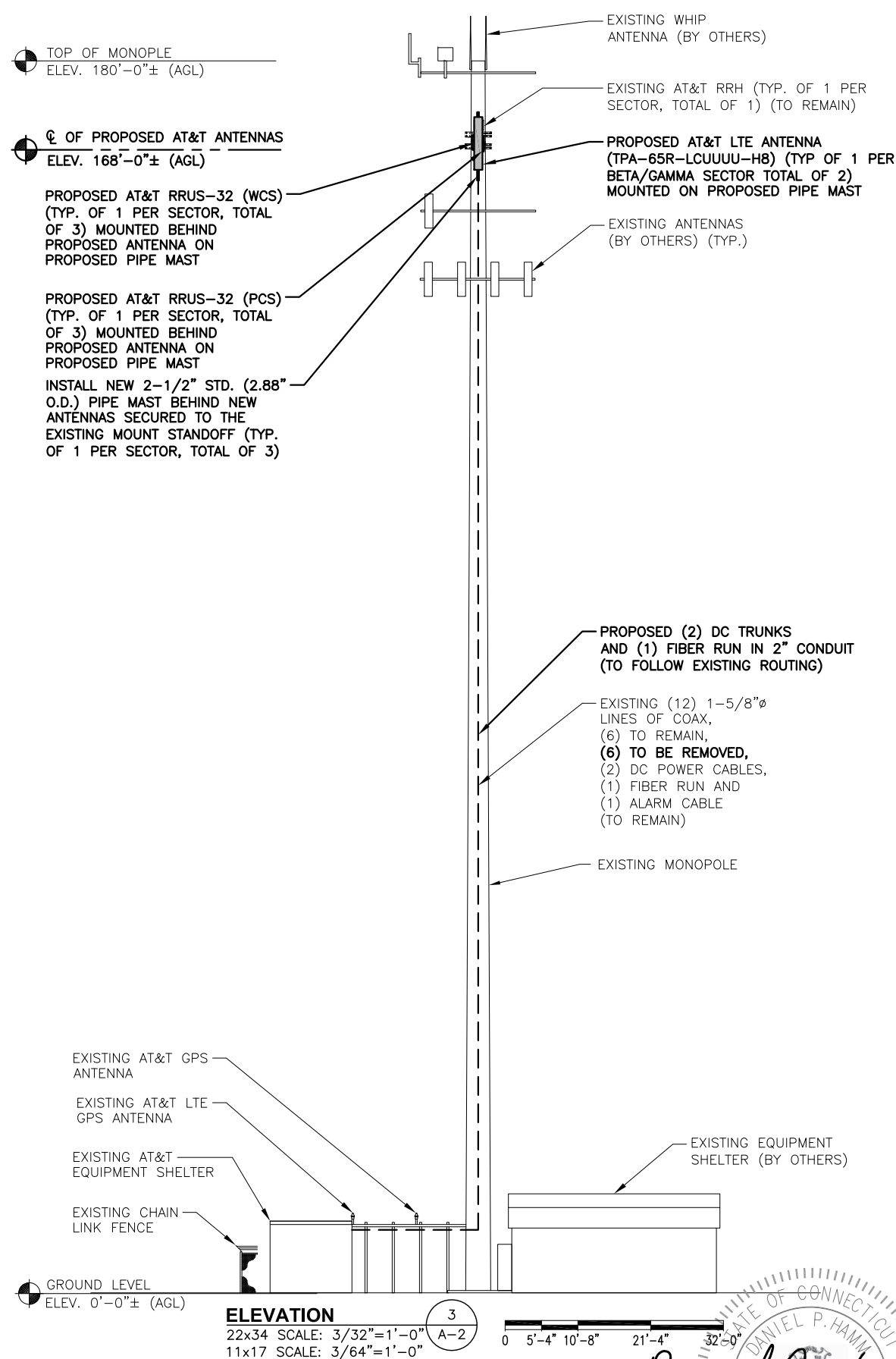
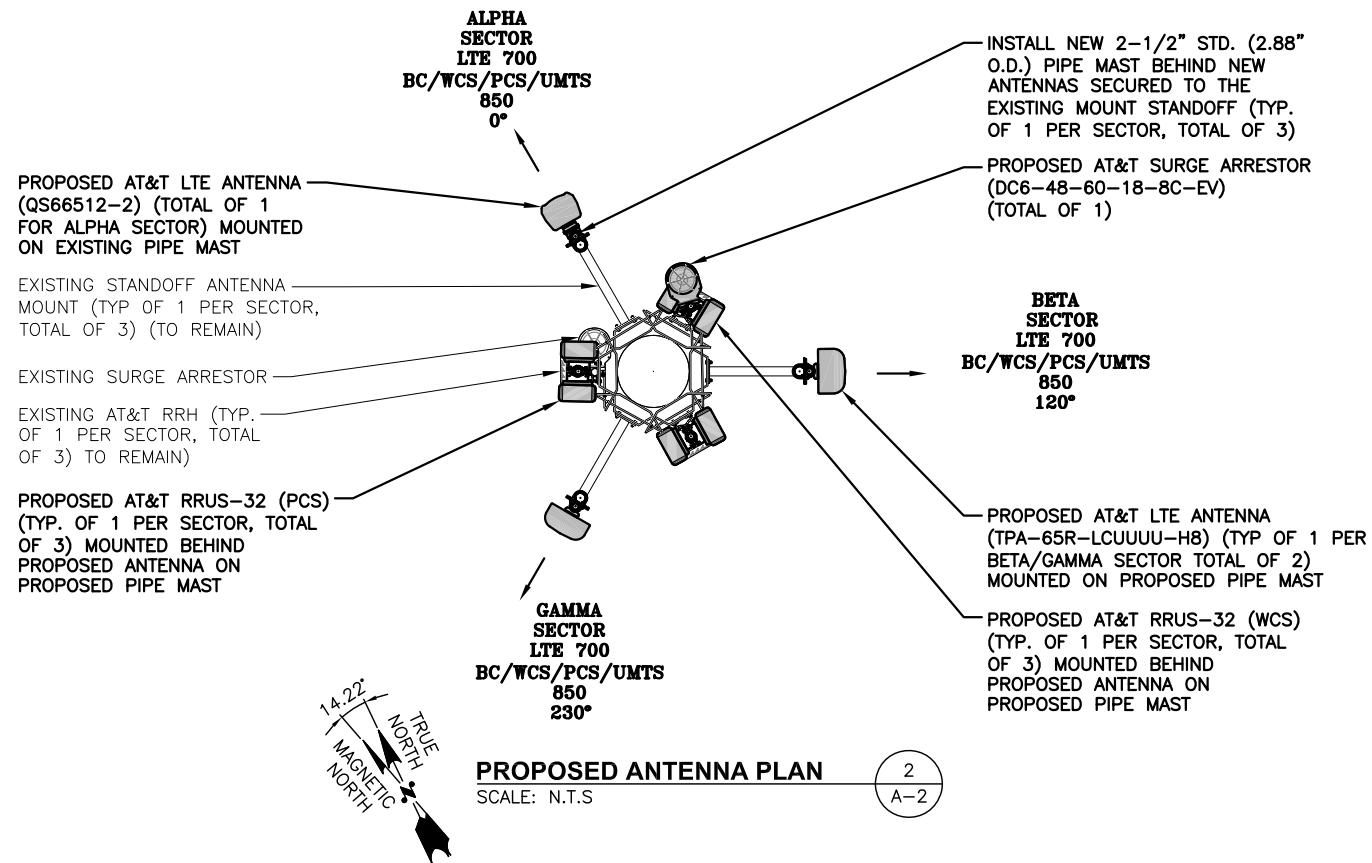
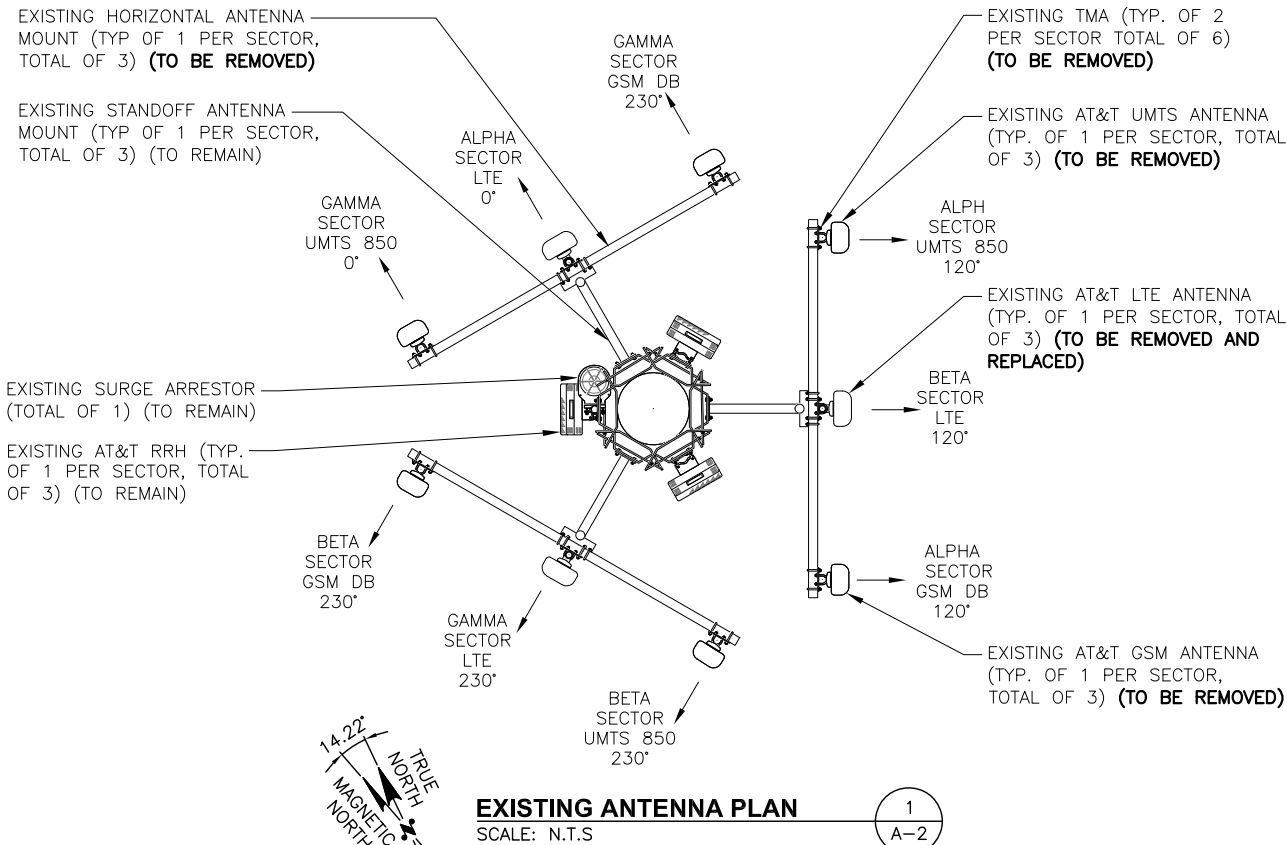
NOTE:  
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

