

JULIE D. KOHLER

PLEASE REPLY TO: Bridgeport
WRITER'S DIRECT DIAL: (203) 337-4157
E-Mail Address: jkohler@cohenandwolf.com

May 6, 2015

Attorney Melanie Bachman
Acting Executive Director
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

**Re: Notice of Exempt Modification
Town of New Fairfield/T-Mobile equipment upgrade
Site ID CT11797A
302 Ball Pond Road, New Fairfield CT**

Dear Attorney Bachman:

This office represents T-Mobile Northeast LLC ("T-Mobile") and has been retained to file exempt modification filings with the Connecticut Siting Council on its behalf.

In this case, the Town of New Fairfield ("Town") owns the existing telecommunications tower and related facility at 302 Ball Pond Road, New Fairfield Connecticut (latitude 41.464761/ longitude -73.49666). T-Mobile intends to add three (3) antennas and related equipment at this existing telecommunications facility in New Fairfield ("New Fairfield Facility"). Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction which 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 First Selectman Michael C. Tetreau, Town of New Fairfield. The Town is also the property owner.

The existing New Fairfield Facility consists of a 175 foot tall monopole tower.¹ T-Mobile plans to replace add three (3) antennas and three (3) RRU (remote radio units) at a centerline of 145 feet. (See the plans revised to April 29, 2015 attached hereto as Exhibit A). With modifications, the existing Facility is structurally capable of supporting T-Mobile's proposed modifications, as indicated in the Structural Analysis Report dated April 24, 2015 and attached hereto as Exhibit B.

The planned modifications to the New Fairfield Facility fall squarely within those

¹ The Connecticut Siting Council database does not contain any Dockets or Petitions relative to this Facility however there are notices of intent, the most recent being EM-SPRINT-091-141203, EM-T-MOBILE-091-130531A, and EM-VER-091-121206.

May 6, 2015
Site ID CT11797A
Page 2

activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1 . The proposed modification will not increase the height of the tower. T-Mobile's replacement antennas will be installed at the 145 foot level. The enclosed tower drawing confirms that the proposed modification will not increase the height of the tower.

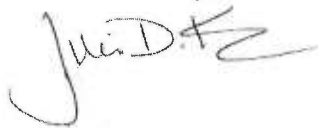
2 . T-Mobile does not propose to make any changes to the existing compound area and therefore the proposed modification will not require an extension of the site boundaries.

3 . The proposed modification to the Facility will not increase the noise levels at the existing facility by six decibels or more.

4 . The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. According to a Radio Frequency Emissions Analysis Report prepared by EBI dated April 20, 2015 T-Mobile's operations would add 6.25% of the FCC Standard. Therefore, the calculated "worst case" power density for the planned combined operation at the site including all of the proposed antennas would be 64.53% of the FCC Standard as calculated for a mixed frequency site as evidenced by the engineering exhibit attached hereto as Exhibit C.

For the foregoing reasons, T-Mobile respectfully submits that the proposed additional antennas and equipment at the New Fairfield Facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Upon acknowledgement by the Council of this proposed exempt modification, T-Mobile shall commence construction approximately sixty days from the date of the Council's notice of acknowledgement.

Sincerely,



Julie D. Kohler, Esq.

cc: Town of New Fairfield, First Selectman Michael C. Tetreau
Sheldon Freinle, NSS

EXHIBIT A



T-MOBILE NORTHEAST LLC

SITE #: CT11797A

SITE NAME: CT797/NEW FAIRFIELD MP

SITE ADDRESS:

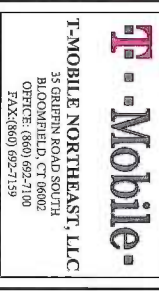
302 BALL POND ROAD

NEW FAIRFIELD, CT 06812

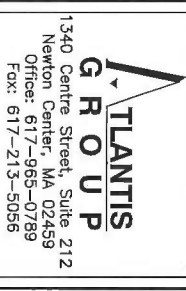
WIRELESS BROADBAND FACILITY

CONSTRUCTION DRAWINGS

(702CU CONFIGURATION)



T-MOBILE NORTHEAST, LLC
35 GRIFFIN ROAD SOUTH
BLOOMFIELD, CT 06002
OFFICE: (860) 692-2100
FAX: (860) 692-7159



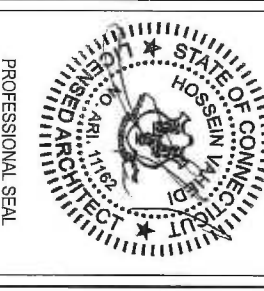
1340 Centre Street, Suite 212
Newton Center, MA 02459
Office: 617-965-0789
Fax: 617-213-5056

SUBMITTALS

DATE	DESCRIPTION	REVISION
01/29/15	ISSUED FOR REVIEW	A
02/24/15	REVISION	0
04/29/15	FINAL CD	1

DEPT.	DATE	APPROD	REVISIONS
REF. MAN.			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO: CT11797A
DRAWN BY: MB
CHECKED BY: SM



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
CT11797A

SITE NAME
CT797/NEW FAIRFIELD MP
SITE ADDRESS
302 BALL POND ROAD
NEW FAIRFIELD, CT
06812

SHEET TITLE
TITLE SHEET

SHEET NUMBER
T-1

SITE INFORMATION

SITE NUMBER: CT11797A
SITE NAME: CT797/NEW FAIRFIELD MP
SITE ADDRESS: 302 BALL POND ROAD
NEW FAIRFIELD, CT 06812
LAT./LONG.: N 41.46476° / W 73.49666°
JURISDICTION: TOWN OF NEW FAIRFIELD
PROPERTY OWNER: TOWN OF NEW FAIRFIELD
4 BRUSH HILL ROAD
NEW FAIRFIELD, CT 06812
ATTN: SUSAN CHAPMAN, FIRST SELECTMAN
203-312-5600

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	TITLE SHEET	DESCRIPTION
T-1	GENERAL AND ELECTRICAL NOTES	
A-1	SITE PLAN AND ELEVATION	
A-2	ANTENNA PLAN AND DETAILS	
E-1	GROUNDING AND POWER ONE LINE DIAGRAM	
E-2	GROUNDING DETAILS	

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 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 PRIORITIZE 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. ATLANTIS GROUP, INC. HAS NOT CONDUCTED A STRUCTURAL ANALYSIS FOR THIS PROJECT AND DOES NOT ASSUME ANY LIABILITY FOR THE ADEQUACY OF THE STRUCTURE AND COMPONENTS.
18. REFER TO STRUCTURAL ANALYSIS DOCUMENT ENTITLED, "POST-MOD TOWER ANALYSIS REPORT" PREPARED BY INENING & DESIGN BUILD DELIVER "T-MOBILE SITE ID CT11797A" DATED APRIL 24, 2015

VICINITY MAP



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.CBDD.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
GAS/OIL - YELLOW
TEL/CATV - ORANGE
WATER - BLUE
SEWER - GREEN
SURVEY - PINK
PROPOSED EXCAVATION - WHITE
RECLAIMED WATER - PURPLE

ELECTRICAL NOTES:

WORK INCLUDED

1. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
 - A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS.
 - B. PROVIDE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH THE WORK OF THIS CONTRACT.
 - C. SUBMIT AS-BUILT DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUALS.
 - D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK.
 - E. COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER, FRAME HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS.
 - F. MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED. PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION PURPOSES.
 - G. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. FINISHES AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.
2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS, IT IS CONSIDERED SUFFICIENT FOR INCLUSION IN THE CONTRACT. FINISHES AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS

1. PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL CODES.
2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING.
3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING AND CONTRACTOR IS TO VERIFY ALL EXISTING BUILDINGS AND LOADS PRIOR TO PLACEMENT OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER.
4. EXISTING BUILDING EQUIPMENT IS NOTED ON THE DRAWINGS. MEN OR REDUCED EQUIPMENT IS SHOWN WITH SLOPED LINES. SHUTDOWNS (NOT IN THIS CONTRACT) IS DESIGNATED WITH SHADDED LINES. REQUEST CLARIFICATION OF DRAWINGS OR SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION.
5. GENERAL REQUIREMENTS:
 - A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL, MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER, IN WRITING, OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS.
 - B. VERIFY ALL MEASUREMENTS AT THE SITE AND BE RESPONSIBLE FOR CORRECTNESS OF SAME.
 - C. QUALITY WORKMANSHIP, MATERIALS AND SAFETY MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT. WHERE U.I. OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS, PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIAL/STANDARD ITEMS OF EQUIPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE PROPER FUNCTIONING OF THE WORK.
 - D. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK. INSTALL MATERIALS AND EQUIPMENT TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
 - E. PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL, WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT.
 - F. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF.
 - G. PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIGHT TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT.
 - H. GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD, MAKE GOOD FAILURES OR IMPROPERMENTS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS DIRECTED BY ARCHITECT.

CLEANING

1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE WORK.
 2. CLEAN EQUIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER.
- COORDINATION AND SUPERVISION
1. CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE OWNER, REPAIR FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS. IF WORK IS INSTALLED BEFORE COORDINATION WITH OTHER TRADES, OR CHANGES INTERFERENCE, MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE.

SUBMITTALS

1. AS-BUILT DRAWINGS.
 - A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
 - B. SERVE MANUALS.
 - C. UPON COMPLETION OF THE WORK, FULLY INSTRUCT 1-MOBILE AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL, EQUIPMENT AND SYSTEMS.
 - D. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT.

CUTTING AND PATCHING

1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING REQUIRED TO COMPLETE THE WORK.
2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS OR WALLS FOR PIPING OR CONDUIT.

TESTS, INSPECTION AND APPROVAL

1. BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION, INSPECT EACH UNIT IN DETAIL, TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE-TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL COMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE OPERATIONAL CONDITION.
2. PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS, WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM.

SPECIAL REQUIREMENTS

1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS. DO NOT INTERFERE WITH OR OBTAIN ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION.
2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES, COORDINATE WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON. SHUTDOWNS NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS PRIOR TO SHUTDOWN. ALL SHUTDOWNS WORK TO BE SCHEDULED AT A TIME CONVENIENT TO OWNER.

GROUNDING

1. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON CONDUIT/GROUNDING RISER.
2. ROUTE 500 KCMIL CU. THIN CONDUCTOR FROM THE MOB LOCATION TO BUILDING STEEL. VERIFY BUILDING STEEL IS EFFECTIVELY GROUND PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC).
3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BIRINDY COMPRESSION TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS.
4. USE 1 HOLE, CRIMP TYPE, BIRINDY COMPRESSION TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS.
5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING. PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION.

RECEIVERS

1. ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING:
 - A. EXTERIOR FEEDERS AND CONDUIT, WHERE UNDERGROUND, TO BE IN SCH 40 PVC.
 - B. EXTERIOR ABOVE GROUND POWER CONDUITS TO BE GALVANIZED RIGID STEEL (GRS).
 - C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO BE EMT.
 - D. INSTALL PULL ROPES IN ALL NEW EMPTY CONDUITS INSTALLED ON THIS PROJECT.
 - E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "4-WIRELET" OWNER WILL PROVIDE LABELS FOR CONTRACTOR TO INSTALL.
 - F. INTERIOR FEEDERS TO BE INSTALLED IN EMT. WITH STEEL COMPRESSION FITTINGS.
 - G. MINIMUM SIZE CONDUIT TO BE 3/4" TRADE SIZE.
 - H. UNLESS OTHERWISE INDICATED ON THE DRAWINGS, FINAL CONNECTIONS TO MOTORS AND WIRING EQUIPMENT TO BE INSTALLED IN LOAD-TIGHT FLEXIBLE METAL CONDUIT.
 - I. CONDUIT TO BE RUN CONCEALED IN CEILINGS, FINISHED AREAS OR URHWALL PARTITIONS, UNLESS OTHERWISE NOTED.
 - J. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS WORKMANLIKE. BEFORE INSTALLING ANY WORK, EXAMINE THE DRAWING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND CLEARANCES.
 - K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

FACEWAYS CONT'D

- L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL FACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF FACEWAYS SO AS TO MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE PARTITIONS TO MAINTAIN PROPER RAINING OF WALL OR CEILING.
 - M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC GROUNDING BUSINESSES.
 - N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF 8'-0" OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS.
 - O. PROVIDE STAINLESS STEEL BLANK COVER PLATES FOR ALL JUNCTION BOXES AND/OR OUTLET BOXES NOT USED IN STAMPED STEEL COVER PLATES.
 - P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT SYSTEMS CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING.

WIRES AND CABLES

1. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT EQUIPMENT OVER-CURRENT PROTECTION VOLTAGE, WIRE SIZE AND PLUG CONFIGURATION. IF APPLICABLE, FAVOR TO BID.
2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED GROUND CONDUCTOR.
3. ALL WIRE AND CABLE TO BE 800VOLT, COPPER, WITH THIN/THICK INSULATION, EXCEPT AS NOTED.
4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO. 12WAG. ALL WIRE NO. 8 AND LARGER TO BE STRAIGHT.
5. CONDUIT WIRING IS NOT TO BE LESS THAN NO. 14AWG. FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES. CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES. WIRE CONTROL WIRING SHALL BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE. ALL CONTROL WIRE TO BE 800VOLT RATED. 6. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED AND IS NOT TO BE RE-PULLED.
7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V CIRCUITS:

LENGTH (FT.)	HOME RUN WIRE SIZE
0 TO 50	NO. 12
51 TO 100	NO. 10
101 TO 150	NO. 8
8. VOLTAGE DROP IS NOT TO EXCEED 3%.
9. MAKE ALL CONNECTIONS WITH UL APPROVED, SOLDERLESS, PRESSURE-TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL.
10. ALL RECEPACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION. DISCONNECT SWITCHES AND FUSES
11. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED.
12. PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.
13. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION.
4. GENERAL ELECTRIC COMPANY
5. SQUARE-D
6. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE.
7. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON DRAWINGS.
8. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. FUSES MUST MATCH IN TYPE AND RATING.
9. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL.
4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS FOLLOWS:
 - A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF 60A, USED FOR INITIAL FUSING.
 - B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE UP TO WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

WIRING DEVICES

1. ALL RECEPACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONNECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION. DISCONNECT SWITCHES AND FUSES
11. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED.
12. PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT THE LOAD FOR WHICH THEY ARE INTENDED.
13. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION.
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5. SQUARE-D
6. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE.
7. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON DRAWINGS.
8. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES. FUSES MUST MATCH IN TYPE AND RATING.
9. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL.
4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS FOLLOWS:
 - A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF 60A, USED FOR INITIAL FUSING.
 - B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE UP TO WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

CONFLICTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
3. NO PIECE OF INFORMATION OR CONDITIONS THAT EXIST OR OF DIFFICULTY OF CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL THE REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

CONTRACTS AND WARRANTIES

1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF ALL NECESSARY PERMITS AND BONDS.
2. SEE MASTER CONSTRUCTION SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

STORAGE

1. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

CLEANUP

1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCRAPFOLDING AND SUPPLIES MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY TO USE.
2. EXTERIOR:
 - A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
 - B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
 - C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.
3. INTERIOR:
 - A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER FROM WALLS, FLOOR, AND CEILING.
 - B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
 - C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM FINISHED SURFACES.

