



August 27, 2015

Members of the Siting Council
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification
1111 E. Putnam Avenue, Greenwich CT 06878
Longitude: -72.716205
Latitude: 41.267245
T-Mobile Site#: CT11005D_L700

Members of the Siting Council:

On behalf of T-Mobile, Northeast Site Solutions (NSS) is submitting an exempt modification application to the Connecticut Siting Council for modification of existing equipment at a rooftop facility located at 1111 E. Putnam Avenue, Greenwich, CT 06878.

The 1111 E. Putnam Avenue, Greenwich, CT 06878 facility consists of a 39'-6" Building owned and operated by Fountainhead Properties, LLC. In order to accommodate technological changes and enhance system performance in the State of Connecticut, T-Mobile plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

As part of T-Mobile's L700 Project, T-Mobile desires to upgrade their equipment to meet the new standards of 4G technology. The new equipment will allow customers to download files and browse the internet at a high rate of speed while also allowing their phones to be compatible with the latest 4G technology.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in T-Mobile's operations at the site along with the required fee of \$625.



NSS **NORTHEAST**
SITE SOLUTIONS

Turnkey Wireless Development

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The overall height of the structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. The changes in radio frequency power density will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Northeast Site Solutions (NSS) on behalf of T-Mobile, respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at 860.209.4690 with any questions you may have concerning this matter.

Sincerely,

Denise Sabo

Mobile: 860-209-4690

Fax: 413-521-0558

Office: 199 Brickyard Rd, Farmington, CT 06032

Email: denise@northeastsitesolutions.com

cc: Fountainhead Properties, LLC
Town of Greenwich



T-MOBILE USA, INC.
12920 SE 38TH STREET
BELLEVUE, WA 98006
(425) 378-4000

3158734
7/31/2015
2000011160

Invoice Number	Inv. Date	Description	Deductions	Voucher	Amount Paid
CKKMB00426	7/27/2015	SR CT11005D SITING COUNCIL	0.00	1101368536	625.00

DO NOT ACCEPT THIS CHECK UNLESS THE FACE FADES FROM BLACK TO RED WITH LOGO IN BACKGROUND. THE BACK OF THIS DOCUMENT HAS HEAT-SENSITIVE INK THAT CHANGES FROM ORANGE TO YELLOW. ©2015 BANK OF AMERICA, N.A. ALL RIGHTS RESERVED. COPY/SCAN CAPTURE/ANTI-FRAUD PROTECTION



T-MOBILE USA, INC.
12920 SE 38th Street
Bellevue, WA 98006
(425) 378-4000

The Bank of New York Mellon
Pittsburgh, PA
60-160/433

3158734
7/31/2015
VID 2000011160

PAY \$ **625.00**
SIX TWO FIVE DOLLARS AND 00 CENTS

***\$625.00**

Six Hundred Twenty Five Dollars Only**

To
The
Order
Of

CONNECTICUT SITING COUNCIL
10 FRANKLIN SQ
NEW BRITAIN, CT 06051

VOID AFTER 180 DAYS
THIS CHECK CLEARS THROUGH POSITIVE PAY

David [Signature]

⑈0003158734⑈ ⑆043301601⑆ 013⑈8430⑈

Exhibit A



T-MOBILE NORTHEAST LLC

SITE #: CT11005D

SITE NAME: GREENWICH/ ROUTE 1

SITE ADDRESS:

1111 E PUTNAM AVENUE

GREENWICH, CT 06878

WIRELESS BROADBAND FACILITY

CONSTRUCTION DRAWINGS

(702CU CONFIGURATION)



T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 692-7100
FAX: (860) 692-7159



1340 Centre Street, Suite 212
Newton Center, MA 02459
Office: 617-965-0789
Fax: 617-213-5056

SUBMITTALS

DATE	DESCRIPTION	REVISION
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DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: CT11005D
DRAWN BY: MS
CHECKED BY: SM

VICINITY MAP



GENERAL NOTES

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONSTRUCT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T-MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFETY REGULATIONS.
14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE T-MOBILE REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., ON THE JOB.
16. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.
17. REFER TO STRUCTURAL ANALYSIS DOCUMENT ENTITLED, "STRUCTURAL ANALYSIS REPORT WATER TOWER" PREPARED BY ATLANTIS GROUP, INC., "T-MOBILE SITE ID CT11005D", DATED FEBRUARY, 2014.

SITE INFORMATION

SITE NUMBER: CT11005D
SITE NAME: GREENWICH/ ROUTE 1
SITE ADDRESS: 1111 E PUTNAM AVENUE GREENWICH, CT 06878

LAT./LONG.: N 41.041207 / W -73.58346
JURISDICTION: FAIRFIELD COUNTY
PROPERTY OWNER: FOUNTAINHEAD PROPERTIES, LLC
C/O SUMMIT INDUSTRIAL COMPANY
600 3RD AVE., 22ND FLOOR
NEW YORK, NY 10016
C/O ALLIED PROPERTY MANAGEMENT, LLC
116 MASON ST.
GREENWICH, CT 06830
PAMELA@ALLIEDPROPERTYGP.COM

PROJECT SUB-CONTRACTORS

APPLICANT: T-MOBILE NORTHEAST, LLC.
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
(860) 692-7100

PROJECT MANAGER: LISA LIN ALLEN
NORTHEAST SITE SOLUTIONS
54 MAIN STREET
STURBRIDGE, MA 01566
(508) 434-5237

ARCHITECT/ENGINEER: ATLANTIS GROUP INC.
1340 CENTRE STREET SUITE 212
NEWTON CENTER, MA 02459
(617) 965-0789

CODE COMPLIANCE

CONNECTICUT STATE BUILDING CODE
2005 CONNECTICUT BUILDING CODE WITH 2013 AMENDMENT
2011 NATIONAL ELECTRICAL CODE
CONSTRUCTION TYPE: 2B USE GROUP: N/A

SHEET INDEX

SHEET	DESCRIPTION
T-1	TITLE SHEET
N-1	GENERAL AND ELECTRICAL NOTES
A-1	ROOF PLAN
A-2	ELEVATION
A-3	DETAILS
E-1	GROUNDING DIAGRAM
E-2	GROUNDING DETAILS

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.



CALL BEFORE YOU DIG:

WWW.CBYD.COM

CALL 800 922 4455, OR 811

CALL THREE WORKING DAYS PRIOR TO DIGGING

SAFETY PRECAUTIONS SHALL BE IMPLEMENTED BY CONTRACTOR(S) AT ALL TRENCHING IN ACCORDANCE WITH CURRENT OSHA STANDARDS.

COLOR CODE FOR UTILITY LOCATIONS

- | | | |
|-------------------|-----------------------------|--|
| ELECTRIC - RED | SEWER - GREEN | |
| GAS/OIL - YELLOW | SURVEY - PINK | |
| TEL/CATV - ORANGE | PROPOSED EXCAVATION - WHITE | |
| WATER - BLUE | RECLAIMED WATER - PURPLE | |

PROFESSIONAL SEAL

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.