NOTE:  
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING **ANTENNA MOUNT** TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY:  
HUDSON DESIGN GROUP, LLC.  
DATED: JULY 17, 2020

NOTE:  
REFER TO **STRUCTURAL ANALYSIS** BY: HUDSON DESIGN GROUP, LLC, DATED: JULY 13, 2020, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.



|   |  |   |  |  |  |  |  |             |  |     |
|---|--|---|--|--|--|--|--|-------------|--|-----|
| <br>45 BEECHWOOD DRIVE<br>NORTH ANDOVER, MA 01845<br>TEL: (978) 557-5553<br>FAX: (978) 336-5586 | <br>750 WEST CENTER STREET, SUITE #301<br>WEST BRIDGEWATER, MA 02379 | SITE NUMBER: CT1103<br>SITE NAME: ENFIELD BACON ROAD<br><br>37 BACON ROAD<br>ENFIELD, CT 06082<br>HARTFORD COUNTY | <br>500 ENTERPRISE DRIVE, SUITE 3A<br>ROCKY HILL, CT 06067 | <br>Daniel P. Hamm                                   |  |  |  | AT&T        |  |     |
|   |  |   |  | COMPOUND & EQUIPMENT PLANS<br>LTE 2C/3C 2021 UPGRADE |  |  |  | SITE NUMBER |  | REV |
|   |  |   |  | SCALE: AS SHOWN    DESIGNED BY: AT    DRAWN BY: EB   |  |  |  | CT1103      |  | B   |



**NOTE:**  
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| ANTENNA SCHEDULE |                       |                                    |                   |                              |                     |         |                  |  |   |  |                                      |
|------------------|-----------------------|------------------------------------|-------------------|------------------------------|---------------------|---------|------------------|--|---|--|--------------------------------------|
| SECTOR           | EXISTING/<br>PROPOSED | BAND                               | ANTENNA           | SIZE (INCHES)<br>(L x W x D) | ANTENNA<br>Ꞥ HEIGHT | AZIMUTH | TMA/<br>DIPLEXER | RRU  | SIZE (INCHES)<br>(L x W x D)              | FEEDER   | RAYCAP                               |
| A1               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  | (E) (1) RAYCAP<br>DC6-48-60-18-8F    |
| A2               | PROPOSED              | LTE 700<br>BC/WCS/PCS<br>/UMTS 850 | QS66512-2         | 72x12x9.6                    | 168'-0"±            | 0°      | —                | (E)(1) RRU 11 (700)<br>(P)(1) RRUS-32 (WCS)<br>(P)(1) RRUS-32 B2 (PCS) | —<br>27.2"x12.1"x7.0"<br>27.2"x12.1"x7.0" | (E)(2)1-5/8<br>COAX<br>(E)(2) DC LINES<br>(E)(1) FIBER |                                      |
| A3               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  |                                      |
| A4               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  |                                      |
| B1               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  | (P) (1) RAYCAP<br>DC6-48-60-18-8C-EV |
| B2               | PROPOSED              | LTE 700<br>BC/WCS/PCS<br>/UMTS 850 | TPA-65R-LCUUUU-H8 | 96x14.4x8.6                  | 168'-0"±            | 120°    | —                | (E)(1) RRU 11 (700)<br>(P)(1) RRUS-32 (WCS)<br>(P)(1) RRUS-32 B2 (PCS) | —<br>27.2"x12.1"x7.0"<br>27.2"x12.1"x7.0" | (E)(2)1-5/8<br>COAX<br>(P)(2) DC LINES<br>(P)(1) FIBER |                                      |
| B3               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  |                                      |
| B4               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  |                                      |
| C1               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  | I                                    |
| C2               | PROPOSED              | LTE 700<br>BC/WCS/PCS<br>/UMTS 850 | TPA-65R-LCUUUU-H8 | 96x14.4x8.6                  | 168'-0"±            | 230°    | —                | (E)(1) RRU 11 (700)<br>(P)(1) RRUS-32 (WCS)<br>(P)(1) RRUS-32 B2 (PCS) | —<br>27.2"x12.1"x7.0"<br>27.2"x12.1"x7.0" | (E)(2)1-5/8<br>COAX                                    |                                      |
| C3               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  |                                      |
| C4               | —                     | —                                  | —                 | —                            | —                   | —       | —                | —  | —   | —  |                                      |

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

NOTE:  
AN ANALYSIS FOR THE CAPACITY OF  
THE EXISTING **ANTENNA MOUNT** TO  
SUPPORT THE PROPOSED LOADING  
HAS BEEN COMPLETED BY:  
HUDSON DESIGN GROUP, LLC.  
DATED: JULY 17, 2020

NOTE:  
REFER TO **STRUCTURAL ANALYSIS**  
BY: HUDSON DESIGN GROUP, LLC,  
DATED: JULY 13, 2020,  
FOR THE CAPACITY OF THE  
EXISTING STRUCTURES TO SUPPORT  
THE PROPOSED EQUIPMENT.

FINAL ANTENNA SCHEDULE  
SCALE: N.T.S.



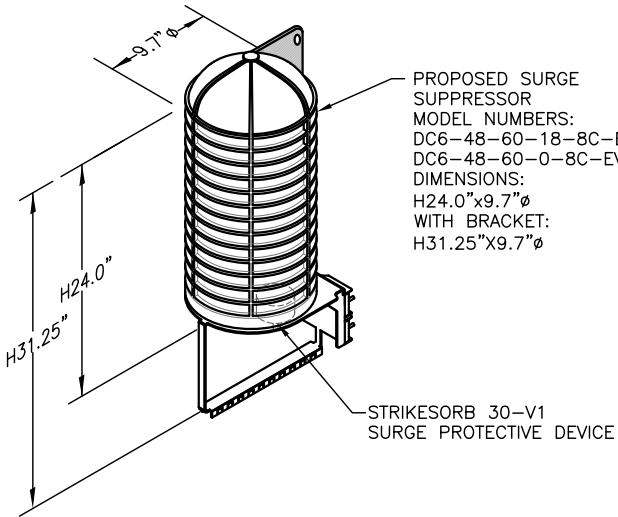
| RRU CHART  |                  |                  |
|--|------------------|------------------|
| QUANTITY   | MODEL            | SIZE (L x W x D) |
| (P)(3)   | RRUS-32 (WCS)    | 27.2"x12.1"x7.0" |
| (P)(3)   | RRUS-32 B2 (PCS) | 27.2"x12.1"x7.0" |
| (E)(3)   | RRUS-11 (700)    | 19.7"x17.0"x7.2" |
| NOTE:<br>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  
SCALE: N.T.S.



NOTE:  
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

DC SURGE SUPPRESSOR DETAIL  
SCALE: N.T.S.



45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586

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

SITE NUMBER: CT1103  
SITE NAME: ENFIELD BACON ROAD

37 BACON ROAD  
ENFIELD, CT 06082  
HARTFORD COUNTY

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

|                 |          |                       |    |              |       |  |  |  |  |
|-----------------|----------|-----------------------|----|--------------|-------|--|--|--|--|
|                 |          |                       |    |              |       |  |  |  |  |
| B               | 08/04/20 | ISSUED FOR PERMITTING | SG | AT           | DPH   |  |  |  |  |
| A               | 07/20/20 | ISSUED FOR REVIEW     | EB | AT           | DPH   |  |  |  |  |
| NO.             | DATE     | REVISIONS             | BY | CHK          | APP'D |  |  |  |  |
| SCALE: AS SHOWN |          | DESIGNED BY: AT       |    | DRAWN BY: EB |       |  |  |  |  |

AT&T

DETAILS  
LTE 2C/3C 2021 UPGRADE

|             |                |     |
|-------------|----------------|-----|
| SITE NUMBER | DRAWING NUMBER | REV |
| CT1103      | A-3            | B   |

