



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

VIA ELECTRONIC MAIL

July 30, 2019

Aaron Meyers
Site Acquisition
Centerline Communications, LLC
750 W. Center Street, Floor 3
West Bridgewater, MA 02379

RE: **EM-CING-054-190711** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 2577 Main Street, Glastonbury, Connecticut.

Dear Mr. Meyers:

The Connecticut Siting Council (Council) is in receipt of your correspondence of July 22, 2019 submitted in response to the Council's July 17, 2019 notification of an incomplete request for exempt modification with regard to the above-referenced matter.

The submission renders the request for exempt modification complete and the Council will process the request in accordance with the Federal Communications Commission 60-day timeframe.

Thank you for your attention and cooperation.

Sincerely,

Melanie A. Bachman
Executive Director

MAB/IN/emr

c: David Ford, Centerline Communications



Robidoux, Evan

From: David Ford <dford@clinellc.com>
Sent: Monday, July 22, 2019 9:55 AM
To: Robidoux, Evan
Cc: CSC-DL Siting Council; David Ford
Subject: RE: Council Incomplete Letter for EM-CING-054-190711-MainSt-Glastonbury
Attachments: CT5273_LTE_3C_4C_5C_4TX4RX_CD_REV1_07.19.19.pdf; em-cing-054-190711_incompleteltr_MainSt.pdf

Evan,

In regards to the memo dated 7/11/19, attached please find the revised drawings.

We'll send one hard via UPS as well.

Thanks

From: Robidoux, Evan <Evan.Robidoux@ct.gov>
Sent: Friday, July 19, 2019 9:36 AM
To: Aaron Meyers <ameyers@clinellc.com>
Cc: CSC-DL Siting Council <Siting.Council@ct.gov>
Subject: Council Incomplete Letter for EM-CING-054-190711-MainSt-Glastonbury

Please see the attached correspondence.

Evan Robidoux
Clerk Typist
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

E-Mail: siting.council@ct.gov

www.ct.gov/csc

July 17, 2019

Aaron Meyers
Site Acquisition
Centerline Communications, LLC
750 W. Center Street, Floor 3
West Bridgewater, MA 02379

RE: **EM-CING-054-190711** – New Cingular Wireless PCS, LLC (AT&T) notice of intent to modify an existing telecommunications facility located at 2577 Main Street, Glastonbury, Connecticut.

Dear Mr. Meyers:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on July 11, 2015.

According to Section 16-50j-71 of the Regulations of Connecticut State Agencies, "...any modification, as defined in Section 16-50j-2a of the Regulations of Connecticut State Agencies, to an existing tower site, except as specified in Sections 16-50j-72 and 16-50j-88 of the Regulations of Connecticut State Agencies, may have a substantial adverse environmental effect."

Staff has reviewed this exempt modification request for completeness and has identified a deficiency in the Construction Drawings (CD) prepared by Hudson Design Group and last revised May 21, 2019. A structural note on sheet A-1 of the CD references a Mount Analysis dated June 20, 2019 (Rev. 1). This is inconsistent with the Mount Analysis provided with the Submittal which is dated April 17, 2019.

Therefore, the exempt modification request is incomplete at this time. The Council recommends that Centerline Communications provide the Mount Analysis referenced above and if applicable an updated Structural Analysis Report that accounts for the proposed mount modifications, on or before August 16, 2019. If additional time is needed to gather the requested information, please submit a written request for an extension of time prior to August 16, 2019. **Please provide an electronic version and one hard copy of the response for the incomplete request to be rendered complete and processed.**

This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Sincerely,

Melanie Bachman
Executive Director

MAB/IN/emr

c: The Honorable Thomas P. Gullotta, Chairman, Town of Glastonbury
Richard J. Johnson, Town Manager, Town of Glastonbury
Khara Dodds, Director of Planning and Land Use Services, Town of Glastonbury



PROJECT INFORMATION

SCOPE OF WORK: **ITEMS TO BE MOUNTED ON EXISTING LATTICE TOWER:**

- NEW AT&T ANTENNAS (HPA65R-BU6A) @ POS. 3 (TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2).
- NEW AT&T ANTENNAS (800-10965) @ POS. 4 (TYP. OF 1 PER ALPHA & GAMMA SECTORS, TOTAL OF 2).
- NEW AT&T ANTENNAS (HPA65R-BU8A) @ POS. 3 (TOTAL OF 1 FOR BETA SECTOR).
- NEW AT&T ANTENNAS (800-10966) @ POS. 4 (TOTAL OF 1 FOR BETA SECTOR).
- NEW AT&T RRUS B5/B12 4449 (700/850) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS B2/B66A 8843 (AWS/1900) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T RRUS 32 (WCS) (TYP. OF 1 PER SECTOR, TOTAL OF 3).
- NEW AT&T SURGE ARRESTOR (DC6-48-60-18-8C) (TOTAL OF 2).
- INSTALL (4) DC POWER CABLES & (1) FIBER RUN (TO FOLLOW EXISTING ROUTE).

ITEMS TO BE MOUNTED AT EQUIPMENT LOCATION:

- REMOVE EXISTING DC6 & INSTALL (1) OUTDOOR DC12.
- INSTALL (24) TELCO FLEX IN PROPOSED CONDUITS TO BE RUN BETWEEN DC12 AND EXISTING POWER PLANT, RE-CABLE EXISTING EQUIPMENT TO PROPOSED DC12.
- INSTALL (1) FIBER BOX.
- SWITCH BASEBAND TO 5216.
- ADD 2ND XMU.
- ADD 6630 BASEBAND.
- FOLLOW SEC7 OR PD FOR BASEBAND CONFIGURATION.