SITE NAME
CT11005D
SITE NAME

GREENWICH/ ROUTE 1
SITE ADDRESS
1111 E PUTNAM AVENUE
GREENWICH, CT 06878

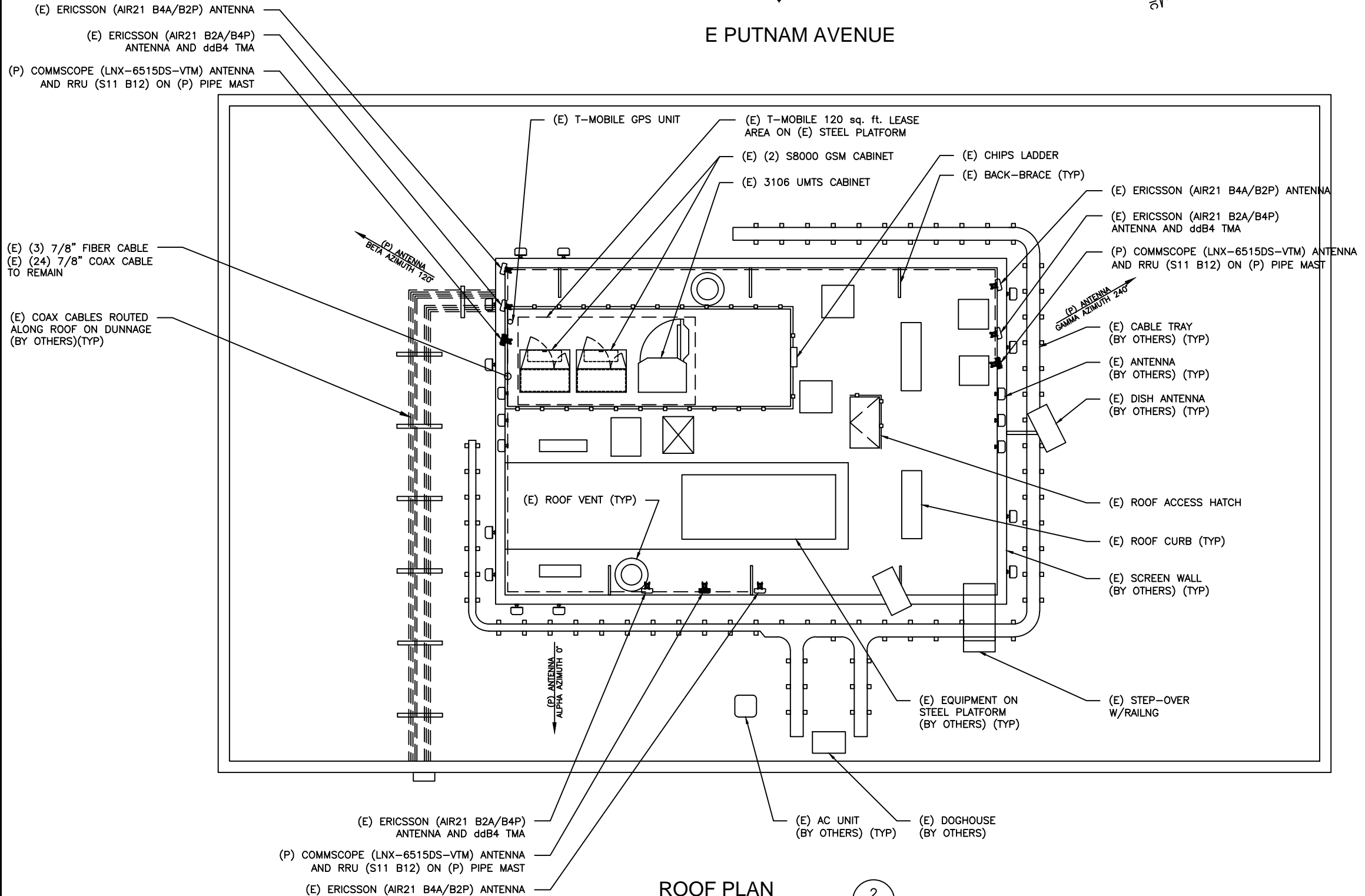
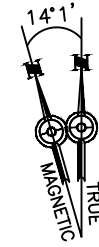
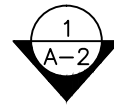
SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

E PUTNAM AVENUE



ROOF PLAN

SCALE: 1" = 10'-0" (11x17)
1" = 5'-0" (24x36)



GENERAL SITE NOTES

1. SITE INFORMATION WAS OBTAINED FROM A FIELD INVESTIGATION PERFORMED BY ATLANTIS GROUP, INC. CONTRACTOR TO FIELD VERIFY DIMENSIONS AS NECESSARY BEFORE CONSTRUCTION.
2. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE SIGNS OF ADVERTISING.
3. THE PROPOSED DEVELOPMENT IS UNMANNED AND THEREFORE DOES NOT REQUIRE A MEANS OF WATER SUPPLY OR SEWAGE DISPOSAL.
4. NO LANDSCAPING WORK IS PROPOSED IN CONJUNCTION WITH THIS DEVELOPMENT OTHER THAN THAT WHICH IS SHOWN.
5. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
6. UTILITIES SHOWN ON PLAN ARE TAKEN FROM OWNERS RECORDS AND FIELD LOCATION OF VISIBLE SURFACE FEATURES. THE EXISTENCE, EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST CONTACT CALL BEFORE YOU DIG THREE WORKING DAYS PRIOR TO COMMENCING WORK.
7. ALL OBSOLETE OR UNUSED FACILITIES SHALL BE REMOVED WITHIN 12 MONTHS OF CESSATION OF OPERATIONS.

SITE LEGEND

- SITE PROPERTY LINE
- STREET OR ROAD
- x-x- CHAIN LINK FENCE
- OPAQUE WOODEN FENCE
- BOARD ON BOARD FENCE
- DECIDUOUS TREES/SHRUBS
- EVERGREEN TREES/SHRUBS
- TREE LINE
- ⊗ UTILITY POLE
- (E) EXISTING
- (N) NEW
- (P) PROPOSED
- (F) FUTURE
- PROP. LTE ANTENNA
- PROP. UMTS/GSM ANTENNA
- EX. GSM ANTENNA
- EX. UMTS ANTENNA

T-Mobile
T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 692-7100
FAX: (860) 692-7159

ATLANTIS GROUP
1340 Centre Street, Suite 212
Newton Center, MA 02459
Office: 617-965-0789
Fax: 617-213-5056

SUBMITTALS		
DATE	DESCRIPTION	REVISION
02/16/15	ISSUED FOR REVIEW	A
02/17/15	REVISED PER COMMENTS	0
04/06/15	REVISED PER COMMENTS	1
04/15/15	REVISED PER COMMENTS	2
07/27/15	NOTE ADDED	3
08/15/15	CORRECT ELEVATION	3
08/18/15	CORRECTED ELEVATION	4

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: CT11005D
DRAWN BY: MS
CHECKED BY: SM

PROFESSIONAL SEAL

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SITE NAME
CT11005D
SITE NAME
GREENWICH/ ROUTE 1
SITE ADDRESS
1111 E PUTNAM AVENUE
GREENWICH, CT 06878

SHEET TITLE
PLOT PLAN,
SITE PLAN
AND
ELEVATION

SHEET NUMBER
A-1



T-MOBILE NORTHEAST, LLC
 35 GRIFFIN ROAD SOUTH
 BLOOMFIELD, CT 06002
 OFFICE: (860) 692-7100
 FAX: (860) 692-7159



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RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: CT11005D
 DRAWN BY: MS
 CHECKED BY: SM

PROFESSIONAL SEAL

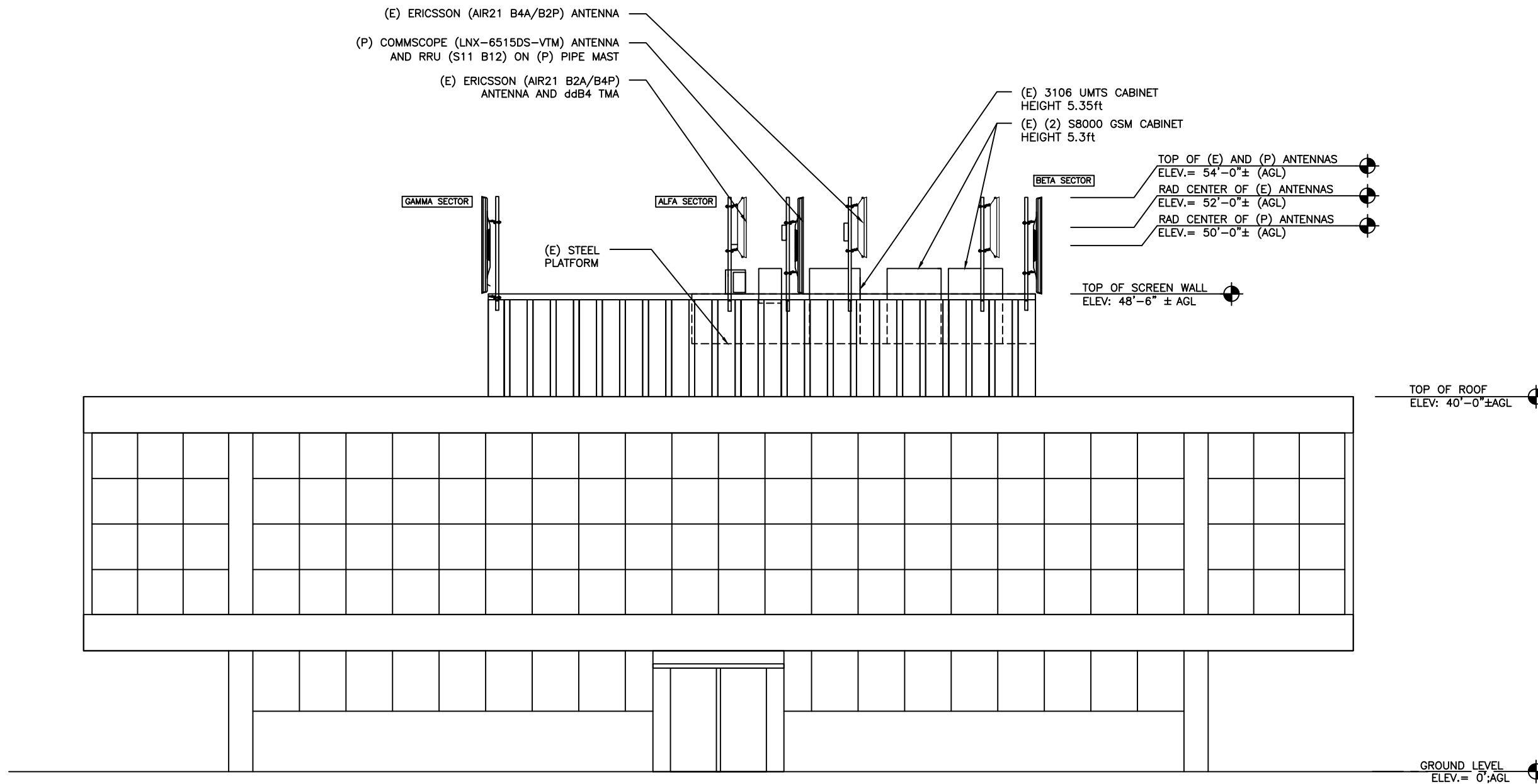
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CT11005D
 SITE NAME
 GREENWICH/ ROUTE 1
 SITE ADDRESS
 1111 E PUTNAM AVENUE
 GREENWICH, CT 06878