**NOTE:**

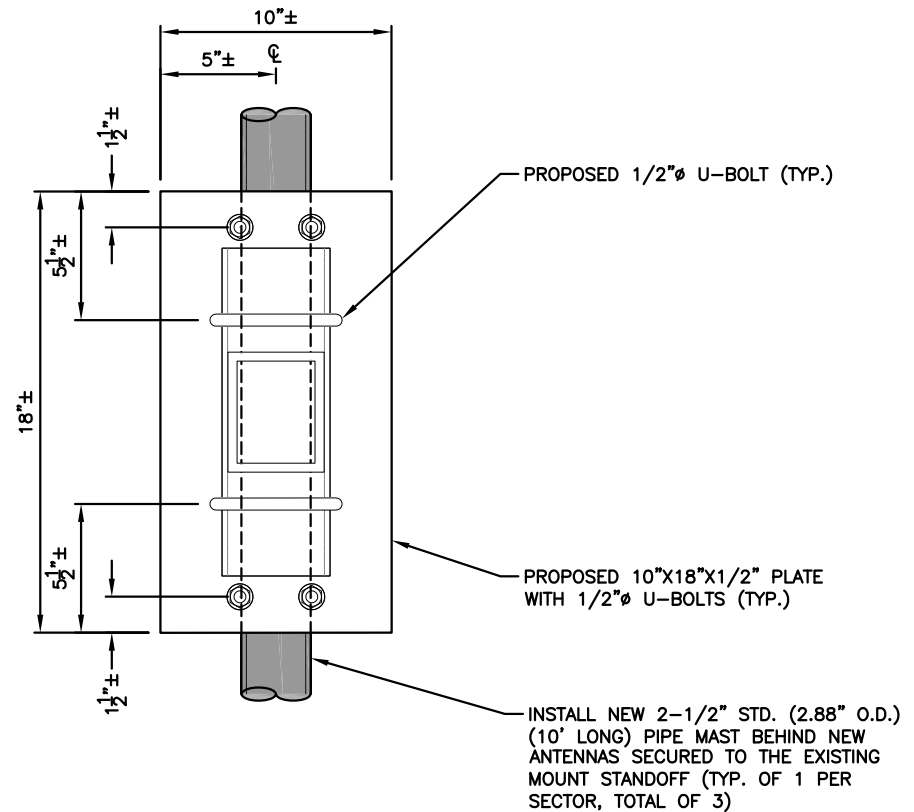
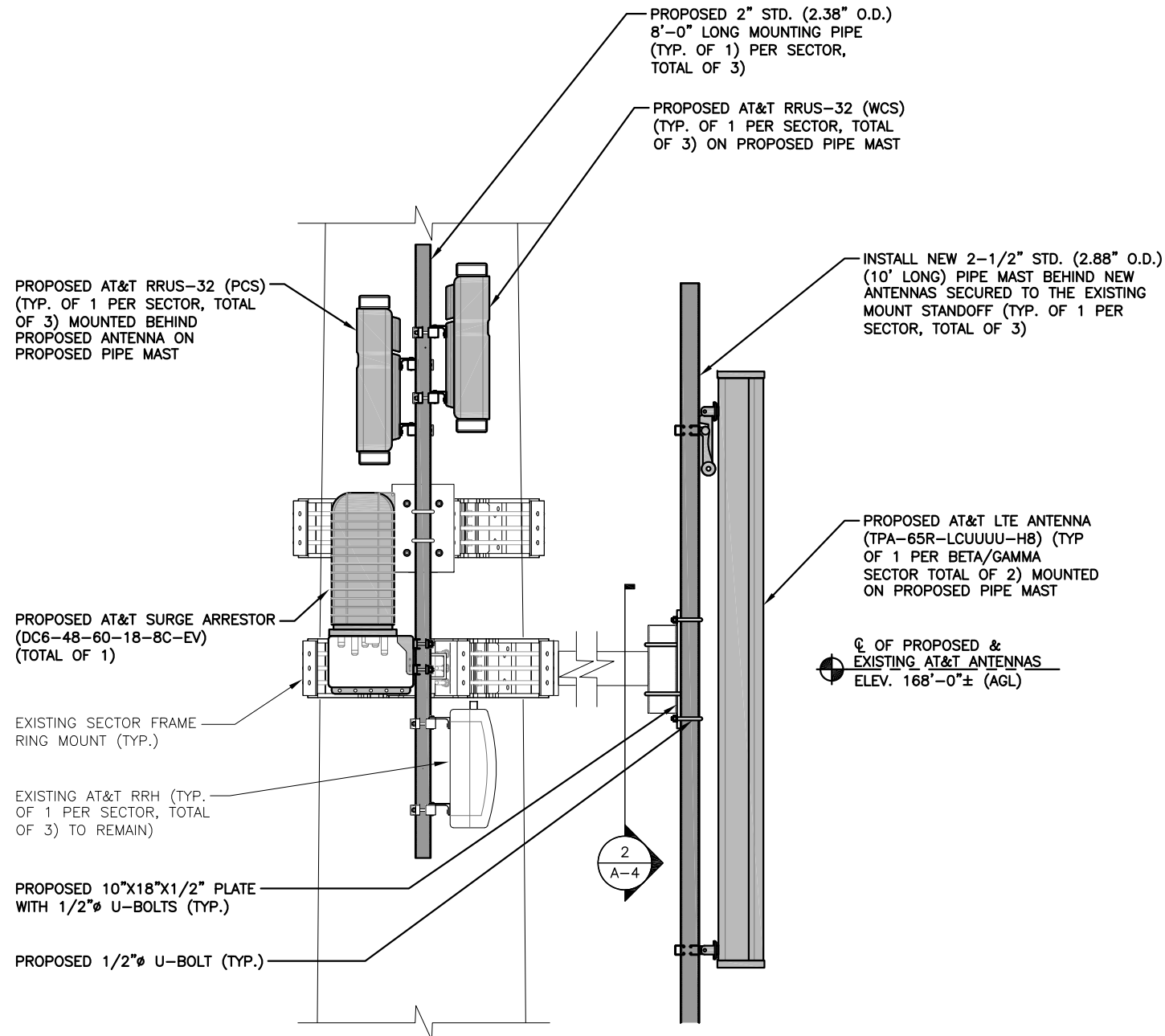
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

**NOTE:**

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING **ANTENNA MOUNT** TO SUPPORT THE PROPOSED LOADING HAS BEEN COMPLETED BY:  
HUDSON DESIGN GROUP, LLC.  
DATED: JULY 17, 2020

**NOTE:**

REFER TO **STRUCTURAL ANALYSIS** BY: HUDSON DESIGN GROUP, LLC, DATED: JULY 13, 2020, FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED EQUIPMENT.



**PROPOSED PLATE DETAIL**

22x34 SCALE: 3"=1'-0"  
11x17 SCALE: 1-1/2"=1'-0"



**PROPOSED LTE ANTENNA MOUNTING DETAIL**

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



45 BEECHWOOD DRIVE  
NORTH ANDOVER, MA 01845  
TEL: (978) 557-5553  
FAX: (978) 336-5586



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

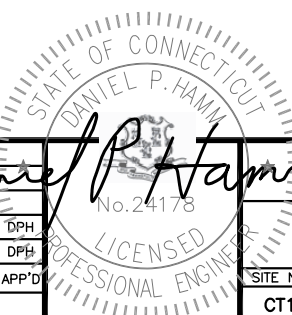
SITE NUMBER: CT1103  
SITE NAME: ENFIELD BACON ROAD

37 BACON ROAD  
ENFIELD, CT 06082  
HARTFORD COUNTY



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

|        |          |                       |    |           |       |
|--------|----------|-----------------------|----|-----------|-------|
| NO.    | DATE     | REVISIONS             | BY | CHK       | APP'D |
| B      | 08/04/20 | ISSUED FOR PERMITTING | SG | AT        | DPH   |
| A      | 07/20/20 | ISSUED FOR REVIEW     | EB | AT        | DPH   |
| SCALE: | AS SHOWN | DESIGNED BY:          | AT | DRAWN BY: | EB    |

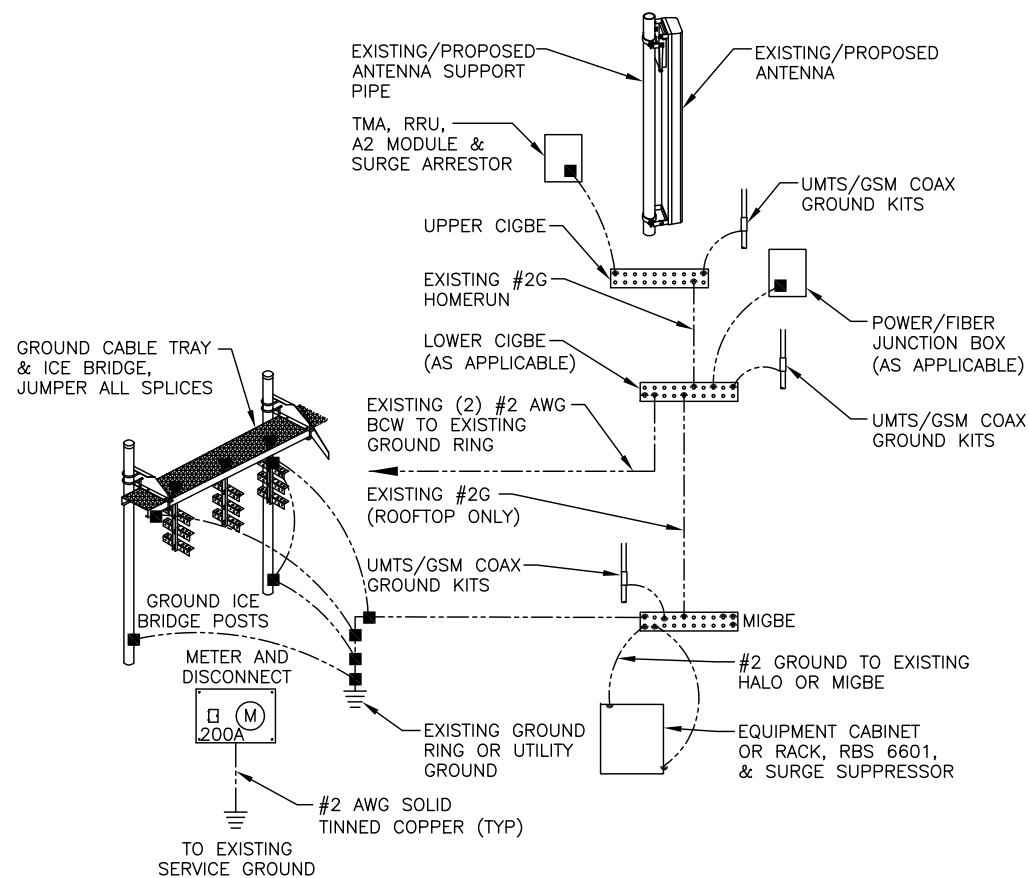
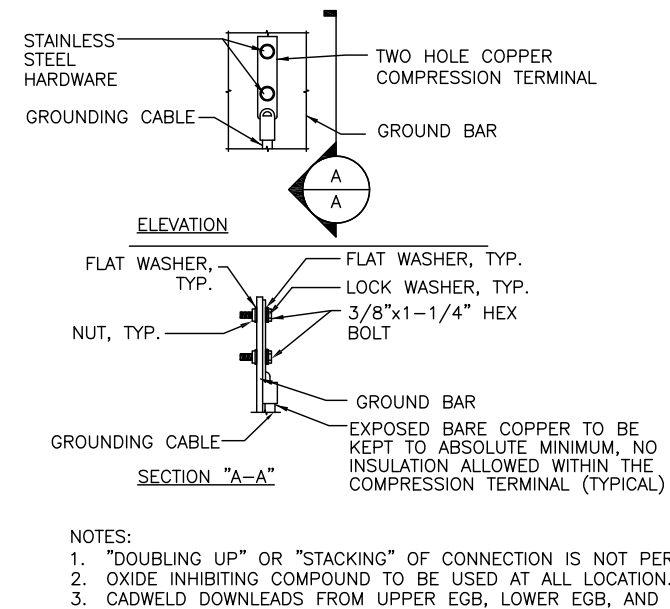
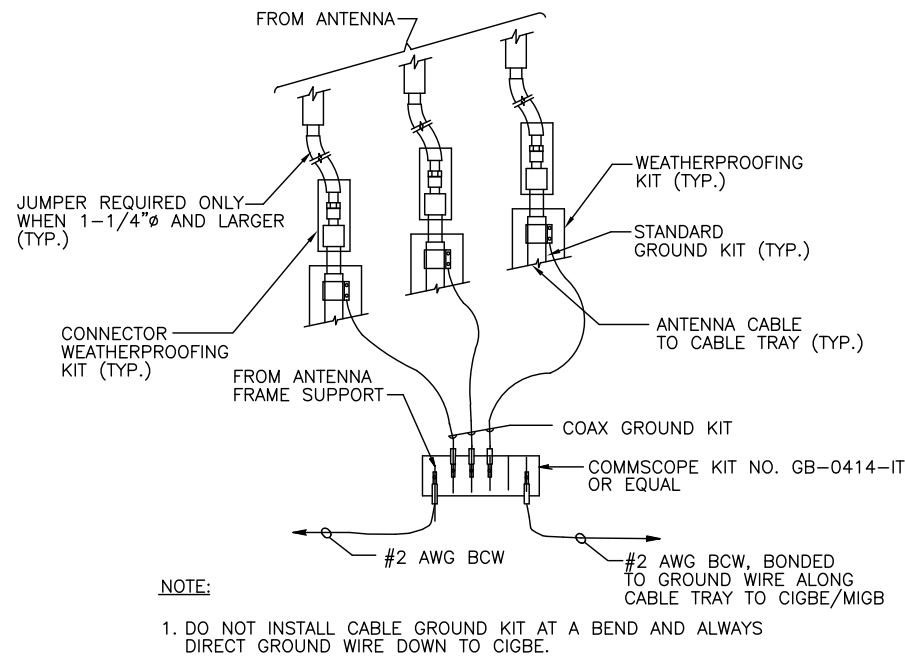