ITEMS TO REMAIN:

- (6) ANTENNAS, (6) TMA'S, (1) SURGE ARRESTOR, (12) 1-5/8" COAX, (2) DC POWER & (1) FIBER.

SITE ADDRESS: 2577 MAIN STREET
GLASTONBURY, CT 06033

LATITUDE: 41.714191 N, 41° 42' 51.09" N

LONGITUDE: 72.613298 W, 72° 36' 47.87" W

TYPE OF SITE: LATTICE TOWER / OUTDOOR EQUIPMENT

STRUCTURE HEIGHT: 130'-0"±

RAD CENTER: 110'-0"±

CURRENT USE: TELECOMMUNICATIONS FACILITY

PROPOSED USE: TELECOMMUNICATIONS FACILITY



SITE NUMBER: CT5273

SITE NAME: GLASTONBURY NW

FA CODE: 10071041

PACE ID: MRCTB033594, MRCTB033648, MRCTB033736, MRCTB033797

PROJECT: LTE 3C_4C_5C_4TX4RX 2019 UPGRADE

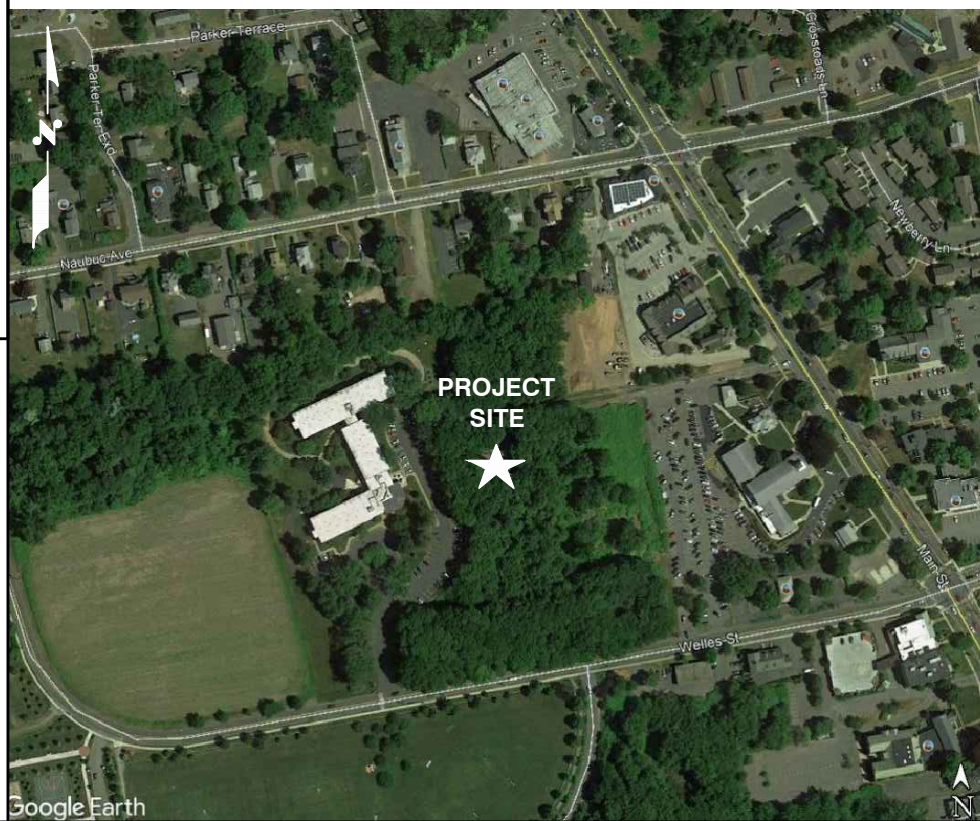
VICINITY MAP

GENERAL NOTES

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

DIRECTIONS TO SITE:

HEAD NORTHEAST ON ENTERPRISE DR TOWARD CAPITAL BLVD, TURN LEFT ONTO CAPITAL BLVD, TURN LEFT ONTO WEST ST, TURN LEFT TO MERGE ONTO I-91 N TOWARD HARTFORD, MERGE ONTO CT-3 N via EXIT 25 TOWARD GLASTONBURY, TAKE THE EXIT TOWARD MAIN ST/GLASTONBURY, TURN LEFT ONTO GLASTONBURY BLVD, TURN RIGHT ONTO MAIN ST, 2577 MAIN ST IS ON THE RIGHT



1. THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF AT&T. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. DUPLICATION AND USE BY GOVERNMENT AGENCIES FOR THE PURPOSES OF CONDUCTING THEIR LAWFULLY AUTHORIZED REGULATORY AND ADMINISTRATIVE FUNCTIONS IS SPECIFICALLY ALLOWED.
2. THE FACILITY IS AN UNMANNED PRIVATE AND SECURED EQUIPMENT INSTALLATION. IT IS ONLY ACCESSED BY TRAINED TECHNICIANS FOR PERIODIC ROUTINE MAINTENANCE AND THEREFORE DOES NOT REQUIRE ANY WATER OR SANITARY SEWER SERVICE. THE FACILITY IS NOT GOVERNED BY REGULATIONS REQUIRING PUBLIC ACCESS PER ADA REQUIREMENTS.
3. CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE AT&T MOBILITY REPRESENTATIVE IN WRITING OF DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.
4. CONSTRUCTION DRAWINGS ARE VALID FOR SIX MONTHS AFTER ENGINEER OF RECORD'S STAMPED AND SIGNED SUBMITTAL DATE LISTED HEREIN.