CHANGE ORDER PROCEDURE

1. REFER TO SECTION 17 OF SIGNED MSA. SEE PROFESSIONAL SERVICE AGREEMENT FOR MSA.

RELATED DOCUMENTS AND COORDINATION

1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE INTERRELATED. IN PERFORMANCE OF THE WORK, THE CONTRACTOR MUST REFER TO ALL DRAWINGS, ALL COORDINATION TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. SHOP DRAWINGS
1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR APPROVAL.
2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER.

PRODUCTS AND SUBSTITUTIONS

1. SUBMIT 3 COPIES OF EACH REQUEST FOR SUBSTITUTION. IN EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION. INCLUDE RELATED SPECIFICATION SECTION AND DRAWING NUMBERS AND COMPLETE DOCUMENTATION SHOWING COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS.
2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS, PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LEU OF CUT SHEETS.

QUALITY ASSURANCE

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE, BUT NOT BE LIMITED TO THE APPLICABLE CODES SET FORTH BY THE LOCAL GOVERNING BODY. SEE "CODE COMPLIANCE" 1-1.

ADMINISTRATION

1. BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN 3 DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF EACH MAJOR CATEGORY OR UNIT OF WORK TO BE PERFORMED AT THE SITE. PROGRESS CHARTS AND COORDINATION WITH OTHER SUBMITTALS IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTITUTIONS.
3. PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS MEETING SHALL INCLUDE, BUT NOT BE LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, LAND OWNER REPRESENTATIVE, LOCAL TELEPHONE COMPANY, TOWER ERECTION FOREMAN (IF SUBMITTED).
4. CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE, OR A BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
5. DURING CONSTRUCTION, CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. CONTRACTOR WILL COMPLY WITH ALL WEPS SAFETY REQUIREMENTS IN THEIR AGREEMENT.
6. PROVIDE WRITTEN DAILY UPDATES ON SITE PROGRESS TO THE OWNER.
7. COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO START OF CONSTRUCTION. B. NOTIFY THE OWNER/PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.

INSURANCE AND BONDS

1. CONTRACTOR, AT THEIR OWN EXPENSE, SHALL CARRY AND MAINTAIN, FOR THE DURATION OF THE PROJECT, ALL INSURANCE, AS REQUIRED AND LISTED, AND SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGE TO THE OWNER. REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.
2. THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
3. CONTRACTOR MUST PROVIDE PROOF OF INSURANCE.

ABBREVIATIONS

- | | |
|-----------------|-------------------------------|
| ADU | ADJUSTABLE |
| AGL | ABOVE GROUND LINE |
| & | AND |
| APPROX | APPROXIMATE |
| BAR | REINFORCING BAR |
| BMS | BEST TRANSMISSION STATION |
| CBS | CENTRAL |
| CLG | CEILING |
| CONC | CONCRETE |
| CONT | CONTINUOUS |
| Ø | DIAMETER |
| DRWG | DRAWING |
| EACH | EACH |
| ELEC | ELECTRICAL |
| ELEV | ELEVATION |
| EQ | EQUAL |
| EQUIP | EQUIPMENT |
| EXT | EXTENDING |
| EXT | EXTENDING |
| FINISHED FLOOR | FINISHED FLOOR |
| GA | GALVANIZED |
| GALV | GALVANIZED |
| GC | GENERAL CONTRACTOR |
| LG | LONG |
| MECH | MECHANICAL |
| MW | MECHANICAL |
| MFR | MANUFACTURER |
| MGB | MASTER GROUND BAR |
| MIN | MINIMUM |
| MTL | METAL |
| NEW | NEW |
| NOT IN CONTRACT | NOT IN CONTRACT |
| NIS | NOT TO SCALE |
| OC | ON CENTER |
| OPP | OPPOSITE |
| (P) | PROPOSED |
| PCS | PERSONAL COMMUNICATION SYSTEM |
| PPC | POWER PROTECTION CABINET |
| SF | SQUARE FOOT |
| SHT | SHEET |
| SHM | SIMILAR |
| SS | STAINLESS STEEL |
| STL | STEEL |
| TOP OF CONCRETE | TOP OF CONCRETE |
| TOP OF MASONRY | TOP OF MASONRY |
| TPP | TRYPICAL |
| UN | UNLESS OTHERWISE NOTED |
| WVF | WELDED WIRE FABRIC |

Mobile

1-MOBILE NORTHEAST, LLC

35 GREENFIELD ROAD SOUTH
GREENFIELD, CT 06032
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**

PROUP

DATE	DESCRIPTION	REVISION
01/29/15	ISSUED FOR REVIEW	A
02/23/15	REVISION	B
04/29/15	FINAL CD	0

DEPT.	DATE	APP'D	REVISIONS
REVISION			
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REVISION			

PROJECT NO.:	CT11197A
DRAWN BY:	MB
CHECKED BY:	SM



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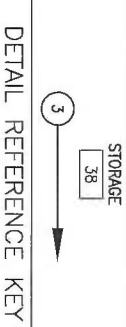
SITE NAME
CT11197A

SITE NAME
**302 BALL POND ROAD
NEW FAIRFIELD, CT
06812**

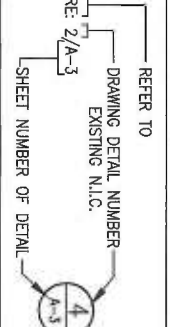
SHEET TITLE
**GENERAL
AND ELECTRICAL
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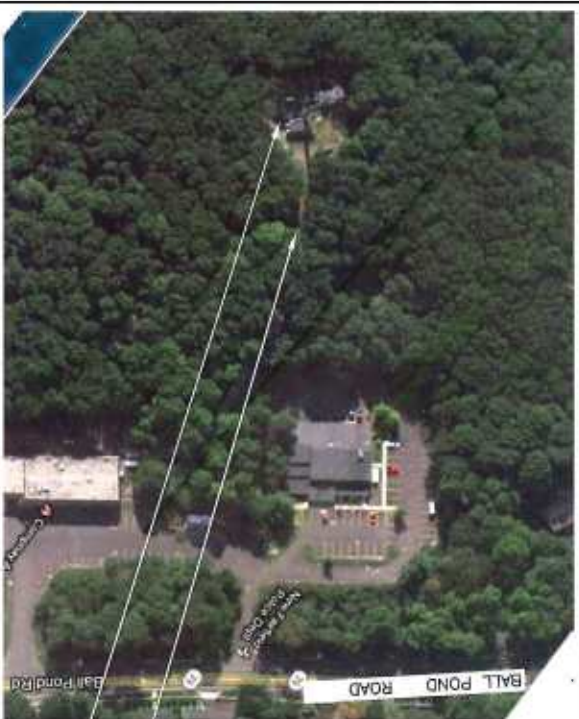
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N-1

ARCHITECTURAL SYMBOLS



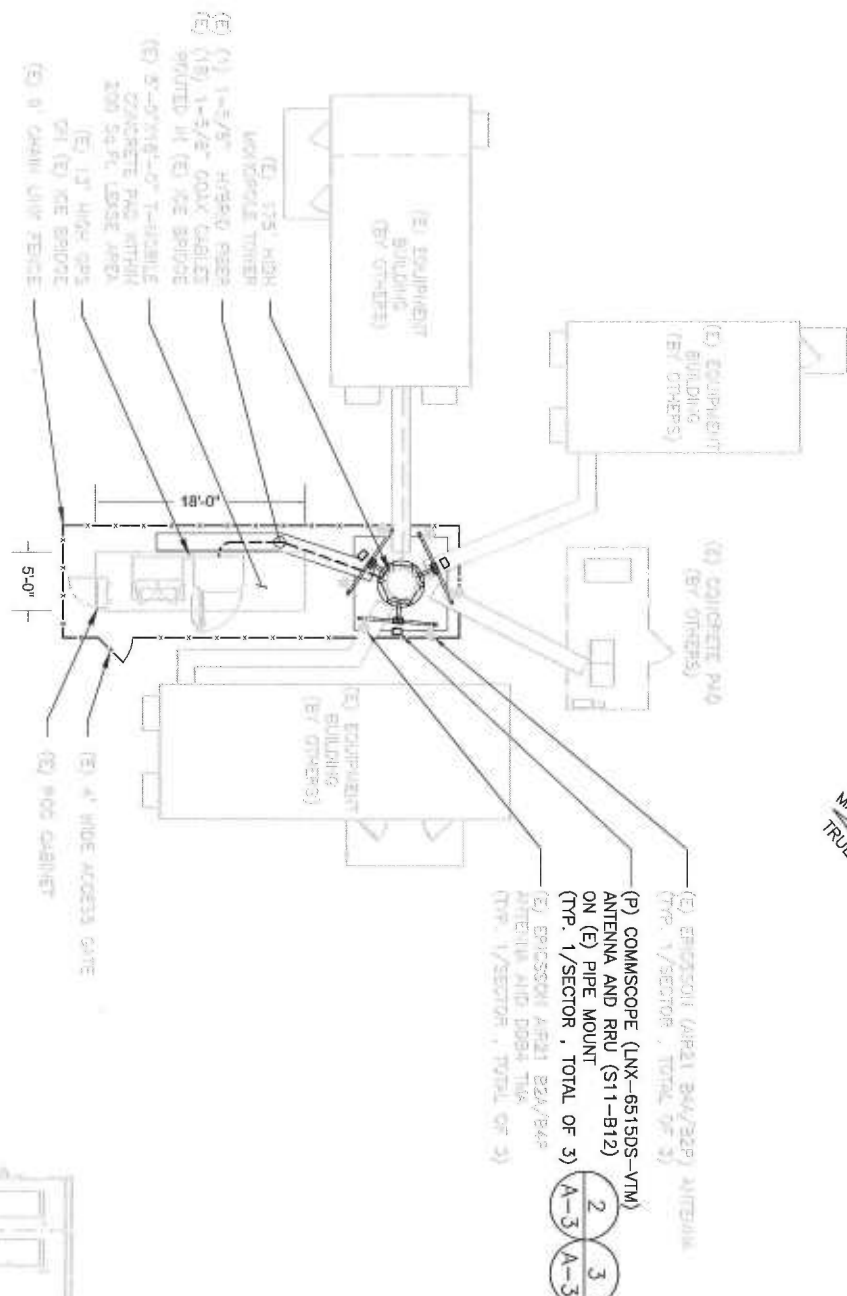
DETAIL REFERENCE KEY





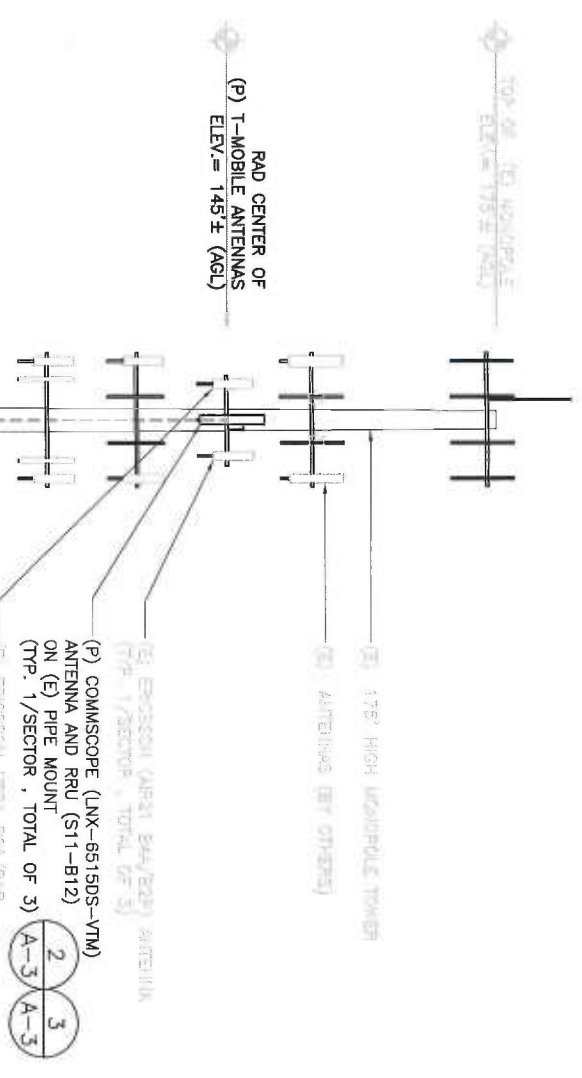
KEY PLAN

SCALE: N.T.S.



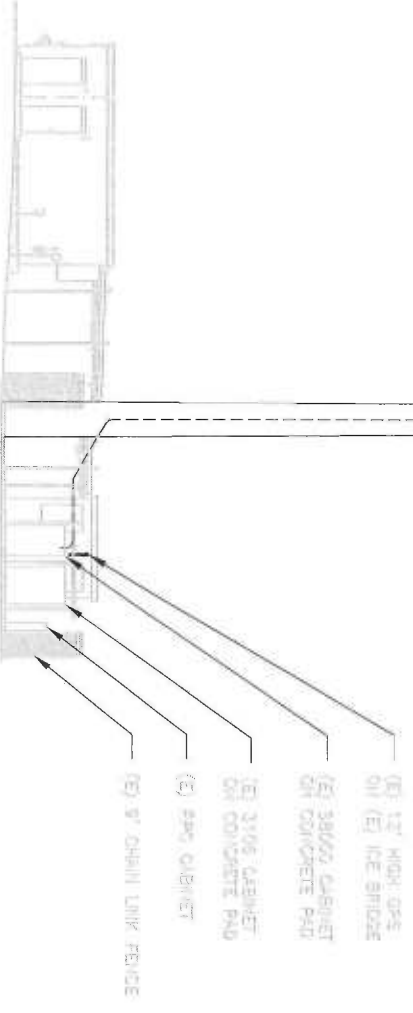
SITE PLAN

SCALE: 1/16" = 1'-0" (11X17)
1/8" = 1'-0" (24X36)



ELEVATION

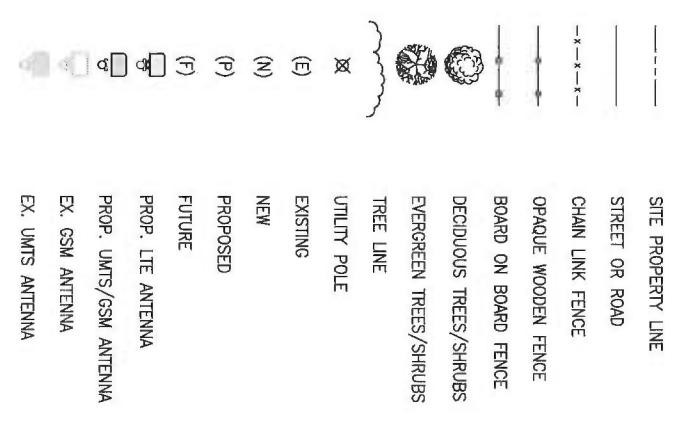
SCALE: N.T.S.



