

September 8, 2020

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

Regarding: Notice of Exempt Modification – T-Mobile Site #: CT11810A_Anchor
Address: 401 Wakelee Avenue, Ansonia, CT

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennae at the 148-foot level of the existing +/- 196-foot self-support tower at the above-referenced address, latitude 41.356100, longitude -73.092000. The tower is operated by American Tower Corporation.

T-Mobile now intends to modify its existing telecommunications facility by adding three (3) antennae, adding three (3) remote radio units (RRU) and adding three (3) hybrid cables as more particularly detailed and described in the enclosed Construction Drawings prepared by A.T. Engineering Service, PLLC, last revised August 27, 2020. The centerline height of the existing and proposed antennas is and will remain at 148 feet.

Planned Modifications:

Add:

- (3) AIR6449 B41 Antennae
- (3) 4415 B25 RRU
- (3) 1-1/4" Hybrid Cables

Remove

- (6) 1-5/8" Coax

Existing to Remain:

- (9) Antennae
- (3) RRU
- (3) TMA
- (6) 1-5/8" Coax
- (2) 1-1/4" Hybrid Cables
- (1) 1-5/8" Hybrid Cables

Please accept this letter as notification pursuant to R.C.S.A §16-50j-73 for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to American Tower Corporation as tower operator, The Honorable David S. Cassetti, Mayor of the City of Ansonia as chief elected official and property owner (City of Ansonia) and David Blackwell, Sr., Zoning Enforcement Officer of the City of Ansonia.

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

1. The proposed modifications will not result in an increase in the height of the existing structure.
2. The proposed modifications will not require an extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The operation of the modified facility will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard. *Please see the RF emissions calculation for T-Mobile's modified facility dated August 18, 2020 and prepared by EBI Consulting enclosed herewith.*
5. The proposed modifications will not cause an ineligible change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support the proposed loading. *Please see the structural analysis dated July 23, 2020 and prepared by American Tower Corporation enclosed herewith.*

For the foregoing reasons, T-Mobile respectfully submits that the proposed modifications to the above referenced telecommunications facility constitute an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Respectfully submitted,



Jennifer Iliades
Site Acquisition Consultant
Centerline Communications, LLC
750 West Center Street, Suite 301
West Bridgewater, MA 02379
jiliades@clinellc.com

Enclosures: Exhibit A – Original Facility Approval
 Exhibit B – Property Card and GIS
 Exhibit C – Construction Drawings
 Exhibit D – Structural Analysis Report
 Exhibit E – Mount Analysis
 Exhibit F – Power Density/RF Emissions Report

cc: American Tower Corporation, tower operator
 The Honorable David S. Cassetti, Mayor, City of Ansonia, chief elected official and
 property owner
 David Blackwell, Sr., Zoning Enforcement Officer, City of Ansonia

Exhibit A

Original Facility Approval

CITY OF ANSONIA, CONN.
BUILDING PERMIT # 2076
Estimate Cost (Structural) - \$ 100,000
Fee - \$ 824.00

9/9 19 99

Permission is hereby granted to Tim Romano Gen. Contractor
to erect a Tower

Address 401 Wakelee Ave
as follows: - Size _____ ft. long _____ ft. wide _____ stories high;
supported on _____ roof covered with _____
walls to be (EXTERIOR) _____ (INTERIOR) _____ No. of house-keeping units _____
distance from street line _____ feet; distance from each side of lot line;
N _____ feet; E _____ feet; S _____ feet; W _____ feet.
Owner City of Ansonia

BUILDING DEPARTMENT, CITY OF ANSONIA, CONN.
W. B. Brown Building Inspector

SCANNED

FAXED
9999



City of Ansonia

253 Main Street
Ansonia, Connecticut 06401

Date Filed: 9 Sept 99
Receipt No: 10989
Fee: \$ 25 + 25 + 10 Incl. CZU

#401

Instructions: Fill out this application in ball point pen. A scaled plot plan in duplicate, when a certified surveyor's plot plan must be submitted with this application showing proposed existing lot and building dimensions and the location of all buildings in relation to the street lines, side lot lines and rear lot lines.

ADDRESS OF PROPERTY Wakelee Ave ZONE A

MAP _____ BLOCK _____ PARCEL _____ LOT NO. _____ ADDRESS MAP NO. _____ LOT SIZE _____

Width of street right of way less than 50 ft.? YES _____ NO _____ Corner lot? YES _____ NO _____

Is any portion of the lot below regulatory flood elevation? YES _____ NO _____

City water _____ Private well* _____ Sewer** _____ Septic*** _____ Eng.O.S. Permit No. _____

OWNER City of Ansonia

ADDRESS OF OWNER _____

PRESENT USE OF PROPERTY Nolan Field Amherst Field Street _____ City _____ State _____

PROPOSED CONSTRUCTION: New _____ Addition _____ Alteration _____ Repair ^{tall} _____

SIZE/USE OF PROPOSED CONSTRUCTION 10' x 20' 1 story x 10' 4" equipment shed
200' lattice tower for cell phone communications with
100' 8" x 14" pad with 6 1/2' tall chain link fence surround

NO. OF STORIES _____ HEIGHT _____ REQUIRED PARKING SPACES _____ LOT COVERAGE _____

DATE OF: ZBA APPROVAL _____ SPECIAL EXEMPTION _____

SITE PLAN APPROVAL _____ SPECIAL PERMIT APPROVAL _____ SUBD. REQU. YES _____ NO _____

Certification: (Warning) I hereby certify that I am making this application on behalf of and with full authority of the owner of the property and that I am aware of the Zoning Regulations pertinent in this case and that the statements made herein are true and correct APPROVAL SHALL BE VALID FOR PLANS AS SUBMITTED.

THE OCCUPANCY AND USE OF LAND AND BUILDINGS OR STRUCTURES PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY IS PROHIBITED.

Approved by: [Signature]
Zoning Enforcement Officer

Applicant's Name TIM BONANNO G.C. LLC
(Please print)

Applicant's Signature [Signature]

Address: Street 57011 WICKFELD RD

City QUAKER HILL State CT

Tel. No. 860-444-1087

Date Issued 9 Sept 99

*Permit required from State Health Dept. for apartments, subdivisions, trailer parks, shopping centers and public buildings.
**Permits for sewer connections are granted by Water Pollution Control Authority.
***Septic system approvals are granted by Valley Health Department, 470 Howe Ave. Shelton.

Exhibit B

Property Card



Property Information

Property Location	401 WAKELEE AVE
Owner	CITY OF ANSONIA
Co-Owner	HILLSIDE HOME & NOLAN FIE
Mailing Address	401 WAKELEE AVE ANSONIA CT 06401
Land Use	901 MUNICIPAL MDL-94
Land Class	E
Zoning Code	A
Census Tract	1253

Neighborhood	
Acreege	16.5
Utilities	All Public
Lot Setting/Desc	Bus. District Level
Book / Page	0005/0525
Additional Info	

Photo



Sketch



Primary Construction Details

Year Built	2001
Building Desc.	MUNICIPAL MDL-94
Building Style	Health Club
Building Grade	Average +20
Stories	1
Occupancy	1.00
Exterior Walls	Brick/Masonry
Exterior Walls 2	NA
Roof Style	Gable
Roof Cover	Asphalt Shingl
Interior Walls	Minim/Masonry
Interior Walls 2	Drywall/Sheetr
Interior Floors 1	Ceram Clay Til
Interior Floors 2	NA

Heating Fuel	Gas
Heating Type	Forced Air-Duc
AC Type	None
Bedrooms	0
Full Bathrooms	0
Half Bathrooms	0
Extra Fixtures	0
Total Rooms	0
Bath Style	NA
Kitchen Style	NA
Whirlpool Tub	0
Jet Tub	0
Bsmt Gar	0
Fireplaces	0

(*Industrial / Commercial Details)

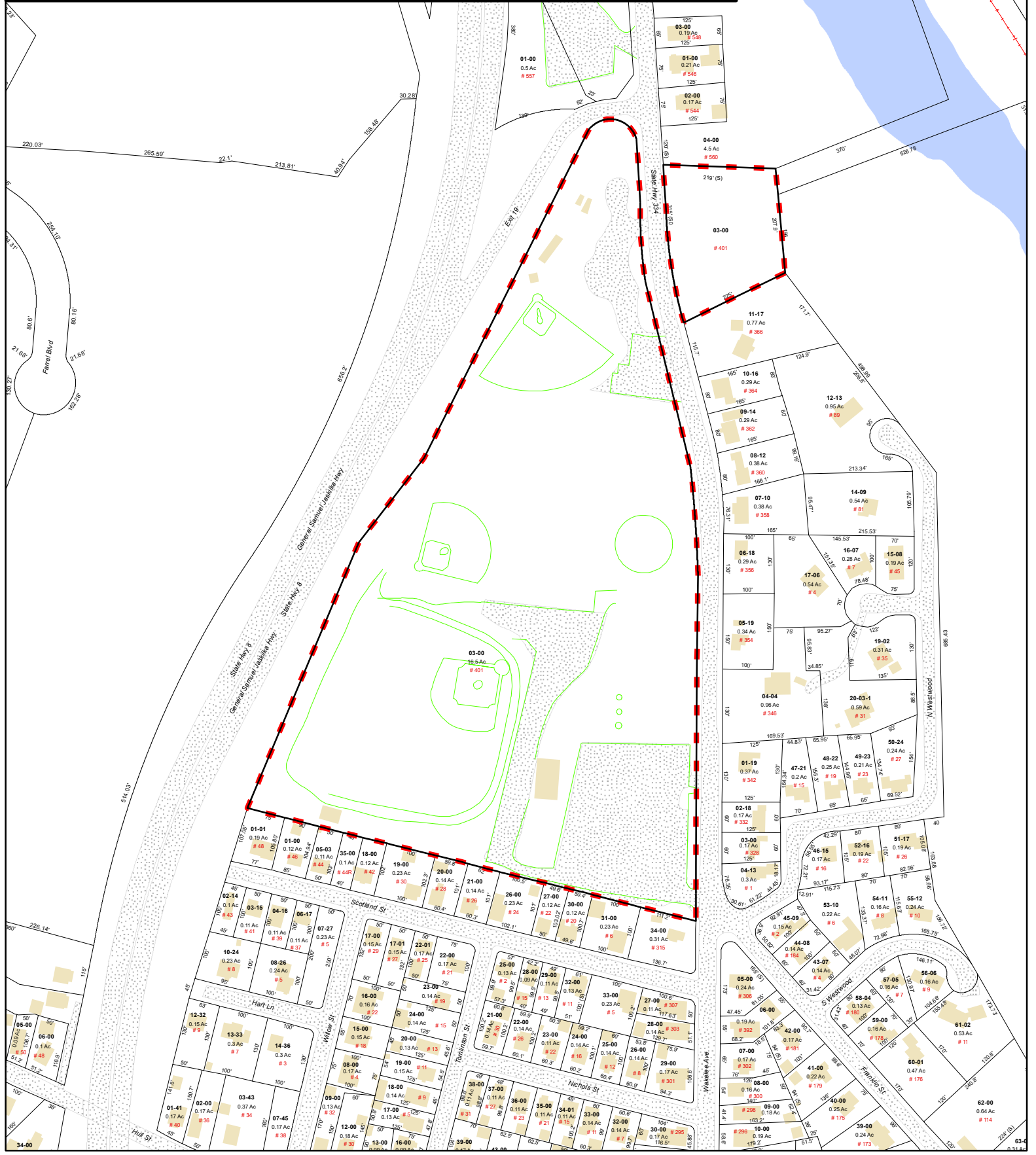
Building Use	Comm/Ind
Building Condition	A
Sprinkler %	NA
Heat / AC	NONE
Frame Type	MASONRY
Baths / Plumbing	AVERAGE
Ceiling / Wall	CEIL & MIN WL
Rooms / Prtns	AVERAGE
Wall Height	10.00
First Floor Use	NA
Foundation	NA



City of Ansonia, Connecticut- Parcel Map

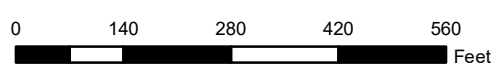
Parcel: 01900030000

Address: 401 WAKELEE AVE



Approximate Scale: 1 inch = 250 feet

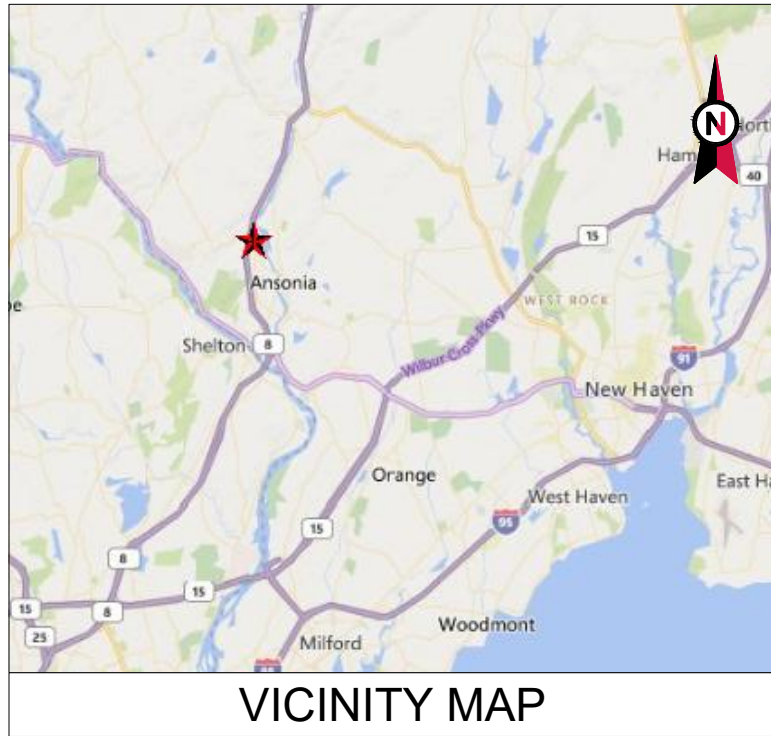
Map Produced: September 2019



Disclaimer: This map is for informational purposes only All information is subject to verification by any user. The City of Ansonia and its mapping contractors assume no legal responsibility for the information contained herein.