72 HOURS

CALL BEFORE YOU DIG

CALL TOLL FREE 1-800-922-4455
OR CALL 811

UNDERGROUND SERVICE ALERT

SBA SITE #: CT46126

HGD HUDSON Design Group LLC

45 BEECHWOOD DRIVE
NORTH ANDOVER, MA 01845

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

CENTERLINE COMMUNICATIONS

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

SITE NUMBER: CT5273
SITE NAME: GLASTONBURY NW
SBA SITE #: CT46126

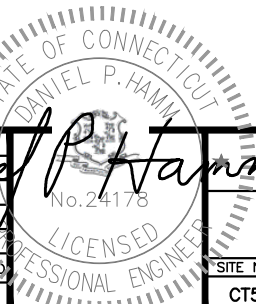
2577 MAIN STREET
GLASTONBURY, CT 06033
HARTFORD COUNTY

at&t

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

| NO. | DATE | REVISIONS | BY | CHK | APP'D |
|-----|----------|-------------------------|----|-----|-------|
| 1 | 07/19/19 | ISSUED FOR CONSTRUCTION | AM | AT | DPH |
| A | 04/01/19 | ISSUED FOR REVIEW | AM | AT | BJC |

SCALE: AS SHOWN DESIGNED BY: AT DRAWN BY: AM



AT&T

TITLE SHEET
(LTE 3C_4C_5C_4TX4RX)

| | | |
|-------------|----------------|-----|
| SITE NUMBER | DRAWING NUMBER | REV |
| CT5273 | T-1 | 1 |

GROUNDING NOTES

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHJ), THE SITE-SPECIFIC (UL, LPI, OR NFPA) LIGHTNING 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) 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 #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 2015 WITH 2018 CT STATE BUILDING CODE AMENDMENTS
 ELECTRICAL CODE: 2017 NATIONAL ELECTRICAL CODE (NFPA 70-2017)

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

AMERICAN CONCRETE INSTITUTE (ACI) 318; BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE;

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

TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARDS FOR STEEL

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

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

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

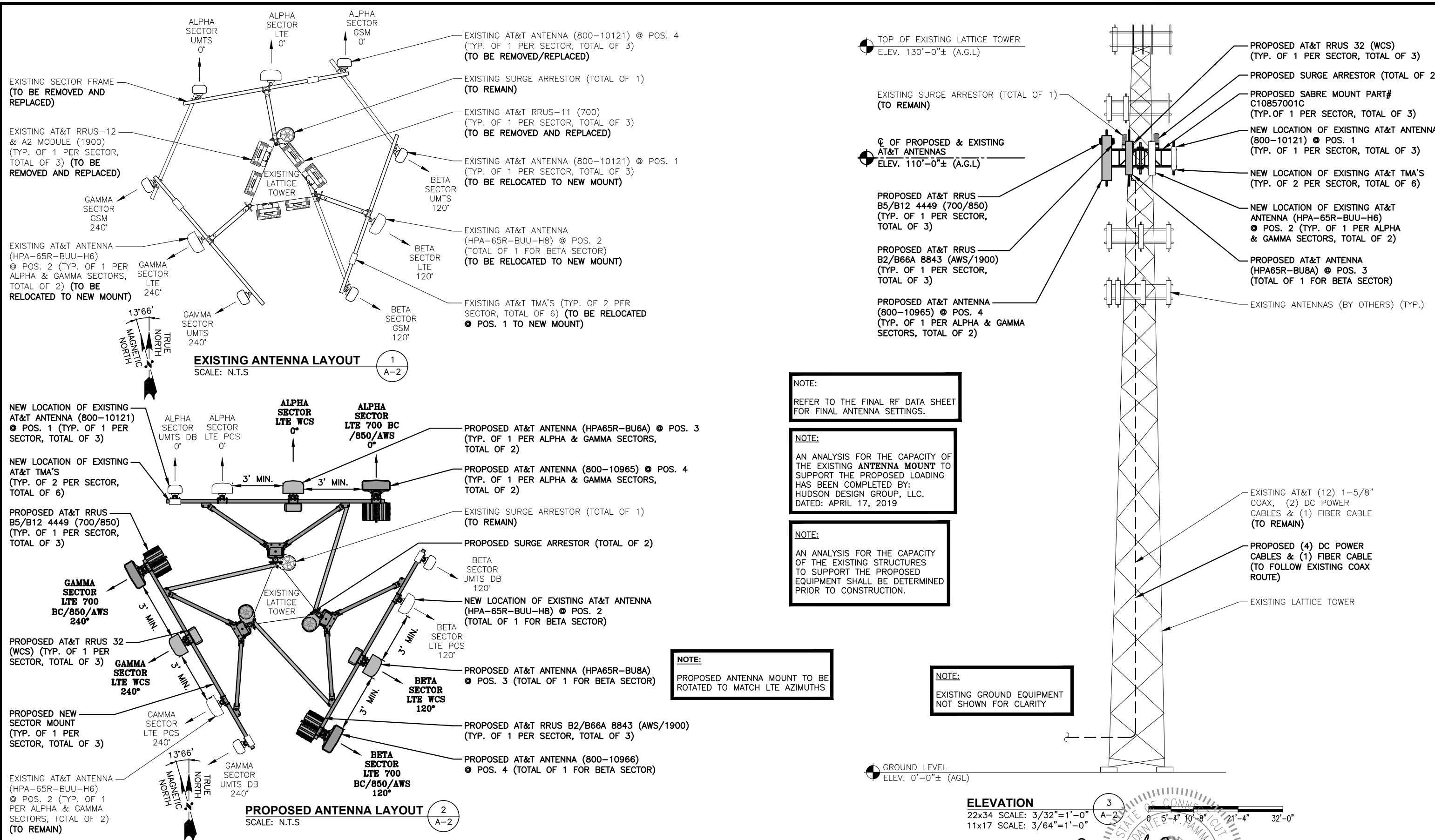
750 WEST CENTER STREET., SUITE #301
WEST BRIDGEWATER, MA 02379