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 EXTENT AND EXACT HORIZONTAL AND VERTICAL LOCATIONS OF UTILITIES HAS NOT BEEN VERIFIED. ANY CONTRACTOR PERFORMING WORK ON THIS SITE MUST 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



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

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

DATE	DESCRIPTION	REVISION
01/24/15	ISSUED FOR REVIEW	A
02/24/15	FINAL	0
04/29/15	FINAL CD	1

DEPT.	DATE	APPRO.	REVISIONS
RF. MGR.			
ZONING			
CONSULT.			
SITE AS.			

PROJECT NO.: CT11797A
DRAWN BY: MB
CHECKED BY: SM

STATE OF CONNECTICUT
REGISTERED ARCHITECT
PROFESSIONAL SEAL

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SITE NAME
CT11797A
SITE NAME
CT1797/NEW FAIRFIELD MP
SITE ADDRESS
302 BALL POND ROAD
NEW FAIRFIELD, CT
06812

SHEET TITLE
SITE PLAN
AND
ELEVATION

SHEET NUMBER
A-1



T-MOBILE NORTHEAST, LLC
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 BLOOMFIELD, CT 06002
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04/29/15	FINAL CD	1

DEPT.	DATE	APP'D	REVISIONS
RF	MM/DD		
ZONING			
CONS.			
SITE AC.			

PROJECT NO: CT11797A
 DRAWN BY: MB
 CHECKED BY: SM

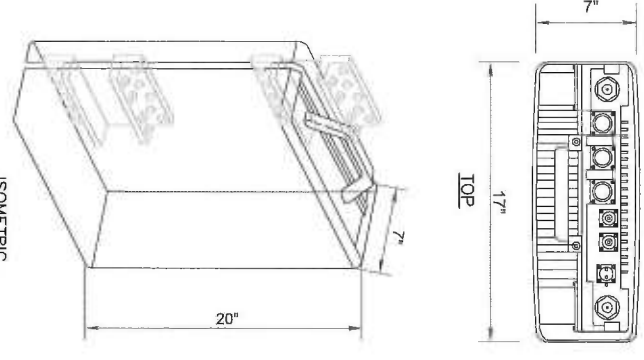


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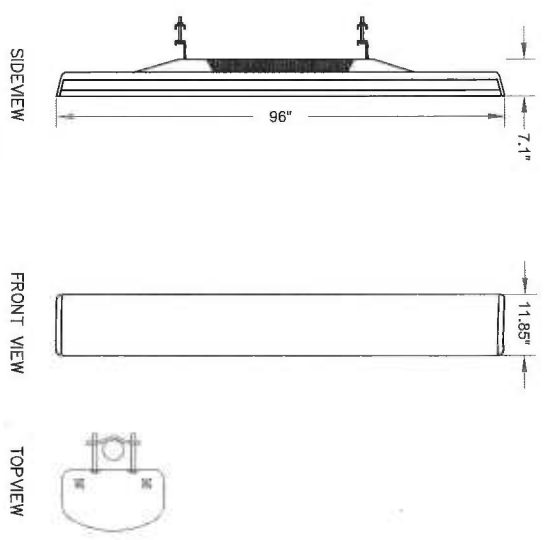
SITE NAME
CT11797A
 SITE NAME
 CT1797/NEW FAIRFIELD MP
 SITE ADDRESS
 302 BALL POND ROAD
 NEW FAIRFIELD, CT
 06812

SHEET TITLE
 ANTENNA PLAN
 AND
 DETAILS

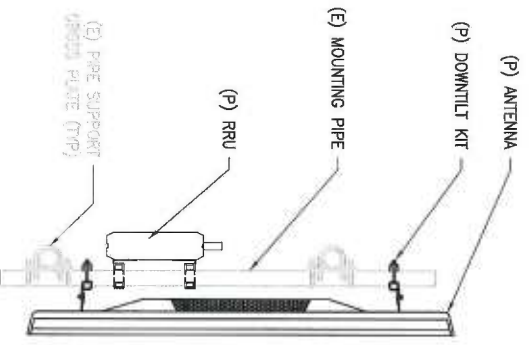
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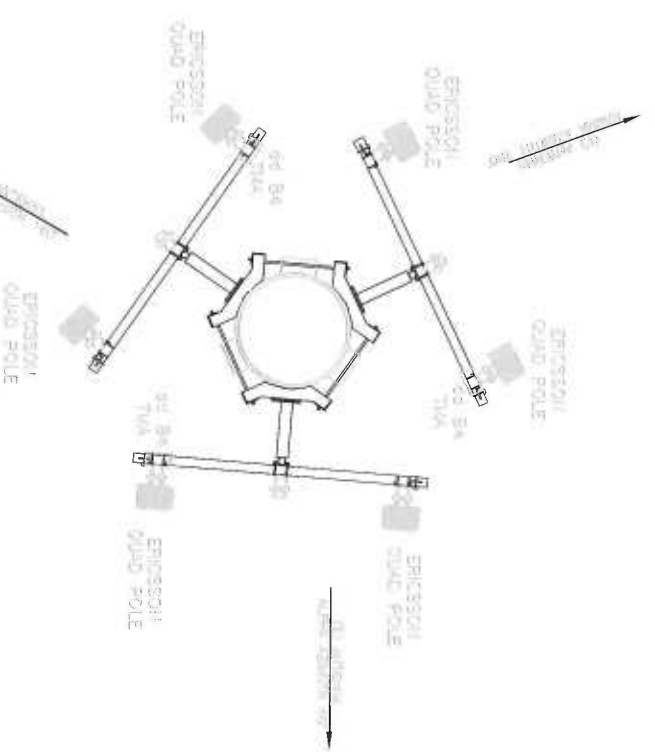
RRUS 11 B12 DETAILS
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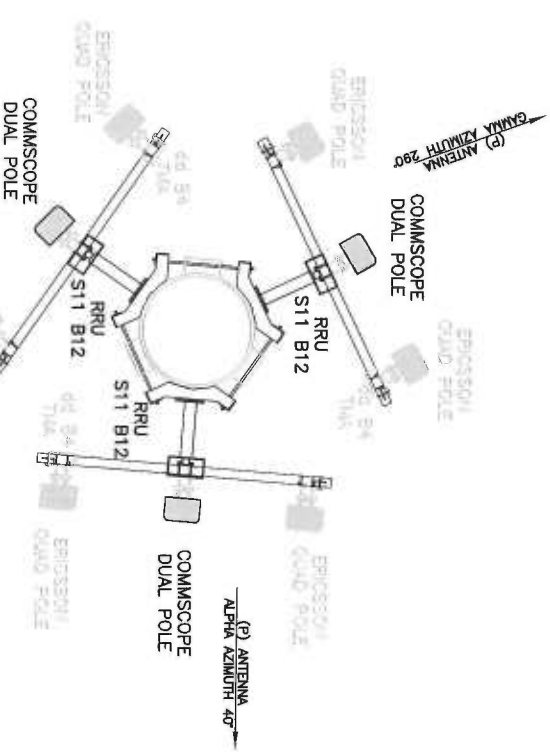
COMMSCOPE ANTENNA DETAIL
 SCALE: N.T.S. 2 A-3



ANTENNA MOUNT DETAIL
 SCALE: N.T.S. 4 A-3



EXISTING ANTENNA



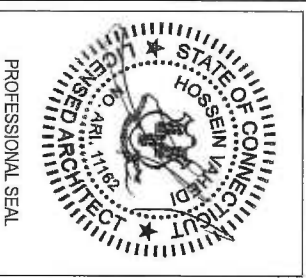
PROPOSED ANTENNA

ANTENNA PLAN
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DATE	DESCRIPTION	REVISION
01/24/15	ISSUED FOR REVIEW	A
04/29/15	REVISION	B
04/29/15	FINAL CD	0

DEPT.	DATE	APPRO	REVISIONS
RF			
RF MGR			
ZONING			
OPS			
CONSTR.			
SITE AC.			

PROJECT NO.: CT11797A
 DRAWN BY: MB
 CHECKED BY: SM

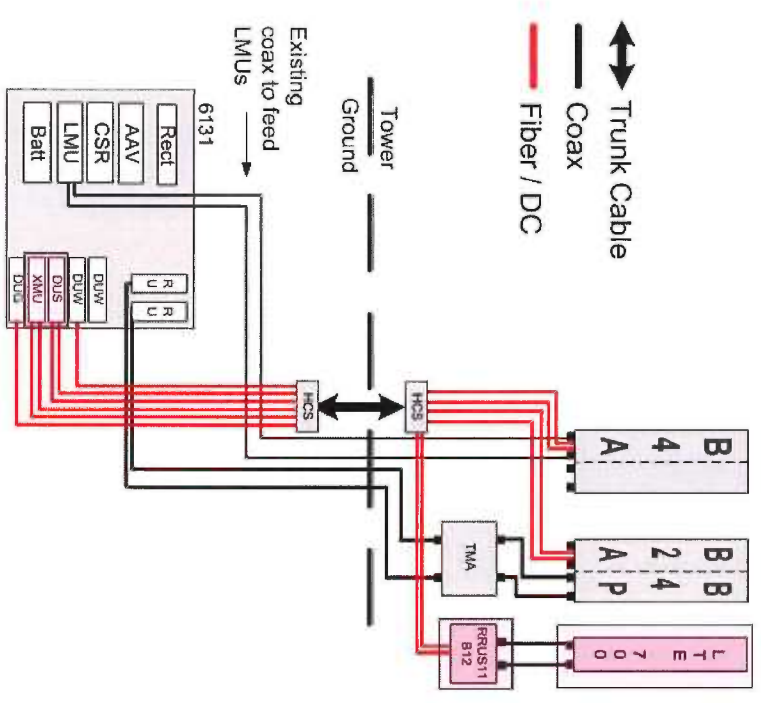


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SITE NAME
CT11797A
 SITE NAME
 CT1797/NEW FAIRFIELD MP
 SITE ADDRESS
 302 BALL POND ROAD
 NEW FAIRFIELD, CT
 06812

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 UNDE MOVEMENT DURING HOISTING BY SECURING THE PROTECTIVE TUBE (WITH OUTER SOCK) TO THE HOISTING LINE.
 6. DURING HOISTING ENSURE THAT THERE IS A FREE PAIR AND THAT THE CABLE, AND ESPECIALLY THE FIBER ENDS, WILL NOT BE SWAGGED ON TOWER MEMBERS OR OTHER OBSTACLES.
 7. INSTALLATION TEMPERATURE RANGE IS -22F TO 158F (-30C TO +70C).
 8. MINIMUM CABLE BEND RADI ARE 222" (565MM) LOADED (WITH TENSION ON THE CABLE) AND 111" (28MM) UNLOADED.
 9. MAXIMUM CABLE TENSILE LOAD IS 3550 LB (800 LB) SHORT TERM (DURING INSTALLATION) AND 1070 LB (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 RADI 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

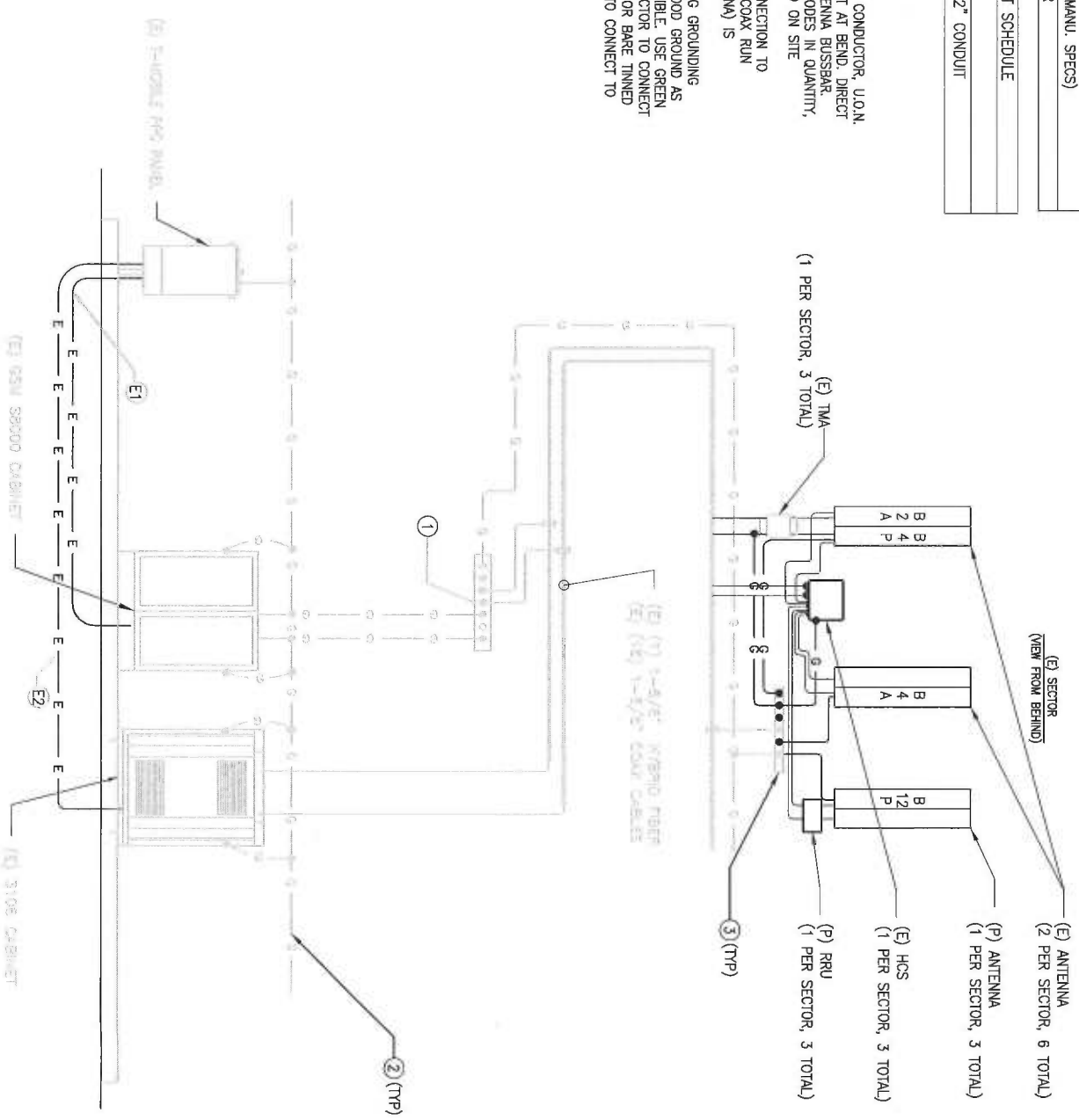
GROUNDING SCHEDULE

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

CONDUIT SCHEDULE

E1	(E) POWER CONDUIT
E2	(E) 3#6+1#8G IN (E) 2" CONDUIT

- NOTES:**
- A. PROVIDE #2AWG GROUNDING CONDUCTOR, U.O.N.
 - B. DO NOT INSTALL GROUND KIT AT BEND, DIRECT GROUND WIRE DOWN TO ANTENNA BUSSBAR.
 - C. PROVIDE GROUNDING ELECTRODES IN QUANTITY, TYPE AND SIZE AS INDICATED ON SITE GROUNDING PLAN.
 - D. ADD COAX GROUND KIT CONNECTION TO BUSSBAR WHEN LENGTH OF COAX RUN (FROM EQUIPMENT TO ANTENNA) IS GREATER THAN 20'-0".
 - E. GROUNDING 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.