Exhibit C

Construction Drawings

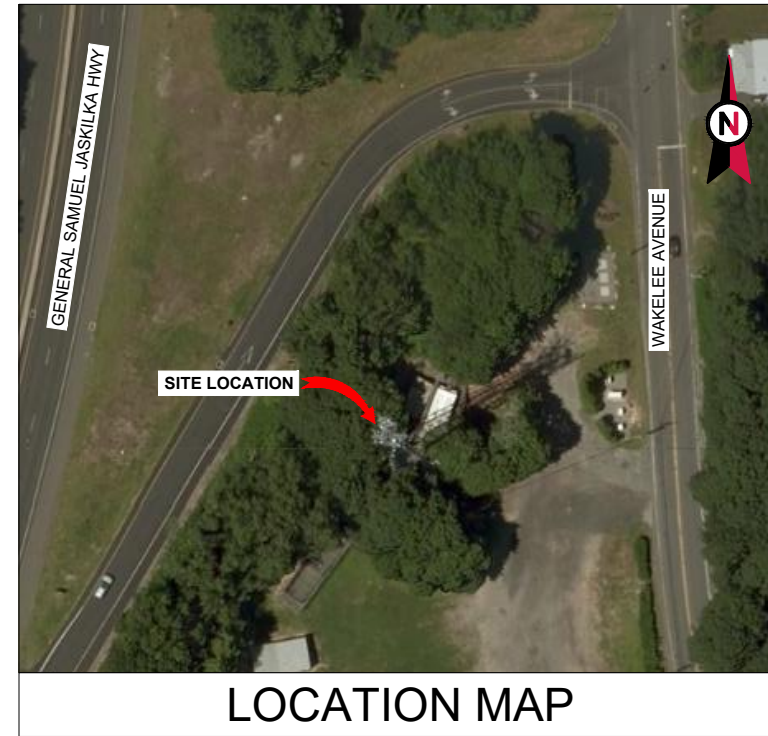


VICINITY MAP



AMERICAN TOWER®

ATC SITE NAME: ANSONIA WAKELEE
 ATC SITE NUMBER: 302470
 T-MOBILE SITE NAME: SPECTRASITE - ANSONIA
 T-MOBILE SITE NUMBER: CT11810A
 SITE ADDRESS: 401 WAKELEE AVE
 ANSONIA, CT 06401



LOCATION MAP

**T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
 67D5A992DB OUTDOOR CONFIGURATION**



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	BK	08/03/20
1	GROUND PLAN UPDATE	BK	08/11/20
2	CABLE UPDATE	BK	08/27/20

ATC SITE NUMBER:
302470
 ATC SITE NAME:
ANSONIA WAKELEE
 T-MOBILE SITE NAME:
SPECTRASITE - ANSONIA
 SITE ADDRESS:
 401 WAKELEE AVE
 ANSONIA, CT 06401



DATE DRAWN:	08/03/20
ATC JOB NO:	13252360_D1
CUSTOMER ID:	SPECTRASITE - ANSONIA
CUSTOMER #:	CT11810A

TITLE SHEET

SHEET NUMBER:
G-001

REVISION:
2

COMPLIANCE CODE	PROJECT SUMMARY	PROJECT DESCRIPTION	SHEET INDEX				
ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES. 1. INTERNATIONAL BUILDING CODE (IBC) 2. NATIONAL ELECTRIC CODE (NEC) 3. LOCAL BUILDING CODE 4. CITY/COUNTY ORDINANCES	<u>SITE ADDRESS:</u> 401 WAKELEE AVE ANSONIA, CT 06401 COUNTY: NEW HAVEN <u>GEOGRAPHIC COORDINATES:</u> LATITUDE: 41.35606944 LONGITUDE: -73.092 GROUND ELEVATION: 129' AMSL	THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW: <u>TOWER WORK:</u> REMOVE (6) 1-5/8" COAX CABLE(s) INSTALL (3) ANTENNA(s), (3) 1-1/4" HYBRID CABLE(s), AND (3) RRH(s) EXISTING (9) ANTENNA(s), (3) RRH(s), (3) TTA(s), (6) 1-5/8" COAX CABLE(s), (1) 1-5/8" HYBRID CABLE(s), AND (2) 1-1/4" HYBRID CABLE(s) TO REMAIN <u>GROUND WORK:</u> REMOVE (1) S12000 OUTDOOR CABINET INSTALL (1) 6160 CABINET AND (1) B160 BATTERY CABINET	SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
	<u>PROJECT TEAM</u> <u>TOWER OWNER:</u> AMERICAN TOWER 10 PRESIDENTIAL WAY WOBURN, MA 01801 <u>ENGINEER:</u> ATC TOWER SERVICES, LLC 3500 REGENCY PKWY STE 100 CARY, NC 27518 <u>PROPERTY OWNER:</u> T14 UNISON SITE MANAGEMENT LLC PO BOX 759472 BALTIMORE, MD 21275-9472	<u>PROJECT NOTES</u> 1. THE FACILITY IS UNMANNED. 2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE. 3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE. 4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED. 5. HANDICAP ACCESS IS NOT REQUIRED.					
<u>UTILITY COMPANIES</u> POWER COMPANY: UNITED ILLUMINATING PHONE: (877) 251-9959 TELEPHONE COMPANY: FRONTIER COMMUNICATIONS PHONE: (800) 376-6843		<u>PROJECT LOCATION DIRECTIONS</u> DIRECTIONS TO SITE: FROM HARTFORD TAKE I-91 SOUTH TO MERRITT PKWY SOUTH. TAKE RT 8 N TO EXIT 19. TAKE A RIGHT OFF THE EXIT. TOWER IS IMMEDIATELY ON RIGHT.					



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GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS, T-MOBILE "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL
 - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
 - B. AC/TELCO INTERFACE BOX (PPC)
 - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
 - D. TOWERS, MONOPOLES
 - E. TOWER LIGHTING
 - F. GENERATORS & LIQUID PROPANE TANK
 - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
 - H. ANTENNAS (INSTALLED BY OTHERS)
 - I. TRANSMISSION LINE
 - J. TRANSMISSION LINE JUMPERS
 - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
 - L. TRANSMISSION LINE GROUND KITS
 - M. HANGERS
 - N. HOISTING GRIPS
 - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR XIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS, PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF T-MOBILE TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSIEIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE T-MOBILE REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE T-MOBILE REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE T-MOBILE REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE T-MOBILE CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE T-MOBILE REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH T-MOBILE AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.

22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH T-MOBILE REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY T-MOBILE MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH T-MOBILE SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO T-MOBILE FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO T-MOBILE SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY T-MOBILE REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLIGENCE ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE T-MOBILE REP. ANY WORK FOUND BY THE T-MOBILE REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. T-MOBILE FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE T-MOBILE WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. T-MOBILE OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO T-MOBILE OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION

ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
 - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY T-MOBILE UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
 - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND T-MOBILE SPECIFICATIONS.
 - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
 - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
 - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
 - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
 - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE "DAISY CHAIN" CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.



AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OR SERVICE ARE THE EXCLUSIVE PROPERTY OF AMERICAN TOWER. THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY ARE PREPARED. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO AMERICAN TOWER OR THE SPECIFIED CARRIER IS STRICTLY PROHIBITED. TITLE TO THESE DOCUMENTS SHALL REMAIN THE PROPERTY OF AMERICAN TOWER WHETHER OR NOT THE PROJECT IS EXECUTED. NEITHER THE ARCHITECT NOR THE ENGINEER WILL BE PROVIDING ON-SITE CONSTRUCTION REVIEW OF THIS PROJECT. CONTRACTOR(S) MUST VERIFY ALL DIMENSIONS AND ADVISE AMERICAN TOWER OF ANY DISCREPANCIES. ANY PRIOR ISSUANCE OF THIS DRAWING IS SUPERSEDED BY THE LATEST VERSION ON FILE WITH AMERICAN TOWER.

REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	BK	08/03/20

ATC SITE NUMBER:
302470
 ATC SITE NAME:
ANSONIA WAKELEE
 T-MOBILE SITE NAME:
SPECTRASITE - ANSONIA
 SITE ADDRESS:
 401 WAKELEE AVE
 ANSONIA, CT 06401



DATE DRAWN:	08/03/20
ATC JOB NO:	13252360_D1
CUSTOMER ID:	SPECTRASITE - ANSONIA
CUSTOMER #:	CT11810A

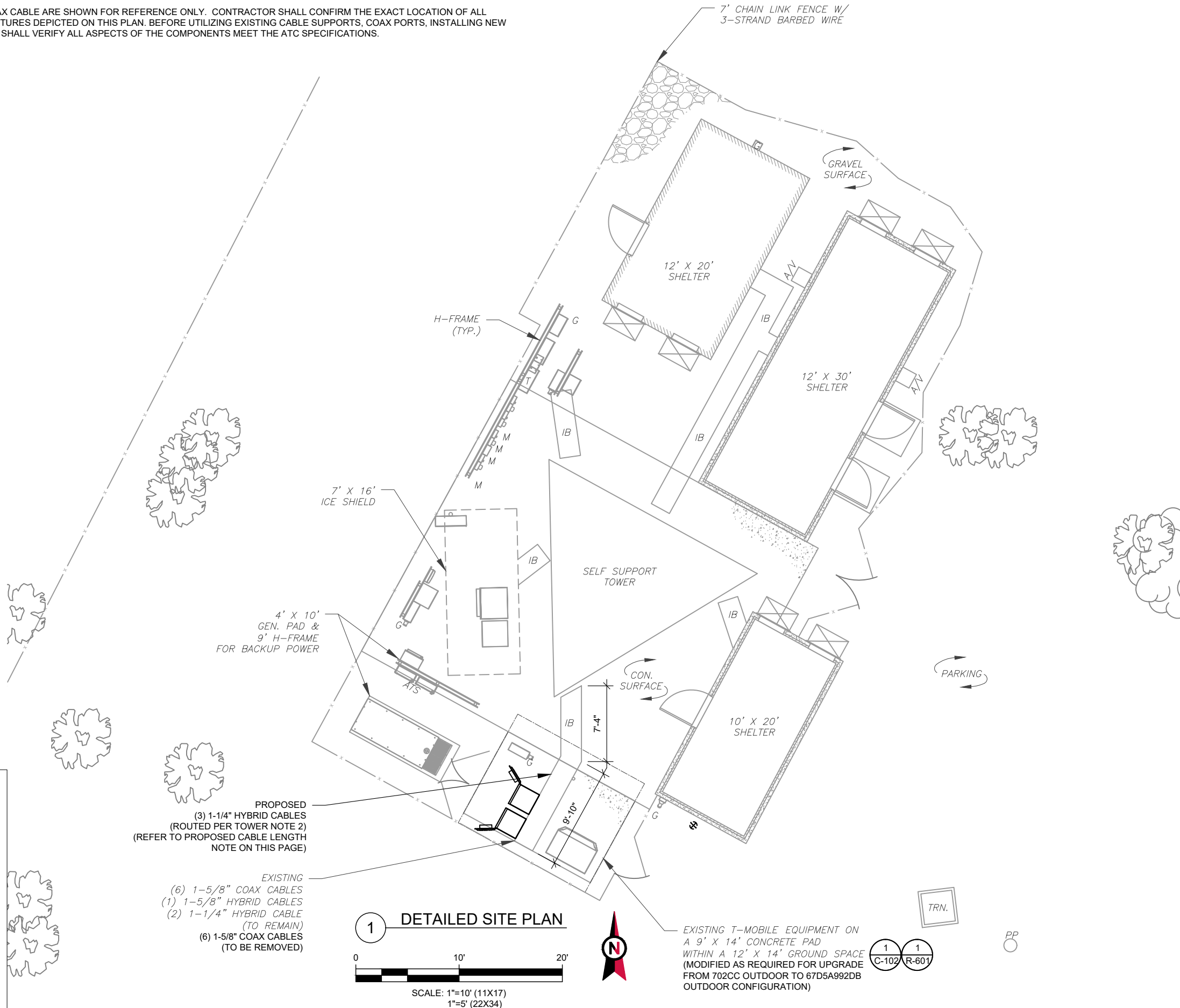
GENERAL NOTES

SHEET NUMBER: G-002	REVISION: 0
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SITE PLAN NOTES:

- THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
- ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.

LEGEND	
⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
—x—	CHAINLINK FENCE

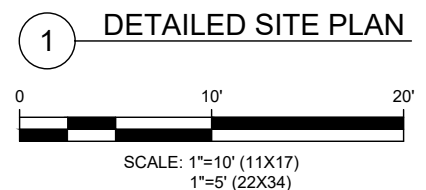


PROPOSED CABLE LENGTH:

- ESTIMATED LENGTH OF PROPOSED CABLE IS **190'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES). CDS DEFER TO GREATEST CABLE LENGTH.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).

PROPOSED
 (3) 1-1/4" HYBRID CABLES
 (ROUTED PER TOWER NOTE 2)
 (REFER TO PROPOSED CABLE LENGTH
 NOTE ON THIS PAGE)

EXISTING
 (6) 1-5/8" COAX CABLES
 (1) 1-5/8" HYBRID CABLES
 (2) 1-1/4" HYBRID CABLE
 (TO REMAIN)
 (6) 1-5/8" COAX CABLES
 (TO BE REMOVED)



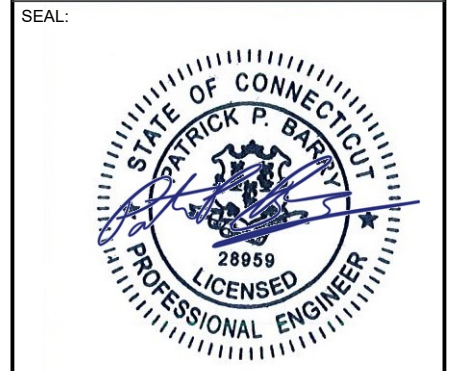
EXISTING T-MOBILE EQUIPMENT ON
 A 9' X 14' CONCRETE PAD
 WITHIN A 12' X 14' GROUND SPACE
 (MODIFIED AS REQUIRED FOR UPGRADE
 FROM 702CC OUTDOOR TO 67D5A992DB
 OUTDOOR CONFIGURATION)

AMERICAN TOWER®
A.T. ENGINEERING SERVICE, PLLC
 3500 REGENCY PARKWAY
 SUITE 100
 CARY, NC 27518
 PHONE: (919) 468-0112
 COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	BK	08/03/20
1	GROUND PLAN UPDATE	BK	08/11/20
2	CABLE UPDATE	BK	08/27/20

ATC SITE NUMBER:
302470
 ATC SITE NAME:
ANSONIA WAKELEE
 T-MOBILE SITE NAME:
SPECTRASITE - ANSONIA
 SITE ADDRESS:
 401 WAKELEE AVE
 ANSONIA, CT 06401