SHEET TITLE
ELEVATION VIEW

SHEET NUMBER

A-2



ELEVATION VIEW

SCALE: 1" = 10'-0" (11x17)
 1" = 5'-0" (24x36)

1
 A-2



SUBMITTALS

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08/18/15	CORRECTED ELEVATION	4

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO:	CT11005D
DRAWN BY:	MS
CHECKED BY:	SM

PROFESSIONAL SEAL

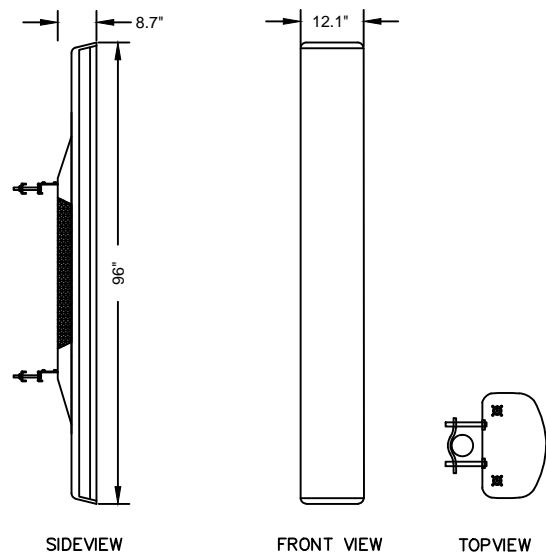
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CT11005D
 SITE NAME
 GREENWICH/ ROUTE 1
 SITE ADDRESS
 1111 E PUTNAM AVENUE
 GREENWICH, CT 06878

SHEET TITLE
EQUIPMENT PLAN AND DETAILS

SHEET NUMBER

A-3

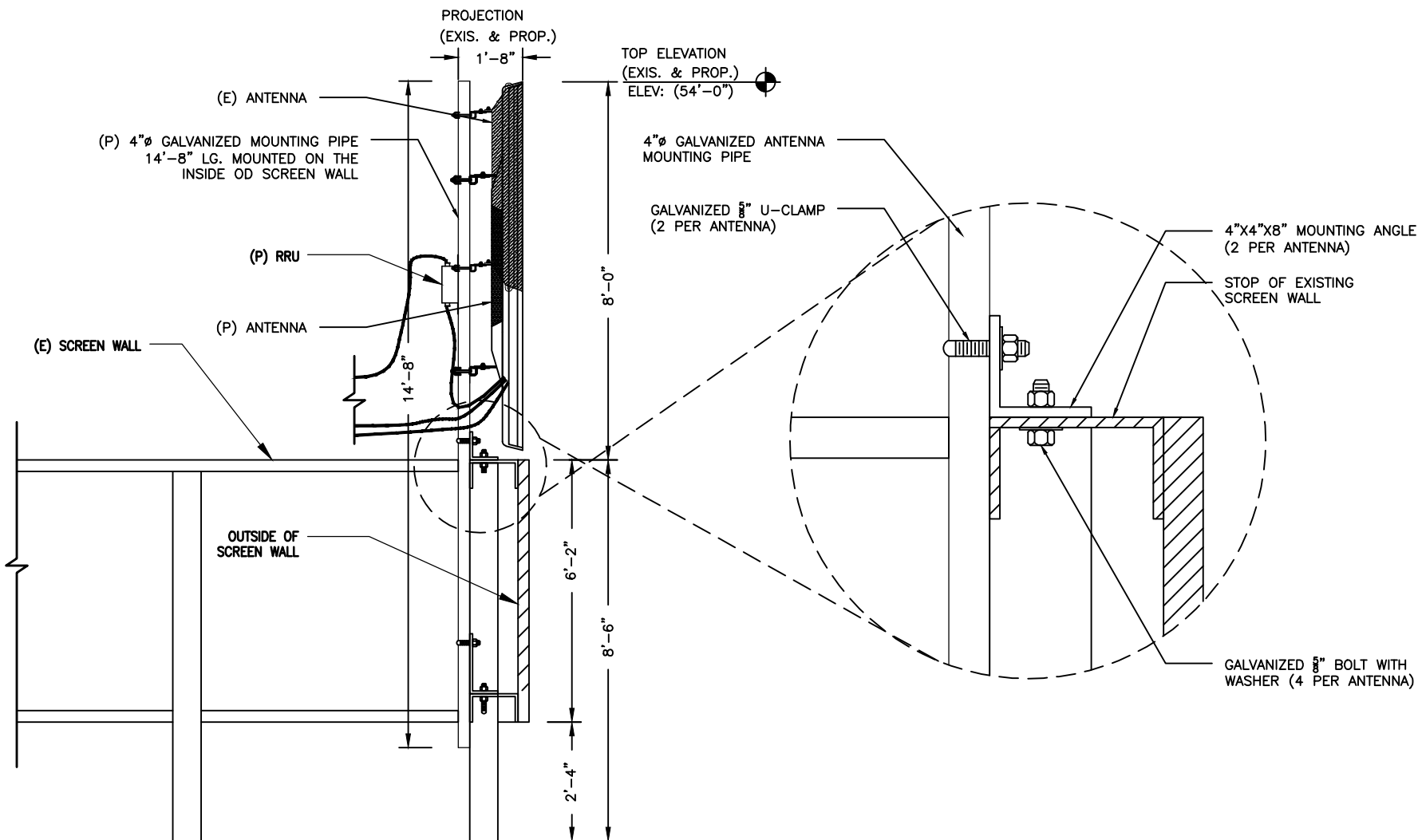


SIDEVIEW FRONT VIEW TOPVIEW

MANUFACTURE: COMMSCOPE DUAL POLE
 MODEL NO. LNX-6515DS-VTM
 DIMENSIONS - HxWxD, (IN) 96x11.85x7.1

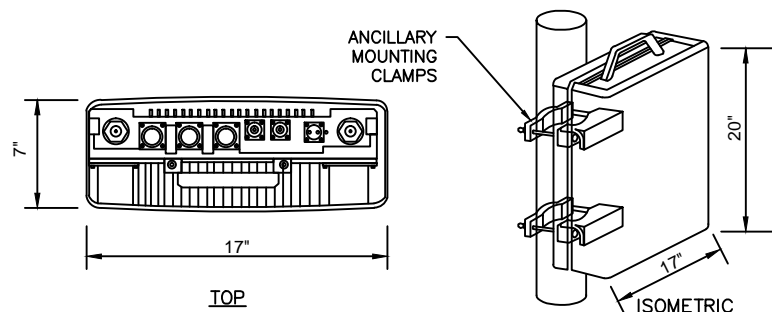
COMMSCOPE ANTENNA DETAIL 1/A-3

SCALE: N.T.S



ANTENNA MOUNT DETAIL 2/A-3

SCALE: N.T.S



RRUS 11 B12 DETAILS 3/A-3

SCALE: N.T.S

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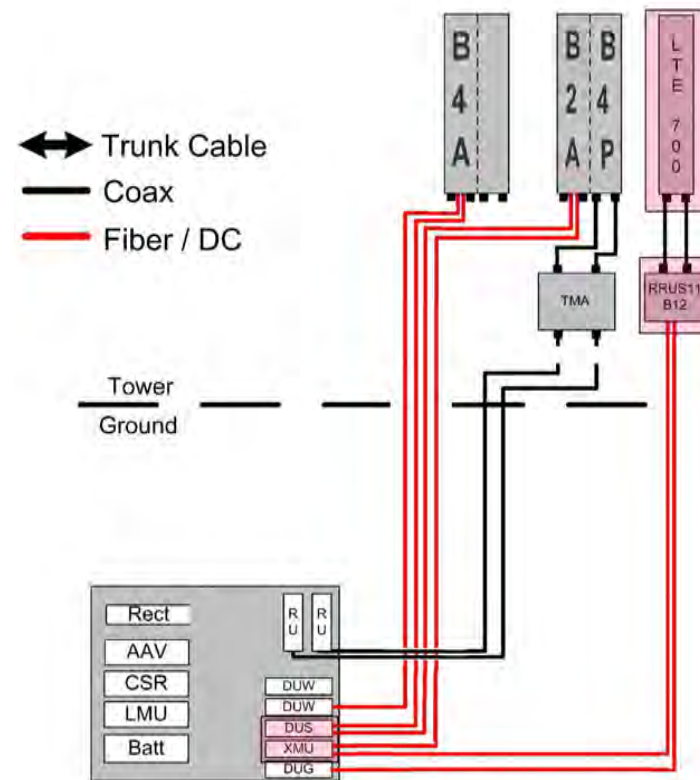
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SITE NAME
CT11005D
 SITE NAME
 GREENWICH/ ROUTE 1
 SITE ADDRESS
 1111 E PUTNAM AVENUE
 GREENWICH, CT 06878