AT&T

DETAILS  
LTE 2C/3C 2021 UPGRADE

| SITE NUMBER | DRAWING NUMBER | REV |
|-------------|----------------|-----|
| CT1103      | A-4            | B   |





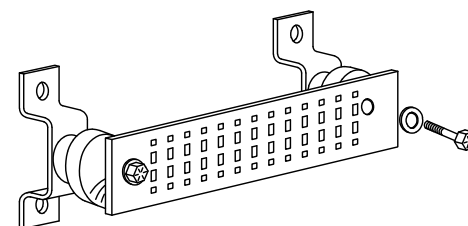
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

#### SECTION "P" - SURGE PRODUCERS

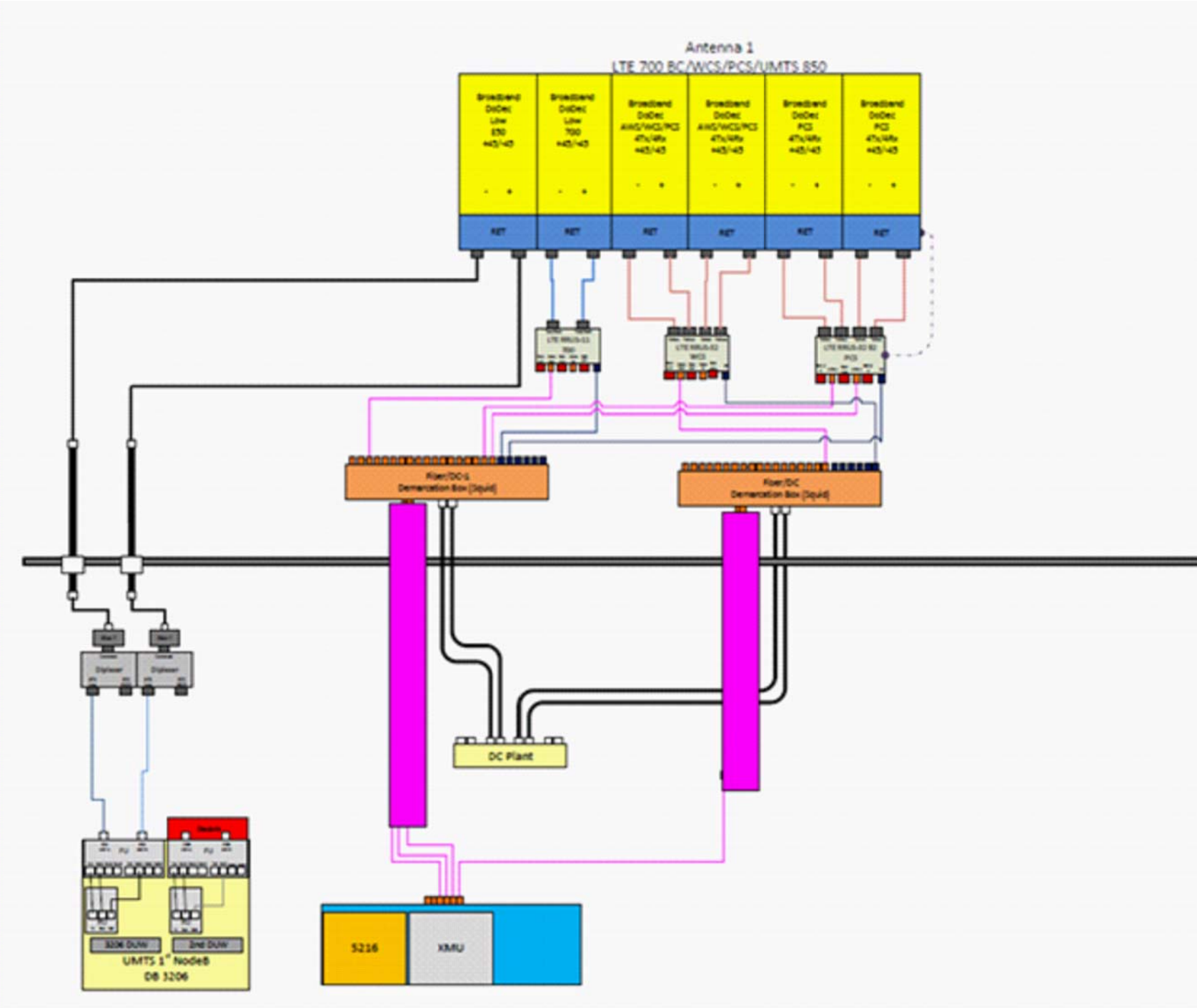
CABLE ENTRY PORTS (HATCH PLATES) (#2 AWG)  
GENERATOR FRAMEWORK (IF AVAILABLE) (#2 AWG)  
TELCO GROUND BAR  
COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2 AWG)  
+24V POWER SUPPLY RETURN BAR (#2 AWG)  
-48V POWER SUPPLY RETURN BAR (#2 AWG)  
RECTIFIER FRAMES.

#### 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)





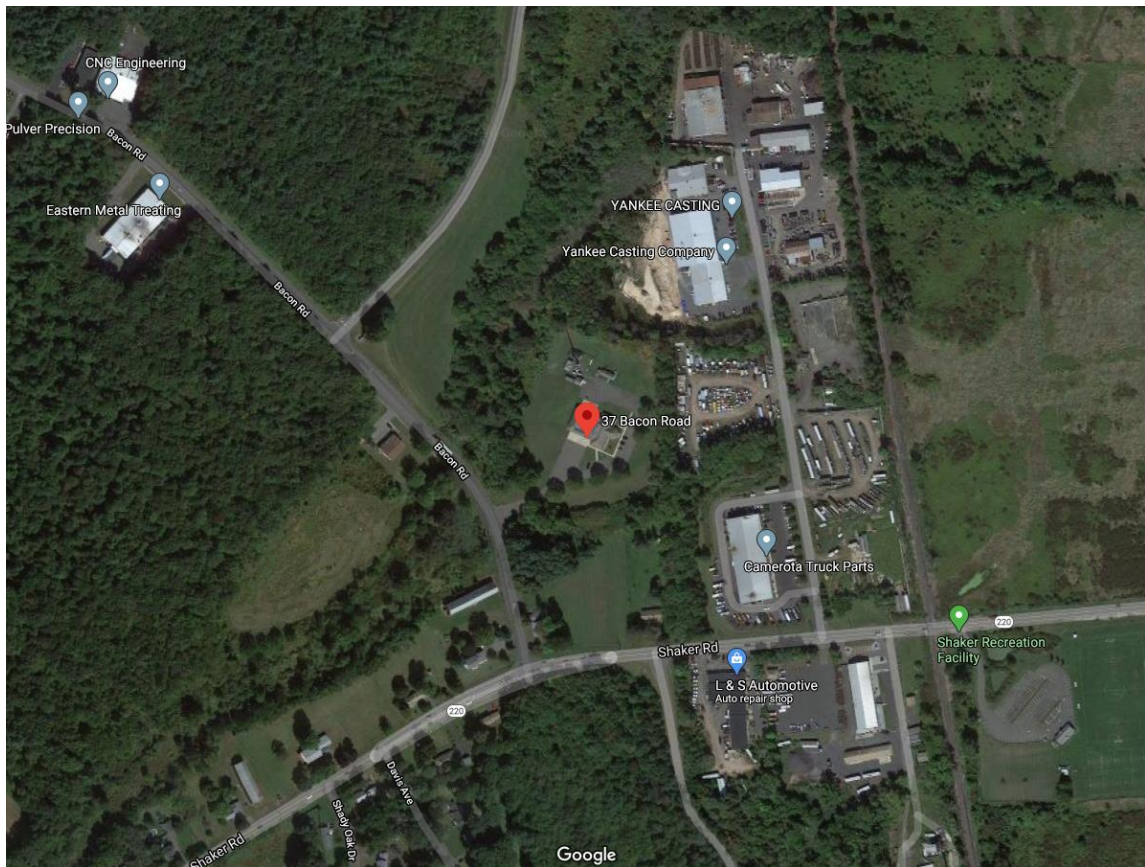


RF PLUMBING DIAGRAM 1  
SCALE: N.T.S RF-1

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

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

# EXHIBIT 2



37 BACON RD

|               |               |                |                               |
|---------------|---------------|----------------|-------------------------------|
| Location      | 37 BACON RD   | Mblu           | 094/ / 0062/ /                |
| Acct#         | 052900010040E | Owner          | SHAKER PINES FIRE DISTRICT #5 |
| Assessment    | \$957,470     | Appraisal      | \$1,367,790                   |
| PID           | 30306         | Building Count | 1                             |
| Fire District | 5             |                |                               |

Current Value

| Appraisal      |              |           |             |
|----------------|--------------|-----------|-------------|
| Valuation Year | Improvements | Land      | Total       |
| 2017           | \$1,236,370  | \$131,420 | \$1,367,790 |
| Assessment     |              |           |             |
| Valuation Year | Improvements | Land      | Total       |
| 2017           | \$865,470    | \$92,000  | \$957,470   |