DATE DRAWN:	08/03/20
ATC JOB NO:	13252360_D1
CUSTOMER ID:	SPECTRASITE - ANSONIA
CUSTOMER #:	CT11810A

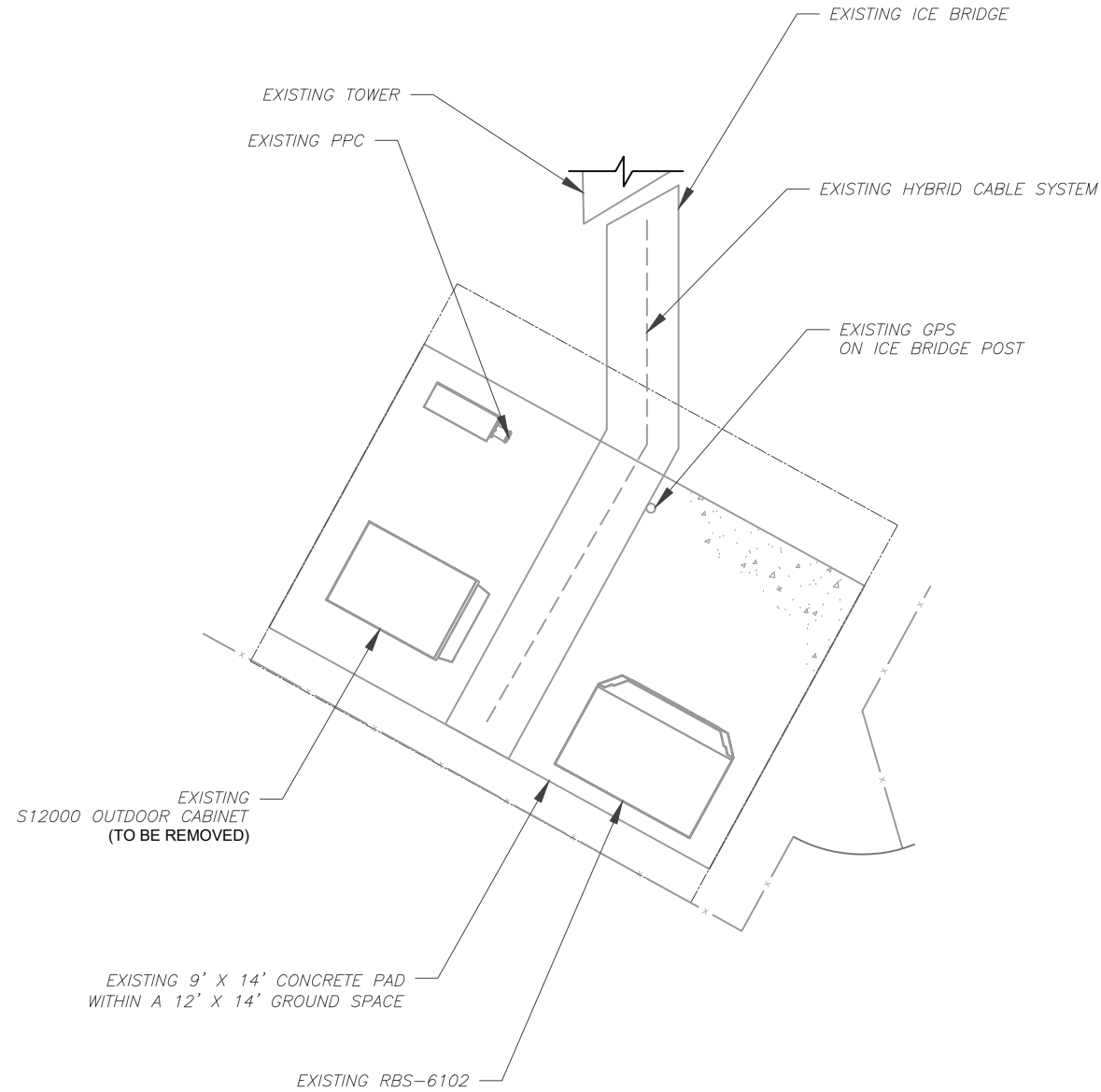
DETAILED SITE PLAN

SHEET NUMBER: C-101	REVISION: 2
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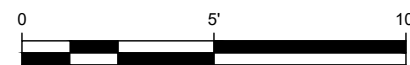
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SITE PLAN NOTES:

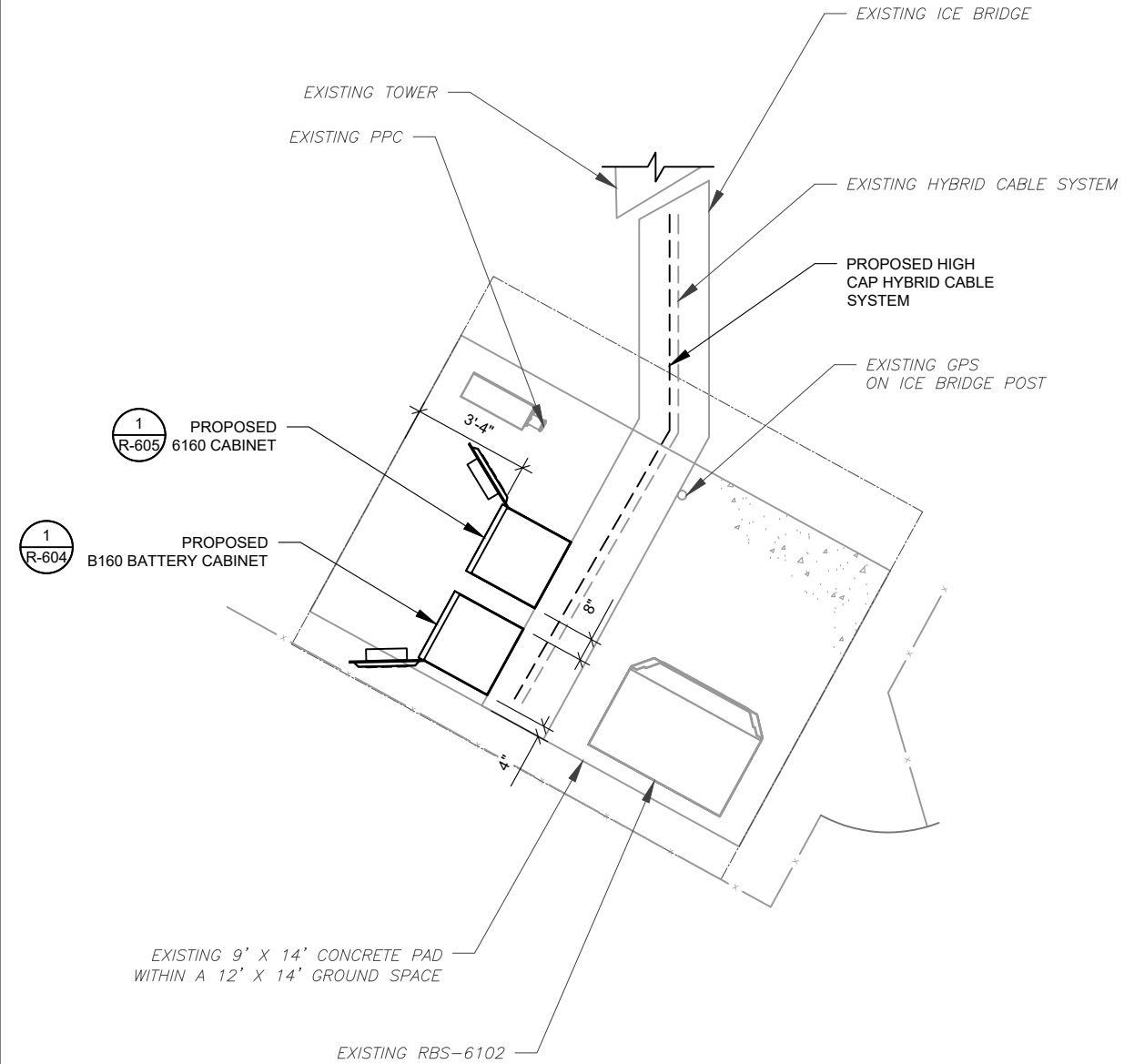
1. CONTRACTOR TO VERIFY THERE IS NO LIVE AAV FIBER RUNNING THROUGH EXISTING DEAD EQUIPMENT. IF SO, THIS WILL NEED TO BE RERUN THROUGH CONDUIT PRIOR TO REMOVING DEAD 2G (6201 CABS) EQUIPMENT.
2. REMOVE EXISTING 2G CABINETS, AND POWER / TELCO WHIPS ASSOCIATED WITH THE DEAD EQUIPMENT IF APPLICABLE.
3. ALL OPEN PORTS NEED TO BE SEALED / WEATHERPROOFED PROPERLY
4. ALL UNNEEDED / EXCESS EQUIPMENT AND GARBAGE TO BE REMOVED FROM EQUIPMENT AREA. DISPOSE OF MATERIALS PROPERLY OFF SITE.



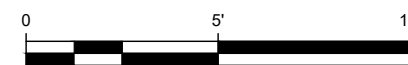
1 EXISTING GROUND EQUIPMENT LAYOUT



SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



2 PROPOSED GROUND EQUIPMENT LAYOUT



SCALE: 1"=5' (11X17)
1"=2.5' (22X34)



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 SITE ADDRESS:
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 ANSONIA, CT 06401

SEAL:

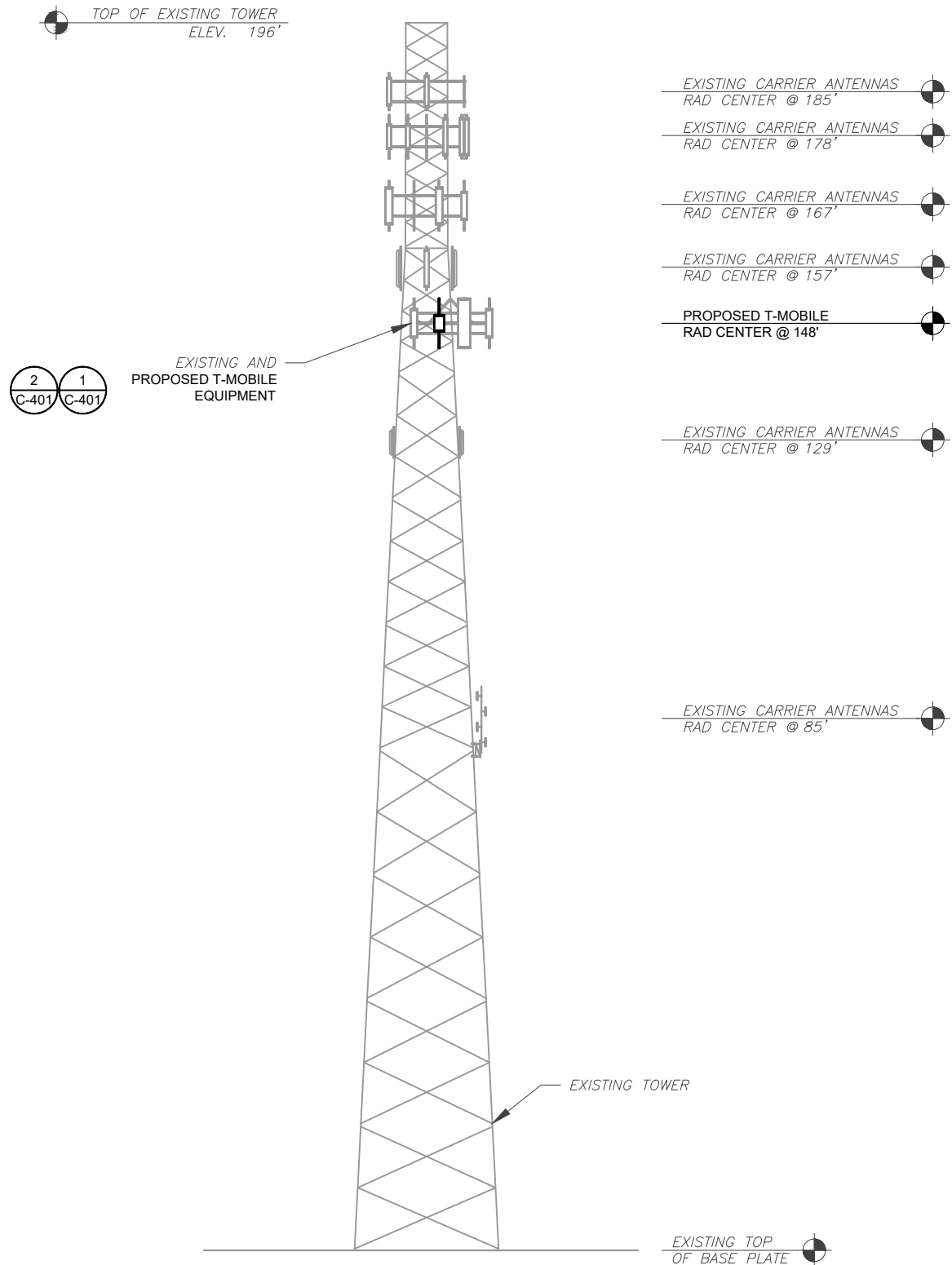


DATE DRAWN:	08/03/20
ATC JOB NO:	13252360_D1
CUSTOMER ID:	SPECTRASITE - ANSONIA
CUSTOMER #:	CT11810A

DETAILED GROUND PLAN

SHEET NUMBER:	REVISION:
C-102	1

PER MOUNT ANALYSIS COMPLETED BY INFINIGY,
DATED 07/21/20, THE EXISTING MOUNT CAN
ADEQUATELY SUPPORT THE PROPOSED LOADING



TOWER NOTE:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE AMERICAN TOWER CONSTRUCTION MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
- ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).
- TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

1 TOWER ELEVATION
SCALE: N.T.S.

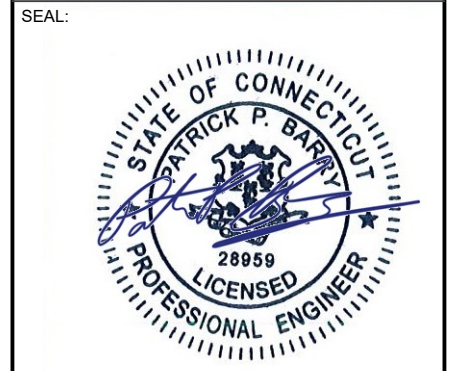


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ATC SITE NUMBER:
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ATC SITE NAME:
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T-MOBILE SITE NAME:
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SITE ADDRESS:
401 WAKELEE AVE
ANSONIA, CT 06401



DATE DRAWN:	08/03/20
ATC JOB NO:	13252360_D1
CUSTOMER ID:	SPECTRASITE - ANSONIA
CUSTOMER #:	CT11810A

TOWER ELEVATION

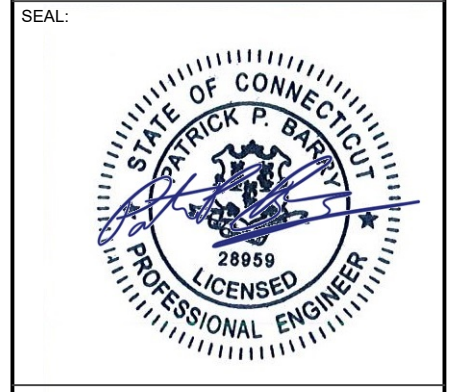
SHEET NUMBER:	REVISION:
C-201	0

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	BK	08/03/20
2	CABLE UPDATE	BK	08/27/20