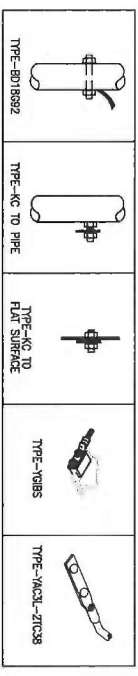
GROUNDING DIAGRAM
 SCALE: N.T.S.

1
 E-1

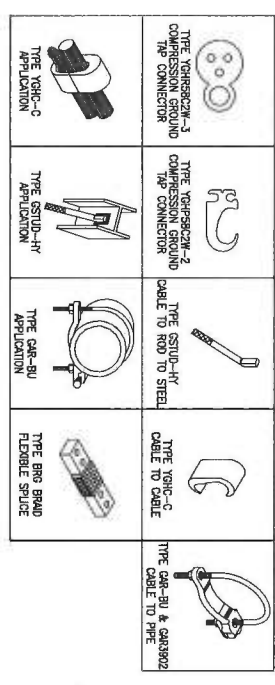
702Cu CONFIGURATION
COAX/FIBER PLUMBING DIAGRAM

SCALE: N.T.S.

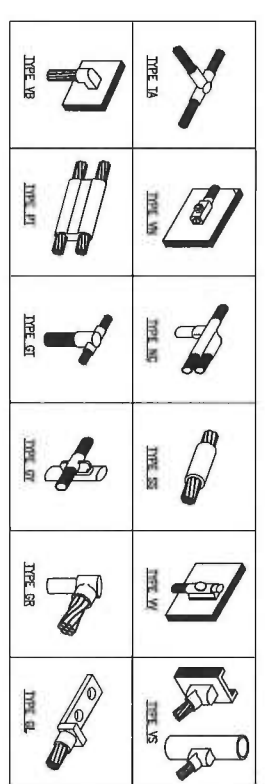
2
 E-1



BURNDY GROUNDING DETAILS
SCALE: N.T.S. 1
E-2



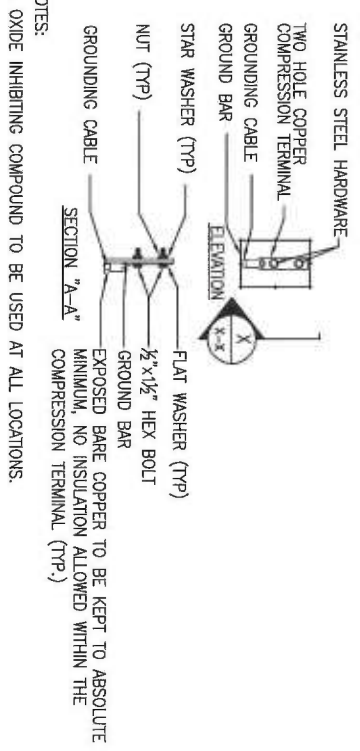
BURNDY GROUNDING PRODUCTS
SCALE: N.T.S. 2
E-2



CADWELD GROUNDING CONNECTION PRODUCTS
SCALE: N.T.S. 3
E-2

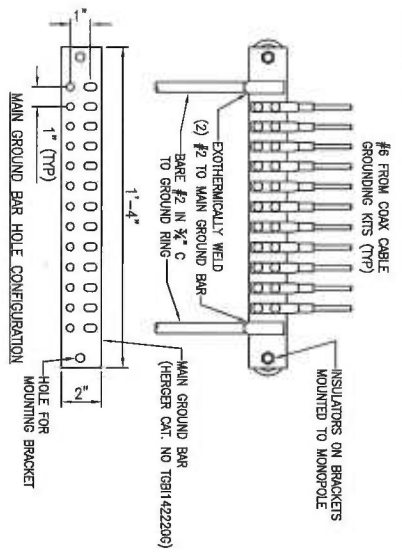
TERMINATION TYPES: A. MECHANICAL COMPRESSION LUG B. DOUBLE BARREL COMPRESSION CONNECTOR C. EXOTHERMIC TERMINATION D. BEAM CLAMP	SOLID #2 TINNED COPPER		#6 GROUND LEAD		#2/0 STRANDED MAIN DOWN CONDUCTOR		MASTER GRND BAR		STRUCTURAL OR TOWER STEEL		BLDG SERVICE ENTR OR GRND RING	
	B OR C	B OR C	B OR C	B OR C	A, C, OR D	A, C, OR D	A, C, OR D	A, C, OR D	A, C, OR D	A, C, OR D	A, C, OR D	C
SOLID #2 TINNED COPPER												
#6 GROUND LEAD												
#2/0 STRANDED MAIN DOWN CONDUCTOR												
MASTER GROUND BAR												
STRUCTURAL OR TOWER STEEL												
GROUND RING												

GROUNDING TERMINATION MATRIX
SCALE: N.T.S. 7
E-2

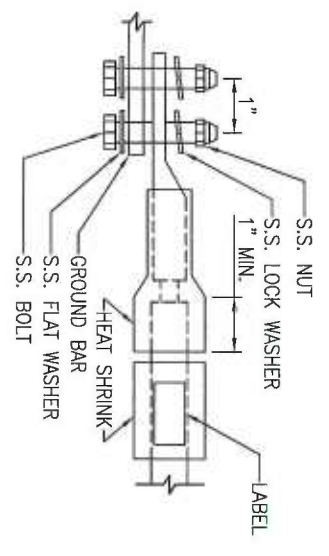


TYPICAL GROUND BAR CONNECTIONS DETAIL
SCALE: N.T.S. 4
E-2

- NOTES:**
1. ALL HARDWARE STAINLESS STEEL COAT ALL SURFACES WITH KORP-SHIELD BEFORE MATING.
 2. FOR GROUND BOND TO STEEL ONLY: INSERT A TOOTH WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH KORP-SHIELD.
 3. ALL HOLES ARE COUNTERSUNK $\frac{1}{8}$ ".



GROUND BAR DETAIL
SCALE: N.T.S. 5
E-2



GROUND BAR DETAIL
SCALE: N.T.S. 6
E-2

- LUG NOTES:**
1. ALL HARDWARE IS 18-8 STAINLESS STEEL, INCLUDING LOCK WASHERS.
 2. ALL HARDWARE SHALL BE S.S. $\frac{3}{8}$ " 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.

T-Mobile Northeast, LLC
35 GREEN ROAD SOUTH
BLOOMFIELD, CT 06002
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FAX: (860) 692-7159

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

DATE	DESCRIPTION	REVISION
01/29/15	ISSUED FOR REVIEW	A
02/24/15	REVISION	B
04/29/15	FINAL CD	1

DEPT.	DATE	APPRO	REVISIONS
REF. MAN.			
ZONING			
CONS.			
SITE NO.			

PROJECT NO.: CT11797A
DRAWN BY: MB
CHECKED BY: SM

STATE OF CONNECTICUT
REGISTERED ARCHITECT
PROFESSIONAL SEAL

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SITE NAME
CT11797A
SITE NAME
CT1797/NEW FAIRFIELD MP
SITE ADDRESS
302 BALL POND ROAD
NEW FAIRFIELD, CT
06812

SHEET NUMBER
E-2

SHEET NUMBER
E-2

NOTES:

GENERAL:

1. THE MODIFICATIONS OUTLINED IN THESE DOCUMENTS WERE DESIGNED IN ACCORDANCE WITH ANS/TIA-222-6 AND ACI 305.2 CODES.
2. ALL CONSTRUCTION METHODS SHOULD FOLLOW STANDARDS OF GOOD CONSTRUCTION PRACTICE.
3. ALL WORK INDICATED ON THESE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TOWER AND FOUNDATION CONSTRUCTION.
4. THE CONTRACTOR SHOULD NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY INSTALLATION INTERFERENCES. ALL NEW WORK SHALL ACCOMMODATE EXISTING CONDITIONS.
5. ANY CHANGES OR ADDITIONS MUST CONFORM TO THE REQUIREMENTS OF THESE NOTES AND SPECIFICATIONS, AND SHOULD BE SIMILAR TO THOSE SHOWN. ALL CHANGES OR ADDITIONS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
6. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND EXECUTION OF ALL MISCELLANEOUS SHORING, BRACING, TEMPORARY SUPPORTS, ETC. NECESSARY, PER TIA-1019-A-2011, TO PROVIDE A COMPLETE AND STABLE STRUCTURE AS SHOWN ON THESE DRAWINGS.
7. CONTRACTORS PROPOSED INSTALLATION SHALL NOT INTERFERE, NOR DENY ACCESS TO, ANY EXISTING OPERATIONAL AND SAFETY EQUIPMENT.
8. ALL FIELD CUT SURFACES, FIELD DRILLED HOLES & GROUND SURFACES WHERE EXISTING PAINT OR GALVANIZATION REMOVAL WAS REQUIRED SHALL BE REPAIRED WITH (2) BRUSHED COATS OF ZINC GALVANITE COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURERS RECOMMENDATIONS.
9. ALL FIELD DRILLED HOLES TO BE USED FOR FIELD BOLTING INSTALLATION SHALL BE STANDARD HOLES, AS DEFINED BY AISC, UNLESS NOTED OTHERWISE.
10. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS PRIOR TO ANY FABRICATION. CONTACT INFINIGY ENGINEERING IF ANY DISCREPANCIES EXIST.

STEEL CONSTRUCTION:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC MANUAL OF STEEL CONSTRUCTION 14TH EDITION, FOR THE DESIGN AND FABRICATION OF STEEL COMPONENTS.
2. ALL EXTERIOR STEEL WORK SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
3. ALL WELDING SHALL BE DONE USING E60XX ELECTRODES.
4. ALL WELDING SHALL CONFORM TO AISC AND AWS D1.1 LATEST EDITION.
5. BOLTS SHALL BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.

CONCRETE:

1. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH, FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR IS NOT PERMITTED.

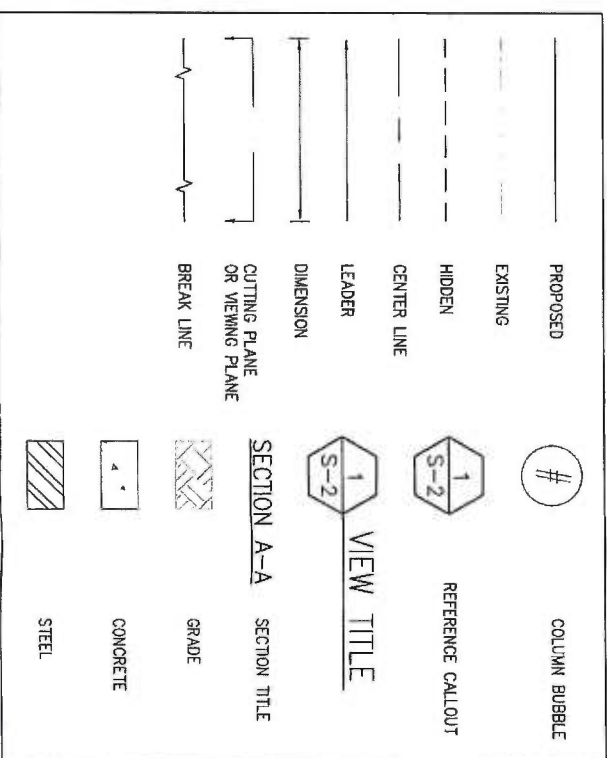
PLUMB & TENSION:

1. PLUMB AND TENSION TOWER UPON COMPLETION OF STRUCTURAL MODIFICATIONS DETAILED IN THESE DRAWINGS.
2. RETENSIONING OF EXISTING GUY WIRES SHALL BE PERFORMED AT A TIME WHEN THE WIND VELOCITY IS LESS THAN 10 MPH AT GROUND LEVEL AND WITH NO ICE ON THE STRUCTURE AND GUY WIRES.
3. PLUMB THE TOWER WHILE RETENSIONING THE EXISTING GUY WIRES. THE HORIZONTAL DISTANCE BETWEEN THE VERTICAL CENTERLINES AT ANY TWO ELEVATIONS SHALL NOT EXCEED 0.25% OF THE VERTICAL DISTANCE BETWEEN TWO ELEVATIONS (EX. DO NOT EXCEED .6" FOR 20' OF VERTICAL DISTANCE)
4. THE TWIST BETWEEN ANY TWO ELEVATIONS SHALL NOT EXCEED .5 DEGREES IN 10 FEET. THE MAXIMUM TWIST OVER THE STRUCTURE HEIGHT SHALL NOT EXCEED 5 DEGREES.
5. SEE "GUY WIRE RETENSIONING AND STANDARD SAFETY WIRE DETAILS" SHEET FOR ACCEPTABLE GUY WIRE TERMINATION EXTENSION, IF REQUIRED.