SITE NUMBER: CT5273
 SITE NAME: GLASTONBURY NW
 SBA SITE #: CT46126
 2577 MAIN STREET
 GLASTONBURY, CT 06033
 HARTFORD COUNTY

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

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| 1 | 07/19/19 | ISSUED FOR CONSTRUCTION | AM | AT | DPH |
| A | 04/01/19 | ISSUED FOR REVIEW | AM | AT | BJC |
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| SCALE: AS SHOWN | | DESIGNED BY: AT | DRAWN BY: AM | | |

AT&T
 GENERAL NOTES
 (LTE 3C_4C_5C_4TX4RX)
 SITE NUMBER: CT5273
 DRAWING NUMBER: GN-1
 REV: 1



HGD HUDSON Design Group LLC
 45 BEECHWOOD DRIVE
 NORTH ANDOVER, MA 01845
 TEL: (978) 557-5553
 FAX: (978) 336-5586

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

SITE NUMBER: CT5273
SITE NAME: GLASTONBURY NW
SBA SITE #: CT46126
 2577 MAIN STREET
 GLASTONBURY, CT 06033
 HARTFORD COUNTY

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

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| 1 | 07/19/19 | ISSUED FOR CONSTRUCTION | AM | AT | DPH |
| A | 04/01/19 | ISSUED FOR REVIEW | AM | AT | BJC |
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| SCALE: AS SHOWN | | DESIGNED BY: AT | DRAWN BY: AM | | |

AT&T
ANTENNA LAYOUTS & ELEVATION
(LTE 3C_4C_5C_4TX4RX)
 SITE NUMBER: CT5273
 DRAWING NUMBER: A-2
 REV: 1

NOTE:

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

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: APRIL 17, 2019

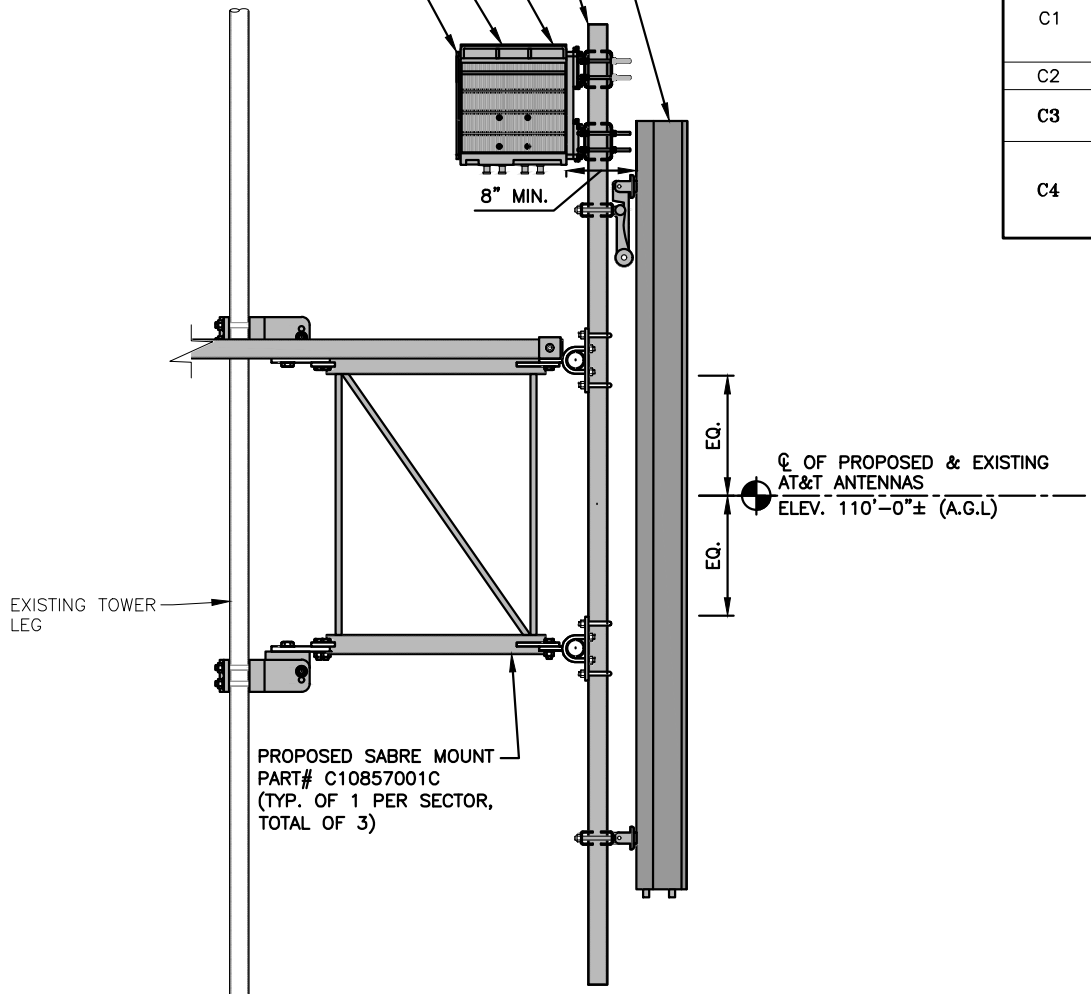
PROPOSED AT&T ANTENNA (800-10966)
 ● POS. 4 (TOTAL OF 1 FOR BETA SECTOR)