SHEET TITLE
GROUNDING DIAGRAM AND POWER ONE LINE DIAGRAM

SHEET NUMBER

E-1



TRUNK FIBER NOTES:

1. IN GENERAL THIS CABLE WILL HANDLE SIMILARLY TO 3/8" COAXIAL CABLE, AND SIMILAR INSTALLATION TECHNIQUES APPLY. ALL CABLES ARE INDIVIDUALLY SERIALIZED, BE SURE TO WRITE DOWN THE CABLE SERIAL NUMBER FOR FUTURE REFERENCE.
2. THE TERMINATED FIBER ENDS (THE BROKEN OUT FIBERS PLUS CONNECTORS) HOWEVER ARE FRAGILE, AND THESE MUST BE PROTECTED DURING THE INSTALLATION PROCESS.
3. LEAVE THE PROTECTIVE TUBE AND SOCK AROUND THE FIBER TAILS AND CONNECTORS IN PLACE DURING HOISTING AND SECURING THE CABLE. REMOVE THIS ONLY JUST PRIOR TO MAKING THE FINAL CONNECTIONS TO THE OVP BOX.
4. DO NOT BEND THE FIBER ENDS (IN THE ORANGE FURCATION TUBES) TIGHTER THAN 3/4" (19MM) BEND RADIUS, ELSE THERE IS A RISK OF BREAKING THE GLASS FIBERS.
5. BE SURE THAT THE LACE UP ENDS AND FIBER CONNECTORS ARE NOT DAMAGED BY ATTACHMENT OF A HOISTING GRIP OR DURING THE HOISTING PROCESS. ATTACH A HOISTING GRIP ON THE JACKETED CABLE NO LESS THAN 6 INCHES BELOW THE FIBER BREAKOUT POINT. IF A HOISTING GRIP IS NOT EASILY ATTACHED, USE A SIMPLE LINE ATTACHED BELOW THE FIBER BREAK-OUT POINT (I.E. AT THE CABLE OUTER JACKET). PREVENT THE FIBER TAILS (IN PROTECTIVE TUBE) AT THE CABLE END FROM UNDUE MOVEMENT DURING HOISTING BY SECURING THE PROTECTIVE TUBE (WITH OUTER SOCK) TO THE HOISTING LINE.
6. DURING HOISTING ENSURE THAT THERE IS A FREE PATH AND THAT THE CABLE, AND ESPECIALLY THE FIBER ENDS, WILL NOT BE SNAGGED ON TOWER MEMBERS OR OTHER OBSTACLES.
7. INSTALLATION TEMPERATURE RANGE IS -22F TO 158F (-30C TO +70C).
8. MINIMUM CABLE BEND RADII ARE 22.2" (565MM) LOADED (WITH TENSION ON THE CABLE) AND 11.1" (280MM) UNLOADED.
9. MAXIMUM CABLE TENSILE LOAD IS 3560 N (800 LB) SHORT TERM (DURING INSTALLATION) AND 1070 N (240 LB) LONG TERM.
10. COMMSCOPE NON LACE UP GRIP RECOMMENDED FOR MONOPOLE INSTALLATIONS.
11. MAXIMUM HANGER SPACING 3FT (0.9 M).

HYBRID FIBER/POWER JUMPER NOTES:

1. IN GENERAL THIS CABLE WILL HANDLE SIMILARLY TO A 3/8" COAXIAL CABLE.
2. THE TERMINATED FIBER ENDS HOWEVER ARE FRAGILE AND MUST BE PROTECTED DURING INSTALLATION. LEAVE THE PACKAGING AROUND THE FIBER ENDS IN PLACE UNTIL READY TO CONNECT THE JUMPER BETWEEN OVP AND RRU OR BBU.
3. DO NOT BEND THE FIBER BREAKOUT CABLE (BETWEEN THE MAIN CABLE AND THE FIBER CONNECTOR) TIGHTER THAN 3/4" (19MM) RADIUS, ELSE THERE IS A RISK OF BREAKING THE GLASS.
4. ATTACH THE MAIN CABLE SECURELY TO THE STRUCTURE OR EQUIPMENT USING HANGERS AND/OR CABLE TIES TO PREVENT STRAIN ON CONNECTIONS FROM MOVEMENT IN WIND OR SNOW/ICE CONDITIONS.
5. ENSURE THE LC FIBER CONNECTORS ARE SEATED FIRMLY IN PANEL IN OVP OR IN EQUIPMENT.
6. INSTALLATION TEMPERATURE RANGE IS -22F TO 158F (-30C TO 70C).
7. MINIMUM CABLE BEND RADII ARE 10.3 INCH (265MM) LOADED (WITH TENSION ON THE CABLE) AND 5.2 INCH (130MM) UNLOADED.
8. MAXIMUM CABLE TENSILE LOAD IS 350 LB (1560N) SHORT TERM (DURING INSTALLATION) AND 105 LB (470N) LONG TERM.
9. STANDARD LENGTHS AVAILABLE ARE 6 FEET, 15 FEET AND 20 FEET