Owner of Record

|          |                               |             |            |
|----------|-------------------------------|-------------|------------|
| Owner    | SHAKER PINES FIRE DISTRICT #5 | Sale Price  | \$0        |
| Co-Owner |                               | Certificate |            |
| Address  | 37 BACON RD                   | Book & Page | 0617/0455  |
|          | ENFIELD, CT 06082             | Sale Date   | 10/01/2015 |
|          |                               | Instrument  | 15         |

Ownership History

| Ownership History             |            |             |             |            |            |
|-------------------------------|------------|-------------|-------------|------------|------------|
| Owner                         | Sale Price | Certificate | Book & Page | Instrument | Sale Date  |
| SHAKER PINES FIRE DISTRICT #5 | \$0        |             | 0617/0455   | 15         | 10/01/2015 |

Building Information

Building 1 : Section 1

|                   |             |
|-------------------|-------------|
| Year Built:       | 2001        |
| Living Area:      | 10,620      |
| Replacement Cost: | \$1,486,946 |

Building Percent Good: 81  
Replacement Cost  
Less Depreciation: \$1,204,430

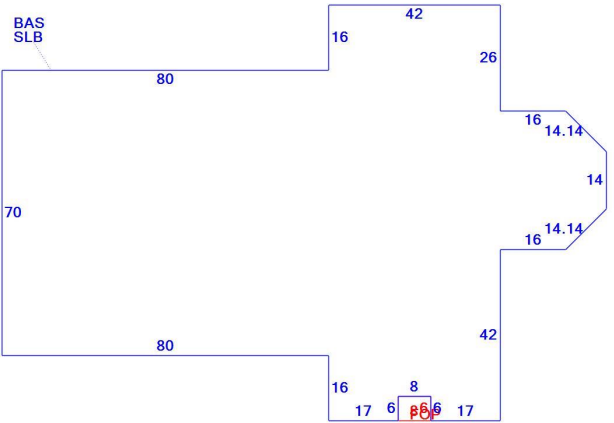
| Building Attributes |                |
|---------------------|----------------|
| Field               | Description    |
| STYLE               | Fire Station   |
| MODEL               | Comm/Ind       |
| Grade               | Average +10    |
| Stories:            | 1              |
| Occupancy           | 1.00           |
| Exterior Wall 1     | Brick          |
| Exterior Wall 2     |                |
| Roof Structure      | Gable          |
| Roof Cover          | Asph/F Gl/Cmp  |
| Interior Wall 1     | Minim/Masonry  |
| Interior Wall 2     |                |
| Interior Floor 1    | Vinyl/Asphalt  |
| Interior Floor 2    |                |
| Heating Fuel        | Gas            |
| Heating Type        | Hot Air-no Duc |
| AC Type             | Partial        |
| Struct Class        |                |
| Bldg Use            | Exempt Comm    |
| Total Rooms         |                |
| Total Bedrms        |                |
| Total Baths         |                |
| Total H Bths        |                |
| Extra Fixtures      |                |
| 1st Floor Use:      |                |
| Heat/AC             | None           |
| Frame Type          | Masonry        |
| Baths/Plumbing      | Average        |
| Ceiling/Wall        | Sus Ceil Wall  |
| Rooms/Prtns         | Average        |
| Wall Height         | 18.00          |
| % Comn Wall         |                |

Building Photo



(http://images.vgsi.com/photos2/EnfieldCTPhotos//00\03\40\95.jpg)

Building Layout



(ParcelSketch.ashx?pid=30306&bid=30385)

| Building Sub-Areas (sq ft) |             |            | Legend      |
|----------------------------|-------------|------------|-------------|
| Code                       | Description | Gross Area | Living Area |
| BAS                        | First Floor | 10,620     | 10,620      |
| FOP                        | Open Porch  | 48         | 0           |
| SLB                        | Slab        | 10,620     | 0           |
|                            |             | 21,288     | 10,620      |

Extra Features

| Extra Features |                |             |         | Legend |
|----------------|----------------|-------------|---------|--------|
| Code           | Description    | Size        | Value   | Bldg # |
| SPR1           | SPRINKLERS-WET | 10620.00 SF | \$8,600 | 1      |

Land

| Land Use      |             | Land Line Valuation |           |
|---------------|-------------|---------------------|-----------|
| Use Code      | 925         | Size (Acres)        | 6.5       |
| Description   | Exempt Comm | Frontage            |           |
| Zone          | I1          | Depth               |           |
| Neighborhood  | C500        | Assessed Value      | \$92,000  |
| Alt Land Appr | No          | Appraised Value     | \$131,420 |
| Category      |             |                     |           |

Outbuildings

| Outbuildings |                |          |                 |              |         | Legend |
|--------------|----------------|----------|-----------------|--------------|---------|--------|
| Code         | Description    | Sub Code | Sub Description | Size         | Value   | Bldg # |
| FGR1         | Garage         | FR       | Frame           | 400.00 S.F.  | \$5,000 | 1      |
| PAV1         | Paving         | AS       | Asphalt         | 3420.00 S.F. | \$3,680 | 1      |
| SHD1         | Shed           | MS       | Masonry         | 360.00 S.F.  | \$2,930 | 1      |
| SHD1         | Shed           | MS       | Masonry         | 348.00 S.F.  | \$2,840 | 1      |
| FN2          | FENCE-6' CHAIN |          |                 | 280.00 L.F.  | \$2,380 | 1      |
| SHD1         | Shed           | FR       | Frame           | 288.00 S.F.  | \$1,760 | 1      |
| FOP          | Porch          |          |                 | 792.00 S.F.  | \$4,750 | 1      |

Valuation History

| Appraisal      |              |           |             |
|----------------|--------------|-----------|-------------|
| Valuation Year | Improvements | Land      | Total       |
| 2018           | \$1,236,370  | \$131,420 | \$1,367,790 |
| 2017           | \$1,236,370  | \$131,420 | \$1,367,790 |
| 2016           | \$1,236,370  | \$131,420 | \$1,367,790 |

| Assessment     |              |          |           |
|----------------|--------------|----------|-----------|
| Valuation Year | Improvements | Land     | Total     |
| 2018           | \$865,470    | \$92,000 | \$957,470 |
| 2017           | \$865,470    | \$92,000 | \$957,470 |
| 2016           | \$865,470    | \$92,000 | \$957,470 |

# EXHIBIT 3



# STRUCTURAL ANALYSIS REPORT

For

**SITE NUMBER: CT1103**  
**SITE NAME: ENFIELD BACON ROAD**  
**FA CODE: 10035391**  
**PROJECT: LTE 2C/3C 2021 UPGRADE**

37 Bacon Road  
Enfield, CT 06082

## Antennas Mounted to the Monopole



Prepared for:



Dated: July 13, 2020

Prepared by:



45 Beechwood Drive  
North Andover, MA 01845  
(P) 978.557.5553 (F) 978.336.5586  
[www.hudsondesigngroupllc.com](http://www.hudsondesigngroupllc.com)



**HUDSON**  
Design Group LLC

### **SCOPE OF WORK:**

Hudson Design Group LLC (HDG) has been authorized by AT&T to conduct a structural evaluation of the 179' monopole supporting the proposed AT&T antennas located at elevation 168' 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.

Record drawings of the existing monopole prepared by Sabre Communications Corp., dated July 23, 2003, were obtained for our use. The previous structural analysis report prepared for Verizon Wireless by Centek Engineering, Inc., dated February 1, 2012 was provided to this office. The previous structural analysis report and tower modification drawings prepared by HDG, dated May 29, 2012, was used for analysis.

### **CONCLUSION SUMMARY:**

Based on our evaluation, we have determined that the existing monopole and foundation **are in conformance** with the ANSI/TIA-222-H Standard for the loading considered under the criteria listed in this report. The monopole structure is rated at **72.7%** - (Pole section L5 from EL.20' to 47.75' Controlling).



**APPURTENANCES CONFIGURATION:**

| Tenant          | Appurtenances                         | Elev.  | Mount                |
|-----------------|---------------------------------------|--------|----------------------|
|                 | 10' Omni                              | 182'   | Side Mount Standoff  |
|                 | Panel Antenna                         | 178.5' | Side Mount Standoff  |
|                 | Box 12"x8"                            | 177.7' | Side Mount Standoff  |
|                 | 2' Dish                               | 177.7' | Side Mount Standoff  |
| <b>AT&amp;T</b> | (3) RRUS-11                           | 168'   | <b>Mount Pipe</b>    |
| <b>AT&amp;T</b> | (1) DC6-48-60-18-8F                   | 168'   | <b>Mount Pipe</b>    |
| <b>AT&amp;T</b> | <b>(1) QS66512-2 Antenna</b>          | 168'   | Side Mount Standoff  |
| <b>AT&amp;T</b> | <b>(2) TPA-65R-LCUUUU-H8 Antennas</b> | 168'   | Side Mount Standoff  |
| <b>AT&amp;T</b> | <b>(3) RRUS-32</b>                    | 168'   | <b>Mount Pipe</b>    |
| <b>AT&amp;T</b> | <b>(3) RRUS-32 B2</b>                 | 168'   | <b>Mount Pipe</b>    |
| <b>AT&amp;T</b> | <b>(1) DC6-48-60-18-8C-EV</b>         | 168'   | <b>Mount Pipe</b>    |
|                 | (3) RR90-17-00 Antennas               | 157.5' | 12' T-Frame          |
|                 | (6) TMA                               | 157.5' | 12' T-Frame          |
| Verizon         | (6) LPA-80080-4CF Antennas            | 150'   | Low Profile Platform |
| Verizon         | (3) BXA-171085-8BF Antennas           | 150'   | Low Profile Platform |
| Verizon         | BXA-70063-4CF Antenna                 | 150'   | Low Profile Platform |
| Verizon         | (2) SLCP 2X6014 Antennas              | 150'   | Low Profile Platform |
| Verizon         | (6) FD9R6004 Diplexers                | 150'   | Low Profile Platform |

**\*Proposed AT&T Appurtenances shown in Bold.**

**AT&T EXISTING/PROPOSED COAX CABLES:**

| Tenant          | Coax Cables                | Elev. | Mount           |
|-----------------|----------------------------|-------|-----------------|
| <b>AT&amp;T</b> | (6) 1 5/8" Cables          | 168'  | Inside Monopole |
| <b>AT&amp;T</b> | (2) DC Power Cables        | 168'  | Inside Monopole |
| <b>AT&amp;T</b> | (1) Fiber Cable            | 168'  | Inside Monopole |
| <b>AT&amp;T</b> | (1) Alarm Cable            | 168'  | Inside Monopole |
| <b>AT&amp;T</b> | <b>(2) DC Power Cables</b> | 168'  | Inside Monopole |
| <b>AT&amp;T</b> | <b>(1) Fiber Cable</b>     | 168'  | Inside Monopole |