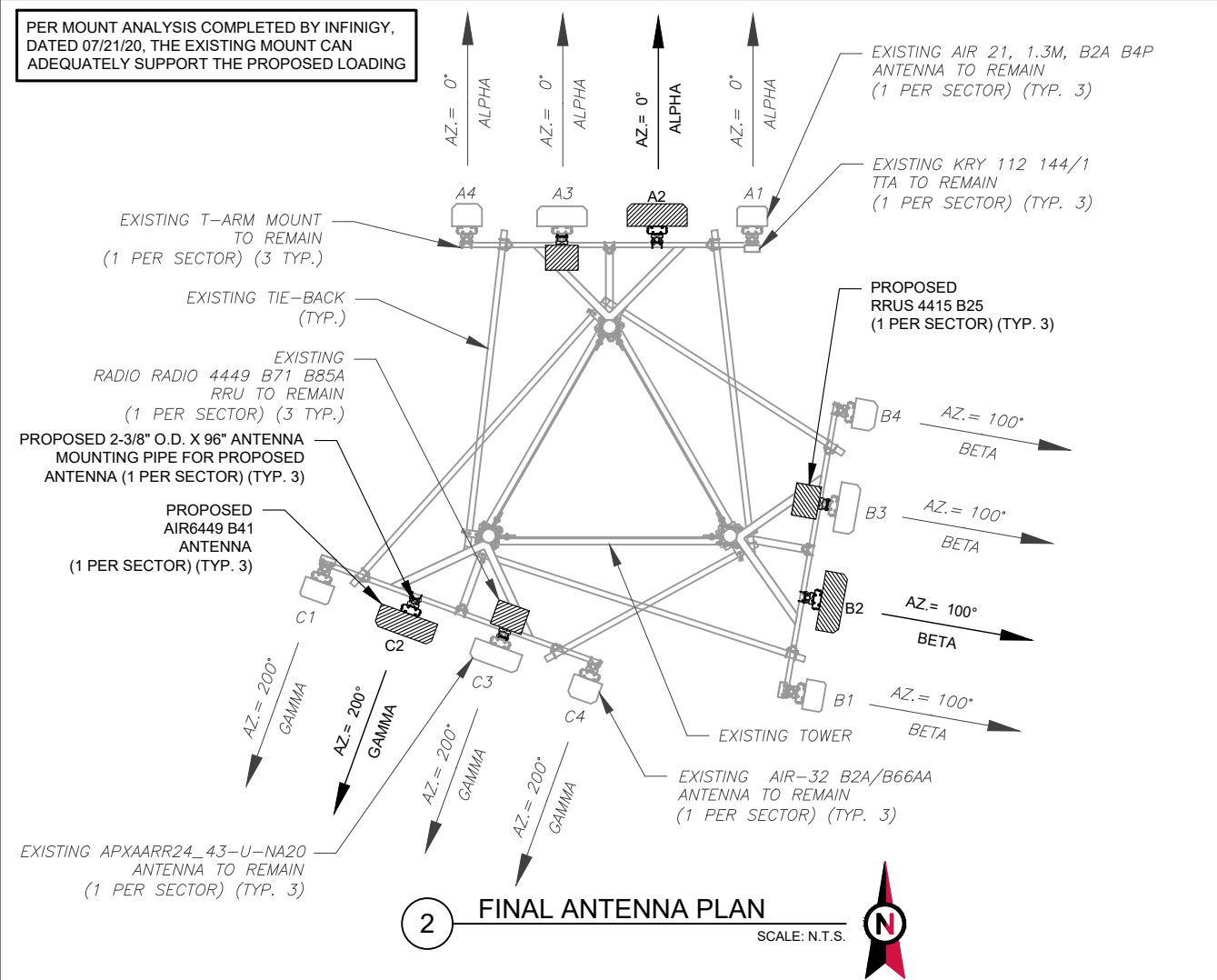
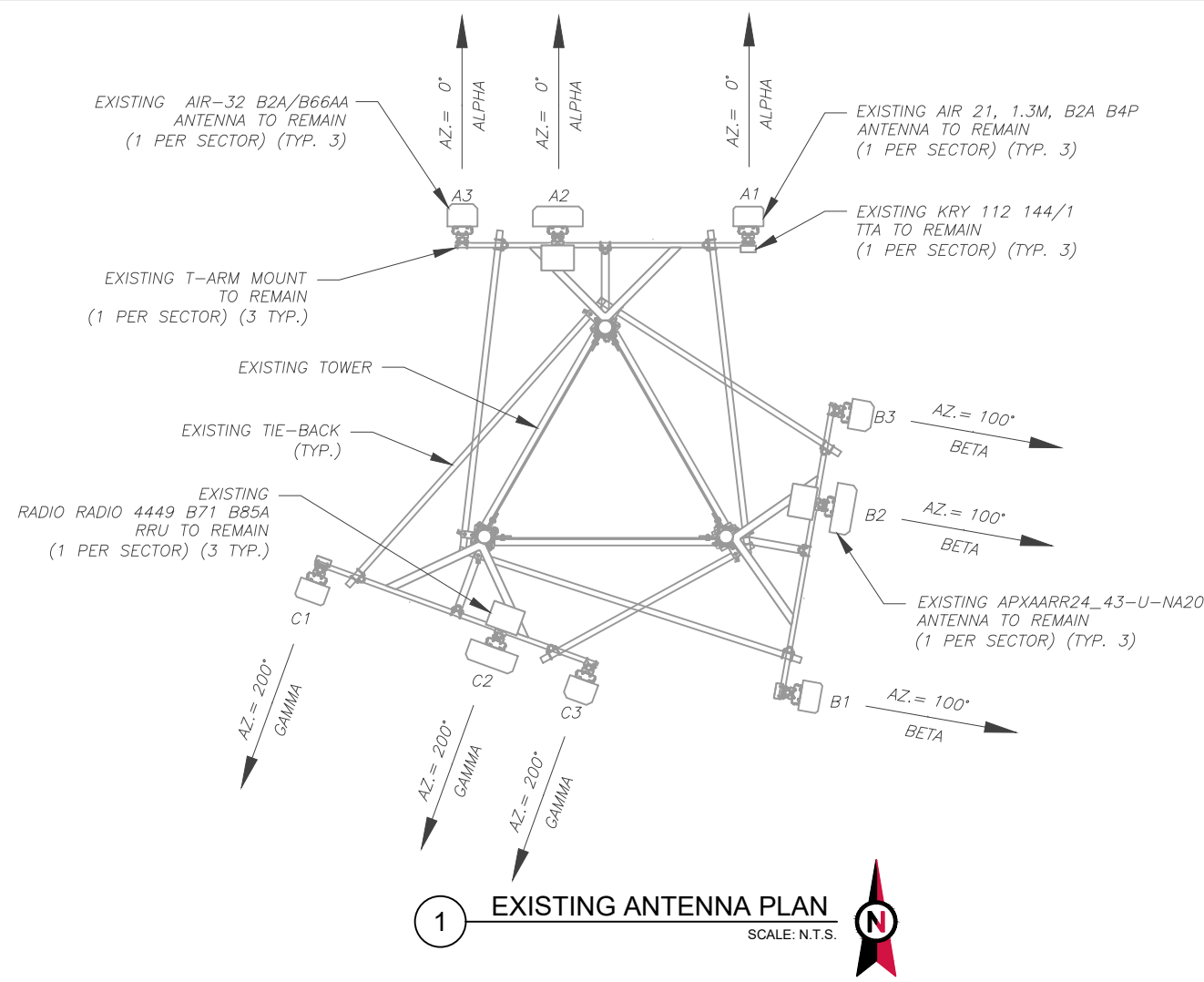
ATC SITE NUMBER:
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 ATC SITE NAME:
ANSONIA WAKELEE
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DATE DRAWN:	08/03/20
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CUSTOMER ID:	SPECTRASITE - ANSONIA
CUSTOMER #:	CT11810A

ANTENNA INFORMATION & SCHEDULE
 SHEET NUMBER:
C-401
 REVISION:
2

PER MOUNT ANALYSIS COMPLETED BY INFINIGY, DATED 07/21/20. THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



EXISTING ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	148'	0°	A1	AIR 21, 1.3M, B2A B4P	U1900/G1900/U2100	0°/2°	RMN	KRY 112 144/1	RMN
			A2	APXAARR24_43-U-NA20	N600/L600/L700	0°/2°	RMN	RADIO 4449 B71 B85A	RMN
			A3	AIR-32 B2A/B66AA	L2100	0°/2°	RMN	-	-
BETA	148'	100°	B1	AIR 21, 1.3M, B2A B4P	U1900/G1900/U2100	0°/2°	RMN	KRY 112 144/1	RMN
			B2	APXAARR24_43-U-NA20	N600/L600/L700	0°/2°	RMN	RADIO 4449 B71 B85A	RMN
			B3	AIR-32 B2A/B66AA	L2100	0°/2°	RMN	-	-
GAMMA	148'	200°	C1	AIR 21, 1.3M, B2A B4P	U1900/G1900/U2100	0°/2°	RMN	KRY 112 144/1	RMN
			C2	APXAARR24_43-U-NA20	N600/L600/L700	0°/2°	RMN	RADIO 4449 B71 B85A	RMN
			C3	AIR-32 B2A/B66AA	L2100	0°/2°	RMN	-	-

NOTES

- CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
- CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
 RMN: TO REMAIN
 REL: TO BE RELOCATED
 ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
 RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE									
LOCATION		ANTENNA SUMMARY					NON ANTENNA SUMMARY		
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	148'	0°	A1	AIR 21, 1.3M, B2A B4P	G1900/U2100	0°/2°	RMN	KRY 112 144/1	RMN
			A2	AIR6449 B41	L2500/N2500	0°/0°	ADD	-	-
			A3	APXAARR24_43-U-NA20	L600/N600/L700/L1900	0°/2°	RMN	RRUS 4415 B25	ADD
			A4	AIR-32 B2A/B66AA	L1900/L2100	0°/2°	RMN	RADIO 4449 B71 B85A	RMN
BETA	148'	100°	B1	AIR 21, 1.3M, B2A B4P	G1900/U2100	0°/2°	RMN	KRY 112 144/1	RMN
			B2	AIR6449 B41	L2500/N2500	0°/0°	ADD	-	-
			B3	APXAARR24_43-U-NA20	L600/N600/L700/L1900	0°/2°	RMN	RRUS 4415 B25	ADD
			B4	AIR-32 B2A/B66AA	L1900/L2100	0°/2°	RMN	RADIO 4449 B71 B85A	RMN
GAMMA	148'	200°	C1	AIR 21, 1.3M, B2A B4P	G1900/U2100	0°/2°	RMN	KRY 112 144/1	RMN
			C2	AIR6449 B41	L2500/N2500	0°/0°	ADD	-	-
			C3	APXAARR24_43-U-NA20	L600/N600/L700/L1900	0°/2°	RMN	RRUS 4415 B25	ADD
			C4	AIR-32 B2A/B66AA	L1900/L2100	0°/2°	RMN	RADIO 4449 B71 B85A	RMN

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	(6) 1-5/8"	(2) 1-1/4"	RMN
-	-	-	1-5/8"	RMN
-	-	(6) 1-5/8"	-	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
-	-	(6) 1-5/8"	(2) 1-1/4"	RMN
-	-	-	1-5/8"	RMN
-	-	-	(3) 1-1/4"	ADD



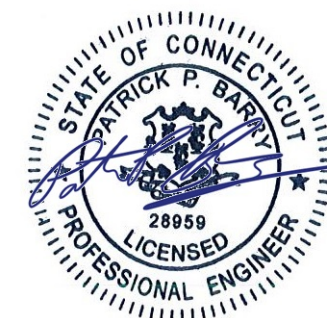
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302470
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ANSONIA WAKELEE
 T-MOBILE SITE NAME:
SPECTRASITE - ANSONIA
 SITE ADDRESS:
 401 WAKELEE AVE
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SEAL:

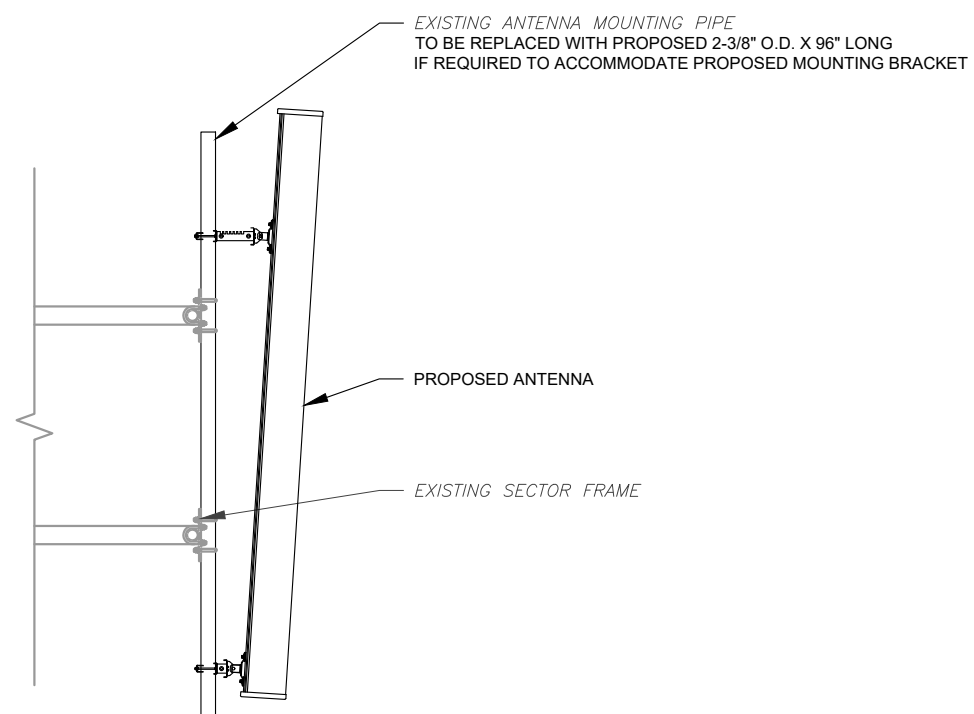


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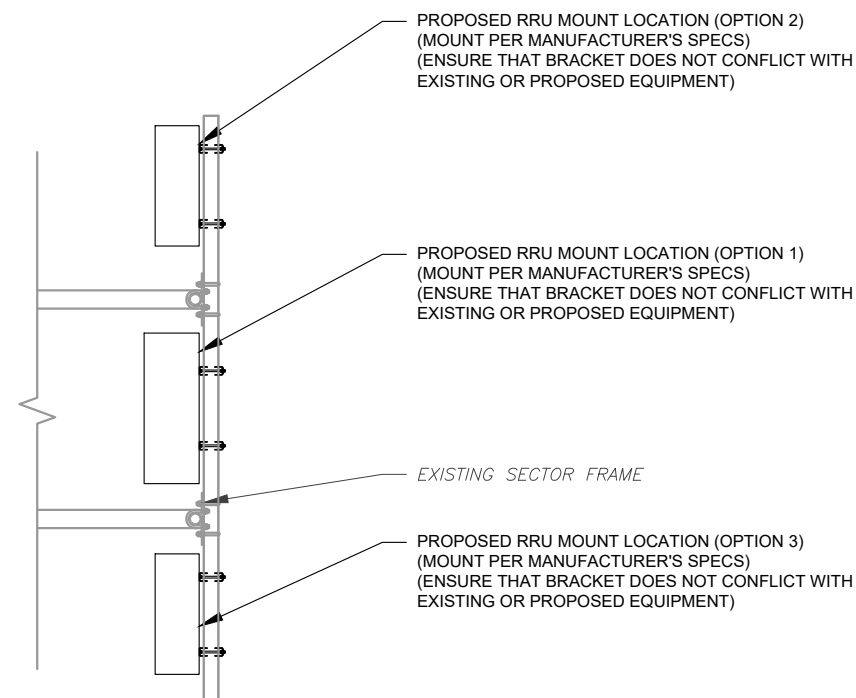
**CONSTRUCTION
 DETAILS**

SHEET NUMBER:
C-501

REVISION:
0



1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL
 SCALE: N.T.S.