**702CU CONFIGURATION
 COAX/FIBER PLUMBING DIAGRAM**

SCALE: N.T.S

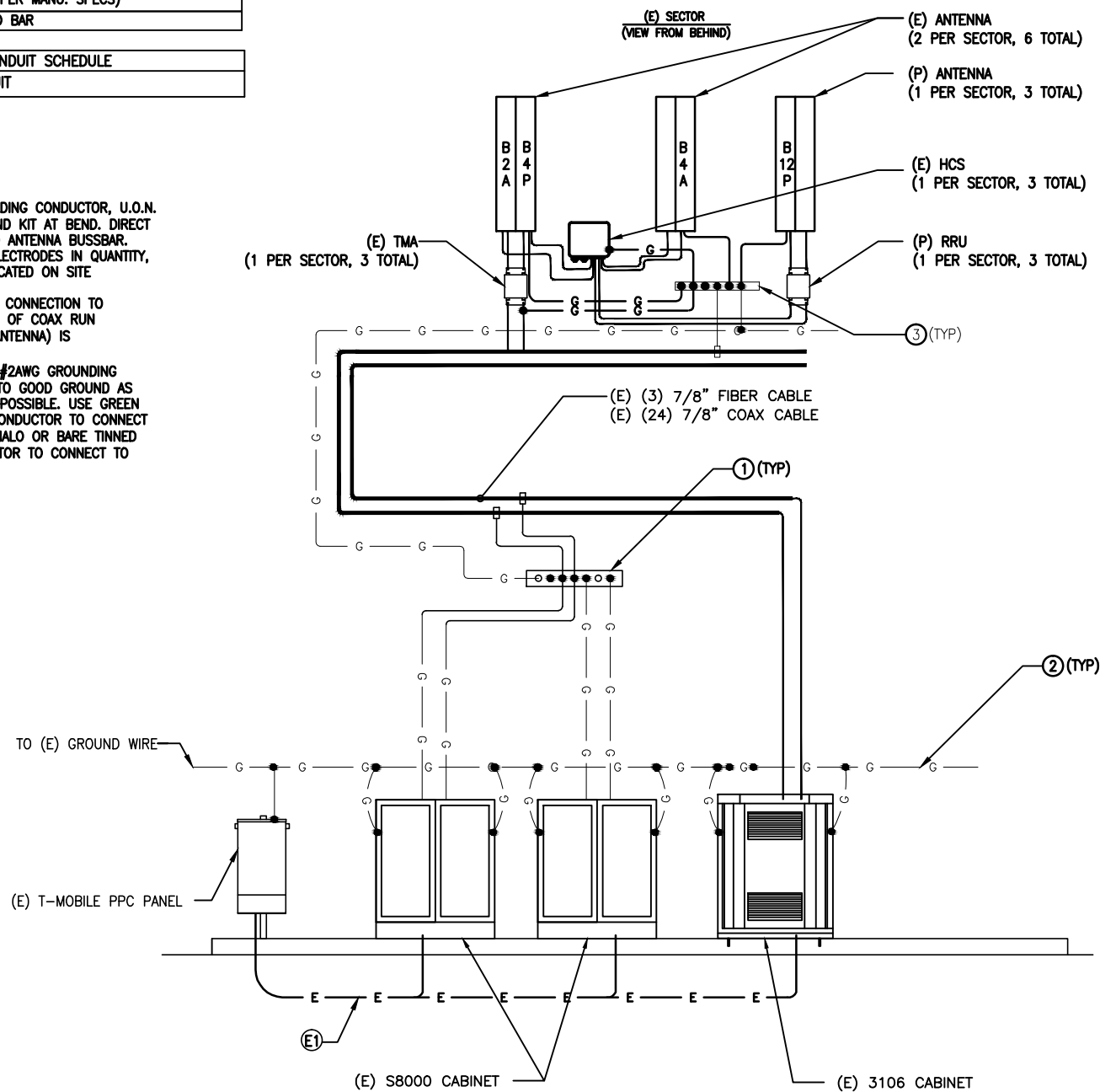
2
 E-1

GROUNDING SCHEDULE	
①	(E) MGB (BUSSBAR #1)
②	(E) #2AWG BARE TINNED SOLID COPPER CONDUCTOR BONDED TO GROUND RING (GROUND CABINETS PER MANU. SPECS)
③	(E) SECTOR GROUND BAR

CONDUIT SCHEDULE	
E1	(E) POWER CONDUIT

NOTES:

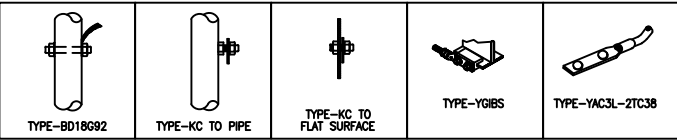
1. PROVIDE #2AWG GROUNDING CONDUCTOR, U.O.N.
2. DO NOT INSTALL GROUND KIT AT BEND. DIRECT GROUND WIRE DOWN TO ANTENNA BUSSBAR.
3. PROVIDE GROUNDING ELECTRODES IN QUANTITY, TYPE AND SIZE AS INDICATED ON SITE GROUNDING PLAN.
4. ADD COAX GROUND KIT CONNECTION TO BUSSBAR WHEN LENGTH OF COAX RUN (FROM EQUIPMENT TO ANTENNA) IS GREATER THAN 20'-0".
5. GROUND HCS BOX W/ #2AWG GROUNDING CONDUCTOR ATTACHED TO GOOD GROUND AS DIRECT AND SHORT AS POSSIBLE. USE GREEN STRANDED INSULATED CONDUCTOR TO CONNECT TO BUSSBAR/GROUND HALO OR BARE TINNED SOLID COPPER CONDUCTOR TO CONNECT TO GROUND RING.



GROUNDING DIAGRAM

SCALE: N.T.S

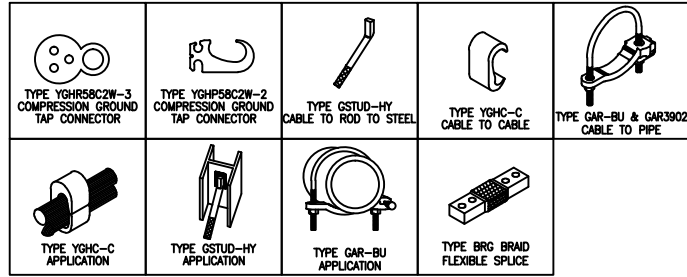
1
 E-1



BURNDY GROUNDING DETAILS

SCALE: N.T.S

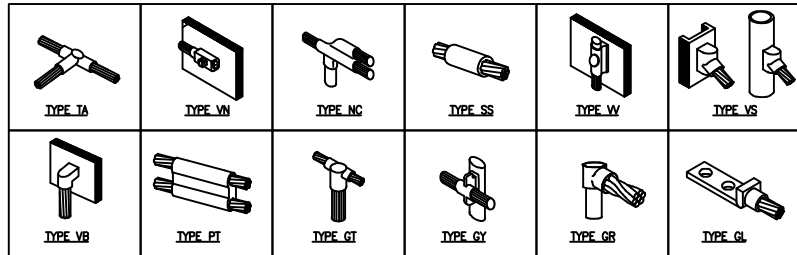
1
E-2



BURNDY GROUNDING PRODUCTS

SCALE: N.T.S

2
E-2



CADWELD GROUNDING CONNECTION PRODUCTS

SCALE: N.T.S

3
E-2

TERMINATION TYPES:

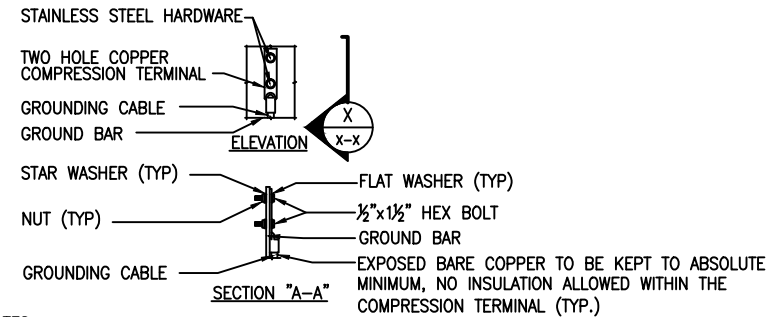
- A. MECHANICAL COMPRESSION LUG
- B. DOUBLE BARRELL COMPRESSION CONNECTOR
- C. EXOTHERMIC TERMINATION
- D. BEAM CLAMP

	SOLID #2 TINNED COPPER	#6 GROUND LEAD	#2/O STRANDED MAIN DOWN CONDUCTOR	MASTER GRND BAR	STRUCTURAL OR TOWER STEEL	BLDG SERVICE ENTR OR GROUND RING	GROUND ROD
SOLID #2 TINNED COPPER	B OR C	B OR C					
#6 GROUND LEAD	B OR C						
#2/O STRANDED GRNDG ELECTRODE CONDUCTOR				A	A, C, OR D	A	
MASTER GROUND BAR	C	A	A				
STRUCTURAL OR TOWER STEEL	A, C, OR D	A, C, OR D	A, C, OR D				
GROUND RING	C		C				C

GROUNDING TERMINATION MATRIX

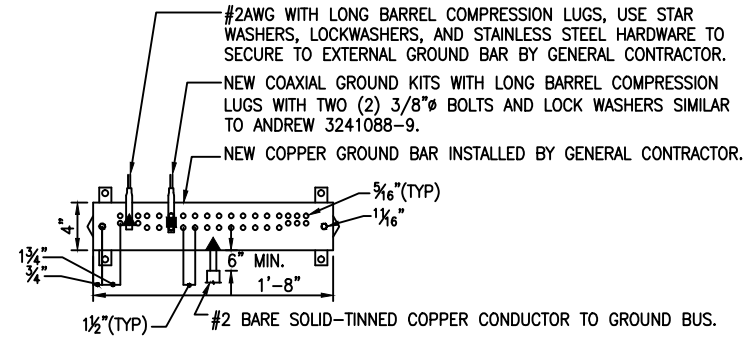
SCALE: N.T.S

7
E-2



NOTES:

- 1. OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.



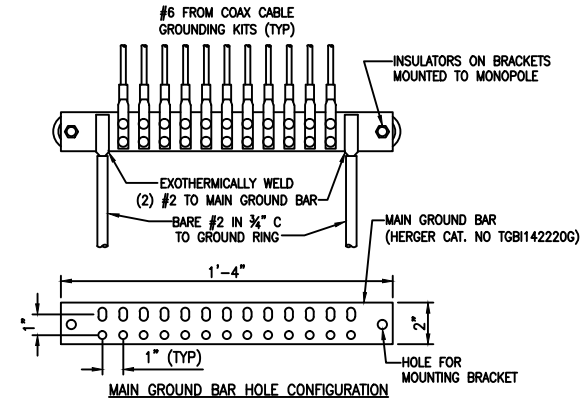
NOTES:

- 1. ALL HARDWARE STAINLESS STEEL COAT ALL SURFACES WITH KOPR-SHIELD BEFORE MATING.
- 2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH KOPR-SHIELD.
- 3. ALL HOLES ARE COUNTERSUNK 1/16".

TYPICAL GROUND BAR CONNECTIONS DETAIL

SCALE: N.T.S

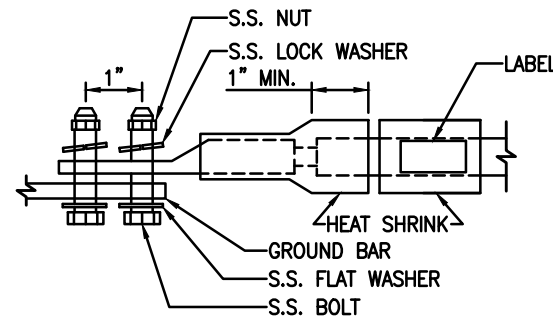
4
E-2



GROUND BAR DETAIL

SCALE: N.T.S

5
E-2



LUG NOTES:

- 1. ALL HARDWARE IS 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS.
- 2. ALL HARDWARE SHALL BE S.S. 3/8"Ø OR LARGER.
- 3. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH ANTI-OXIDIZATION COMPOUND PRIOR TO MATING.