STRUCTURAL ABBREVIATIONS:

⊙	AT	ANCHOR BOLT	∠	ANGLE
AB	ALTERNATE APPROXIMATE	LG	LENGTH OF CHORD	
ALT	ALTERNATE APPROXIMATE	LNG	LONG, LENGTH	
APPROX	APPROXIMATE	LH	LONG, LEG HORIZONTAL	
		LTV	LONG LEG VERTICAL	
		LOC	LOCATE, LOCATION	
		LP	LOW POINT	
BM	BEAM	MATL	MATERIAL	
BOT	BOTTOM	MAX	MAXIMUM	
BRG	BEARING	MECH	MECHANICAL	
		MIN	MINIMUM	
		MISC	MISCELLANEOUS	
CLR	CLEAR	NA	NOT APPLICABLE	
CONC	CONCRETE	NEC	NECESSARY	
CONT	CONTINUOUS	NF	NEAR FACE	
CONT'D	CONTINUED	NI	NOT IN CONTRACT	
CTR	CENTERED	NO	NUMBER	
		NS	NEAR SIDE	
		NIS	NOT TO SCALE	
DA	DIAMETER	OC	ON CENTER	
DIAG	DIAGONAL	OD	OUTSIDE DIAMETER	
DIM	DIMENSION	OF	OUTSIDE FACE	
DIST	DISTANCE	OPG	OPENING	
DN	DOWN	OPNG	OPENING	
do	DITTO	OPP	OPPOSITE	
		OS	OTHERWISE SPECIFIED	
EA	EACH FACE	PCS	PIECES	
EF	EXTRA HIGH STRENGTH	PERP	PERPENDICULAR	
EHS	ELEVATION	PL	PLATE, PROPERTY LINE	
EL	ELEVATION	PSF	POUNDS PER SQUARE FOOT	
EMBED	EMBEDDED, EMBEDMENT	PSI	POUNDS PER SQUARE INCH	
ENCL	ENCLOSURE	PT	POINT	
ENGR	ENGINEER	QC	QUALITY CONTROL	
EQ	EQUAL	QUAL	QUALITY	
EQUIP	EQUIPMENT	R	RADIUS	
ES	EACH SIDE	RENF	REINFORCEMENT, REINFORCING	
EST	ESTIMATED	REOD	REVISION	
EW	EACH WAY	REV	REVISION	
EXIST	EXISTING	SCHED	SCHEDULE	
EXT	EXTERIOR	SP	SPACED, SPACES, SPACING	
FAB	FABRICATE	SPEC	SPECIFICATION	
FIN	FINISHED	SQ	SQUARE	
FND	FOUNDATION	SQFT	SQUARE FEET	
FS	FAR SIDE	STD	STANDARD	
FT	FEET	STRUCT	STRUCTURAL	
FTG	FOOTING	SUB	SUBSTITUTE	
		T&B	TOP & BOTTOM	
		THD	TOP OR THREADED	
		THK	THICK	
		TP	TYPICAL	
		UNO	UNLESS NOTED OTHERWISE	
ID	INSIDE DIAMETER	VERT	VERTICAL	
IN	INCH, INCHES	W/	WITH	
INCL	INCLUDE, INCLUDING	W/O	WITHOUT	
INFO	INFORMATION	WP	WORKING POINT	
IT	INITIAL TENSION	YS	YIELD STRENGTH	
KSI	KIP (1000 LBS)			

STRUCTURAL SYMBOLS



Mobile
 FROM ZERO TO INFINIGY
 the solutions are endless
 1033 WATERVLIET SHAKER ROAD
 SOUTH BLOOMFIELD, CT 06033
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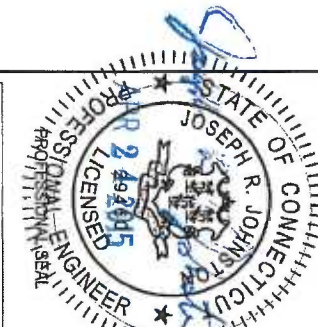
SUBMITTALS

DATE	DESCRIPTION	REVISION
4/24/15	DESIGN FOR REVIEW	0

REVISIONS

DEPT	DATE	APPROV	REVISIONS
BET			
RF			
ZONING			
OPS			
CONSTR			
SITE AC			

PROJECT NO: 379-018
 DRAWN BY: VEB
 CHECKED BY: JRI



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NOTE: IF DRAWINGS ARE 27"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.

SITE NAME
 CT111797A
 32 BALL POND RD (RTE 38)
 NEW FAIRFIELD, CT

SHEET TITLE
 NOTES
 SHEET NUMBER
 S1
 SHEET OF 2 SHEETS

EXHIBIT B

Post-Mod Tower Analysis Report

April 24, 2015

Site Name	CT11797A
Infinigy Job Number	379-016
Client	Northeast Site Solutions
Proposed Carrier	T-Mobile
Site Location	302 Ball Pond Road, New Fairfield, CT 06812 41° 27' 53.1" N NAD83 73° 29' 49.02" W NAD83
Structure Type	175' Monopole
Structural Usage Ratio	93.2%
Overall Result	Pass

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements with the modifications listed below installed. The tower and foundations are therefore deemed adequate to support the existing and proposed loading as listed in this report.

- Considered the installation of (4) Williams R71 1-3/4" 150 KSI All-Thread-Bars with 30" connector spacing from 0'-5'
- Considered the installation of (4) Williams R7S 1-7/8" 150 KSI Spin-Lock anchors at the base of the pole



Joseph R. Johnston, P.E.
Department Manager - Structural

Contents

Introduction.....	3
Supporting Documentation.....	3
Analysis Code Requirements.....	3
Conclusion.....	3
Existing and Reserved Loading.....	4
Proposed Loading.....	4
Structure Usages.....	4
Foundation Reactions.....	5
Deflection, Twist, and Sway.....	5
Assumptions and Limitations.....	5
Calculations.....	Appended

Introduction

Infinigy Engineering has been requested to perform a post modification structural analysis on the existing 175' monopole. All supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. Proposed modifications have been designed by Infinigy Engineering as listed in this report. The tower was analyzed using tnxTower version 6.1.3.1 tower analysis software.

Supporting Documentation

Previous Analysis	AECOM Job #36931429.00001, dated March 6, 2015
--------------------------	--

Analysis Code Requirements

Wind Speed	85 mph (Fastest-Mile)
Wind Speed w/ ice	75 mph (Fastest-Mile) w/ 1/2" ice
TIA Revision	ANSI/TIA/EIA-222-F
Adopted IBC	2003 IBC w/ 2005 CT Supplements & 2013 CT Amendments

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the modified structure meets the specified TIA code requirements. The tower and foundations are therefore deemed adequate to support the existing and proposed loading as listed in this report.

If you have any questions, require additional information, or actual conditions differ from those as detailed in this report please contact me via the information below:

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jjohnston@infinigy.com | www.infinigy.com

Tower Analysis Report

April 24, 2013

Existing and Reserved Loading

Mount Height (ft)	Qty.	Appurtenance	Mount Type	Coax& Lines	Carrier
175.0	4	Celwave PD220	Platform	(4) 1-5/8" (2) 1/2"	Town
	1	1' Square Panel			
	1	2' Dish w/ Radome			
155.0	2	EMS RR65-18-02DTR	Platform	(4) 1-1/4" Hybrid	Sprint
	1	EMS RR45-19-02DPL			
	1	RFS APXVSPP18-C-A20			
	2	Powerwave P40-16-XLPP-RR			
	3	APXVTM14-G120			
	3	TDRRH8x20-25 RRH			
	3	ALU 1900 MHz RRH			
145.0	3	Ericsson AIR 21 B2A/B4P	T-Arms	(18) 1-5/8" (1) Hybrid	T-Mobile
	3	Ericsson AIR B4A/B2P			
	3	TMA			
135.0	6	Powerwave 7770	T-Arms	(12) 1-5/8" (1) Fiber Optic (2) DC Cables	AT&T
	3	Powerwave P65-17-XLH-RR			
	6	TMA			
	6	Diplexers			
	6	RCU Units			
	6	RRH Units			
	1	Surge Suppressor Unit			
125.0	6	Antel BXA-171085/12	Standoff	(18) 1-5/8" (1) Hybrid	Verizon
	6	Antel LPA-80080/6			
	3	Antel BXA-70063/6			
	3	RRH Units			
	1	Surge Suppressor Unit			
100.0	1	PD-220 Omni Antenna	Standoff	(1) 1-5/8"	Unknown
50.0	3	GPS Units	Standoff	(1) 1-5/8"	

Proposed Loading

Mount Height (ft)	Qty.	Appurtenance	Mount Type	Coax& Lines	Carrier
145.0	3	Andrew LNX-6515DS-VTM	--	--	T-Mobile
	3	Ericsson RRUS-11			

Structure Usages

Pole	93.2	Pass
Reinforcing	89.6	Pass
Anchor Bolts	73.9	Pass
Base Plate	76.2	Pass
RATING =	93.2	Pass

April 24, 2013

Foundation Reactions

Reaction Data	Design Reactions	Analysis Reactions	Result
Moment (kip-ft)	N/A	4509.6	N/A
Shear (kip)	N/A	37.5	N/A
Axial (kip)	N/A	48.8	N/A

-Tower base reactions are acceptable per rigorous structural analysis

Deflection, Twist, and Sway

Antenna Elevation (ft)	Deflection (in)	Twist (°)	Sway (°)
145.0	36.5	0.03	2.34

*Per ANSI/TIA-222-G Section 2.8.2 maximum serviceability structural deflection limit is 3% of structure height.

*Per ANSI/TIA-222-G Section 2.8.2 maximum serviceability structural twist and sway limit is 4 degrees.

*Per ANSI/TIA-222-G Section 2.8.3 deflection, Twist, and sway values were calculated using a basic 3-second gust wind speed of 60 mph.

*It is the responsibility of the client to ensure their proposed and/or existing equipment will meet ANSI/TIA-222-G Annex D or other appropriate microwave signal degradation limits based on the provided values above.

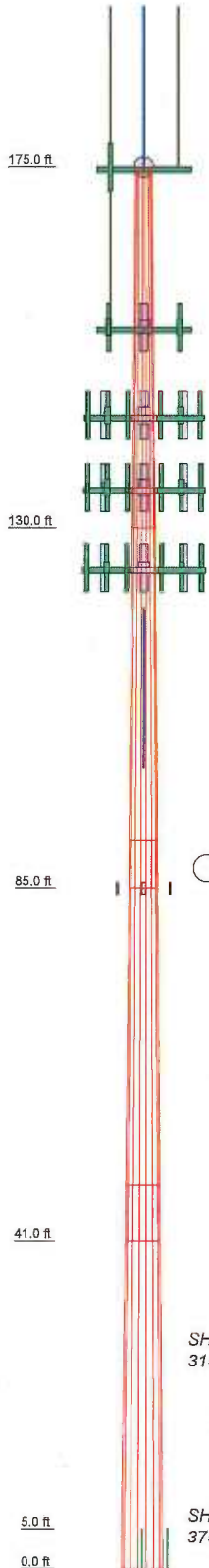
Assumptions and Limitations

Our structural calculations are completed assuming all information provided to Infinigy Engineering is accurate and applicable to this site. For the purposes of calculations, we assume an overall structure condition of “like new” and all members and connections to be free of corrosion and/or structural defects. The structure owner and/or contractor shall verify the structure’s condition prior to installation of any proposed equipment. If actual conditions differ from those described in this report Infinigy Engineering should be notified immediately to complete a revised evaluation.

Our evaluation is completed using standard TIA, AISC, ACI, and ASCE methods and procedures. Our structural results are proprietary and should not be used by others as their own. Infinigy Engineering is not responsible for decisions made by others that are or are not based on our supplied assumptions and conclusions.

This report is an evaluation of the tower structure only and does not reflect adequacy of any existing antenna mounts, mount connections, or coax mounting attachments. These elements are assumed to be adequate for the purposes of this analysis and are assumed to have been installed per their manufacturer requirements.

Section	1	2	3	4
Length (ft)	45.00	50.00	50.00	48.00
Number of Sides	18	18	18	18
Thickness (in)	0.2500	0.3130	0.3750	0.3750
Socket Length (ft)	5.00	6.00	7.00	52.0923
Top Dia (in)	24.0000	33.0004	42.6695	64.5000
Bot Dia (in)	34.6880	44.6880	54.5000	112.60.4
Grade	A572-65			
Tube Length (ft)	5.00			
Reinf Size	A			
Reinf Grade	A			
Weight (lb)	35935.1	6512.8	9761.9	31070.1



DESIGNED APPURTENANCE LOADING

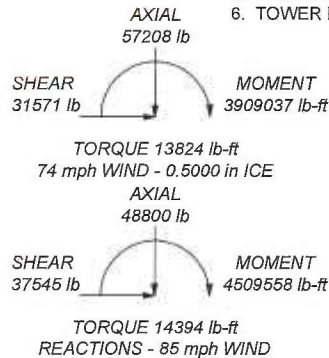
TYPE	ELEVATION	TYPE	ELEVATION
PD220 (Municipal)	175	(2) RA21-7770.00 (ATI)	135
PD220 (Municipal)	175	(2) RA21-7770.00 (ATI)	135
PD220 (Municipal)	175	(2) LGP21401 (ATI)	135
PD220 (Municipal)	175	(2) LGP21401 (ATI)	135
1' Square Panel (Municipal)	175	(2) LGP21401 (ATI)	135
Pipe Low Profile Platform (Municipal)	175	TTA (ATI)	135
2.5' Dish w/ Radome (Municipal)	175	TTA (ATI)	135
APXVTM14-C-120 (Sprint)	155	TTA (ATI)	135
APXVTM14-C-120 (Sprint)	155	Pipe T-Arm (ATI)	135
APXVSP18-C-A20 (Sprint)	155	Pipe T-Arm (ATI)	135
P40-16-XLPP-RR-A (Sprint)	155	Pipe T-Arm (ATI)	135
P40-16-XLPP-RR-A (Sprint)	155	P45-17-XLH-RR (ATI)	135
RR65-18-DP (Sprint)	155	P45-17-XLH-RR (ATI)	135
RR65-18-DP (Sprint)	155	P45-17-XLH-RR (ATI)	135
RR65-18-DP (Sprint)	155	RRUS-11 (ATI)	135
TD-RRH8X20 (Sprint)	155	RRUS-11 (ATI)	135
TD-RRH8X20 (Sprint)	155	RRUS-11 (ATI)	135
TD-RRH8X20 (Sprint)	155	DC8-48-60-18-8F (ATI)	135
800 MHz RRH (Sprint)	155	BXA-70063/6CF (Verizon)	125
800 MHz RRH (Sprint)	155	BXA-70063/6CF (Verizon)	125
800 MHz RRH (Sprint)	155	RRH2x40-07-U (Verizon)	125
1900MHz RRH (Sprint)	155	RRH2x40-07-U (Verizon)	125
1900MHz RRH (Sprint)	155	RRH2x40-07-U (Verizon)	125
1900MHz RRH (Sprint)	155	(2) Diplexer (Verizon)	125
Pipe Low Profile Platform (Municipal)	155	(2) Diplexer (Verizon)	125
APXVTM14-C-120 (Sprint)	155	(2) Diplexer (Verizon)	125
(2) AIR 21, 1.3 M, B2A B4P (T-Mobile)	144	ROC-4276-PF-48J (Verizon)	125
(2) AIR 21, 1.3 M, B2A B4P (T-Mobile)	144	Pipe T-Arm (Verizon)	125
TTA 18"x6"x6" (T-Mobile)	144	Pipe T-Arm (Verizon)	125
TTA 18"x6"x6" (T-Mobile)	144	Pipe T-Arm (Verizon)	125
TTA 18"x6"x6" (T-Mobile)	144	(2) LPA-80080/6CF (Verizon)	125
Pipe T-Arm (T-Mobile)	144	(2) LPA-80080/6CF (Verizon)	125
Pipe T-Arm (T-Mobile)	144	(2) LPA-80080/6CF (Verizon)	125
Pipe T-Arm (T-Mobile)	144	(2) BXA-171085/12CF (Verizon)	125
LNX-6515DS-VTM (T-Mobile)	144	(2) BXA-171085/12CF (Verizon)	125
LNX-6515DS-VTM (T-Mobile)	144	(2) BXA-171085/12CF (Verizon)	125
LNX-6515DS-VTM (T-Mobile)	144	BXA-70063/6CF (Verizon)	125
RRUS-11 (T-Mobile)	144	PD220 (Municipal)	100
RRUS-11 (T-Mobile)	144	Pipe Side Arm (Municipal)	100
RRUS-11 (T-Mobile)	144	GPS (Sprint)	85
(2) AIR 21, 1.3 M, B2A B4P (T-Mobile)	144	GPS (Sprint)	85
(2) RA21-7770.00 (ATI)	135	GPS (Sprint)	85