**\*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 | 30.6 %            | 148.0 – 179.0           | PASS      |                    |
| Pole Section-L2 | 57.8 %            | 117.25 – 148.0          | PASS      |                    |
| Pole Section-L3 | 58.3 %            | 97.25 – 117.25          | PASS      |                    |
| Pole Section-L4 | 65.2 %            | 47.75 – 97.25           | PASS      |                    |
| Pole Section-L5 | <b>72.7 %</b>     | 20.0 – 47.75            | PASS      | <b>Controlling</b> |
| Pole Section-L6 | 65.0 %            | 0.0 – 20.0              | PASS      |                    |
| Base Plate      | 63.8 %            | 0.0                     | PASS      |                    |

**FOUNDATION COMPARISON SUMMARY:**

|               | Original Design Reactions X 1.35 | Proposed Reactions | Pass/Fail | Comments |
|---------------|----------------------------------|--------------------|-----------|----------|
| <b>AXIAL</b>  | <b>47.0 k</b>                    | 34.5 k             | PASS      |          |
| <b>SHEAR</b>  | <b>28.6 k</b>                    | 22.4 k             | PASS      |          |
| <b>MOMENT</b> | <b>3633 ft-k</b>                 | 2615 ft-k          | PASS      |          |



**HUDSON**  
Design Group LLC

#### **DESIGN CRITERIA:**

1. EIA/TIA-222-H Structural Standard for Antenna Supporting Structures, Antennas and Small Wind Turbine Support Structures

County: Hartford  
City/Town: Enfield, CT  
Basic Wind Speed: 125 mph  
Risk Category: II  
Exposure Category: B  
Topographic Category: 1  
Crest Height: 0 ft.  
Nominal Ice Thickness: 1.5 inch

2. Approximate height above grade to proposed antennas: 168'

#### **ASSUMPTIONS:**

1. The monopole 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.
2. 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.
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.
4. All prior structural modification, if any, are assumed to be as per the data supplied (if available), and installed properly.

#### **SUPPORT RECOMMENDATIONS:**

HDG recommends that the proposed antennas be mounted on the existing standoff supported by the monopole; the proposed RRHs and surge arrestor be mounted on the proposed mount pipes.

# EXHIBIT 4

July 17, 2020



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

RE:      Site Number:              CT1103 (LTE 2C/3C)  
         FA Number:                10035391  
         PACE Number:              MRCTB022561  
         PT Number:                2051A0ACW0  
         Site Name:                ENFIELD BACON ROAD  
         Site Address:              37 Bacon Road  
                                          Enfield, CT 06082

To Whom It May Concern:

Hudson Design Group LLC (HDG) has been authorized by Centerline Communications to perform a mount analysis on the existing AT&T antenna/RRH mounts to determine their capability of supporting the following additional loading:

- (3) RRUS-11 RRH's (19.7"x17.0"x7.2" – Wt. = 51 lbs. /each)
- (1) Squid Surge Arrestor (24.0"x9.7"  $\Phi$  – Wt. = 33 lbs. /each)
- **(2) TPA-65R-LCUUUU-H8 Antennas (96.0"x14.4"x8.6" – Wt. = 75 lbs. /each)**
- **(1) QS66512-2 Antennas (72.0"x12.0"x9.6" – Wt. = 111 lbs. /each)**
- **(6) RRUS-32 RRH's (27.2"x12.1"x7.0" – Wt. = 60 lbs. /each)**
- **(1) Squid Surge Arrestor (24.0"x9.7"  $\Phi$  – Wt. = 33 lbs. /each)**

*\*Proposed equipment shown in bold*

No original structural design documents or fabrication drawings were available for the existing mounts. HDG conducted an on-site visual survey of the existing AT&T antenna mounts on July 9, 2020.



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 2015 with 2018 Connecticut State Building Code, and AT&T Mount Technical Directive – R13.
- HDG 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 N of the Connecticut State Building Code, the max basic wind speed for this site is equal to 130 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 2.21 in was used for this analysis.
- HDG considers this site to be exposure category C; tower is located near large, flat, open, terrain/grasslands.
- HDG considers this site to be topographic category 1; tower is located on flat terrain or the bottom of a hill or ridge.
- AT&T policy forbids walking on or suspending below T-arm mounts. This analysis does not include live load conditions for this mount.
- The existing mount is secured to the existing monopole with ring mount. The connection is considered OK by visual inspection.

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

- **Install new 2-1/2" std. (2.88" O.D.) pipe mast behind new antennas secured to the existing mount standoff (typ. of 1 per sector, total of 3).**

|                                      | Component | Controlling Load Case | Stress Ratio | Pass/Fail |
|--------------------------------------|-----------|-----------------------|--------------|-----------|
| Existing (LTE 2C/3C)<br>Mount Rating | 3         | LC7                   | 153%         | FAIL      |
| Modified (LTE 2C/3C)<br>Mount Rating | 3         | LC1                   | 80%          | PASS      |

This determination was based on the following limitations and assumptions:

1. HDG is not responsible for any modifications completed prior to and hereafter which HDG was not directly involved.
2. All structural members and their connections are assumed to be in good condition and are free from defects with no deterioration to its member capacities.
3. All antennas, coax cables and waveguide cables are assumed to be properly installed and supported as per the manufacturer's requirements.
4. The existing mount has been adequately secured to the tower structure per the mount manufacturer's specifications.
5. All components pertaining to AT&T's mounts must be tightened and re-plumbed prior to the installation of new appurtenances.
6. HDG 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,  
Hudson Design Group LLC



Michael Cabral  
Vice President



Daniel P. Hamm, PE  
Principal

# EXHIBIT 5



# Radio Frequency Emissions Analysis Report

July 31, 2020

AT&T on behalf of Centerline

Site Name: Enfield Bacon Road

Site#: CT1103

FA#: 10035391

USID: 59422

Site Address: 37 Bacon Road, Enfield, CT 59422

## Site Compliance Summary

|  |           |
|--|-----------|
| Compliance Status:                         | Compliant |
| Carrier MPE%                               | 0.01826%  |
| of FCC General Population Allowable Limit: |           |
| Composite MPE%                             | 0.03258%  |
| of FCC General Population Allowable Limit: |           |



July 31, 2020

AT&T Mobility – New England  
Attn: John Benedetto, RF Manager  
550 Cochituate Road  
Suite 550 – 13&14  
Framingham, MA 01701

Emissions Analysis for Site: **Enfield Bacon Road**

Centerline Communications, LLC ("Centerline") was directed to analyze the proposed AT&T facility to be located a monopole near **37 Bacon Road, Enfield, CT 59422** for the purpose of determining whether the emissions from the proposed facility are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (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.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limits for the 700 MHz (LTE) band is  $467 \mu\text{W}/\text{cm}^2$ , 850 MHz (UMTS) band is  $567 \mu\text{W}/\text{cm}^2$ , and 1900 MHz (LTE) and 2300 MHz (LTE) bands is  $1000 \mu\text{W}/\text{cm}^2$ .

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.



## Calculations

Calculations were performed for the proposed facility using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing focused omnidirectional antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. This is a very conservative estimate since the gain reduction in actual applications is typically greater than 10 dB in the direction of ground immediately surrounding the facility. Real world emissions values from this facility are expected to be lower than values listed in this report at ground level. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

Per FCC OET Bulletin No. 65 - Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

| RRH # | Frequency Band | Technology | Channel Count | Transmit Power per Channel (W) |
|-------|----------------|------------|---------------|--------------------------------|
| 1     | L              | 700        | 2             | 30                             |
| 2     | U              | 850        | 1             | 40                             |
| 3     | L              | 1900       | 4             | 40                             |
| 4     | L              | 2300       | 4             | 25                             |
| 5     | L              | 700        | 2             | 30                             |
| 6     | U              | 850        | 1             | 40                             |
| 7     | L              | 1900       | 4             | 40                             |
| 8     | L              | 2300       | 4             | 25                             |
| 9     | L              | 700        | 2             | 30                             |
| 10    | U              | 850        | 1             | 40                             |
| 11    | L              | 1900       | 4             | 40                             |
| 12    | L              | 2300       | 4             | 25                             |

*Table 1: Channel Data Table*



The following antennas listed in Table 2 were used in the modeling for transmission in the 700 MHz (LTE), 850 MHz (LTE), 1900 MHz (LTE), and 2300 MHz (LTE) frequency bands. This is based on information from the carrier with regard to anticipated antenna selection.

| Sector | Antenna Number | Make / Model          | Centerline (ft) |
|--------|----------------|-----------------------|-----------------|
| A      | 1              | QUINTEL QS66512-2     | 168             |
| A      | 1              | QUINTEL QS66512-2     | 168             |
| A      | 1              | QUINTEL QS66512-2     | 168             |
| A      | 1              | QUINTEL QS66512-2     | 168             |
| B      | 2              | CCI TPA-65R-LCUUUU-H8 | 168             |
| B      | 2              | CCI TPA-65R-LCUUUU-H8 | 168             |
| B      | 2              | CCI TPA-65R-LCUUUU-H8 | 168             |
| B      | 2              | CCI TPA-65R-LCUUUU-H8 | 168             |
| C      | 3              | CCI TPA-65R-LCUUUU-H8 | 168             |
| C      | 3              | CCI TPA-65R-LCUUUU-H8 | 168             |
| C      | 3              | CCI TPA-65R-LCUUUU-H8 | 168             |
| C      | 3              | CCI TPA-65R-LCUUUU-H8 | 168             |

*Table 2: Antenna Data*

All calculations were done with respect to uncontrolled / general population threshold limits.