GROUND BAR DETAIL

SCALE: N.T.S

6
E-2



T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 692-7100
FAX: (860) 692-7159



1340 Centre Street, Suite 212
Newton Center, MA 02459
Office: 617-965-0789
Fax: 617-213-5056

SUBMITTALS

DATE	DESCRIPTION	REVISION
02/16/15	ISSUED FOR REVIEW	A
02/17/15	REVISED PER COMMENTS	0
04/06/15	REVISED PER COMMENTS	1
04/15/15	REVISED PER COMMENTS	2
07/27/15	NOTE ADDED	3
08/15/15	CORRECT ELEVATION	3
08/18/15	CORRECTED ELEVATION	4

DEPT.	DATE	APP'D	REVISIONS
RFE			
RF MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: CT11005D
DRAWN BY: MS
CHECKED BY: SM

PROFESSIONAL SEAL

THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.

SITE NAME
CT11005D
SITE NAME
GREENWICH/ ROUTE 1
SITE ADDRESS
1111 E PUTNAM AVENUE
GREENWICH, CT 06878

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
E-2

Exhibit B

**STRUCTURAL ANALYSIS REPORT
ROOFTOP**



Prepared For:



**35 Griffin Road South
Bloomfield, CT 06002**



Site ID: CT11005D

Site Name: Greenwich/ Route 1

1111 E. Putnam Avenue

Greenwich, CT 06831

February, 2015

Prepared By:

Atlantis Group, Inc.

1340 Centre Street, Suite 212

Newton, Massachusetts 02459

Phone: 617-965-0789, Fax: 617-213-5056

CONTENTS

1.0 – SUBJECT AND REFERENCES

2.0 – EXISTING AND PROPOSED CONFIGURATION

3.0 – CODES AND LOADING

4.0 – STANDARD CONDITIONS FOR ENGINEERING SERVICES ON EXISTING STRUCTURES

5.0 – ANALYSIS AND ASSUMPTIONS

6.0 – RESULTS AND CONCLUSION

APPENDIX

A – PHOTOS AND CALCULATIONS

1.0 SUBJECT AND REFERENCES

The purpose of this analysis is to evaluate the structural capacity of the existing building located at 1111 E. Putnam Avenue, Greenwich, CT 06831 for modifications to an existing wireless telecommunications equipment installation proposed by T-Mobile Northeast, L.L.C. (T-Mobile).

This report is based on the following:

- Construction Drawing for Site CT11005D prepared by TECTONIC Engineering & Surveying Consultants P.C. , dated April 16, 2012.
- Construction Drawing for Site CT11005D prepared by Scientech, dated July 13, 2001.
- "Network Modernization RFDS v3.0" for Site ID CT11005D prepared by T-Mobile.
- "Structural Certification-(Modernization Project)" for Site ID CT11005D prepared by TECTONIC Engineering & Surveying Consultants P.C. , dated April 25, 2012.

1.1 STRUCTURE

This existing building is the Greenwich Emergency Medical service building, a three-story structure. Currently, T-Mobile operates a wireless telecommunications facility at the site, located at the roof level of the building. Three sectors of typical wireless telecommunications panel-style antennas have been installed onto pipe mounts, in Alpha, Beta, and Gamma sectors, and anchored behind facade of the screen wall at the roof level. A structural steel equipment platform, also located at roof level, supports typical wireless telecommunications equipment cabinets.

2.0 EXISTING AND PROPOSED CONFIGURATION

Equipment Cabinets:

T-Mobile is not proposing any changes to the existing cabinet configuration.

Antennas:
Existing Configuration of T-MOBILE Appurtenances:

Sector	Rad. Center (ft)	Antenna	TMA / RRU	Mount Type
Alpha	52	(1) Ericsson AIR21 B4A/B2P (1) Ericsson AIR21 B2A/B4P	(1) dd B4 TMA	(2) Pipe Mounts
Beta	52	(1) Ericsson AIR21 B4A/B2P (1) Ericsson AIR21 B2A/B4P	(1) dd B4 TMA	(2) Pipe Mounts
Gamma	52	(1) Ericsson AIR21 B4A/B2P (1) Ericsson AIR21 B2A/B4P	(1) dd B4 TMA	(2) Pipe Mounts

Proposed and Final Configuration of T-MOBILE Appurtenances:

Sector	Rad. Center (ft)	Antenna	TMA / RRU	TMA / RRU
Alpha	52	(1) Ericsson AIR21 B4A/B2P (1) Ericsson AIR21 B2A/B4P	(1) dd B4 TMA	(3) Pipe Mounts
	50	(1) Commscope LNX-6515DS-VTM	(1) S11 B12 RRU	
Beta	52	(1) Ericsson AIR21 B4A/B2P (2) Ericsson AIR21 B2A/B4P	(1) dd B4 TMA	(3) Pipe Mounts
	50	(1) Commscope LNX-6515DS-VTM	(1) S11 B12 RRU	
Gamma	52	(1) Ericsson AIR21 B4A/B2P (3) Ericsson AIR21 B2A/B4P	(1) dd B4 TMA	(3) Pipe Mounts
	50	(1) Commscope LNX-6515DS-VTM	(1) S11 B12 RRU	

3.0 CODES AND LOADING

The analysis is in accordance with the following codes and loading as adopted in Connecticut for Fairfield County:

- *2005 State Building Code with 2005 Addendum and 2013 Supplement*, International Code Council
- *Minimum Design Loads for Building and Other Structures ASCE/SEI 7-02*, American Society of Civil Engineers
- *Specifications for Structural Steel Buildings – Allowable Stress ANSI/AISC 335-89s1*, American National Standards Institute/American Institute for Steel Construction
- Basic Wind Speed: 85 mph
- Flat Ground Snow Load: 30 psf

4.0 STANDARD CONDITIONS FOR ENGINEERING SERVICES ON EXISTING STRUCTURES

The analysis is based on the information provided to Atlantis Group and is assumed to be current and correct. Unless otherwise noted, the structure and the foundation system are assumed to be in good condition, free of defects, and can achieve theoretical strength.

It is assumed that the structure has been maintained and shall be maintained during its service. The superstructure and the foundation system are assumed to be designed with proper engineering practice and fabricated, constructed, and erected in accordance with the design documents. Atlantis Group will accept no liability which may arise due to any existing deficiency in design, material, fabrication, erection, construction, etc., or lack of maintenance. Contractor should inspect the condition of the existing structure, mounts and connections and notify Atlantis Group for any discrepancies and deficiencies before proceeding with the construction.

The evaluation results presented in this report are only applicable for the previously mentioned existing and proposed additions and alterations. Any deviation of the proposed equipment and placement, etc., will require Atlantis Group to generate an additional structural evaluation.

5.0 ANALYSIS and ASSUMPTIONS

The structure is considered to have adequate strength for the proposed loading if the existing structural members that will be used to support the proposed equipment are structurally adequate per the applicable Code criteria or that the additions or alterations to the existing structure do not increase the force in any structural element by more than 5%.

6.0 RESULTS and CONCLUSION

Cabinets: T-Mobile is not proposing any changes to the existing equipment cabinet configuration. Therefore, the original analysis is still valid and no further evaluation is required.

Antenna Mounts: Proposed pipe mounts were found to have adequate capacity to support the proposed installation. When loaded with the Code-specified load combinations, proposed pipe mounts were found to be stressed to a maximum of 43.8% of their allowable capacity. The new panel antennas and RRUs should be mounted on a 3.5" Standard pipes (35 ksi minimum steel grade) similar to existing with 1/2" "U"- bolts – one antenna and RRU per pipe. Attachment of the new antenna mounting pipes to the existing screen wall structural members shall be of similar construction.

Based on an analysis of the existing and proposed installation pursuant to the above-referenced Codes and standards, we have determined that the proposed changes will not adversely affect the existing facility. The overall increase in horizontal forces due to the installation of antennas is significantly less than 10% allowed by the code. Thus no further analysis of the building is necessary and it should be capable of supporting the proposed antennas.

Should you have any questions or need any clarifications about this report, please contact Atlantis Group at (617) 965-0789.