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi	Williams 150 KSI	120 ksi	150 ksi

TOWER DESIGN NOTES

1. Tower is located in Fairfield County, Connecticut.
2. Tower designed for a 85 mph basic wind in accordance with the TIA/EIA-222-F Standard.
3. Tower is also designed for a 74 mph basic wind with 0.50 in ice.
4. Deflections are based upon a 60 mph wind.
5. BETA RELEASE FOR TESTING ONLY
6. TOWER RATING: 93.2%



Infinigy Engineering		Job: 379-016	
1033 Watervliet Shaker Road		Project: CT11797A	
Albany, NY 12205		Client: Northeast Site Solutions / T-Mobile	Drawn by: Jack Stockli
Phone: (518) 690-0790		Code: TIA/EIA-222-F	Date: 04/24/15
FAX:		Path:	Scale: NTS
			Dwg No. E-1

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 1 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Tower Input Data

There is a pole section.

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

Tower is located in Fairfield County, Connecticut.

Basic wind speed of 85 mph.

Nominal ice thickness of 0.5000 in.

Ice density of 56 pcf.

A wind speed of 74 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in pole design is 1.333.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Treat Feedline Bundles As Cylinder
Consider Moments - Horizontals	Assume Legs Pinned	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Diagonals	√ Assume Rigid Index Plate	√ Calculate Redundant Bracing Forces
Use Moment Magnification	√ Use Clear Spans For Wind Area	Ignore Redundant Members in FEA
√ Use Code Stress Ratios	√ Use Clear Spans For KL/r	SR Leg Bolts Resist Compression
√ Use Code Safety Factors - Guys	√ Retension Guys To Initial Tension	√ All Leg Panels Have Same Allowable
Escalate Ice	Bypass Mast Stability Checks	Offset Girt At Foundation
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Consider Feedline Torque
Use Special Wind Profile	√ Project Wind Area of Appurt.	Include Angle Block Shear Check
√ Include Bolts In Member Capacity	√ Autocalc Torque Arm Areas	Poles
√ Leg Bolts Are At Top Of Section	SR Members Have Cut Ends	Include Shear-Torsion Interaction
√ Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	Always Use Sub-Critical Flow
Use Diamond Inner Bracing (4 Sided)	√ Triangulate Diamond Inner Bracing	Use Top Mounted Sockets
Add IBC .6D+W Combination	Use TIA-222-G Tension Splice Capacity	
	Exemption	

Tapered Pole Section Geometry

Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	175.00-130.00	45.00	5.00	18	24.0000	34.6880	0.2500	1.0000	A572-65 (65 ksi)
L2	130.00-85.00	50.00	6.00	18	33.0004	44.6880	0.3130	1.2520	A572-65 (65 ksi)
L3	85.00-41.00	50.00	7.00	18	42.6595	54.5000	0.3750	1.5000	A572-65 (65 ksi)
L4	41.00-0.00	48.00		18	52.0923	64.5000	0.3750	1.5000	A572-65 (65 ksi)

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 2 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	I/Q in ²	w in	w/t
L1	24.3702	18.8456	1342.9976	8.4313	12.1920	110.1540	2687.7623	9.4246	3.7840	15.136
	35.2231	27.3266	4094.4743	12.2255	17.6215	232.3567	8194.3362	13.6659	5.6651	22.66
L2	34.6963	32.4737	4383.6068	11.6040	16.7642	261.4858	8772.9818	16.2400	5.2572	16.796
	45.3774	44.0849	10967.4032	15.7531	22.7015	483.1135	21949.2375	22.0466	7.3142	23.368
L3	44.7604	50.3291	11368.9151	15.0110	21.6710	524.6137	22752.7897	25.1693	6.8481	18.262
	55.3408	64.4223	23843.4650	19.2144	27.6860	861.2102	47718.3038	32.2173	8.9320	23.819
L4	54.7333	61.5566	20800.9850	18.3597	26.4629	786.0432	41629.3406	30.7841	8.5082	22.689
	65.4950	76.3248	39651.3314	22.7644	32.7660	1210.1365	79354.8371	38.1696	10.6920	28.512

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _r	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals
ft	ft ²	in					in	in
L1 175.00-130.00				1	1	1		
L2 130.00-85.00				1	1	1		
L3 85.00-41.00				1	1	1		
L4 41.00-0.00				1	1	1		

Pole Reinforcing Data

Height Above Base	Segment Length	No. of Segments	Offset	Grade	Type	Size	Unbraced Length	K	Bolt Hole Dia.	Bolts per Row	Shear Lag Factor U	
ft	ft		in				ft		in			
0.00	5.00	4	6.0000	Williams 150 KSI (120 ksi)	Solid Round	Williams R71 1-3/4" KSI All-Thread-Bar	150	2.50	1.00	0.0000	0	0.000

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement	Total Number	C _A A _A	Weight
				ft		ft ² /ft	plf
1/2 (Municipal)	C	No	Inside Pole	175.00 - 8.00	2	No Ice 1/2" Ice	0.00 0.25
1 5/8 (Municipal)	C	No	Inside Pole	175.00 - 8.00	4	No Ice 1/2" Ice	0.00 1.04
*** 1 1/4" Hybriflex Cable (Sprint)	C	No	Inside Pole	155.00 - 8.00	4	No Ice 1/2" Ice	0.00 1.00
*** 1 5/8" Fiber (T-Mobile)	C	No	Inside Pole	145.00 - 8.00	1	No Ice 1/2" Ice	0.00 1.61
*** 1 5/8 (T-Mobile)	C	No	Inside Pole	145.00 - 8.00	18	No Ice 1/2" Ice	0.00 1.04

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 3 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number		C _A A _A ft ² /ft	Weight plf
1/2 (T-Mobile)	C	No	Inside Pole	137.00 - 8.00	2	No Ice	0.00	0.25
1 5/8 (T-Mobile)	C	No	Inside Pole	137.00 - 8.00	13	1/2" Ice	0.00	0.25
***						No Ice	0.00	1.04
***						1/2" Ice	0.00	1.04
1 5/8" Fiber (Verizon)	C	No	Inside Pole	125.00 - 8.00	1	No Ice	0.00	1.61
1 5/8 (Verizon)	C	No	Inside Pole	125.00 - 8.00	18	1/2" Ice	0.00	1.61
***						No Ice	0.00	1.04
***						1/2" Ice	0.00	1.04
1 5/8 (Municipal)	C	No	Inside Pole	100.00 - 8.00	1	No Ice	0.00	1.04
***						1/2" Ice	0.00	1.04
1/2 (Municipal)	C	No	Inside Pole	85.00 - 8.00	3	No Ice	0.00	0.25
						1/2" Ice	0.00	0.25

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight lb
L1	175.00-130.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	712.79
L2	130.00-85.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	2764.25
L3	85.00-41.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	2865.72
L4	41.00-0.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.000	0.000	2149.29

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight lb
L1	175.00-130.00	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	712.79
L2	130.00-85.00	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	2764.25
L3	85.00-41.00	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	2865.72
L4	41.00-0.00	A	0.500	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	0.000	0.000	2149.29

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 4 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A _A		Weight
			Horz Lateral	Vert			Front	Side	
			ft	ft	°	ft	ft ²	ft ²	lb
PD220 (Municipal)	A	From Leg	4.00	0.0000	175.00	No Ice	3.56	3.56	23.00
			0.00			1/2" Ice	7.13	7.13	46.00
			10.00						
PD220 (Municipal)	B	From Leg	4.00	0.0000	175.00	No Ice	3.56	3.56	23.00
			0.00			1/2" Ice	7.13	7.13	46.00
			10.00						
PD220 (Municipal)	C	From Leg	4.00	0.0000	175.00	No Ice	3.56	3.56	23.00
			0.00			1/2" Ice	7.13	7.13	46.00
			10.00						
PD220 (Municipal)	C	From Leg	4.00	0.0000	175.00	No Ice	3.56	3.56	23.00
			0.00			1/2" Ice	7.13	7.13	46.00
			-10.00						
1' Square Panel (Municipal)	C	From Leg	4.00	0.0000	175.00	No Ice	1.05	1.08	20.61
			0.00			1/2" Ice	1.21	1.27	30.47
			0.00						
Pipe Low Profile Platform (Municipal)	A	From Leg	4.00	0.0000	175.00	No Ice	21.70	21.70	1500.00
			0.00			1/2" Ice	27.20	27.20	1700.00
			0.00						

APXVTM14-C-120 (Sprint)	A	From Leg	4.00	0.0000	155.00	No Ice	6.53	3.38	52.90
			0.00			1/2" Ice	6.96	3.72	90.49
			0.00						
APXVTM14-C-120 (Sprint)	B	From Leg	4.00	0.0000	155.00	No Ice	6.53	3.38	52.90
			0.00			1/2" Ice	6.96	3.72	90.49
			0.00						
APXVTM14-C-120 (Sprint)	C	From Leg	4.00	0.0000	155.00	No Ice	6.53	3.38	52.90
			0.00			1/2" Ice	6.96	3.72	90.49
			0.00						
APXVSP18-C-A20 (Sprint)	A	From Leg	4.00	0.0000	155.00	No Ice	8.26	5.28	57.00
			0.00			1/2" Ice	8.81	5.74	106.52
			0.00						
P40-16-XLPP-RR-A (Sprint)	B	From Leg	4.00	0.0000	155.00	No Ice	10.50	3.52	53.00
			0.00			1/2" Ice	10.98	3.87	106.23
			0.00						
P40-16-XLPP-RR-A (Sprint)	C	From Leg	4.00	0.0000	155.00	No Ice	10.50	3.52	53.00
			0.00			1/2" Ice	10.98	3.87	106.23
			0.00						
RR65-18-DP (Sprint)	A	From Leg	4.00	0.0000	155.00	No Ice	10.16	4.28	34.00
			0.00			1/2" Ice	10.85	5.35	77.74
			0.00						
RR65-18-DP (Sprint)	B	From Leg	4.00	0.0000	155.00	No Ice	10.16	4.28	34.00
			0.00			1/2" Ice	10.85	5.35	77.74
			0.00						
RR65-18-DP (Sprint)	C	From Leg	4.00	0.0000	155.00	No Ice	10.16	4.28	34.00
			0.00			1/2" Ice	10.85	5.35	77.74
			0.00						
TD-RRH8X20 (Sprint)	A	From Leg	4.00	0.0000	155.00	No Ice	4.32	1.41	66.14
			0.00			1/2" Ice	4.60	1.61	90.08
			0.00						
TD-RRH8X20 (Sprint)	B	From Leg	4.00	0.0000	155.00	No Ice	4.32	1.41	66.14
			0.00			1/2" Ice	4.60	1.61	90.08
			0.00						
TD-RRH8X20 (Sprint)	C	From Leg	4.00	0.0000	155.00	No Ice	4.32	1.41	66.14
			0.00			1/2" Ice	4.60	1.61	90.08
			0.00						

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job	379-016	Page	5 of 13
	Project	CT11797A	Date	17:54:55 04/24/15
	Client	Northeast Site Solutions / T-Mobile	Designed by	Jack Stockli

Description	Face or Leg	Offset Type	Offsets:			Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral	Vert					
800 MHz RRH (Sprint)	A	From Leg	4.00	0.0000	155.00	No Ice	2.25	2.40	64.00	
			0.00	0.0000	155.00	1/2" Ice	2.46	2.61	86.12	
			0.00	0.0000	155.00	No Ice	2.25	2.40	64.00	
800 MHz RRH (Sprint)	B	From Leg	4.00	0.0000	155.00	No Ice	2.25	2.40	64.00	
			0.00	0.0000	155.00	1/2" Ice	2.46	2.61	86.12	
			0.00	0.0000	155.00	No Ice	2.25	2.40	64.00	
800 MHz RRH (Sprint)	C	From Leg	4.00	0.0000	155.00	No Ice	2.25	2.40	64.00	
			0.00	0.0000	155.00	1/2" Ice	2.46	2.61	86.12	
			0.00	0.0000	155.00	No Ice	2.25	2.40	64.00	
1900MHz RRH (Sprint)	A	From Leg	4.00	0.0000	155.00	No Ice	2.70	2.77	60.00	
			0.00	0.0000	155.00	1/2" Ice	2.94	3.01	83.90	
			0.00	0.0000	155.00	No Ice	2.70	2.77	60.00	
1900MHz RRH (Sprint)	B	From Leg	4.00	0.0000	155.00	No Ice	2.70	2.77	60.00	
			0.00	0.0000	155.00	1/2" Ice	2.94	3.01	83.90	
			0.00	0.0000	155.00	No Ice	2.70	2.77	60.00	
1900MHz RRH (Sprint)	C	From Leg	4.00	0.0000	155.00	No Ice	2.70	2.77	60.00	
			0.00	0.0000	155.00	1/2" Ice	2.94	3.01	83.90	
			0.00	0.0000	155.00	No Ice	2.70	2.77	60.00	
Pipe Low Profile Platform (Municipal)	A	From Leg	4.00	0.0000	155.00	No Ice	21.70	21.70	1500.00	
			0.00	0.0000	155.00	1/2" Ice	27.20	27.20	1700.00	
			0.00	0.0000	155.00	No Ice	21.70	21.70	1500.00	