INSTALL NEW 2-1/2" STD. (2.88" O.D.) (10' LONG) PIPE MAST ● POS. 3 & POS. 4 BEHIND NEW ANTENNAS, SECURE TO THE EXISTING MOUNT (TYP. OF 2 PER SECTOR, TOTAL OF 6)

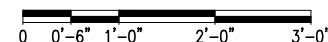
PROPOSED AT&T RRUS B2/B66A 8843 (AWS/1900) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED AT&T RRUS B5/B12 4449 (700/850) (TYP. OF 1 PER SECTOR, TOTAL OF 3)

PROPOSED RRU BACK TO BACK TO BACK MOUNT BRACKET PART# SXX1250461/1 (OR APPROVAL EQUAL)



PROPOSED ANTENNA & RRU MOUNTING DETAIL
 22x34 SCALE: 1"=1'-0"
 11x17 SCALE: 1/2"=1'-0"



| ANTENNA SCHEDULE | | | | | | | | | | | |
|------------------|-------------------|--------------------|----------------|---------------------------|-------------------|---------|-----------------------------------------------------------|----------------------------------------------------------------|----------------------------------|--------------------------------|-------------------------------|
| SECTOR | EXISTING/PROPOSED | BAND | ANTENNA | SIZE (INCHES) (L x W x D) | ANTENNA CL HEIGHT | AZIMUTH | TMA/DIPLEXER | RRU | SIZE (INCHES) (L x W x D) | FEEDER | RAYCAP |
| A1 | EXISTING | UMTS DB | 800-10121 | 54.5X10.3X5.9 | 110'± | 0° | (E)(2) POWERWAVE LGP21401 (E)(2)(G) POWERWAVE LGP21901 | - | - | (2) 1-5/8" COAX (LENGTH 160'±) | (E)(1) RAYCAP DC6-48-60-18-8C |
| A2 | EXISTING | LTE PCS | HPA-65R-BUU-H6 | 72X14.8X9 | 110'± | 0° | - | - | - | - | |
| A3 | PROPOSED | LTE WCS | HPA65R-BU6A | 71.2X11.7X8.4 | 110'± | 0° | (E)(2)(G) POWERWAVE LGP21901 | (P)(1) RRUS-32 (WCS) | 27.2X12.1X7.0 | (2) 1-5/8" COAX (LENGTH 160'±) | |
| A4 | PROPOSED | LTE 700 BC/850/AWS | 800-10965 | 78.7X20X6.9 | 110'± | 0° | - | (P)(1) B5/B12 4449 (700/850) (P)(1) B2/B66A 8843 (1900/AWS) | 14.9X13.2X10.4 14.9X13.2X10.9 | - | |
| B1 | EXISTING | UMTS DB | 800-10121 | 54.5X10.3X5.9 | 110'± | 120° | (E)(2) POWERWAVE LGP21401 (E)(2)(G) POWERWAVE LGP21901 | - | - | (2) 1-5/8" COAX (LENGTH 160'±) | (P)(1) RAYCAP DC6-48-60-18-8C |
| B2 | EXISTING | LTE PCS | HPA-65R-BUU-H8 | 92.4X14.8X7.4 | 110'± | 120° | - | - | - | - | |
| B3 | PROPOSED | LTE WCS | HPA65R-BU8A | 96X11.7X7.6 | 110'± | 120° | (E)(2)(G) POWERWAVE LGP21901 | (P)(1) RRUS-32 (WCS) | 27.2X12.1X7.0 | (2) 1-5/8" COAX (LENGTH 160'±) | |
| B4 | PROPOSED | LTE 700 BC/850/AWS | 800-10966 | 90X20X6.9 | 110'± | 120° | - | (P)(1) B5/B12 4449 (700/850) (P)(1) B2/B66A 8843 (1900/AWS) | 14.9X13.2X10.4 14.9X13.2X10.9 | - | |
| C1 | EXISTING | UMTS DB | 800-10121 | 54.5X10.3X5.9 | 110'± | 240° | (E)(2) POWERWAVE LGP21401 (E)(2)(G) POWERWAVE LGP21901 | - | - | (2) 1-5/8" COAX (LENGTH 160'±) | (P)(1) RAYCAP DC6-48-60-18-8C |
| C2 | EXISTING | LTE PCS | HPA-65R-BUU-H6 | 72X14.8X9 | 110'± | 240° | - | - | - | - | |
| C3 | PROPOSED | LTE WCS | HPA65R-BU6A | 71.2X11.7X8.4 | 110'± | 240° | (E)(2)(G) POWERWAVE LGP21901 | (P)(1) RRUS-32 (WCS) | 27.2X12.1X7.0 | (2) 1-5/8" COAX (LENGTH 160'±) | |
| C4 | PROPOSED | LTE 700 BC/850/AWS | 800-10965 | 78.7X20X6.9 | 110'± | 240° | - | (P)(1) B5/B12 4449 (700/850) (P)(1) B2/B66A 8843 (1900/AWS) | 14.9X13.2X10.4 14.9X13.2X10.9 | - | |

| RRU CHART | | | | |
|-----------|-------------------------|-------|-------|-------|
| QUANTITY | MODEL | L | W | D |
| 3(P) | RRUS-32 (WCS) | 27.2" | 12.1" | 7.0" |
| 3(P) | B5/B12 4449 (700/850) | 14.9" | 13.2" | 10.4" |
| 3(P) | B2/B66A 8843 (1900/AWS) | 14.9" | 13.2" | 10.9" |