Sincerely,

Atlantis Group



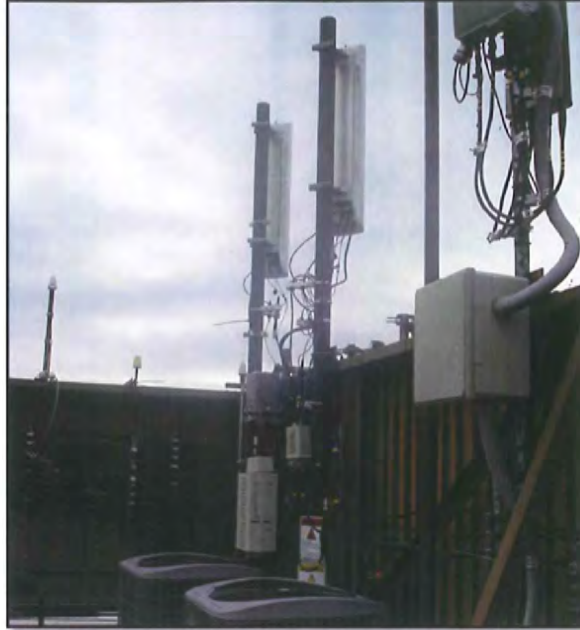
02/17/2015

Dmitriy V. Albul, P.E.

Connecticut Professional Engineer

License Num. 26725

**APPENDIX A
PHOTOS AND CALCULATIONS**



Existing sector mount – gamma sector



Existing sector mount – alpha sector

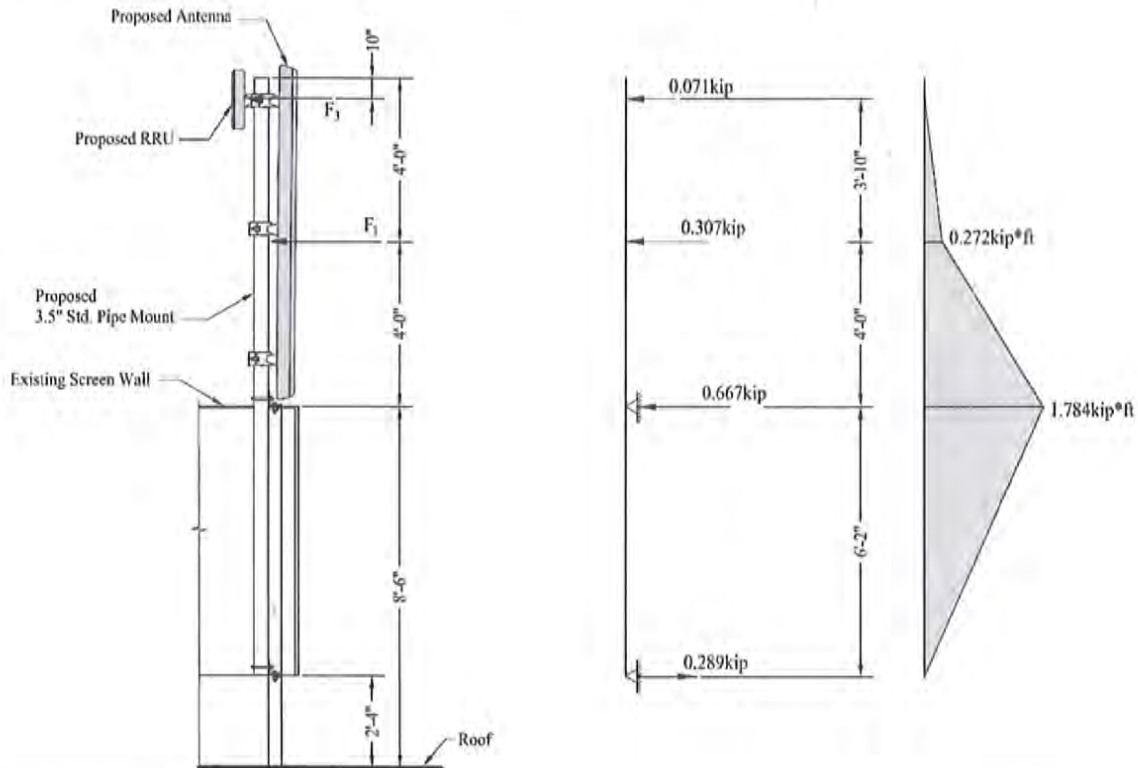


Existing sector mount – beta sector



Existing equipment on the rooftop

Top of the screen wall: $H := 48\text{ft}$ Wind speed: $V := 85\text{mph}$
 Pipe mount parameters $F_y := 35\text{ksi}$ $S_x := 2.26\text{in}^3$
 (3 1/2" Std. Pipe, A53-Gr. B):



Wind load on antenna and mount pipe:

$$F_1 := \text{Wind_Force}(96.4\text{in}, 11.9\text{in}, \text{Flat}, V, H + 4\text{ft}) + \text{Wind_Force}(96\text{in}, 4\text{in}, \text{Round}, V, H + 4\text{ft}) = 0.307\text{kip}$$

Wind load on RRU:

$$F_2 := \text{Wind_Force}(20\text{in}, 17\text{in}, \text{Flat}, V, H + 7.8\text{ft}) = 0.071\text{kip}$$

Pipe bending capacity:

$$M_r := 0.6 \cdot F_y \cdot S_x = 3.955\text{kip}\cdot\text{ft}$$

$$\% \text{Capacity} := \frac{1.784\text{kip}\cdot\text{ft}}{M_r} = 45.1\%$$

Product Specifications

COMMSCOPE®



INX-65 1 SDS-VTM

Andrew® Antenna, 698–896 MHz, 65° horizontal beamwidth, RET compatible

- Excellent choice to maximize both coverage and capacity in suburban and rural applications
- Fully compatible with Andrew remote electrical tilt system for greater OpEx savings
- Exceptional horizontal pattern roll-off and strong front-to-back ratio
- Extended bandwidth allows one antenna to serve multiple frequency allocations
- Great solution to maximize network coverage and capacity
- The RF connectors are designed for IP67 rating and the radome for IP56 rating

Electrical Specifications

Frequency Band, MHz	698–806	806–896
Gain, dBi	16.7	17.6
Beamwidth, Horizontal, degrees	65	65
Beamwidth, Horizontal Tolerance, degrees	±2	±2
Beamwidth, Vertical, degrees	9.6	8.6
Beam Tilt, degrees	0–8	0–8
USLS, typical, dB	17	17
Front-to-Back Ratio at 180°, dB	32	27
CPR at Boresight, dB	24	24
CPR at Sector, dB	10	10
Isolation, dB	30	30
VSWR Return Loss, dB	1.4 15.6	1.4 15.6
PIM, 3rd Order, 2 x 20 W, dBc	-150	-150
Input Power per Port, maximum, watts	400	400
Polarization	±45°	±45°
Impedance	50 ohm	50 ohm

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol®
Band	Single band
Brand	DualPol® Teletilt®
Operating Frequency Band	698 – 896 MHz

Mechanical Specifications

Color	Light gray
Connector Interface	7-16 DIN Female
Connector Location	Bottom
Connector Quantity, total	2
Lightning Protection	dc Ground
Radiator Material	Aluminum
Radome Material	Fiberglass, UV resistant
Wind Loading, maximum	878.0 N @ 150 km/h 197.4 lbf @ 150 km/h
Wind Speed, maximum	241.0 km/h 149.8 mph

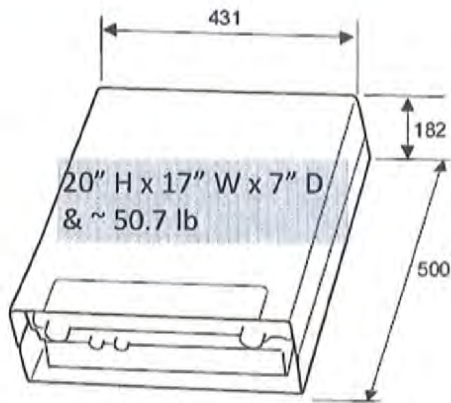
INX-65 1 SDS-VTM

Dimensions

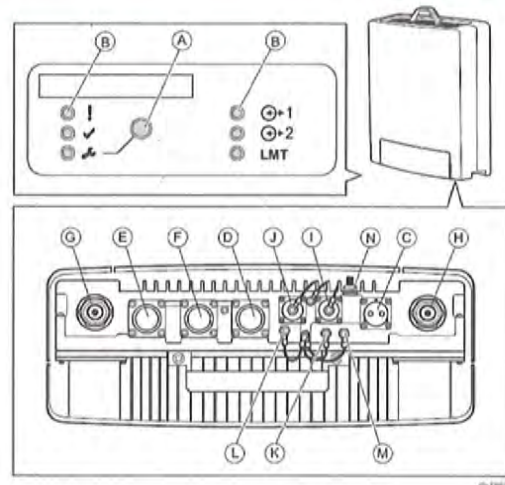
Depth	181.0 mm 7.1 in
Length	2449.0 mm 96.4 in
Width	301.0 mm 11.9 in
Net Weight	22.8 kg 50.3 lb



Remote Radio Unit – RRUS11 B12



* RRUS 11 B12 is exactly the same size as RRUS 11 B2 or B4 that T-Mobile is currently using.