(2) AIR 21, 1.3 M, B2A B4P (T-Mobile)	A	From Leg	4.00	0.0000	144.00	No Ice	6.53	4.36	83.00	
			0.00	0.0000	144.00	1/2" Ice	6.98	4.77	124.90	
			0.00	0.0000	144.00	No Ice	6.53	4.36	83.00	
(2) AIR 21, 1.3 M, B2A B4P (T-Mobile)	B	From Leg	4.00	0.0000	144.00	No Ice	6.53	4.36	83.00	
			0.00	0.0000	144.00	1/2" Ice	6.98	4.77	124.90	
			0.00	0.0000	144.00	No Ice	6.53	4.36	83.00	
(2) AIR 21, 1.3 M, B2A B4P (T-Mobile)	C	From Leg	4.00	0.0000	144.00	No Ice	6.53	4.36	83.00	
			0.00	0.0000	144.00	1/2" Ice	6.98	4.77	124.90	
			0.00	0.0000	144.00	No Ice	6.53	4.36	83.00	
TTA 18"x6"x6" (T-Mobile)	A	From Leg	4.00	0.0000	144.00	No Ice	1.05	1.08	20.61	
			0.00	0.0000	144.00	1/2" Ice	1.21	1.27	30.47	
			0.00	0.0000	144.00	No Ice	1.05	1.08	20.61	
TTA 18"x6"x6" (T-Mobile)	B	From Leg	4.00	0.0000	144.00	No Ice	1.05	1.08	20.61	
			0.00	0.0000	144.00	1/2" Ice	1.21	1.27	30.47	
			0.00	0.0000	144.00	No Ice	1.05	1.08	20.61	
TTA 18"x6"x6" (T-Mobile)	C	From Leg	4.00	0.0000	144.00	No Ice	1.05	1.08	20.61	
			0.00	0.0000	144.00	1/2" Ice	1.21	1.27	30.47	
			0.00	0.0000	144.00	No Ice	1.05	1.08	20.61	
Pipe T-Arm (T-Mobile)	A	From Leg	4.00	0.0000	144.00	No Ice	9.70	3.30	250.00	
			0.00	0.0000	144.00	1/2" Ice	12.10	5.20	314.00	
			0.00	0.0000	144.00	No Ice	9.70	3.30	250.00	
Pipe T-Arm (T-Mobile)	B	From Leg	4.00	0.0000	144.00	No Ice	9.70	3.30	250.00	
			0.00	0.0000	144.00	1/2" Ice	12.10	5.20	314.00	
			0.00	0.0000	144.00	No Ice	9.70	3.30	250.00	
Pipe T-Arm (T-Mobile)	C	From Leg	4.00	0.0000	144.00	No Ice	9.70	3.30	250.00	
			0.00	0.0000	144.00	1/2" Ice	12.10	5.20	314.00	
			0.00	0.0000	144.00	No Ice	9.70	3.30	250.00	

P45-17-XLH-RR (AT&T)	A	From Leg	4.00	0.0000	135.00	No Ice	12.13	4.97	53.00	
			0.00	0.0000	135.00	1/2" Ice	12.71	5.41	115.33	
			0.00	0.0000	135.00	No Ice	12.13	4.97	53.00	
P45-17-XLH-RR (AT&T)	B	From Leg	4.00	0.0000	135.00	No Ice	12.13	4.97	53.00	
			0.00	0.0000	135.00	1/2" Ice	12.71	5.41	115.33	
			0.00	0.0000	135.00	No Ice	12.13	4.97	53.00	

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job	379-016	Page	6 of 13
	Project	CT11797A	Date	17:54:55 04/24/15
	Client	Northeast Site Solutions / T-Mobile	Designed by	Jack Stockli

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _A A ₁ Front	C _A A ₂ Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
P45-17-XLH-RR (AT&T)	C	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 12.13 1/2" Ice 12.71	4.97 5.41	53.00 115.33
RRUS-11 (AT&T)	A	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 4.42 1/2" Ice 4.71	1.63 1.84	55.00 80.77
RRUS-11 (AT&T)	B	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 4.42 1/2" Ice 4.71	1.63 1.84	55.00 80.77
RRUS-11 (AT&T)	C	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 4.42 1/2" Ice 4.71	1.63 1.84	55.00 80.77
DC6-48-60-18-8F (AT&T)	A	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 2.22 1/2" Ice 2.44	2.22 2.44	20.00 39.25
(2) RA21-7770.00 (AT&T)	A	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 6.79 1/2" Ice 7.28	3.51 3.90	37.20 74.52
(2) RA21-7770.00 (AT&T)	B	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 6.79 1/2" Ice 7.28	3.51 3.90	37.20 74.52
(2) RA21-7770.00 (AT&T)	C	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 6.79 1/2" Ice 7.28	3.51 3.90	37.20 74.52
(2) LGP21401 (AT&T)	A	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 0.95 1/2" Ice 1.09	0.37 0.48	17.50 23.31
(2) LGP21401 (AT&T)	B	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 0.95 1/2" Ice 1.09	0.37 0.48	17.50 23.31
(2) LGP21401 (AT&T)	C	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 0.95 1/2" Ice 1.09	0.37 0.48	17.50 23.31
TTA (AT&T)	A	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 1.05 1/2" Ice 1.21	1.08 1.27	20.61 30.47
TTA (AT&T)	B	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 1.05 1/2" Ice 1.21	1.08 1.27	20.61 30.47
TTA (AT&T)	C	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 1.05 1/2" Ice 1.21	1.08 1.27	20.61 30.47
Pipe T-Arm (AT&T)	A	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 9.70 1/2" Ice 12.10	3.30 5.20	250.00 314.00
Pipe T-Arm (AT&T)	B	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 9.70 1/2" Ice 12.10	3.30 5.20	250.00 314.00
Pipe T-Arm (AT&T)	C	From Leg	4.00 0.00 0.00		0.0000	135.00	No Ice 9.70 1/2" Ice 12.10	3.30 5.20	250.00 314.00

(2) LPA-80080/6CF (Verizon)	A	From Leg	4.00 0.00 0.00		0.0000	125.00	No Ice 4.32 1/2" Ice 4.76	9.10 9.65	21.00 69.26
(2) LPA-80080/6CF (Verizon)	B	From Leg	4.00 0.00 0.00		0.0000	125.00	No Ice 4.32 1/2" Ice 4.76	9.10 9.65	21.00 69.26

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job	379-016	Page	7 of 13
	Project	CT11797A	Date	17:54:55 04/24/15
	Client	Northeast Site Solutions / T-Mobile	Designed by	Jack Stockli

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert</i> <i>ft ft ft</i>	<i>Azimuth Adjustment</i> <i>°</i>	<i>Placement</i> <i>ft</i>	<i>C_AA_A Front</i> <i>ft²</i>	<i>C_AA_A Side</i> <i>ft²</i>	<i>Weight</i> <i>lb</i>	
(2) LPA-80080/6CF (Verizon)	C	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	4.32 4.76	9.10 9.65	21.00 69.26
(2) BXA-171085/12CF (Verizon)	A	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	4.79 5.24	3.62 4.06	15.00 42.45
(2) BXA-171085/12CF (Verizon)	B	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	4.79 5.24	3.62 4.06	15.00 42.45
(2) BXA-171085/12CF (Verizon)	C	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	4.79 5.24	3.62 4.06	15.00 42.45
BXA-70063/6CF (Verizon)	A	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	7.73 8.27	4.04 4.48	14.90 56.85
BXA-70063/6CF (Verizon)	B	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	7.73 8.27	4.04 4.48	14.90 56.85
BXA-70063/6CF (Verizon)	C	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	7.73 8.27	4.04 4.48	14.90 56.85
RRH2x40-07-U (Verizon)	A	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	2.25 2.45	1.23 1.39	50.00 66.85
RRH2x40-07-U (Verizon)	B	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	2.25 2.45	1.23 1.39	50.00 66.85
RRH2x40-07-U (Verizon)	C	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	2.25 2.45	1.23 1.39	50.00 66.85
(2) Diplexer (Verizon)	A	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	0.49 0.59	0.29 0.38	50.00 53.69
(2) Diplexer (Verizon)	B	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	0.49 0.59	0.29 0.38	50.00 53.69
(2) Diplexer (Verizon)	C	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	0.49 0.59	0.29 0.38	50.00 53.69
RDC-4276-PF-48J (Verizon)	A	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	2.03 2.23	1.64 1.83	14.00 30.23
Pipe T-Arm (Verizon)	A	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	9.70 12.10	3.30 5.20	250.00 314.00
Pipe T-Arm (Verizon)	B	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	9.70 12.10	3.30 5.20	250.00 314.00
Pipe T-Arm (Verizon)	C	From Leg	0.00 4.00 0.00	0.0000	125.00	No Ice 1/2" Ice	9.70 12.10	3.30 5.20	250.00 314.00
*** PD220 (Municipal)	A	From Leg	4.00 0.00 10.00	0.0000	100.00	No Ice 1/2" Ice	3.56 7.13	3.56 7.13	23.00 46.00
Pipe Side Arm	A	From Leg	4.00	0.0000	100.00	No Ice	0.46	3.55	150.00

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 8 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _A A _A Front	C _A A _A Side	Weight
			ft	°	ft	ft ²	ft ²	lb
(Municipal)			0.00		1/2" Ice	0.62	4.93	175.00
***			0.00					
GPS (Sprint)	A	From Leg	2.00	0.0000	85.00	No Ice	0.50	10.00
			0.00		1/2" Ice	0.63	0.63	15.96
			0.00					
GPS (Sprint)	B	From Leg	2.00	0.0000	85.00	No Ice	0.50	10.00
			0.00		1/2" Ice	0.63	0.63	15.96
			0.00					
GPS (Sprint)	C	From Leg	2.00	0.0000	85.00	No Ice	0.50	10.00
			0.00		1/2" Ice	0.63	0.63	15.96
			0.00					
***			0.00					
LNX-6515DS-VTM (T-Mobile)	A	From Leg	4.00	0.0000	144.00	No Ice	11.45	50.30
			0.00		1/2" Ice	12.06	8.29	116.17
			0.00					
LNX-6515DS-VTM (T-Mobile)	B	From Leg	4.00	0.0000	144.00	No Ice	11.45	50.30
			0.00		1/2" Ice	12.06	8.29	116.17
			0.00					
LNX-6515DS-VTM (T-Mobile)	C	From Leg	4.00	0.0000	144.00	No Ice	11.45	50.30
			0.00		1/2" Ice	12.06	8.29	116.17
			0.00					
RRUS-11 (T-Mobile)	A	From Leg	4.00	0.0000	144.00	No Ice	4.42	55.00
			0.00		1/2" Ice	4.71	1.84	80.77
			0.00					
RRUS-11 (T-Mobile)	B	From Leg	4.00	0.0000	144.00	No Ice	4.42	55.00
			0.00		1/2" Ice	4.71	1.84	80.77
			0.00					
RRUS-11 (T-Mobile)	C	From Leg	4.00	0.0000	144.00	No Ice	4.42	55.00
			0.00		1/2" Ice	4.71	1.84	80.77
			0.00					

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
				ft	°	°	ft	ft	ft ²	lb
2.5' Dish w/ Radome (Municipal)	A	Paraboloid w/Radome	From Leg	4.00	0.0000		175.00	2.50	No Ice	125.00
				0.00					1/2" Ice	151.90
				0.00						

Load Combinations

Comb. No.	Description
1	Dead Only

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 9 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Comb. No.	Description
2	Dead+Wind 0 deg - No Ice
3	Dead+Wind 30 deg - No Ice
4	Dead+Wind 60 deg - No Ice
5	Dead+Wind 90 deg - No Ice
6	Dead+Wind 120 deg - No Ice
7	Dead+Wind 150 deg - No Ice
8	Dead+Wind 180 deg - No Ice
9	Dead+Wind 210 deg - No Ice
10	Dead+Wind 240 deg - No Ice
11	Dead+Wind 270 deg - No Ice
12	Dead+Wind 300 deg - No Ice
13	Dead+Wind 330 deg - No Ice
14	Dead+Ice+Temp
15	Dead+Wind 0 deg+Ice+Temp
16	Dead+Wind 30 deg+Ice+Temp
17	Dead+Wind 60 deg+Ice+Temp
18	Dead+Wind 90 deg+Ice+Temp
19	Dead+Wind 120 deg+Ice+Temp
20	Dead+Wind 150 deg+Ice+Temp
21	Dead+Wind 180 deg+Ice+Temp
22	Dead+Wind 210 deg+Ice+Temp
23	Dead+Wind 240 deg+Ice+Temp
24	Dead+Wind 270 deg+Ice+Temp
25	Dead+Wind 300 deg+Ice+Temp
26	Dead+Wind 330 deg+Ice+Temp
27	Dead+Wind 0 deg - Service
28	Dead+Wind 30 deg - Service
29	Dead+Wind 60 deg - Service
30	Dead+Wind 90 deg - Service
31	Dead+Wind 120 deg - Service
32	Dead+Wind 150 deg - Service
33	Dead+Wind 180 deg - Service
34	Dead+Wind 210 deg - Service
35	Dead+Wind 240 deg - Service
36	Dead+Wind 270 deg - Service
37	Dead+Wind 300 deg - Service
38	Dead+Wind 330 deg - Service

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	175 - 130	52.307	27	2.4930	0.0503
L2	135 - 85	32.191	27	2.2384	0.0248
L3	91 - 41	14.428	27	1.5174	0.0106
L4	48 - 0	3.947	38	0.7658	0.0040

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
175.00	2.5' Dish w/ Radome	27	52.307	2.4930	0.0503	37685
155.00	APXVTM14-C-120	27	41.993	2.4027	0.0365	9420

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job	379-016	Page	10 of 13
	Project	CT11797A	Date	17:54:55 04/24/15
	Client	Northeast Site Solutions / T-Mobile	Designed by	Jack Stockli