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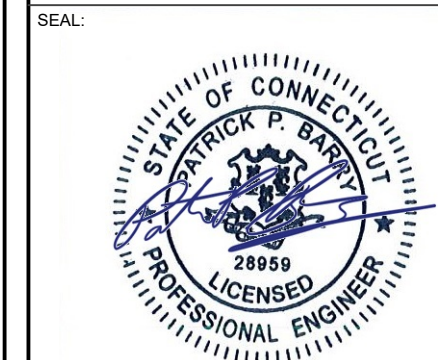


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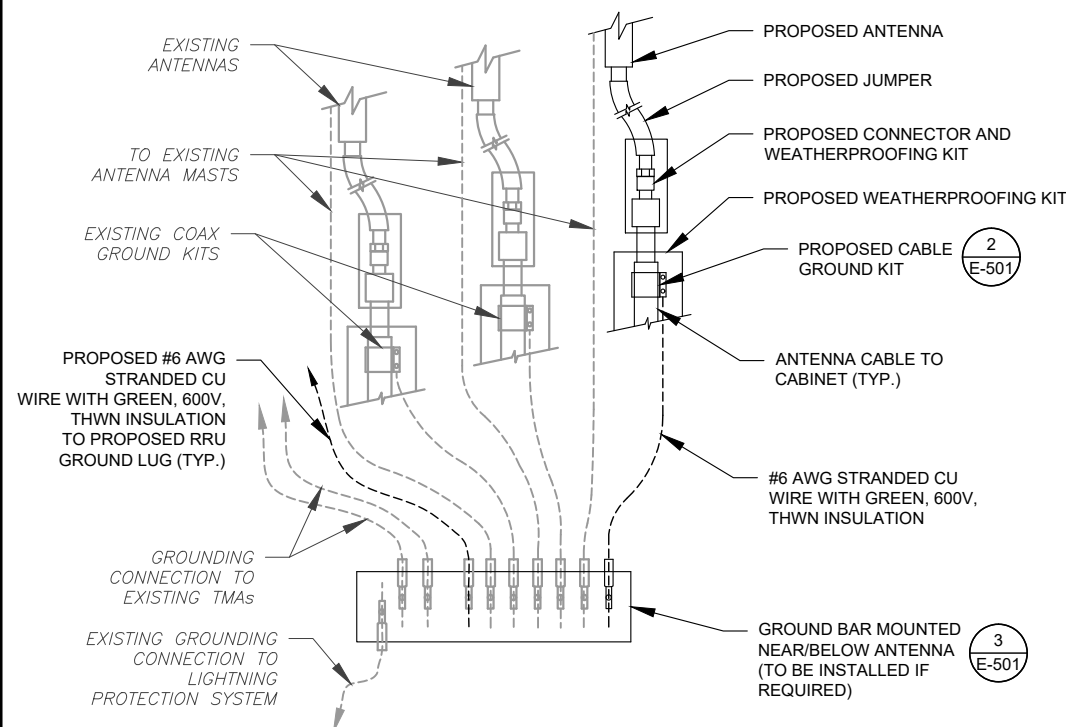
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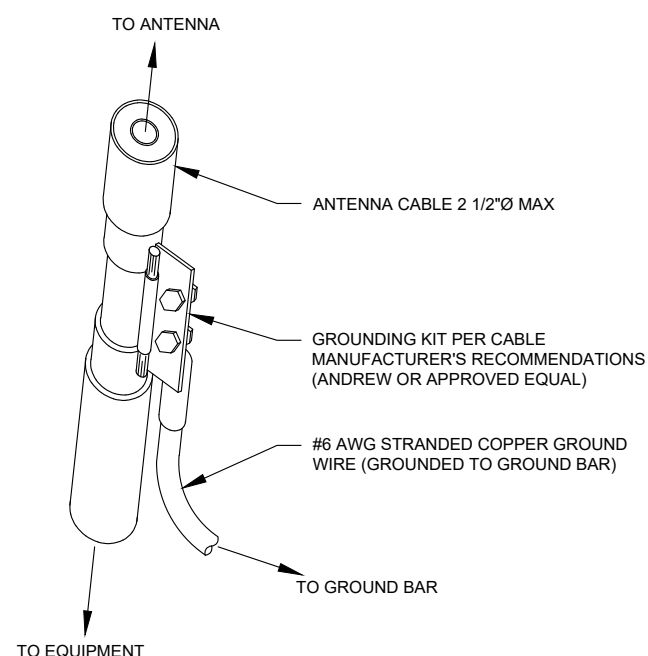
GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



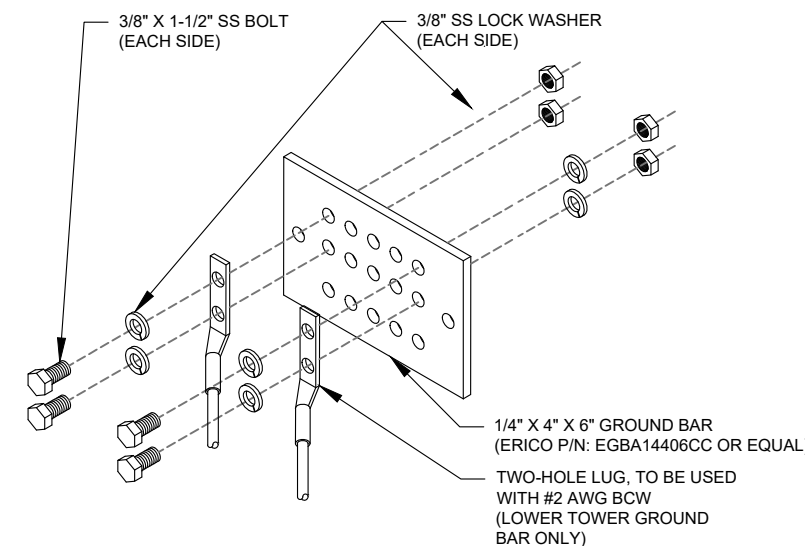
- NOTES:**
1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
 2. SITE GROUNDING SHALL COMPLY WITH T-MOBILE GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH T-MOBILE GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM
 SCALE: N.T.S.



- GROUND KIT NOTES:**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
 2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL
 SCALE: N.T.S.



- GROUND BAR NOTES:**
1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
 2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL
 SCALE: N.T.S.

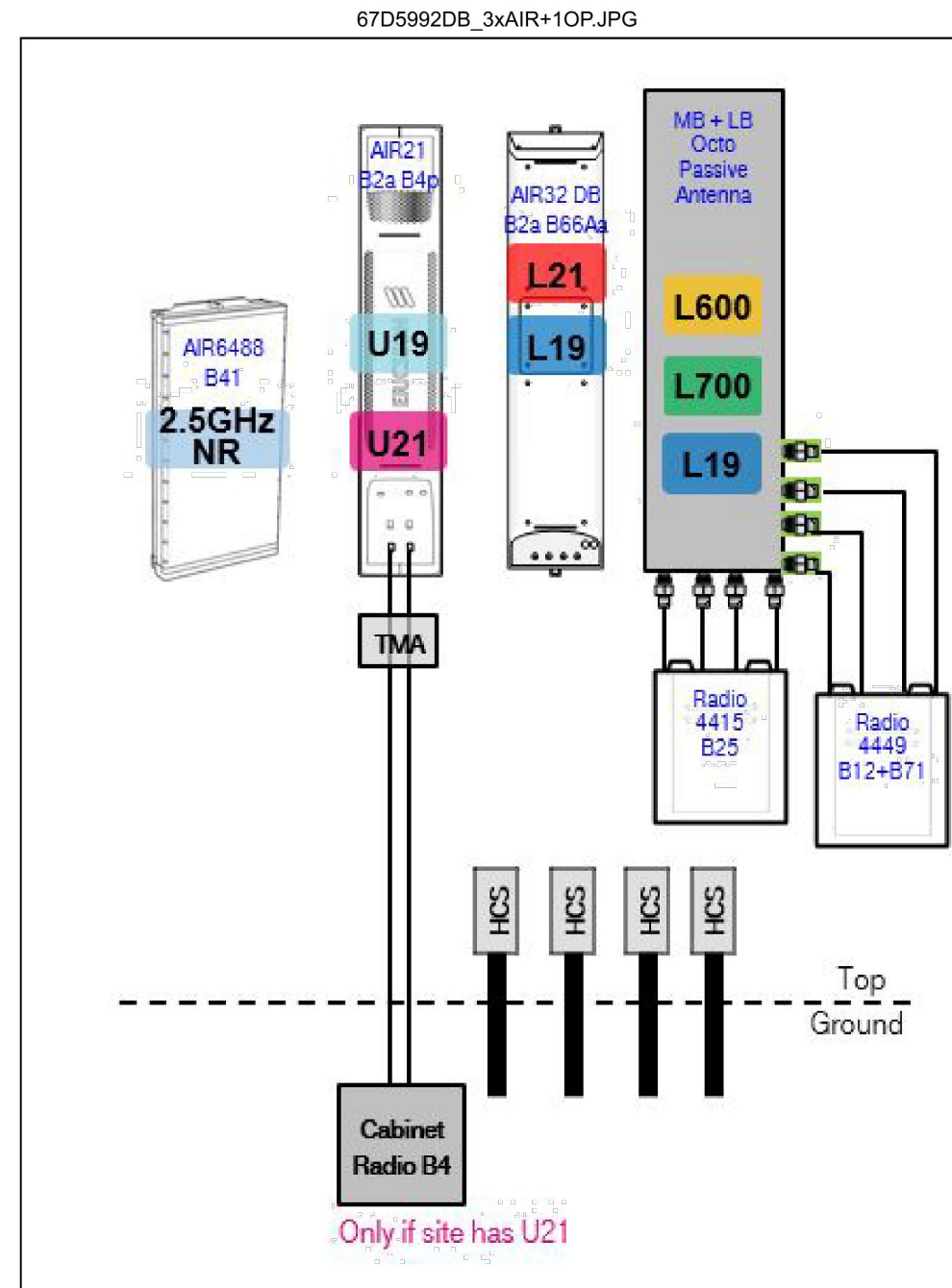
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Proposed RAN Equipment				
Template: 67D5A992DB Outdoor				
Enclosure	1	2	3	4
Enclosure Type	RBS 6131	Ancillary Equipment (Ericsson)	Enclosure 6160	B160
Baseband	DUW30 (U2100) DUG20 (G1900) BB 6630 (L600, L2100, L1900, L700) BB 6630 (N600)		BB 6630 (x 3) (L2500) BB 6648 (N2500)	
Hybrid Cable System		Ericsson 9x18 HCS *Select Length*	Ericsson 6x12 HCS *Select AWG & Length* (x 2)	
Radio	RU22 (x 6) (U2100)			

RAN Scope of Work:

- Add (1) BB6630 for N600 to existing RBS6131 cabinet.
- Nortel Cabinet is powered off. Remove Nortel Cabinet and sidecar.
- Add (1) Enclosure 6160.
- Add (1) Battery Cabinet B160.
- Add (1) iXRe Router to new Enclosure 6160.
- Add (3) BB6630 for L2500 to new Enclosure 6160.
- Add (1) BB6648 for N2500 to new Enclosure 6160.
- Existing: (12) 1 5/8 coax and (1) 9x18 HCS.
- Remove (6) Coaxial Lines for new total of (6) Coaxial Lines.
- Add (2) 6X12 HCS. Length of new HCS will match that of existing HCS.

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE



Notes:

2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

NOTE: THIS SHEET CREATED BY OTHERS AND PROVIDED BY REQUEST OF CUSTOMER WITHOUT EDIT.

SUPPLEMENTAL

SHEET NUMBER: R-601
REVISION: 0



Mount Analysis Report

July 20, 2020

T-Mobile Site Name	SpectraSite-Ansonia
T-Mobile Site Number	CT11810A
Asset Site Name	Ansonia Wakelee
Asset Site Number	302470
Infinigy Job Number	1009-Z0003-B
Client	ATC
Engineering Number	13252360_C8_02
Carrier	T-Mobile
Site Location	401 Wakelee Avenue Ansonia, CT 06401 41.356100 N NAD83 -73.092000 W NAD83
Mount Centerline EL.	148.0 ft
Mount Type	Sector
Structural Usage Ratio	82.2%
Overall Result	Pass

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



7/21/2020

M. Brad Davenport, P.E.

Structural Engineer Manager

AZ CA CO FL GA MD NC NH NJ NY TX WA



Mount Analysis Report

July 20, 2020

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the Proposed T-Mobile mounts. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.04 analysis software.

Supporting Documentation

Collocation Application	Collo App ID#302470, dated July 9, 2020
Proposed Loading	T-Mobile RFDS ID: CT11810A, dated May 19, 2020
Structural Analysis	ATC, Site ID: 302470, Engineering # 12942673_C3_04, dated April 28, 2020
Mount Modification Analysis	CLS Engineering, PLLC, Project # 41124-12942673-01-MA-R2, dated March 31, 2020

Analysis Code Requirements

Wind Speed	118 mph (3-Second Gust, V _{ULT})
Wind Speed w/ ice	50 mph (3-Second Gust, V _{ASD}) w/ 1.0" ice
TIA Revision	ANSI/TIA-222-H
Risk Category	II
Exposure Category	C
Topographic Category	1
Calculated Crest Height	0 ft.
Spectral Response	S _s = 0.202 g / S ₁ = 0.054 g
Site Class	D-Stiff Soil (Assumed)

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The mounts and connections are therefore deemed adequate to support the final loading configuration 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:

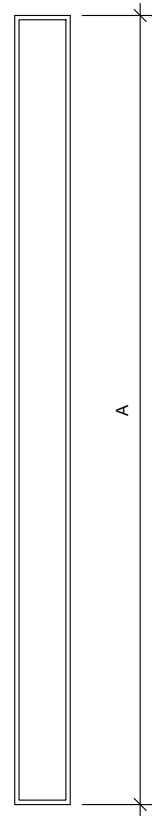
M. Brad Davenport, P.E.
Structural Engineer Manager | INFINIGY
1517 Old Apex Rd., Cary, NC 27513
(919) 606-9002 | bdavenport@infinigy.com | www.infinigy.com

SUPPLEMENTAL

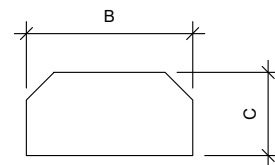
NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONSTRUCTION.

SHEET NUMBER:
R-602

REVISION:
0



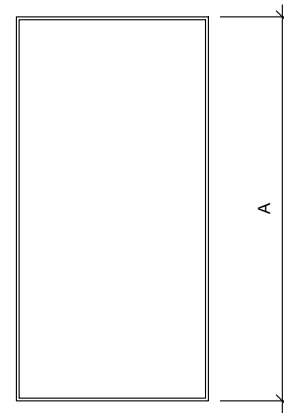
FRONT VIEW



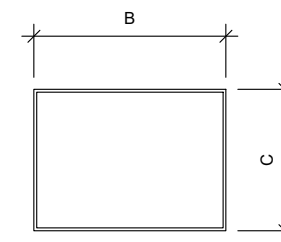
TOP VIEW

1 ANTENNA SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
AIR6449 B41	33.1"	20.6"	8.6"	104.0



FRONT VIEW



TOP VIEW

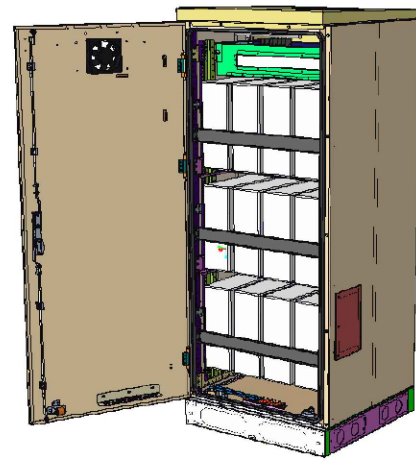
2 RRU SPECIFICATIONS
FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

RRU SPECIFICATIONS				
RRU MODEL	A	B	C	WEIGHT (LBS)
RADIO 4449 B71 B85A	15.0"	13.2"	10.5"	75.0
RRUS 4415 B25	16.5"	13.4"	5.9"	46.0