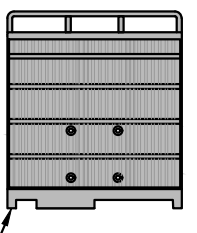
NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS

NOTE:
SEE RFDS FOR RRU FREQUENCY AND MODEL NUMBER

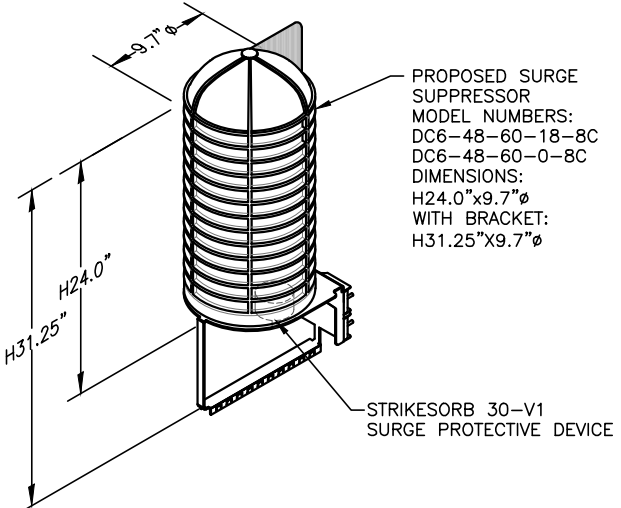
PROPOSED RRU REFER TO THE FINAL RFDS AND CHART FOR QUANTITY, MODEL AND DIMENSIONS

NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

PROPOSED RRU DETAIL
 SCALE: N.T.S.



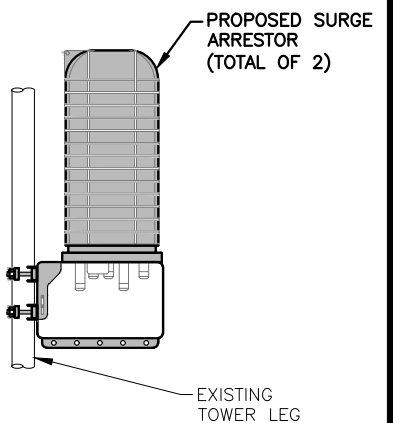
FINAL ANTENNA SCHEDULE
 SCALE: N.T.S.



NOTE:
MOUNT PER MANUFACTURER'S SPECIFICATIONS.

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

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



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

HGD HUDSON Design Group LLC
 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845
 TEL: (978) 557-5553 FAX: (978) 336-5586

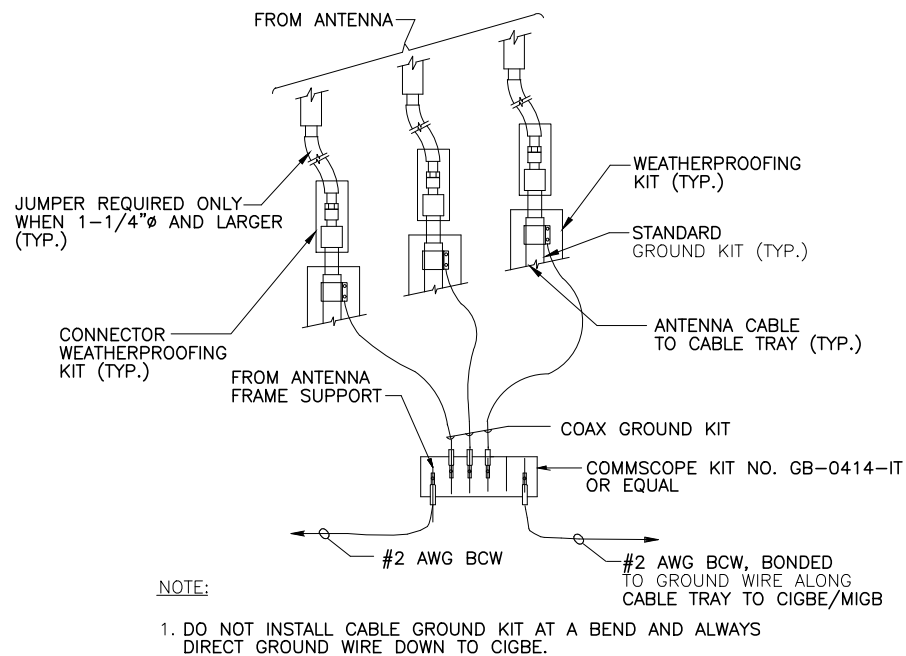
CENTERLINE COMMUNICATIONS
 750 WEST CENTER STREET., SUITE #301 WEST BRIDGEWATER, MA 02379

SITE NUMBER: CT5273
 SITE NAME: GLASTONBURY NW
 SBA SITE #: CT46126
 2577 MAIN STREET GLASTONBURY, CT 06033 HARTFORD COUNTY