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
144.00	(2) AIR 21, 1.3 M, B2A B4P	27	36.506	2.3262	0.0296	6076
135.00	P45-17-XLH-RR	27	32.191	2.2384	0.0248	4764
125.00	(2) LPA-80080/6CF	27	27.635	2.1085	0.0203	4247
100.00	PD220	27	17.544	1.6839	0.0126	3410
85.00	GPS	27	12.519	1.4077	0.0095	3107

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	175 - 130	103.631	2	4.8878	0.1008
L2	135 - 85	64.019	2	4.4354	0.0495
L3	91 - 41	28.785	11	3.0220	0.0212
L4	48 - 0	7.892	11	1.5301	0.0080

Critical Deflections and Radius of Curvature - Design Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
175.00	2.5' Dish w/ Radome	2	103.631	4.8878	0.1008	20284
155.00	APXVTM14-C-120	2	83.347	4.7383	0.0730	5069
144.00	(2) AIR 21, 1.3 M, B2A B4P	2	72.537	4.6005	0.0593	3268
135.00	P45-17-XLH-RR	2	64.019	4.4354	0.0495	2557
125.00	(2) LPA-80080/6CF	2	55.003	4.1850	0.0406	2240
100.00	PD220	11	34.988	3.3514	0.0251	1738
85.00	GPS	11	24.982	2.8049	0.0189	1568

Compression Checks

Pole Design Data

Section No.	Elevation	Size	L	L _u	Kl/r	F _a	A	Actual P	Allow. P _a	Ratio P/P _a
	ft		ft	ft		ksi	in ²	lb	lb	
L1	175 - 130 (1)	TP34.688x24x0.25	45.00	175.00	177.9	4.718	26.3842	-11272.50	124483.00	0.091
L2	130 - 85 (2)	TP44.688x33.0004x0.313	50.00	175.00	137.7	7.880	42.6915	-19724.00	336428.00	0.059
L3	85 - 41 (3)	TP54.5x42.6595x0.375	50.00	175.00	112.7	11.748	62.4492	-32299.40	733625.00	0.044
L4	41 - 0 (4)	TP64.5x52.0923x0.375	48.00	175.00	94.1	16.848	74.7864	-46932.70	1259970.00	0.037

Pole Bending Design Data

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 11 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Section No.	Elevation ft	Size	Actual M_x lb-ft	Actual f_{bx} ksi	Allow. F_{bx} ksi	Ratio $\frac{f_{bx}}{F_{bx}}$	Actual M_y lb-ft	Actual f_{by} ksi	Allow. F_{by} ksi	Ratio $\frac{f_{by}}{F_{by}}$
L1	175 - 130 (1)	TP34.688x24x0.25	297130.83	-16.465	39.000	0.422	0.00	0.000	39.000	0.000
L2	130 - 85 (2)	TP44.688x33.0004x0.313	1450200.00	-38.420	39.000	0.985	0.00	0.000	39.000	0.000
L3	85 - 41 (3)	TP54.5x42.6595x0.375	2801450.00	-41.550	39.000	1.065	0.00	0.000	39.000	0.000
L4	41 - 0 (4)	TP64.5x52.0923x0.375	4322916.67	-44.654	37.043	1.205	0.00	0.000	37.043	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P}{P_a}$	Ratio $\frac{f_{bx}}{F_{bx}}$	Ratio $\frac{f_{by}}{F_{by}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	175 - 130 (1)	TP34.688x24x0.25	0.091	0.422	0.000	0.513	1.333	H1-3 ✓
L2	130 - 85 (2)	TP44.688x33.0004x0.313	0.059	0.985	0.000	1.044	1.333	H1-3 ✓
L3	85 - 41 (3)	TP54.5x42.6595x0.375	0.044	1.065	0.000	1.109	1.333	H1-3 ✓
L4	41 - 0 (4)	TP64.5x52.0923x0.375	0.037	1.205	0.000	1.243	1.333	H1-3 ✓

Reinforcing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in ²	Actual P lb	Allow. P_a lb	Ratio $\frac{P}{P_a}$
L4	5 - 0	Williams R71 1-3/4" 150 KSI All-Thread-Bar	5.00	2.50	60.0 K=1.00	39.110	3.1416	-144654.00	122869.00	1.177

Reinforcing Bending Design Data

Section No.	Elevation ft	Size	Actual M_x lb-ft	Actual f_{bx} ksi	Allow. F_{bx} ksi	Ratio $\frac{f_{bx}}{F_{bx}}$	Actual M_y lb-ft	Actual f_{by} ksi	Allow. F_{by} ksi	Ratio $\frac{f_{by}}{F_{by}}$
L4	5 - 0	Williams R71 1-3/4" 150 KSI All-Thread-Bar	97.57	-1.491	90.000	0.017	0.00	0.000	90.000	0.000

Reinforcing Interaction Design Data

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 12 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Section No.	Elevation ft	Size	Ratio $\frac{P}{P_a}$	Ratio $\frac{f_{bx}}{F_{bx}}$	Ratio $\frac{f_{by}}{F_{by}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L4	5 - 0	Williams R71 1-3/4" 150 KSI All-Thread-Bar	1.177	0.017	0.000	1.194	1.333	H1-3 ✓

Tension Checks

Reinforcing Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	F_a ksi	A in ²	Actual P lb	Allow. P_a lb	Ratio $\frac{P}{P_a}$
L4	5 - 0	Williams R71 1-3/4" 150 KSI All-Thread-Bar	5.00	2.50	60.0	72.000	3.1416	133024.00	226195.00	0.588

Reinforcing Bending Design Data

Section No.	Elevation ft	Size	Actual M_x lb-ft	Actual f_{bx} ksi	Allow. F_{bx} ksi	Ratio $\frac{f_{bx}}{F_{bx}}$	Actual M_y lb-ft	Actual f_{by} ksi	Allow. F_{by} ksi	Ratio $\frac{f_{by}}{F_{by}}$
L4	5 - 0	Williams R71 1-3/4" 150 KSI All-Thread-Bar	112.94	1.726	90.000	0.019	0.00	0.000	90.000	0.000

Reinforcing Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P}{P_a}$	Ratio $\frac{f_{bx}}{F_{bx}}$	Ratio $\frac{f_{by}}{F_{by}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L4	5 - 0	Williams R71 1-3/4" 150 KSI All-Thread-Bar	0.588	0.019	0.000	0.607	1.333	H2-1 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	SF* P_{allow} lb	% Capacity	Pass Fail
L1	175 - 130	Pole	TP34.688x24x0.25	1	-11272.50	165935.83	38.5	Pass
L2	130 - 85	Pole	TP44.688x33.0004x0.313	2	-19724.00	448458.51	78.3	Pass
L3	85 - 41	Pole	TP54.5x42.6595x0.375	3	-32299.40	977922.08	83.2	Pass
L4	41 - 0	Pole	TP64.5x52.0923x0.375	4	-46932.70	1679539.94	93.2	Pass
	5 - 0	Reinforcing	Williams R71 1-3/4" 150 KSI All-Thread-Bar	7	-144654.00	163784.37	89.6	Pass
Summary								
Pole (L4)							93.2	Pass

tnxTower Infinigy Engineering 1033 Watervliet Shaker Road Albany, NY 12205 Phone: (518) 690-0790 FAX:	Job 379-016	Page 13 of 13
	Project CT11797A	Date 17:54:55 04/24/15
	Client Northeast Site Solutions / T-Mobile	Designed by Jack Stockli

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	SF*P _{allow} lb	% Capacity	Pass Fail
						Reinforcing (L4)	89.6	Pass
						RATING =	93.2	Pass

Date:	4/24/2015
Customer:	T-Mobile
Engineer:	JOEJ
Job #:	379-016
Baseplate/Flange:	Base Plate
Plate Shape:	Circle
Use Addendum 3:	No

Loading Data

TIA Code Revision:	Rev-F	
Axial:	48.6	kips
Moment:	4511.7	k-ft

Plate Data

Pole Base Diameter:	64.5	in
Pole Base Shape:	18 Sided	
Pole thickness:	0.375	in
Pole Fy:	65	ksi
Base Weld Size:	0.375	in
Plate Diameter:	52	in
Plate Thickness:	1.5	in
Plate Steel Grade:	A572 Gr. 42	ksi
Internal/External:	Internal	ksi

Anchor Bolt Data

Bolt Diameter:	2	in
Bolt Hole Diameter:	2.25	in
Bolt Quantity:	24	
Bolt Grade:	F1554 Gr. 105	psi
Bolt Circle:	58	in
Bolt Spacing:	6	in
Fully Developed:	Unknown	

Additional Bolt Data

Bolt Diameter:	R41 1-3/4"	in
Bolt Quantity:	4	
Bolt Grade:	A1035 Gr. 120	psi
Bolt Circle:	76.5	in
Angle:	5	deg

Stiffener Data

Stiffener Quantity:		
Stiffener Height:		in
Stiffener Width:		in

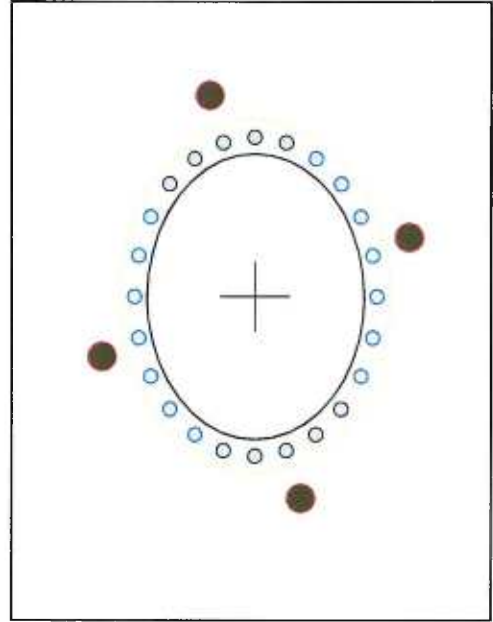
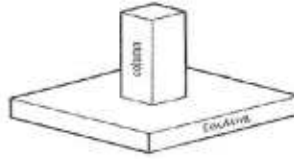


Plate Ratio:	76.22
Bolt Ratio:	73.88
Additional Bolt Ratio:	81.02
Vertical Weld Ratio:	-
Horizontal Weld Ratio:	-
Stiffener Ratio:	-

Date: 4/24/2015
 Site Name: CT11797A
 Client: Northeast Site Solutions
 Infinigy Job #: 158-093
 Analysis/Design: Analysis
 Column Shape: Circle
 Footing Shape: Square
 Tower Type: Self Support



Infinigy Engineering PLLC
 Pad + Pier Calculations
 ACI 318-11

Loading Data		
TIA Code Revision:	ANSI/TIA/EIA-222-F	
Uplift:	0	kips
Axial:	48.8	kips
Shear:	37.5	kips
Moment:	4509	k-ft

Soil Data		
Soil Type:	Sand	
Water Table Depth:	10	ft
Soil Dry Unit Weight:	100	pcf
φ Angle:	30	deg
Cohesion:	0	psf
Allowable Skin Friction:	500	psf
Friction Coefficient:	0.45	
Allowable Bearing Pressure:	4000	psf

Column Data		
Concrete Strength:	3000	psi
Column Diameter:	7	ft
Column Total Length:	2.25	ft
Column Height above ground:	0.25	ft
Vertical Rebar Strength:	60000	psi
Vertical Rebar Size:	#11	(#10) max.
Vertical Rebar Quantity:	50	(4) min.
Tie Rebar Strength:	60000	psi
Tie Rebar Size:		(#3) max.
Tie Rebar Spacing:		in
Rebar Clear Distance:		in

Footing Data		
Concrete Strength:	3000	psi
Footing Length:	27.5	ft
Footing Width:	27.5	ft
Footing Thickness:	4	ft
Horizontal Rebar Strength:	60000	psi
Horizontal Rebar Size:	#10	
Horizontal Rebar Quantity:	32	
Rebar Clear Distance:	3	in
Dowel Strength:	60000	psi
Dowel Size:	#11	(#11) max.
Dowel Development Length:		in
Dowel Quantity:		

Concrete Strength Check		
Footing One-Way Shear Ratio:	1.56	%
Footing Two-Way Shear Ratio:	1.38	%
Footing Moment Ratio:	0.5	%

Soil Stability Check		
Bearing Safety Factor:	2	
Uplift Safety Factor:	2	
Uplift Ratio:	0.00	%
Bearing Ratio:	1.61	%
Sliding Ratio:	14.08	%
Overturning Ratio:	78.51	%

EXHIBIT C

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

T-Mobile Existing Facility

Site ID: CT11797A

CT797/New Fairfield MP
302 Ball Pond Road
New Fairfield, CT 06812

April 20, 2015

EBI Project Number: 6215002589

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general public allowable limit:	64.53 %

April 20, 2015

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

Emissions Analysis for Site: **CT11797A – CT797/New Fairfield MP**

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **302 Ball Pond Road, New Fairfield, 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 tower 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 $467 \mu\text{W}/\text{cm}^2$, 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 **302 Ball Pond Road, New Fairfield, 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 tower. For this report the sample point is the top of a 6 foot person standing at the base of the tower.

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 tower. 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 & B2A/B4P** 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 & B2A/B4P** have a maximum gain of **15.9 dBd** at their 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 centerline of the proposed antennas is **145 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.



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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):	145	Height (AGL):	145	Height (AGL):	145
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%	0.87	Antenna B1 MPE%	0.87	Antenna C1 MPE%	0.87
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B2A/B4P□	Make / Model:	Ericsson AIR21 B2A/B4P□	Make / Model:	Ericsson AIR21 B2A/B4P□
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	145	Height (AGL):	145	Height (AGL):	145
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%	0.87	Antenna B2 MPE%	0.87	Antenna C2 MPE%	0.87
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):	145	Height (AGL):	145	Height (AGL):	145
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%	0.34	Antenna B3 MPE%	0.34	Antenna C3 MPE%	0.34

Site Composite MPE%	
Carrier	MPE%
T-Mobile	6.25
Town Fire Dept	2.16 %
Town Police Dept	1.37 %
Town Pub Wks Dept	2.01 %
Sprint	7.31 %
Clearwire	1.08 %
AT&T	18.14 %
Verizon Wireless	26.21 %
Site Total MPE %:	64.53 %

T-Mobile Sector 1 Total:	2.08 %
T-Mobile Sector 2 Total:	2.08 %
T-Mobile Sector 3 Total:	2.08 %
Site Total:	64.53 %

Summary

All calculations performed for this analysis yielded results that were **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:	2.08 %
Sector 2:	2.08 %
Sector 3 :	2.08 %
T-Mobile Total:	6.25 %
Site Total:	64.53 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **64.53%** 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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