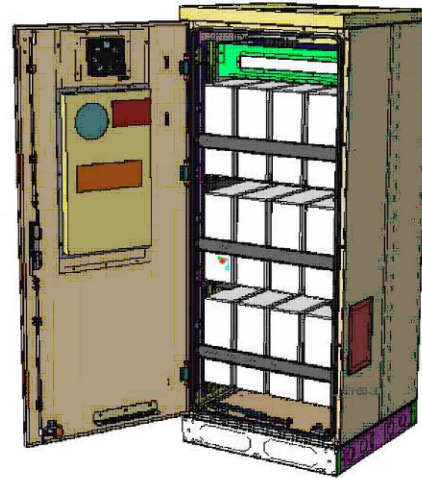
SUPPLEMENTAL

SHEET NUMBER: **R-603** REVISION: **0**

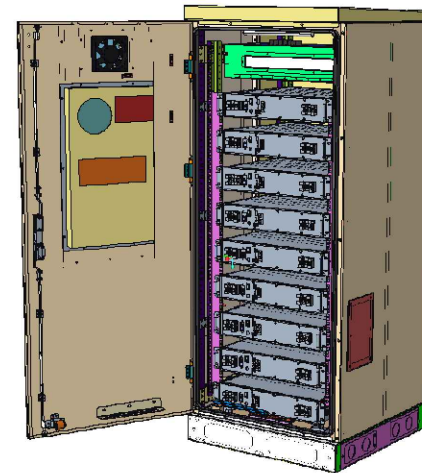
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

PA1 | 2019-02-03 | Ericsson Confidential | Page 1

Enclosure B160

Capacity

- VRLA 12V: 100Ah / 150Ah / 170Ah / 190Ah / 210Ah
- Li-Ion: 24U 19" / 23"
- Sodium-Nickel: 3x FIAMM

Electrical specification

- DC Output: -48VDC/200A
- Battery breakers: 2x 125/2p
- Alarms: Door open, Climate failure, MCB Connection

Mechanical specification

- Weight: 134kg
- Dimensions: 63 x 26 x 26 in. (incl. Base frame)
- Base frame height: 6 in.
- Material: Galvanized steel (180g/m²)
- Color: Powder paint NCS 2002-B
- Door: Front access
- Locking type: Pad lock / cylinder

Environmental specification

- Ingress protection: VRLA/Sodium IP44
Li-Ion IP55
 - Relative humidity: 15-100%
- ## Climate system
- Air Conditioner
 - Fan type: DC
 - Cooling capacity: 500W @L35/L35
 - Convection cooling
 - Emergency fan

PA1 | 2019-02-03 | Ericsson Confidential | Page 2

SUPPLEMENTAL

SHEET NUMBER:

R-604

REVISION:

0

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Enclosure 6160 AC

The Enclosure 6160 is a multi-purpose site cabinet designed to support a multitude of equipment such as ERS Baseband, Transport, Li-Ion battery and 3PP vendor equipment. It also provides a highly capable power system and battery back-up - all in a streamlined design and minimized footprint to support cost efficient expansion of mobile broadband.

Being an all-in-one enclosure, the Enclosure 6160 is a very fitting choice for all types of sites where the capacity need is large or room for future expansion is needed. It is ideally used for modernizing existing sites or in greenfield scenarios to match both current and future needs.

With a robust design, IP65 compliance and a sealed Heat Exchanger (HEX) climate system the Enclosure 6160 ensures optimal environmental protection of the active equipment - enabling them for a long-lasting service. The complete system is also integrated and verified for the entire Ericsson Radio System and ensures best-in-class service.

The power system offers 31,5kW of power in total and provides 24kW of -48V DC power for both internal and external consumers.

The equipment space allows 19U of rack space ensuring well enough capacity for existing need and future expansion.

One of the main advantages of the Enclosure 6160 is its default integration with ENM - allowing for advanced remote monitoring and control such a fault management (alarms), inventory management and performance measurements. The cabinet also provides an open O&M interface for integration to 3PP O&M systems.



Preliminary technical specification for Enclosure 6160 AC

CAPACITY

Rack space user equipment	19U (19" rack)
Hardware capabilities	Power and CPRI support for multi-standard remote radios (RRU or AIR) ERS Baseband and Transport units Li-Ion batteries 3PP equipment Additional power feed available as option

MECHANICAL SPECIFICATION

Weight	145 kg (excluding active equipment) 320 lbs (excluding active equipment)
Dimension (H x W x D)	1600 x 650 x 650 mm (incl. Base frame) 63 x 26 x 26 in. (incl. Base frame)
Base frame height	150 mm 6 in.
Mounting position	Ground
Enclosure material	Aluminum
Color	Power paint NCS 2002-B
Door	Front access
Rack type	19" (IEC 60297-3-100)
Locking type	Pad lock or Cylinder

POWER SYSTEM

Input voltage	3P+N+PE: 346/200-415/240 VAC 2P+N+PE: 208/120-220/127 VAC 1P+N+PE: 200-250 VAC
Input power	<33kW
Output load (-48VDC)	24kW
Total capacity (-48VDC)	31.5kW
AC SPD	Class 2/Type 2
DC SPD	Class 2/Type 2
PSU Slots	9x
Service outlet	Optional
Priority load	8x Circuit Breaker
LLVD 1	6x Circuit Breaker
LLVD 2	6x Circuit Breaker
CB ratings	3A / 5A / 10A / 15A / 20A / 25A / 30A / 40A / 50A / 60A / 80A / 100A
Battery Interface	2x Circuit Breaker
Battery Circuit Breaker rating	125A 2pol (200A)
PSU capacity	3500W

SUPPLEMENTAL

SHEET NUMBER:

R-605

REVISION:

0

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Exhibit D

Structural Analysis Report



AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure : 196 ft Self Supported Tower
ATC Site Name : Ansonia Wakelee, CT
ATC Asset Number : 302470
Engineering Number : 13252360_C3_03
Proposed Carrier : T-MOBILE
Carrier Site Name : SpectraSite - Ansonia
Carrier Site Number : CT11810A
Site Location : 401 Wakelee Ave
Ansonia, CT 06401-1226
41.356100,-73.092000
County : New Haven
Date : July 23, 2020
Max Usage : 78%
Result : Pass



Prepared By:
Steven Nedrud
Structural Engineer

Reviewed By:

COA: PEC.0001553



Table of Contents

Introduction	1
Supporting Documents	1
Analysis	1
Conclusion.....	1
Existing and Reserved Equipment.....	2
Equipment to be Removed.....	3
Proposed Equipment	3
Structure Usages	4
Foundations	4
Deflection, Twist, and Sway.....	4
Standard Conditions	5
Calculations	Attached



Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 196 ft self supported tower to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	Rohn Drawing #A991899, dated July 7, 1999
Foundation Drawing	Rohn Drawing #A992523-1, dated September 22, 1999
Geotechnical Report	Tectonic Engineering Consultants W.O. #1170.C754, dated May 20, 1999
Mount Analysis	Infinigy #1009-Z0003-B, dated July 20, 2020

Analysis

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

Basic Wind Speed:	118 mph (3-Second Gust)
Basic Wind Speed w/ Ice:	50 mph (3-Second Gust) w/ 1" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	C
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	$S_s = 0.19, S_1 = 0.06$
Site Class:	D - Stiff Soil

Conclusion

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

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.



Existing and Reserved Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
192.0	3	Alcatel-Lucent 1900 MHz 4X45 RRH	Sector Frame	(4) 1 1/4" Hybriflex Cable	SPRINT NEXTEL
188.0	3	Alcatel-Lucent 800MHz RRH and Type 1 Notch Filter			
185.0	3	Alcatel-Lucent TD-RRH8x20-25 w/ Solar Shield			
	3	Alcatel-Lucent 800 MHz RRH			
	3	KMW ET-X-WM-18-65-8P			
	1	RFS APXVSP18-C-A20			
	2	Powerwave Allgon P40-16-XLPP-RRR			
178.0	3	Ryma MGD3-800TX	Sector Frame	(6) 1 5/8" Coax (2) 1 5/8" Hybriflex	VERIZON WIRELESS
177.0	6	JMA Wireless MX06FRO660-02			
	2	RFS DB-T1-6Z-8AB-OZ			
	3	Amphenol Antel BXA-80080-4CF-EDIN-X			
	3	Commscope SSPX310R			
	3	Samsung B5/B13 RRH-BR04C			
	3	Samsung B2/B66A RRH-BR049			
	3	Samsung Outdoor CBRS 20W RRH			
	3	RFS FD9R6004/2C-3L	Leg/Flush		
167.0	3	Ericsson RRUS E2 B29	Sector Frame	(2) 0.39" (10mm) Fiber Trunk (8) 0.78" (19.7mm) 8 AWG 6 (12) 1 1/4" Coax (1) 2" conduit	AT&T MOBILITY
	3	Ericsson RRUS 11 (Band 12) (55 lb)			
	2	CCI OPA65R-BU6A			
	2	CCI OPA-65R-LCUU-H6			
	1	CCI OPA65R-BU8B			
	2	CCI TPA65R-BU6D			
	1	CCI OPA-65R-LCUU-H8			
	1	CCI TPA65R-BU8D			
	3	Ericsson RRUS-32 (77 lbs)			
	6	Powerwave Allgon TT19-08BP111-001			
	6	Kaelus DBCT108F1V92-1			
	3	Raycap DC6-48-60-18-8F ("Squid")			
	1	Raycap DC6-48-60-0-8F (24" Height)			
	3	Ericsson RRUS 4478 B5			
	3	Ericsson Radio 8843 - B2 + B66A (w/ protruding items)			
3	Ericsson RRUS 4478 B14				
157.0	3	Kathrein Scala 742 213	Leg	(6) 1 5/8" Coax	METRO PCS INC
148.0	3	Ericsson AIR-32 B2A/B66Aa	Sector Frame	(1) 1 1/4" (1.25"-31.8mm) Fiber (3) 1 5/8" (1.63"-41.3mm) Fiber (6) 1 5/8" Coax	T-MOBILE
	3	Ericsson KRY 112 144/1			
	3	Ericsson RRUS 32 (50.8 lbs)			
	3	RFS APXVAARR24_43-U-NA20			
	3	Ericsson AIR 21, 1.3 M, B2A B4P			
125.0	2	Motorola PTP54600	Leg	(2) 1/4" Coax	CITY OF ANSONIA, CT
85.0	1	Generic 10' Dipole	Stand-Off	(1) 1/2" Coax	
76.0	1	PCTEL GPS-TMG-HR-26N	Stand-Off	(1) 1/2" Coax	



Equipment to be Removed

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
148.0	3	Ericsson Radio 4449 B12,B71	-	-	T-MOBILE

Proposed Equipment

Elev. ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
148.0	3	Ericsson Radio 4449 B71 B85A	Sector Frame	(2) 1 1/4" (1.25"-31.8mm) Fiber	T-MOBILE
	3	Ericsson RRUS 4415 B25			
	3	Ericsson Air6449 B41			

¹ Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines alongside existing T-MOBILE lines.



Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	76%	Pass
Diagonals	73%	Pass
Horizontals	10%	Pass
Anchor Bolts	54%	Pass
Leg Bolts	61%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Moment (K-ft)	6,297.6	8,501.8	6,370.8	75%
Uplift (Kips)	301.1	406.5	291.0	72%
Axial (Kips)	343.0	463.1	338.7	73%
Shear (Kips)	54.4	73.4	57.0	78%

* The design reactions are factored by 1.35 per ANSI/TIA-222-H, Sec. 15.6.2

The structure base reactions resulting from this analysis are acceptable when compared to those shown on the original structure drawings, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
148.0	Ericsson Air6449 B41	T-MOBILE	0.266	0.012	0.215
	Ericsson Radio 4449 B71 B85A				
	Ericsson RRUS 4415 B25				

*Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H



Standard Conditions

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

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

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

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

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

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

Quadrant 1

196.00

Sect 10

180.00

Sect 9

160.00

Sect 8

140.00

Sect 7

120.00

Sect 6

100.00

Sect 5

80.00

Sect 4

60.00

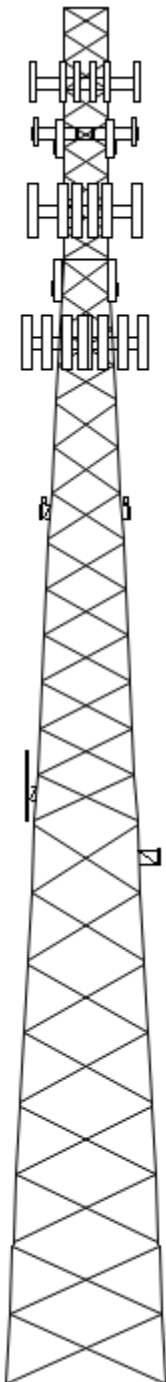
Sect 3

40.00

Sect 2

20.00

Sect 1



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Loads: 118 mph no ice
50 mph w/ 1" radial ice
Site Class: D Ss: 0.19 S1: 0.06
60 mph Serviceability

Job Information

Client : T-MOBILE		
Tower : 302470	Location : Ansonia	Base Width : 23.00 ft
Code : ANSI/TIA-222-H	Topo Method: Method 1	Top Width : 6.65 ft
Risk Cat : II	Topo: 1	Tower Ht : 196.00 ft
	Exposure : C	Shape : Triangle

Sections Properties

Section	Leg Members	Diagonal Members	Horizontal Members
1	PX 50 ksi 8" DIA PIPE	SAE 50 ksi 4X4X0.25	
2	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 4X4X0.25	
3	PSP 50 ksi ROHN 8 EHS	SAE 50 ksi 3.5X3.5X0.25	
4	PX 50 ksi 6" DIA PIPE	SAE 50 ksi 3.5X3.5X0.25	
5	PSP 50 ksi ROHN 6 EHS	SAE 50 ksi 3X3X0.25	
6 - 7	PX 50 ksi 5" DIA PIPE	SAE 36 ksi 2.5X2.5X0.25	SAE 36 ksi 2X2X0.125
8	PX 50 ksi 4" DIA PIPE	SAE 36 ksi 2X2X0.25	
9	PX 50 ksi 3" DIA PIPE	SAE 36 ksi 2X2X0.1875	
10	PST 50 ksi 2-1/2" DIA PIPE	SAE 36 ksi 1.75X1.75X0.1875	SAE 36 ksi 2X2X0.125

Discrete Appurtenance

Elev (ft)	Type	Qty	Description
192.00		3	Alcatel-Lucent 1900 MHz 4X45 R
188.00		3	Alcatel-Lucent 800MHz RRH and
185.00	Panel	1	Powerwave Allgon P40-16-XLPP-R
185.00	Panel	2	Powerwave Allgon P40-16-XLPP-R
185.00	Panel	1	RFS APXVSP18-C-A20
185.00	Panel	3	KMW ET-X-WM-18-65-8P
185.00		3	Alcatel-Lucent TD-RRH8x20-25 w
185.00		3	Alcatel-Lucent 800 MHz RRH
185.00	Mounting Frame	3	Round Sector Frames
178.00	Mounting Frame	3	Flat Light Sector Frames
178.00	Panel	3	Rymsa MGD3-800TX
177.00	Panel	6	JMA Wireless MX06FRO660-02
177.00		2	RFS DB-T1-6Z-8AB-0Z
177.00	Panel	3	Amphenol Antel BXA-80080-4CF-E
177.00	Panel	3	Commscope SSPX310R
177.00		3	Samsung B5/B13 RRH-BR04C
177.00		3	Samsung B2/B66A RRH-BR049
177.00		3	Samsung Outdoor CBRS 20W
177.00		3	RFS FD9R6004/2C-3L
167.00	Mounting Frame	3	Round Sector Frames
167.00	Panel	1	CCI TPA65R-BU8D
167.00	Panel	1	CCI OPA-65R-LCUU-H8
167.00	Panel	2	CCI TPA65R-BU6D
167.00	Panel	1	CCI OPA65R-BU8B
167.00	Panel	2	CCI OPA-65R-LCUU-H6
167.00	Panel	2	CCI OPA65R-BU6A
167.00		3	Ericsson RRUS-32 (77 lbs)
167.00		3	Ericsson RRUS E2 B29
167.00		3	Ericsson RRUS 11 (Band 12) (55
167.00		3	Ericsson RRUS 4478 B14
167.00		3	Ericsson Radio 8843 - B2 + B66
167.00		3	Ericsson RRUS 4478 B5
167.00		1	Raycap DC6-48-60-0-8F (24" Hei
167.00		3	Raycap DC6-48-60-18-8F ("Squid
167.00		6	Kaelus DBCT108F1V92-1
167.00		6	Powerwave Allgon TT19-08BP111-
157.00	Panel	3	Kathrein Scala 742 213
148.00	Mounting Frame	3	Round Sector Frame
148.00	Panel	3	RFS APXVAARR24_43-U-NA20
148.00	Panel	3	Ericsson AIR-32 B2A/B66Aa
148.00	Panel	3	Ericsson AIR 21, 1.3 M, B2A B4
148.00	Panel	3	Ericsson Air6449 B41
148.00		3	Ericsson RRUS 32 (50.8 lbs)
148.00		3	Ericsson RRUS 4415 B25