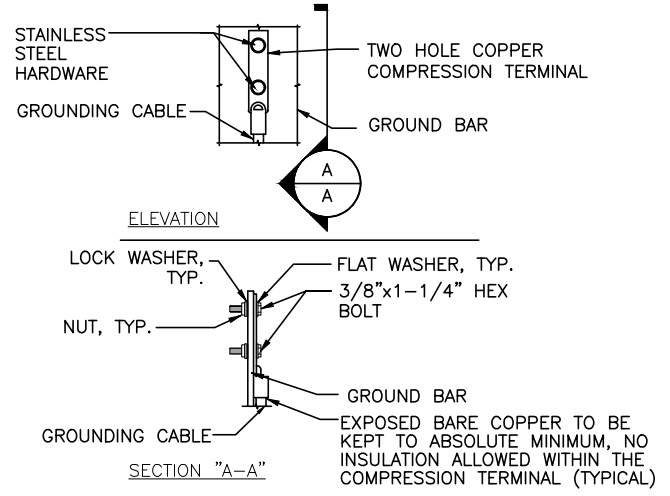
at&t
 500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067

REVISIONS
 1 07/19/19 ISSUED FOR CONSTRUCTION AM AT DPH
 A 04/01/19 ISSUED FOR REVIEW AM AT DJC
 NO. DATE REVISIONS BY CHK APP'D

AT&T
 DETAILS (LTE 3C_4C_5C_4TX4RX)
 SITE NUMBER: CT5273 DRAWING NUMBER: A-5 REV: 1

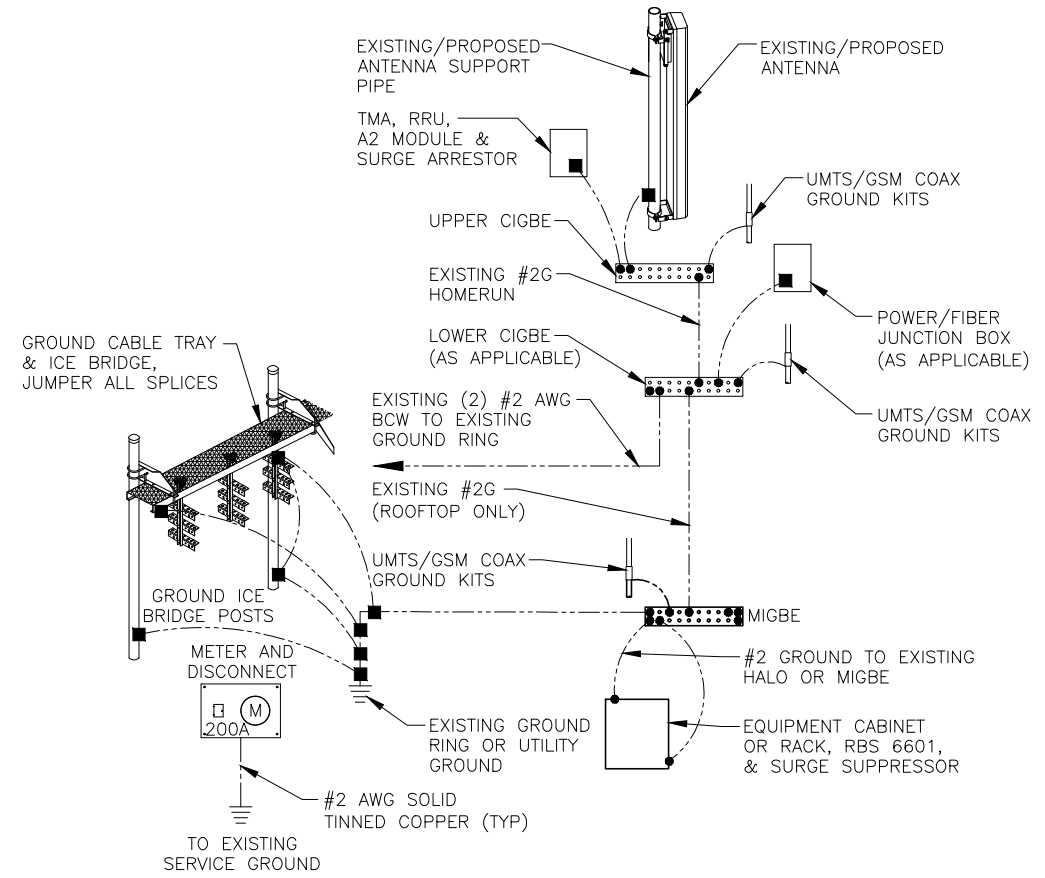


GROUND WIRE TO GROUND BAR CONNECTION DETAIL 1
SCALE: N.T.S. G-1



- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATION.
 - CADWELDED DOWNLEADS FROM UPPER EGB, LOWER EGB, AND MGB

TYPICAL GROUND BAR CONNECTION DETAIL 3
SCALE: N.T.S. G-1



GROUNDING RISER DIAGRAM 2
SCALE: N.T.S. G-1

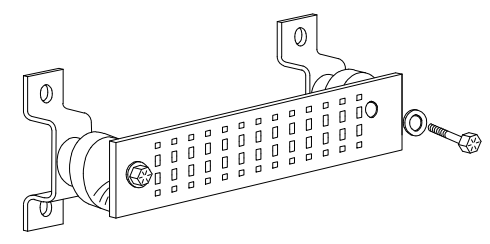
EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR SHALL HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS ORIGIN AND DESTINATION.