## Results

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

| ID                   | Make / Model          | Frequency Band | Gain (dBd) | Centerline (ft) | Channel Count | TX Power (W) | ERP (W)  | MPE %           |
|----------------------|-----------------------|----------------|------------|-----------------|---------------|--------------|----------|-----------------|
| 1                    | QUINTEL QS66512-2     | 700            | 11.35      | 168             | 2             | 30           | 818.7499 | 0.004771        |
| 2                    | QUINTEL QS66512-2     | 850            | 11.05      | 168             | 1             | 40           | 509.4012 | 0.003010        |
| 3                    | QUINTEL QS66512-2     | 1900           | 13.95      | 168             | 4             | 40           | 3973.013 | 0.006373        |
| 4                    | QUINTEL QS66512-2     | 2300           | 14.55      | 168             | 4             | 25           | 2851.018 | 0.004098        |
| 5                    | CCI TPA-65R-LCUUUU-H8 | 700            | 12.85      | 168             | 2             | 30           | 1156.515 | 0.000001        |
| 6                    | CCI TPA-65R-LCUUUU-H8 | 850            | 13.35      | 168             | 1             | 40           | 865.0874 | 0.000000        |
| 7                    | CCI TPA-65R-LCUUUU-H8 | 1900           | 13.95      | 168             | 4             | 40           | 3973.013 | 0.000003        |
| 8                    | CCI TPA-65R-LCUUUU-H8 | 2300           | 14.85      | 168             | 4             | 25           | 3054.921 | 0.000002        |
| 9                    | CCI TPA-65R-LCUUUU-H8 | 700            | 13.35      | 168             | 2             | 30           | 1297.631 | 0.000000        |
| 10                   | CCI TPA-65R-LCUUUU-H8 | 850            | 13.55      | 168             | 1             | 40           | 905.8577 | 0.000000        |
| 11                   | CCI TPA-65R-LCUUUU-H8 | 1900           | 13.95      | 168             | 4             | 40           | 3973.013 | 0.000000        |
| 12                   | CCI TPA-65R-LCUUUU-H8 | 2300           | 14.45      | 168             | 4             | 25           | 2786.121 | 0.000000        |
| <b>AT&amp;T MPE%</b> |                       |                |            |                 |               |              |          | <b>0.01826%</b> |

*Table 3: AT&T Antenna Inventory & Power Level*





FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 4* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s).

| Frequency Band       | Technology | Centerline (ft.) | # of Channels | ERP W (Per Channel) | Total Power Density ( $\mu\text{W}/\text{cm}^2$ ) | Allowable MPE ( $\mu\text{W}/\text{cm}^2$ ) | MPE %           |
|----------------------|------------|------------------|---------------|---------------------|---|---|-----------------|
| 700                  | L          | 168              | 2             | 409.3749            | 0.0222625   | 467   | 0.004771        |
| 850                  | U          | 168              | 1             | 509.4012            | 0.0170579   | 567   | 0.003010        |
| 1900                 | L          | 168              | 4             | 993.2532            | 0.0637344   | 1000  | 0.006373        |
| 2300                 | L          | 168              | 4             | 712.7546            | 0.0409768   | 1000  | 0.004098        |
| 700                  | L          | 168              | 2             | 578.2575            | 0.0000031   | 467   | 0.000001        |
| 850                  | U          | 168              | 1             | 865.0874            | 0.0000012   | 567   | 0.000000        |
| 1900                 | L          | 168              | 4             | 993.2532            | 0.0000263   | 1000  | 0.000003        |
| 2300                 | L          | 168              | 4             | 763.7303            | 0.0000185   | 1000  | 0.000002        |
| 700                  | L          | 168              | 2             | 648.8156            | 0.0000007   | 467   | 0.000000        |
| 850                  | U          | 168              | 1             | 905.8577            | 0.0000019   | 567   | 0.000000        |
| 1900                 | L          | 168              | 4             | 993.2532            | 0.0000004   | 1000  | 0.000000        |
| 2300                 | L          | 168              | 4             | 696.5303            | 0.0000001   | 1000  | 0.000000        |
| <b>AT&amp;T MPE%</b> |            |                  |               |                     |   |   | <b>0.01826%</b> |

*Table 4: AT&T Maximum Sector MPE Power Values*



## Summary

All calculations performed for this analysis yielded results that were **within** the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the AT&T facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

| Carrier            | Predicted MPE % |
|--------------------|-----------------|
| AT&T               | 0.01826%        |
| Unknown Carrier(s) | 0.01432%        |
| <b>Composite</b>   | <b>0.03258%</b> |

*Table 5: Total Predicted MPE(%) by Carrier*

## Compliance Status:

The anticipated composite MPE value for this site assuming all carriers present is **0.03258%** of the allowable FCC established general population limit sampled at the ground level.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

A handwritten signature in black ink, appearing to read 'Erin Kavanaugh'.

Erin Kavanaugh  
RF Compliance Consultant  
**Centerline Communications, LLC**

750 West Center St. Suite 301  
West Bridgewater, MA 02379

# EXHIBIT 6

# ZONING CERTIFICATE

## - SPECIAL USE PERMIT -

Planning and Zoning File PH 2324

**OWNERS OF RECORD (Grantors):** Shaker Pines Fire Department

**PREMISES:** 37 Bacon Road, Map 94, Lot 62

More particularly described on a Site Plan entitled: \*

"Metro Tower, Proposed Wireless Facility, Title Sheet, Shaker Pines Fire Department, Enfield, CT, 06082", Sheet T-1, Sheet No. 1 of 4, Scale: "As Noted" by Maguire Group, Inc., dated April 15, 2002.

"Metro Tower, Proposed Wireless Facility, Location Plan, Shaker Pines Fire Department, Enfield, CT, 06082", Sheet C-1, Sheet No. 2 of 4, Scale: 1"=40', by Maguire Group, Inc., dated April 15, 2002.

"Metro Tower, Proposed Wireless Facility, Site Plan, Shaker Pines Fire Department, Enfield, CT, 06082", Sheet C-2, Sheet No. 3 of 4, Scale: 1"=10' by Maguire Group, Inc., dated April 15, 2002.

"Metro Tower, Proposed Wireless Facility, Elevations, Shaker Pines Fire Department, Enfield, CT, 06082", Sheet C-3, Sheet No. 4 of 4, Scale: "As Noted" by Maguire Group, Inc., dated April 15, 2002.

\*Revision dates subject to change with final mylar approval.

I, Karen S. Krebs, Secretary, hereby certify that on July 31, 2002, the Planning and Zoning Commission of the Town of Enfield did approve PH 2324 – Application for a Special permit to allow a Wireless Communication Facility, including a 180' high Telecommunication tower, on land located at 37 Bacon Road in an Industrial 1 District, Map 94, Lot 62. Shaker Pines Fire Department owner/applicant. This approval is subject to conformance with the referenced plans, as may be required to be modified by this motion, and the following conditions:

**Conditions to be Met Prior to Signing of Mylars:**

1. All plans submitted for signature shall require the seal and live signature of the appropriate professional(s) responsible for the preparation of the plans.
2. The conditions of this approval shall be binding on the applicant, land owners, and their successors and assigns. A copy of this approval motion shall be filed on the land records prior to the signing of the plans.
3. The Public Hearing file number "PH 2324" shall be displayed prominently on all final plan sheets either in the title block or in the area around it.
4. The Final Mylars shall include the items requested by the Assistant Town Engineer who shall review and approve the plans prior to signing.

**Conditions to be met prior to the issuance of permits:**

5. Two sets of final plans, with any required revisions incorporated on the sheets, shall be submitted for signature to the Commission.
6. This approval will become effective upon the filing of a Special Use Zoning Certificate signed by the Commission Secretary on the Land records by the owner of the property. Proof of such filing shall be in the file prior to the issuance of any permits.
7. An engineering bond for removal of the wireless telecommunications facility including the tower and base components in an amount to be determined by the Town Engineer shall be submitted to the Town. Any need to use the bond by the Town of Enfield shall be binding in the site regardless of the name of the bond obligee.
8. The applicant shall post a bond for any required Site improvements in an amount to be determined by the Town Engineer and with surety acceptable to the Town.

9. A Separate Erosion and Sediment Control passbook shall be submitted in an amount to be determined by the Town Engineer.
10. A landscaping bond, in an amount to be determined by the Planning Department shall be submitted to the Town.
11. A pre-construction meeting between the applicant, site contractors, project engineer and Town Staff shall be held.

**Conditions which must be met prior to the Issuance of a Zoning Certificate of Compliance:**

12. Complete as-built plans certified to Class A-2 accuracy shall be submitted prior to the issuance of any certificates of zoning compliance.
13. In accordance with Section 9.10.6 of the Regulations, the applicant shall also submit to the Planning Director final as built plans in a digital format prescribed by the Director.

**General Conditions:**

14. This approval is for the specific use and structures identified in the application. Any changes or additions to the site and the structures will require new approvals from the Enfield Planning and Zoning Commission in addition to any other required State approvals.
15. The wireless communication facility shall not interfere with existing or proposed public safety communications, commercial television and radio signals or other forms of communication transmissions. Any such interference shall void the approval of the facility.
16. The wireless communication facility shall comply with the standards promulgated by the federal communication commission (FCC).
17. All generators installed in conjunction with the wireless communications facility shall comply with all state and local noise regulations.
18. On or before August 31 every year, the applicant or Wireless Telecommunications Service Provider shall submit information to the Planning and Zoning Commission file for annual review in support of the following:
  - A. **Maintenance of facilities - A certified inspection report shall be filed to ensure the continuing structural integrity of the Tower and accessory structures. If the report recommends that repairs or maintenance are required, then a letter shall be submitted to the Town to verify that such repairs and/or maintenance have been completed. The Town of Enfield may require repair or removal of the Tower based on the inspection report. The Town shall have no responsibility regarding such repairs and/or maintenance. Existing non-conforming Towers shall be subject to current approval requirements if replacement is required.**
  - B. **Continued use - An affidavit of continuing use of the Wireless Communication Facility to establish renewal and continuation of the Special Use Permit.**
  - C. **Propagation Plan - A system wide plan showing a regional perspective of Wireless Communications Facilities, both existing and proposed accompanied by a narrative explanation of the service provider's strategic plan for the ensuing year.**
  - D. **Copies of all reports filed with the FCC or the Connecticut Siting Council on EMF emissions shall be filed with the Planning and Zoning Commission. Automatic revocation of any approval given under this Chapter shall result for any Wireless Communication Facility that reports EMF emissions exceeding FCC standards.**

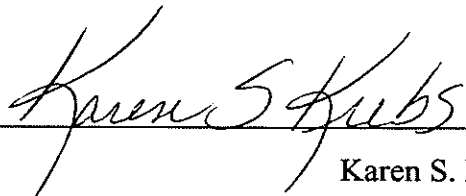
19. If the wireless communications facility is not in use for 12 consecutive months, it shall be removed within 90 days from the end of such 12 month period, including base components by the last service provider using the site or owner, whichever has a contractual obligation to perform the removal. The site shall be restored to an appearance that is compatible with the surrounding neighborhood and where appropriate, re-vegetated to blend with the surrounding area.
20. The special use permit for a commercial wireless telecommunication service shall be valid for a maximum period of 10 years (July 31, 2012) with a right of reapplication under regulations in effect at that time.
21. The applicant, and his successors and assigns shall maintain the antennae and related facilities in a manner to blend in with the tower so as to minimize any visual intrusion into the surrounding properties.
22. The approval of an application for special use permit shall be void and of no effect unless construction of the project commences within one year from the date of the approval granted by the commission, (July 31, 2002).
23. By acceptance of this permit and conditions, the applicant and owner acknowledge the right of Town staff to periodically enter upon the subject property for the purpose of determining compliance with the terms of this approval.