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Job Information		
Client : T-MOBILE		
Tower : 302470	Location : Ansonia	Base Width : 23.00 ft
Code : ANSI/TIA-222-H	Topo Method: Method 1	Top Width : 6.65 ft
Risk Cat : II	Topo: 1	Tower Ht : 196.00 ft
	Exposure : C	Shape : Triangle

148.00	3	Ericsson Radio 4449 B71 B85A
148.00	3	Ericsson KRY 112 144/1
125.00 Panel	2	Motorola PTP54600
102.00 Straight Arm	2	Standoffs
85.00 Whip	1	Generic 10' Dipole
80.00 Straight Arm	1	Standoffs
76.00 Straight Arm	1	Standoffs
76.00 Whip	1	PCTEL GPS-TMG-HR-26N

Linear Appurtenance			
Elev (ft)			
From	To	Qty	Description
8.00	194.00	1	Wave Guide
8.00	185.00	1	Wave Guide
8.00	185.00	1	1 1/4" Hybriflex Cab
8.00	185.00	3	1 1/4" Hybriflex Cab
8.00	177.00	2	1 5/8" Hybriflex
8.00	177.00	6	1 5/8" Coax
8.00	167.00	1	Wave Guide
8.00	167.00	1	2" conduit
8.00	167.00	12	1 1/4" Coax
8.00	167.00	8	0.78" (19.7mm) 8 AWG
8.00	167.00	2	0.39" (10mm) Fiber T
8.00	157.00	1	Waveguide
8.00	157.00	6	1 5/8" Coax
8.00	148.00	1	Wave Guide
0.00	148.00	6	1 5/8" Coax
0.00	148.00	3	1 5/8" (1.63"-41.3mm
0.00	148.00	2	1 1/4" (1.25"- 31.8m
0.00	148.00	1	1 1/4" (1.25"- 31.8m
8.00	125.00	2	1/4" Coax
8.00	85.00	1	1/2" Coax
8.00	76.00	1	1/2" Coax

Global Base Foundation Design Loads			
Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	6,370.79	56.58	56.95
DL + WL + IL	1,970.65	119.72	18.29

Individual Base Foundation Design Loads		
Vertical (kip)	Uplift (kip)	Horizontal (kip)
338.70	291.01	34.78

Site Number: 302470

Code:

ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Analysis Parameters

Location:	New Haven County, CT	Height (ft):	196
Code:	ANSI/TIA-222-H	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	23.00
Tower Manufacturer:	Rohn	Top Face Width (ft):	6.65
Tower Type:	Self Support	Anchor Bolt Detail Type	d
Kd:	0.85		
Ke:	1.00		

Ice & Wind Parameters

Exposure Category:	C	Design Windspeed Without Ice:	118 mph
Risk Category:	II	Design Windspeed With Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	129.30 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method		
Site Class:	D - Stiff Soil		
Period Based on Rayleigh Method (sec):	0.96		
T _L (sec):	6	p:	1.3
S _S :	0.190	S ₁ :	0.060
F _a :	1.600	F _V :	2.400
S _{ds} :	0.203	S _{d1} :	0.096
		C _S :	0.033
		C _S , Max:	0.033
		C _S , Min:	0.030

Load Cases

1.2D + 1.0W Normal	118 mph Normal with No Ice
1.2D + 1.0W 60 deg	118 mph 60 degree with No Ice
1.2D + 1.0W 90 deg	118 mph 90 degree with No Ice
0.9D + 1.0W Normal	118 mph Normal with No Ice (Reduced DL)
0.9D + 1.0W 60 deg	118 mph 60 deg with No Ice (Reduced DL)
0.9D + 1.0W 90 deg	118 mph 90 deg with No Ice (Reduced DL)
1.2D + 1.0Di + 1.0Wi Normal	50 mph Normal with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 60 deg	50 mph 60 deg with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 90 deg	50 mph 90 deg with 1.00 in Radial Ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic Normal
1.2D + 1.0Ev + 1.0Eh 60 deg	Seismic 60 deg
1.2D + 1.0Ev + 1.0Eh 90 deg	Seismic 90 deg
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL) Normal
0.9D - 1.0Ev + 1.0Eh 60 deg	Seismic (Reduced DL) 60 deg
0.9D - 1.0Ev + 1.0Eh 90 deg	Seismic (Reduced DL) 90 deg
1.0D + 1.0W Service Normal	Serviceability - 60 mph Wind Normal
1.0D + 1.0W Service 60 deg	Serviceability - 60 mph Wind 60 deg
1.0D + 1.0W Service 90 deg	Serviceability - 60 mph Wind 90 deg

Site Number: 302470

Code:

ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Tower Loading

Discrete Appurtenance Properties 1.2D + 1.0W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
192.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	43.79	104	216
188.0	Alcatel-Lucent	3	64	1.8	1.3	13.8	13.0	0.80	0.50	0.0	0.0	43.59	80	230
185.0	Alcatel-Lucent 800	3	53	2.1	1.6	13.0	10.8	0.80	0.50	0.0	0.0	43.44	95	191
185.0	Alcatel-Lucent TD-	3	70	4.0	2.2	18.6	6.7	0.80	0.61	0.0	0.0	43.44	219	252
185.0	KMW ET-X-WM-18-	3	36	6.7	5.1	12.0	4.3	0.80	0.63	0.0	0.0	43.44	373	131
185.0	Powerwave Allgon	2	64	9.1	4.5	20.0	6.5	0.80	1.00	0.0	0.0	43.44	536	154
185.0	Powerwave Allgon	1	64	9.1	4.5	20.0	6.5	0.80	1.00	0.0	0.0	43.44	268	77
185.0	RFS APXVSP18-C-	1	57	8.0	6.0	11.8	7.0	0.80	1.00	0.0	0.0	43.44	237	68
185.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	43.44	897	1080
178.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	43.09	988	1440
178.0	Rymosa MGD3-800TX	3	15	3.3	4.4	6.3	3.5	0.80	0.69	0.0	0.0	43.09	203	55
177.0	Amphenol Antel BXA-	3	12	3.6	4.0	8.0	5.9	0.80	0.72	0.0	0.0	43.04	226	43
177.0	Commscope	3	17	2.9	2.5	11.8	4.5	0.80	0.67	0.0	0.0	43.04	171	59
177.0	JMA Wireless	6	46	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.0	43.04	1231	331
177.0	RFS DB-T1-6Z-8AB-	2	44	4.8	2.0	24.0	10.0	0.80	0.72	1.0	202.5	43.09	203	106
177.0	RFS FD9R6004/2C-3L	3	3	0.3	0.5	6.5	1.5	1.00	0.50	0.0	0.0	43.04	17	9
177.0	Samsung B2/B66A	3	84	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.0	43.04	82	304
177.0	Samsung B5/B13	3	70	1.9	1.3	15.0	8.1	0.80	0.50	0.0	0.0	43.04	82	253
177.0	Samsung Outdoor	3	19	0.9	1.0	8.5	4.1	0.80	0.50	0.0	0.0	43.04	38	67
167.0	CCI OPA-65R-LCUU-	2	73	9.7	6.0	14.8	7.4	0.80	0.75	0.0	0.0	42.52	419	175
167.0	CCI OPA-65R-LCUU-	1	88	13.0	7.7	14.8	7.4	0.80	1.00	0.0	0.0	42.52	375	106
167.0	CCI OPA65R-BU6A	2	58	7.9	5.9	11.7	8.4	0.80	0.79	0.0	0.0	42.52	359	138
167.0	CCI OPA65R-BU8B	1	69	11.2	8.0	11.7	8.4	0.80	1.00	0.0	0.0	42.52	324	83
167.0	CCI TPA65R-BU6D	2	68	12.9	5.9	21.0	7.8	0.80	0.72	0.0	0.0	42.52	536	162
167.0	CCI TPA65R-BU8D	1	83	18.1	8.0	21.0	7.8	0.80	1.00	0.0	0.0	42.52	523	99
167.0	Ericsson Radio 8843	3	75	2.0	1.5	13.2	11.3	0.80	0.50	0.0	0.0	42.52	86	270
167.0	Ericsson RRUS 11	3	55	2.5	1.5	17.0	7.2	0.80	0.50	0.0	0.0	42.52	109	198
167.0	Ericsson RRUS 4478	3	59	2.0	1.5	13.4	8.3	0.80	0.50	0.0	0.0	42.52	88	214
167.0	Ericsson RRUS 4478	3	60	1.8	1.4	13.4	7.7	0.80	0.50	0.0	0.0	42.52	80	216
167.0	Ericsson RRUS E2	3	60	3.1	1.7	18.5	7.5	0.80	0.50	0.0	0.0	42.52	136	216
167.0	Ericsson RRUS-32	3	77	3.3	2.5	13.3	9.5	0.80	0.50	0.0	0.0	42.52	144	277
167.0	Kaelus	6	14	0.6	0.9	7.1	6.8	0.80	0.50	0.0	0.0	42.52	55	100
167.0	Powerwave Allgon	6	16	0.6	0.8	6.7	5.4	0.80	0.50	0.0	0.0	42.52	48	115
167.0	Raycap DC6-48-60-0-	1	33	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	42.52	43	39
167.0	Raycap DC6-48-60-	3	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	42.52	128	114
167.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	42.52	785	1080
157.0	Kathrein Scala 742	3	22	5.1	6.4	6.1	2.7	1.00	0.67	0.0	0.0	41.97	368	79
148.0	Ericsson AIR 21, 1.3	3	83	6.0	4.7	12.0	8.0	0.80	0.71	0.0	0.0	41.45	363	299
148.0	Ericsson AIR-32	3	132	6.5	4.7	12.9	8.7	0.80	0.71	0.0	0.0	41.45	391	476
148.0	Ericsson Air6449	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	41.45	303	374
148.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	41.45	15	40
148.0	Ericsson Radio 4449	3	75	1.6	1.3	13.2	10.5	0.80	0.50	0.0	0.0	41.45	70	270
148.0	Ericsson RRUS 32	3	51	2.7	2.2	12.1	6.7	0.80	0.67	0.0	0.0	41.45	153	183
148.0	Ericsson RRUS 4415	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.0	41.45	78	166
148.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	41.45	1078	460
148.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	41.45	765	1080
125.0	Motorola PTP54600	2	12	1.8	1.2	14.5	3.8	1.00	1.00	4.0	479.8	40.27	120	29
102.0	Standoffs	2	75	2.5	0.0	0.0	0.0	1.00	0.90	0.0	0.0	38.33	147	180
85.00	Generic 10' Dipole	1	30	3.8	10.0	3.0	3.0	1.00	1.00	0.0	0.0	36.88	118	36
80.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	36.42	77	90
76.00	PCTEL GPS-TMG-HR-	1	1	0.1	0.4	3.2	3.2	1.00	1.00	0.0	0.0	36.02	3	1
76.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	36.02	77	90

Tower Loading

Totals 138 10435 710.9

14409 12522

Discrete Appurtenance Properties 0.9D + 1.0W

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
192.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	43.79	104	162
188.0	Alcatel-Lucent	3	64	1.8	1.3	13.8	13.0	0.80	0.50	0.0	0.0	43.59	80	173
185.0	Alcatel-Lucent 800	3	53	2.1	1.6	13.0	10.8	0.80	0.50	0.0	0.0	43.44	95	143
185.0	Alcatel-Lucent TD-	3	70	4.0	2.2	18.6	6.7	0.80	0.61	0.0	0.0	43.44	219	189
185.0	KMW ET-X-WM-18-	3	36	6.7	5.1	12.0	4.3	0.80	0.63	0.0	0.0	43.44	373	98
185.0	Powerwave Allgon	2	64	9.1	4.5	20.0	6.5	0.80	1.00	0.0	0.0	43.44	536	115
185.0	Powerwave Allgon	1	64	9.1	4.5	20.0	6.5	0.80	1.00	0.0	0.0	43.44	268	58
185.0	RFS APXVSP18-C-	1	57	8.0	6.0	11.8	7.0	0.80	1.00	0.0	0.0	43.44	237	51
185.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	43.44	897	810
178.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	43.09	988	1080
178.0	Rymosa MGD3-800TX	3	15	3.3	4.4	6.3	3.5	0.80	0.69	0.0	0.0	43.09	203	42
177.0	Amphenol Antel BXA-	3	12	3.6	4.0	8.0	5.9	0.80	0.72	0.0	0.0	43.04	226	32
177.0	Commscope	3	17	2.9	2.5	11.8	4.5	0.80	0.67	0.0	0.0	43.04	171	45
177.0	JMA Wireless	6	46	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.0	43.04	1231	248
177.0	RFS DB-T1-6Z-8AB-	2	44	4.8	2.0	24.0	10.0	0.80	0.72	1.0	202.5	43.09	203	79
177.0	RFS FD9R6004/2C-3L	3	3	0.3	0.5	6.5	1.5	1.00	0.50	0.0	0.0	43.04	17	7
177.0	Samsung B2/B66A	3	84	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.0	43.04	82	228
177.0	Samsung B5/B13	3	70	1.9	1.3	15.0	8.1	0.80	0.50	0.0	0.0	43.04	82	190
177.0	Samsung Outdoor	3	19	0.9	1.0	8.5	4.1	0.80	0.50	0.0	0.0	43.04	38	50
167.0	CCI OPA-65R-LCUU-	2	73	9.7	6.0	14.8	7.4	0.80	0.75	0.0	0.0	42.52	419	131
167.0	CCI OPA-65R-LCUU-	1	88	13.0	7.7	14.8	7.4	0.80	1.00	0.0	0.0	42.52	375	79
167.0	CCI OPA65R-BU6A	2	58	7.9	5.9	11.7	8.4	0.80	0.79	0.0	0.0	42.52	359	104
167.0	CCI OPA65R-BU8B	1	69	11.2	8.0	11.7	8.4	0.80	1.00	0.0	0.0	42.52	324	62
167.0	CCI TPA65R-BU6D	2	68	12.9	5.9	21.0	7.8	0.80	0.72	0.0	0.0	42.52	536	122
167.0	CCI TPA65R-BU8D	1	83	18.1	8.0	21.0	7.8	0.80	1.00	0.0	0.0	42.52	523	74
167.0	Ericsson Radio 8843	3	75	2.0	1.5	13.2	11.3	0.80	0.50	0.0	0.0	42.52	86	203
167.0	Ericsson RRUS 11	3	55	2.5	1.5	17.0	7.2	0.80	0.50	0.0	0.0	42.52	109	149
167.0	Ericsson RRUS 4478	3	59	2.0	1.5	13.4	8.3	0.80	0.50	0.0	0.0	42.52	88	160
167.0	Ericsson RRUS 4478	3	60	1.8	1.4	13.4	7.7	0.80	0.50	0.0	0.0	42.52	80	162
167.0	Ericsson RRUS E2	3	60	3.1	1.7	18.5	7.5	0.80	0.50	0.0	0.0	42.52	136	162
167.0	Ericsson RRUS-32	3	77	3.3	2.5	13.3	9.5	0.80	0.50	0.0	0.0	42.52	144	208
167.0	Kaelus	6	14	0.6	0.9	7.1	6.8	0.80	0.50	0.0	0.0	42.52	55	75
167.0	Powerwave Allgon	6	16	0.6	0.8	6.7	5.4	0.80	0.50	0.0	0.0	42.52	48	86
167.0	Raycap DC6-48-60-0-	1	33	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	42.52	43	30
167.0	Raycap DC6-48-60-	3	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	42.52	128	86
167.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	42.52	785	810
157.0	Kathrein Scala 742	3	22	5.1	6.4	6.1	2.7	1.00	0.67	0.0	0.0	41.97	368	59
148.0	Ericsson AIR 21, 1.3	3	83	6.0	4.7	12.0	8.0	0.80	0.71	0.0	0.0	41.45	363	224
148.0	Ericsson Air-32	3	132	6.5	4.7	12.9	8.7	0.80	0.71	0.0	0.0	41.45	391	357
148.0	Ericsson Air6449	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	41.45	303	281
148.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	41.45	15	30
148.0	Ericsson Radio 4449	3	75	1.6	1.3	13.2	10.5	0.80	0.50	0.0	0.0	41.45	70	203
148.0	Ericsson RRUS 32	3	51	2.7	2.2	12.1	6.7	0.80	0.67	0.0	0.0	41.45	153	137
148.0	Ericsson RRUS 4415	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.0	41.45	78	124
148.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	41.45	1078	345
148.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	41.45	765	810
125.0	Motorola PTP54600	2	12	1.8	1.2	14.5	3.8	1.00	1.00	4.0	479.8	40.27	120	22
102.0	Standoffs	2	75	2.5	0.0	0.0	0.0	1.00	0.90	0.0	0.0	38.33	147	135
85.00	Generic 10' Dipole	1	30	3.8	10.0	3.0	3.0	1.00	1.00	0.0	0.0	36.88	118	27
80.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	36.42	77	68