Dimensions with Solar Shield and Handle	
Height	500 mm
Width	431 mm
Depth	182 mm
Weight	
RRUS 11	23 kg
Color	
Gray	NCS S2502-R

Unit	Output Power
RRUS 11 B1, B4	2x30 W
	2x40 W
RRUS 11 B2	2x30 W
	2x40 W
RRUS 11 B12	2x30 W

Exhibit C

RADIO FREQUENCY EMISSIONS ANALYSIS REPORT
EVALUATION OF HUMAN EXPOSURE POTENTIAL
TO NON-IONIZING EMISSIONS

T-Mobile Existing Facility

Site ID: CT11005D

Greenwich/ Route 1
1111 E. Putnam Avenue
Greenwich, CT 06878

August 24, 2015

EBI Project Number: 6215001396

Site Compliance Summary	
Compliance Status:	NOT COMPLIANT
Site total MPE% of FCC general public allowable limit:	107.04 %

August 24, 2015

T-Mobile USA
Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, CT 06002

Emissions Analysis for Site: **CT11005D – Greenwich/ Route 1**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **1111 E. Putnam Avenue, Greenwich, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile Antenna Installation located on this property 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 public 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 public would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications facility that exposes persons in a nearby residential area.

Public 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 limit for the 700 MHz Band is approximately 467 $\mu\text{W}/\text{cm}^2$, and the general population exposure limit for the PCS and AWS bands is 1000 $\mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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 (see below), 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 done for the proposed T-Mobile Wireless antenna facility located at **1111 E. Putnam Avenue, Greenwich, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile is proposing highly focused directional panel 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 building. For this report the sample point is the top of a 6 foot person standing at ground level at the base of the building. Additionally, since the antenna sectors are installed on different sides of the building only one sector is considered for the total T-Mobile contribution due to the isolation provided by the building structure itself. This means that each sector will contribute very little to the adjacent sectors cumulative power density value.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 2 GSM channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel
- 2) 2 UMTS channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 LTE channels (AWS Band – 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.

- 5) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. 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. This is rarely the case, and if so, is never continuous.
- 6) For the following calculations the sample point was the top of a six foot person standing at the base of the building. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 7) The antennas used in this modeling are the **Ericsson AIR21 B4A/B2P** for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the **Commscope LNX-6515DS-VTM** for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The **Ericsson AIR21 B4A/B2P** has a maximum gain of **15.9 dBd** at its main lobe. The **Commscope LNX-6515DS-VTM** has a maximum gain of **14.6 dBd** at its main lobe. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 8) The antenna mounting height centerlines of the proposed antennas are **50 & 52 feet** above ground level (AGL).
- 9) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

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

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	52	Height (AGL):	52	Height (AGL):	52
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	2	Channel Count	2	# PCS Channels:	2
Total TX Power:	120	Total TX Power:	120	# AWS Channels:	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A1 MPE%	7.93	Antenna B1 MPE%	7.93	Antenna C1 MPE%	7.93
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	52	Height (AGL):	52	Height (AGL):	52
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power:	120	Total TX Power:	120	Total TX Power:	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A2 MPE%	7.93	Antenna B2 MPE%	7.93	Antenna C2 MPE%	7.93
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM	Make / Model:	Commscope LNX-6515DS-VTM
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	50	Height (AGL):	50	Height (AGL):	50
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power:	30	Total TX Power:	30	Total TX Power:	30
ERP (W):	865.21	ERP (W):	865.21	ERP (W):	865.21
Antenna A3 MPE%	3.44	Antenna B3 MPE%	3.44	Antenna C3 MPE%	3.44

Site Composite MPE%	
Carrier	MPE%
T-Mobile (Single Sector)	19.30
Verizon Wireless	60.14 %
Nextel	4.11 %
Greenwich PD	15.50 %
Clearwire	7.99 %
Site Total MPE %:	107.04 %

T-Mobile Sector 1 Total:	19.30 %
T-Mobile Sector 2 Total:	19.30 %
T-Mobile Sector 3 Total:	19.30 %
Site Total:	107.04 %

T-Mobile _per sector	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 2100 MHz (AWS) LTE	2	2334.27	100	79.32	2100	1000	7.93 %
T-Mobile 700 MHz LTE	1	865.21	100	16.07	700	467	3.44 %
T-Mobile 1900 MHz (PCS) GSM / UMTS	2	1167.14	100	39.66	1900	1000	3.97 %
T-Mobile 2100 MHz (AWS) UMTS	2	1167.14	100	39.66	2100	1000	3.97 %
						Total:	19.30%

Summary

All calculations performed for this analysis yielded results that were **not within** the allowable limits for general public exposure to RF Emissions.

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

T-Mobile Sector	Power Density Value (%)
Sector 1:	19.30 %
Sector 2:	19.30 %
Sector 3 :	19.30 %
T-Mobile Total:	19.30 % (Single Sector Contribution)
Site Total:	107.04 %
Site Compliance Status:	NOT COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **107.04%** of the allowable FCC established general public limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.




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.

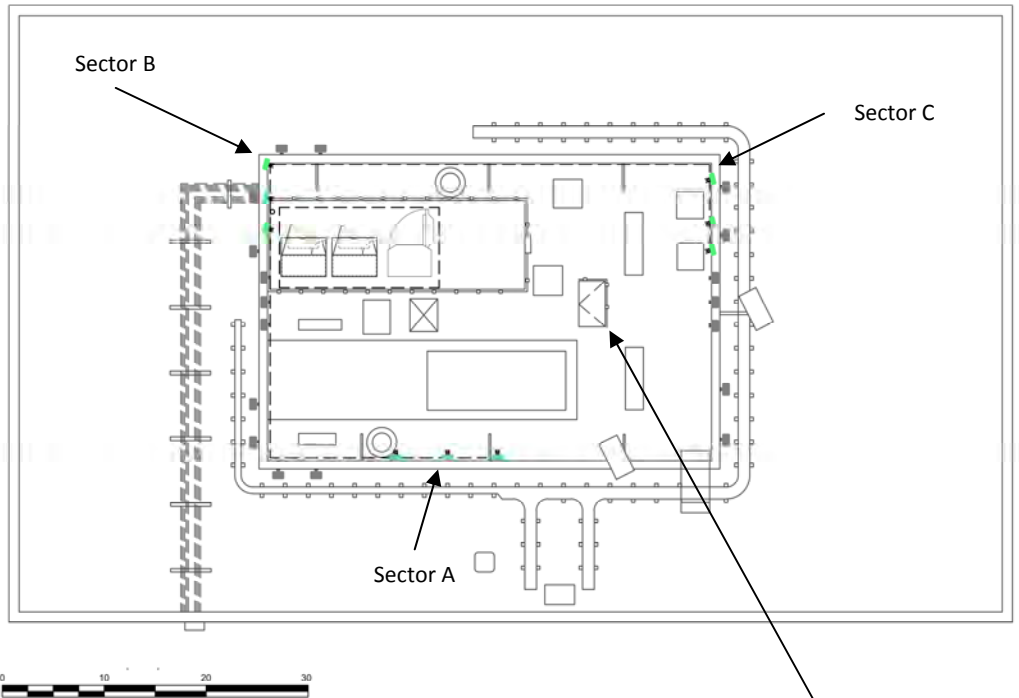


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Attachment I: Safety and Signage Plan – Signage Locations

Status:	Compliant
Recommended Signage for compliance	
Sign Count	Sign Type
1	
1	
1	
Notes: The Proposed site will be compliant with the installation of the mitigation measures.	



Posted at the Roof Access Hatch

- T-Mobile Antennas
- Other Carrier Antennas

Sign	Description	Posting Instructions
	<p style="text-align: center;">NOC</p> <p>Informational sign, used to provide T-Mobile emergency contact information for the site.</p>	<p>Securely post at all first point of access to the site (at the roof access hatch) in a manner conspicuous to all individuals entering thereon.</p> <p style="text-align: center;">Denote Site ID Number on Sign in Permanent Marker.</p>
	<p style="text-align: center;">Notice To Workers</p> <p>Informational sign, used to notify workers that there are active antennas installed and provide guidelines for working in RF environments.</p>	<p>Securely post at all first point of access to the site (at the roof access hatch) in a manner conspicuous to all individuals entering thereon.</p>
	<p style="text-align: center;">Blue Notice sign</p> <p>Used to notify individuals they are entering an area where the power density emitted from transmitting antennas is within the FCC's MPE limit for the general public.</p>	<p>Securely post at all first point of access to the site (at the roof access hatch) in a manner conspicuous to all individuals entering thereon.</p> <p style="text-align: center;">Denote Site ID Number on Sign in Permanent Marker.</p>