The reasons for approval of the use and the decision about the Site Plan, including any conditions relating to either, are part of the record of the July 31, 2002 Enfield Planning and Zoning Commission meeting

In accordance with Section 8-3c and Section 8-3d of Connecticut General Statutes as amended, the effective date of this approval shall be the date of recording of this Certificate on the land records of the Enfield Town Clerk.

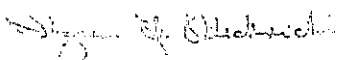
Dated at Enfield, Connecticut this 19 day of June, 2003.

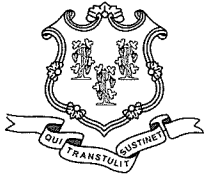
ENFIELD PLANNING AND ZONING COMMISSION

  
 Karen S. Krebs, Secretary

RECORDED IN  
ENFIELD LAND RECORDS

2003 JUL -2 PM 3: 03

  
 SUZANNE F. OLECHNICKI  
 TOWN CLERK



Daniel F. Caruso  
Chairman

# STATE OF CONNECTICUT

## CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: [siting.council@ct.gov](mailto:siting.council@ct.gov)

Internet: [ct.gov/csc](http://ct.gov/csc)

September 6, 2007

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

# 14

5416 - BEACON FALLS

1103 - ENFIELD

2214 - PROSPECT

5138 - WINDSOR

5163 - WOODBRIDGE

RE: **EM-CING-006-049-115-164-167-070730** – New Cingular Wireless PCS, LLC notice of intent to modify existing telecommunications facilities located at 60 Rice Lane, Beacon Falls; 37 Bacon Road, Enfield; 178 New Haven Road, a/k/a Kluge Road, Prospect; 340 Bloomfield Avenue, Windsor; and 50 Woodfield Road, Woodbridge, Connecticut.

Dear Mr. Levine:


At a public meeting held on August 29, 2007, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that the proposed coax lines are installed inside the pole's shaft for the Prospect tower.

The proposed modifications are to be implemented as specified here and in your notice dated July 30, 2007, including the placement of all necessary equipment and shelters within the tower compounds. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

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

Thank you for your attention and cooperation.

Very truly yours,

  
Daniel F. Caruso  
Chairman

DFC/MP/cm

- c: The Honorable Susan Ann Cable, First Selectman, Town of Beacon Falls  
Brian Herb, Zoning Enforcement Officer, Town of Beacon Falls  
The Honorable Patrick L. Tallarita, Mayor, Town of Enfield  
Jose Giner, Director of Planning and Community Development, Town of Enfield  
The Honorable Donald Trinks, Mayor, Town of Windsor  
Mario Zavarella, Town Planner, Town of Windsor  
The Honorable Edward Maum Sheehy, First Selectman, Town of Woodbridge  
Terry Gilbertson, Zoning Enforcement Officer, Town of Woodbridge  
SBA  
Shaker Pines Fire District/SAI Communications  
Michele G. Briggs, New Cingular Wireless PCS, LLC  
Christopher B. Fisher, Esq., Cuddy & Feder LLP



# EXHIBIT 7

UPS CampuSSHip: View/Print Label

1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
2. Fold the printed label at the solid line below. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. GETTING YOUR SHIPMENT TO UPS

**Customers with a Daily Pickup**  
Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

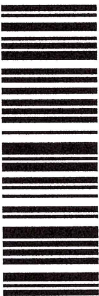
Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampuSSHip and select UPS Locations.  
Schedule a same day or future day Pickup to have a UPS driver pickup all your CampuSSHip packages.  
Hand the package to any UPS driver in your area.

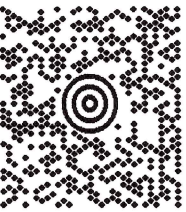
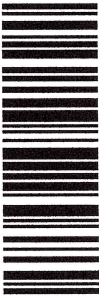
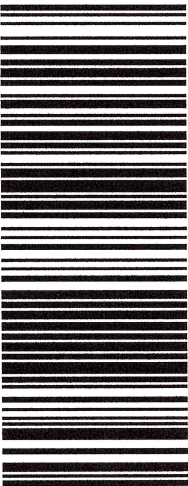

UPS Access Point™  
ADVANCE AUTO PART STORE 6538  
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LIVERPOOL, NY 13090

UPS Access Point™  
THE UPS STORE  
8417 OSWEGO RD  
BALDWINVILLE, NY 13027

UPS Access Point™  
ADVANCE AUTO PART STORE 6324  
3731 BREWERTON RD  
SYRACUSE, NY 13212

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|   |       |        |
|---|-------|--------|
| ALLISON HERBEL<br>2153687035<br>CENTERLINE COMMUNICATIONS<br>59 BAYBERRY CIRCLE<br>LIVERPOOL, NY 130902934          | 1 LBS | 1 OF 1 |
| SHIP TO:<br>RENEE MARTINSON<br>SAI GROUP<br>12 INDUSTRIAL WAY<br>SALEM NH 03079-2837                                |       |        |
|                                   |       |        |
| NH 030 0-03<br>                   |       |        |
| UPS GROUND  |       |        |
| TRACKING #: 1Z 9Y4 503 03 3395 8614   |       |        |
|                                    |       |        |
| BILLING: P/P  |       |        |
| CS 22.0.11. WNTNVS0 31.0A.07/2020  |       |        |

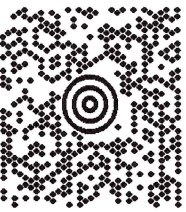
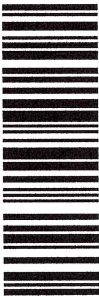
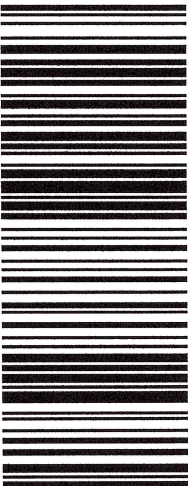

|  |       |        |
|--|-------|--------|
| ALLISON HEBEL<br>2155887035<br>CENTERLINE COMMUNICATIONS<br>59 BAYBERRY CIRCLE<br>LIVERPOOL, NY 130902934  | 1 LBS | 1 OF 1 |
| SHIP TO:<br>TELECOMMUNICATIONS<br>SHAKER PINES FIRE DEPARTMENT<br>37 BACON ROAD<br>ENFIELD CT 06082-2379   |       |        |
| <br><b>CT 060 9-01</b><br> |       |        |
| <b>UPS GROUND</b><br>TRACKING #: 1Z 9Y4 503 03 2323 9008   |       |        |
|   |       |        |
| BILLING: P/P   |       |        |
| CS 22.0.11.    WININVS0 31.OA.07/2020   |       |        |

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- UPS CampusShip: View/Print Label**
1. Ensure there are no other shipping or tracking labels attached to your package. Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
  2. Fold the printed label at the solid line below. Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
  3. GETTING YOUR SHIPMENT TO UPS  
**Customers with a Daily Pickup**  
Your driver will pickup your shipment(s) as usual.  
**Customers without a Daily Pickup**  
Take your package to any location of The UPS Store®, UPS Access Point™ location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.  
Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.  
Hand the package to any UPS driver in your area.
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|  |       |        |
|--|-------|--------|
| ALLISON HEBEL<br>2155887035<br>CENTERLINE COMMUNICATIONS<br>59 BAYBERRY CIRCLE<br>LIVERPOOL, NY 130902934  | 1 LBS | 1 OF 1 |
| SHIP TO:<br>ASSISTANT TOWN PLANNER<br>TOWN OF ENFIELD<br>JENNIFER PACACHA<br>820 ENFIELD ST.<br>ENFIELD CT 06082-2964  |       |        |
| <br><b>CT 060 9-01</b><br> |       |        |
| <b>UPS GROUND</b><br>TRACKING #: 1Z 9Y4 503 03 3711 2396   |       |        |
|   |       |        |
| BILLING: P/P   |       |        |
| CS 22.0.11. WNTNVS0 31.0A.07/2020   |       |        |

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- UPS Access Point™  
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UPS CampussShip: View/Print Label

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

3. **GETTING YOUR SHIPMENT TO UPS**

**Customers with a Daily Pickup**

Your driver will pickup your shipment(s) as usual.

**Customers without a Daily Pickup**

Take your package to any location of The UPS Store®, UPS Access Point™(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampussShip and select UPS Locations.

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampussShip packages.

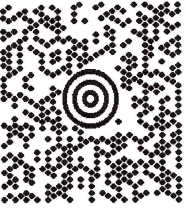
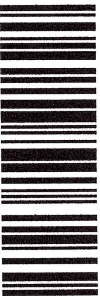
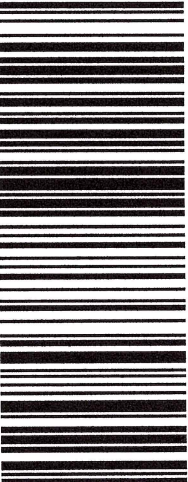

Hand the package to any UPS driver in your area.

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|  |       |        |
|--|-------|--------|
| ALLISON HEBEL<br>2155887035<br>CENTERLINE COMMUNICATIONS<br>59 BATTERY CIRCLE<br>LIVERPOOL, NY 130902934 | 1 LBS | 1 OF 1 |
| SHIP TO:<br>TOWN MANAGER<br>TOWN OF ENFIELD<br>820 ENFIELD ST.<br>ENFIELD CT 06082-2964                  |       |        |
|                        |       |        |
| CT 060 9-01  |       |        |
|                        |       |        |
| UPS GROUND   |       |        |
| TRACKING #: 1Z 9Y4 503 03 3467 8782  |       |        |
|                         |       |        |
| BILLING: P/P   |       |        |
| CS 22.0.11. WINTNVS0 31.0A.07/2020   |       |        |
|                         |       |        |