SECTION "P" - SURGE PRODUCERS

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

SECTION "A" - SURGE ABSORBERS

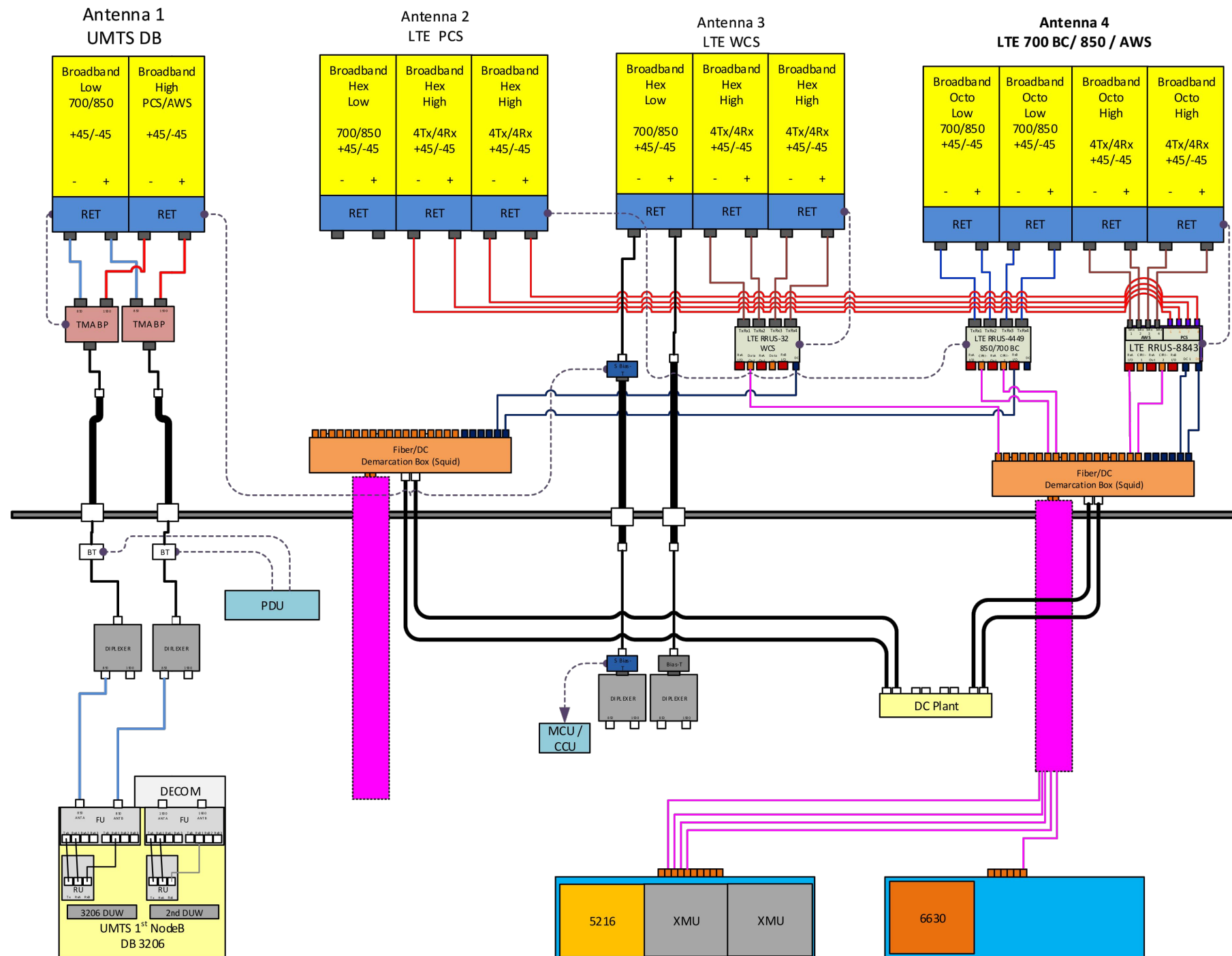
- INTERIOR GROUND RING (#2 AWG)
- EXTERNAL EARTH GROUND FIELD (BURIED GROUND RING) (#2 AWG)
- METALLIC COLD WATER PIPE (IF AVAILABLE) (#2 AWG)
- BUILDING STEEL (IF AVAILABLE) (#2 AWG)



GROUND BAR - DETAIL 4
SCALE: N.T.S. G-1

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| 1 | 07/19/19 | ISSUED FOR CONSTRUCTION | AM | AT | DPH |
| A | 04/01/19 | ISSUED FOR REVIEW | AM | AT | BJC |
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| SCALE: AS SHOWN | | DESIGNED BY: AT | DRAWN BY: AM | | |





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.

| | | | | | |
|-----------------|----------|-------------------------|--------------|-----|-------|
| 1 | 07/19/19 | ISSUED FOR CONSTRUCTION | AM | AT | DPH |
| A | 04/01/19 | ISSUED FOR REVIEW | AM | AT | DJC |
| NO. | DATE | REVISIONS | BY | CHK | APP'D |
| SCALE: AS SHOWN | | DESIGNED BY: AT | DRAWN BY: AM | | |

| | | |
|----------------------------------------------|----------------|-----|
| AT&T | | |
| RF PLUMBING DIAGRAM (LTE 3C_4C_5C_4TX4RX) | | |
| SITE NUMBER | DRAWING NUMBER | REV |
| CT5273 | RF-1 | 1 |