Site Number: 302470

Code:

ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Tower Loading

76.00 PCTEL GPS-TMG-HR-	1	1	0.1	0.4	3.2	3.2	1.00	1.00	0.0	0.0	36.02	3	1
76.00 Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	36.02	77	68
Totals	138	10435	710.9									14409	9392

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elevation (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
192.0	Alcatel-Lucent 1900	3	115	3.1	2.1	11.1	10.7	0.80	0.50	0.0	0.0	7.86	25	381
188.0	Alcatel-Lucent	3	114	2.4	1.3	13.8	13.0	0.80	0.50	0.0	0.0	7.83	19	379
185.0	Alcatel-Lucent 800	3	103	2.8	1.6	13.0	10.8	0.80	0.50	0.0	0.0	7.80	22	342
185.0	Alcatel-Lucent TD-	3	135	5.0	2.2	18.6	6.7	0.80	0.61	0.0	0.0	7.80	48	446
185.0	KMW ET-X-WM-18-	3	123	8.3	5.1	12.0	4.3	0.80	0.63	0.0	0.0	7.80	83	391
185.0	Powerwave Allgon	2	191	10.6	4.5	20.0	6.5	0.80	1.00	0.0	0.0	7.80	112	407
185.0	Powerwave Allgon	1	191	10.6	4.5	20.0	6.5	0.80	1.00	0.0	0.0	7.80	56	204
185.0	RFS APXVSP18-C-	1	175	9.9	6.0	11.8	7.0	0.80	1.00	0.0	0.0	7.80	53	186
185.0	Round Sector	3	514	21.3	0.0	0.0	0.0	0.75	0.75	0.0	0.0	7.80	238	1723
178.0	Flat Light Sector	3	604	28.1	0.0	0.0	0.0	0.75	0.67	0.0	0.0	7.74	279	2051
178.0	Rymasa MGD3-800TX	3	62	4.5	4.4	6.3	3.5	0.80	0.69	0.0	0.0	7.74	50	194
177.0	Amphenol Antel BXA-	3	72	4.8	4.0	8.0	5.9	0.80	0.72	0.0	0.0	7.73	55	222
177.0	Commscope	3	61	3.7	2.5	11.8	4.5	0.80	0.67	0.0	0.0	7.73	39	192
177.0	JMA Wireless	6	208	11.7	5.9	15.4	10.7	0.80	0.71	0.0	0.0	7.73	263	1304
177.0	RFS DB-T1-6Z-8AB-	2	129	5.8	2.0	24.0	10.0	0.80	0.72	1.0	43.7	7.74	44	276
177.0	RFS FD9R6004/2C-3L	3	8	0.6	0.5	6.5	1.5	1.00	0.50	0.0	0.0	7.73	6	26
177.0	Samsung B2/B66A	3	128	2.5	1.3	15.0	10.0	0.80	0.50	0.0	0.0	7.73	20	433
177.0	Samsung B5/B13	3	109	2.5	1.3	15.0	8.1	0.80	0.50	0.0	0.0	7.73	20	369
177.0	Samsung Outdoor	3	35	1.3	1.0	8.5	4.1	0.80	0.50	0.0	0.0	7.73	10	116
167.0	CCI OPA-65R-LCUU-	2	211	11.5	6.0	14.8	7.4	0.80	0.75	0.0	0.0	7.63	90	451
167.0	CCI OPA-65R-LCUU-	1	262	15.4	7.7	14.8	7.4	0.80	1.00	0.0	0.0	7.63	80	279
167.0	CCI OPA65R-BU6A	2	181	9.7	5.9	11.7	8.4	0.80	0.79	0.0	0.0	7.63	80	385
167.0	CCI OPA65R-BU8B	1	233	13.4	8.0	11.7	8.4	0.80	1.00	0.0	0.0	7.63	70	246
167.0	CCI TPA65R-BU6D	2	244	14.8	5.9	21.0	7.8	0.80	0.72	0.0	0.0	7.63	110	516
167.0	CCI TPA65R-BU8D	1	316	20.6	8.0	21.0	7.8	0.80	1.00	0.0	0.0	7.63	107	332
167.0	Ericsson Radio 8843	3	123	2.6	1.5	13.2	11.3	0.80	0.50	0.0	0.0	7.63	20	415
167.0	Ericsson RRUS 11	3	101	3.2	1.5	17.0	7.2	0.80	0.50	0.0	0.0	7.63	25	335
167.0	Ericsson RRUS 4478	3	101	2.7	1.5	13.4	8.3	0.80	0.50	0.0	0.0	7.63	21	338
167.0	Ericsson RRUS 4478	3	97	2.4	1.4	13.4	7.7	0.80	0.50	0.0	0.0	7.63	19	328
167.0	Ericsson RRUS E2	3	115	3.9	1.7	18.5	7.5	0.80	0.50	0.0	0.0	7.63	31	380
167.0	Ericsson RRUS-32	3	143	4.2	2.5	13.3	9.5	0.80	0.50	0.0	0.0	7.63	33	475
167.0	Kaelus	6	31	1.0	0.9	7.1	6.8	0.80	0.50	0.0	0.0	7.63	16	202
167.0	Powerwave Allgon	6	30	0.9	0.8	6.7	5.4	0.80	0.50	0.0	0.0	7.63	14	197
167.0	Raycap DC6-48-60-0-	1	105	1.9	2.0	11.0	11.0	0.80	1.00	0.0	0.0	7.63	10	112
167.0	Raycap DC6-48-60-	3	74	1.9	2.0	11.0	11.0	0.80	1.00	0.0	0.0	7.63	30	240
167.0	Round Sector	3	512	21.2	0.0	0.0	0.0	0.75	0.67	0.0	0.0	7.63	207	1716
157.0	Kathrein Scala 742	3	89	6.0	6.4	6.1	2.7	1.00	0.67	0.0	0.0	7.54	77	281
148.0	Ericsson AIR 21, 1.3	3	180	7.5	4.7	12.0	8.0	0.80	0.71	0.0	0.0	7.44	81	591
148.0	Ericsson AIR-32	3	239	8.0	4.7	12.9	8.7	0.80	0.71	0.0	0.0	7.44	86	796
148.0	Ericsson Air6449	3	195	6.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	7.44	64	648
148.0	Ericsson KRY 112	3	18	0.6	0.6	6.1	2.7	0.80	0.50	0.0	0.0	7.44	5	61
148.0	Ericsson Radio 4449	3	115	2.2	1.3	13.2	10.5	0.80	0.50	0.0	0.0	7.44	17	391
148.0	Ericsson RRUS 32	3	99	3.5	2.2	12.1	6.7	0.80	0.67	0.0	0.0	7.44	35	326
148.0	Ericsson RRUS 4415	3	79	2.4	1.4	13.4	5.9	0.80	0.50	0.0	0.0	7.44	19	264
148.0	RFS	3	390	22.7	8.0	24.0	8.7	0.80	0.63	0.0	0.0	7.44	217	1247
148.0	Round Sector Frame	3	546	25.5	0.0	0.0	0.0	0.75	0.67	0.0	0.0	7.44	243	1817
125.0	Motorola PTP54600	2	38	2.3	1.2	14.5	3.8	1.00	1.00	4.0	114.3	7.23	29	81
102.0	Standoffs	2	92	2.7	0.0	0.0	0.0	1.00	0.90	0.0	0.0	6.88	29	214

Tower Loading

85.00	Generic 10' Dipole	1	101	7.6	10.0	3.0	3.0	1.00	1.00	0.0	0.0	6.62	43	107
80.00	Standoffs	1	91	2.7	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.54	15	106
76.00	PCTEL GPS-TMG-HR-	1	4	0.2	0.4	3.2	3.2	1.00	1.00	0.0	0.0	6.47	1	4
76.00	Standoffs	1	91	2.7	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.47	15	106
Totals		138	21542	935.9									3376	23629

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elevation (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K _a	Orient. Factor	Vert. Ecc.(ft)	M _u (lb-ft)	Q _z (psf)	F _a (WL) (lb)	P _a (DL) (lb)
192.0	Alcatel-Lucent 1900	3	60	2.3	2.1	11.1	10.7	0.80	0.50	0.0	0.0	11.32	27	180
188.0	Alcatel-Lucent	3	64	1.8	1.3	13.8	13.0	0.80	0.50	0.0	0.0	11.27	21	192
185.0	Alcatel-Lucent 800	3	53	2.1	1.6	13.0	10.8	0.80	0.50	0.0	0.0	11.23	24	159
185.0	Alcatel-Lucent TD-	3	70	4.0	2.2	18.6	6.7	0.80	0.61	0.0	0.0	11.23	57	210
185.0	KMW ET-X-WM-18-	3	36	6.7	5.1	12.0	4.3	0.80	0.63	0.0	0.0	11.23	96	109
185.0	Powerwave Allgon	2	64	9.1	4.5	20.0	6.5	0.80	1.00	0.0	0.0	11.23	139	128
185.0	Powerwave Allgon	1	64	9.1	4.5	20.0	6.5	0.80	1.00	0.0	0.0	11.23	69	64
185.0	RFS APXVSP18-C-	1	57	8.0	6.0	11.8	7.0	0.80	1.00	0.0	0.0	11.23	61	57
185.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	11.23	232	900
178.0	Flat Light Sector	3	400	17.9	0.0	0.0	0.0	0.75	0.67	0.0	0.0	11.14	256	1200
178.0	RymSa MGD3-800TX	3	15	3.3	4.4	6.3	3.5	0.80	0.69	0.0	0.0	11.14	52	46
177.0	Amphenol Antel BXA-	3	12	3.6	4.0	8.0	5.9	0.80	0.72	0.0	0.0	11.13	58	36
177.0	Commscope	3	17	2.9	2.5	11.8	4.5	0.80	0.67	0.0	0.0	11.13	44	50
177.0	JMA Wireless	6	46	9.9	5.9	15.4	10.7	0.80	0.71	0.0	0.0	11.13	318	276
177.0	RFS DB-T1-6Z-8AB-	2	44	4.8	2.0	24.0	10.0	0.80	0.72	1.0	52.4	11.14	52	88
177.0	RFS FD9R6004/2C-3L	3	3	0.3	0.5	6.5	1.5	1.00	0.50	0.0	0.0	11.13	4	8
177.0	Samsung B2/B66A	3	84	1.9	1.3	15.0	10.0	0.80	0.50	0.0	0.0	11.13	21	253
177.0	Samsung B5/B13	3	70	1.9	1.3	15.0	8.1	0.80	0.50	0.0	0.0	11.13	21	211
177.0	Samsung Outdoor	3	19	0.9	1.0	8.5	4.1	0.80	0.50	0.0	0.0	11.13	10	56
167.0	CCI OPA-65R-LCUU-	2	73	9.7	6.0	14.8	7.4	0.80	0.75	0.0	0.0	10.99	108	146
167.0	CCI OPA-65R-LCUU-	1	88	13.0	7.7	14.8	7.4	0.80	1.00	0.0	0.0	10.99	97	88
167.0	CCI OPA65R-BU6A	2	58	7.9	5.9	11.7	8.4	0.80	0.79	0.0	0.0	10.99	93	115
167.0	CCI OPA65R-BU8B	1	69	11.2	8.0	11.7	8.4	0.80	1.00	0.0	0.0	10.99	84	69
167.0	CCI TPA65R-BU6D	2	68	12.9	5.9	21.0	7.8	0.80	0.72	0.0	0.0	10.99	139	135
167.0	CCI TPA65R-BU8D	1	83	18.1	8.0	21.0	7.8	0.80	1.00	0.0	0.0	10.99	135	83
167.0	Ericsson Radio 8843	3	75	2.0	1.5	13.2	11.3	0.80	0.50	0.0	0.0	10.99	22	225
167.0	Ericsson RRUS 11	3	55	2.5	1.5	17.0	7.2	0.80	0.50	0.0	0.0	10.99	28	165
167.0	Ericsson RRUS 4478	3	59	2.0	1.5	13.4	8.3	0.80	0.50	0.0	0.0	10.99	23	178
167.0	Ericsson RRUS 4478	3	60	1.8	1.4	13.4	7.7	0.80	0.50	0.0	0.0	10.99	21	180
167.0	Ericsson RRUS E2	3	60	3.1	1.7	18.5	7.5	0.80	0.50	0.0	0.0	10.99	35	180
167.0	Ericsson RRUS-32	3	77	3.3	2.5	13.3	9.5	0.80	0.50	0.0	0.0	10.99	37	231
167.0	Kaelus	6	14	0.6	0.9	7.1	6.8	0.80	0.50	0.0	0.0	10.99	14	83
167.0	Powerwave Allgon	6	16	0.6	0.8	6.7	5.4	0.80	0.50	0.0	0.0	10.99	12	96
167.0	Raycap DC6-48-60-0-	1	33	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	10.99	11	33
167.0	Raycap DC6-48-60-	3	32	1.5	2.0	11.0	11.0	0.80	1.00	0.0	0.0	10.99	33	95
167.0	Round Sector	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	10.99	203	900
157.0	Kathrein Scala 742	3	22	5.1	6.4	6.1	2.7	1.00	0.67	0.0	0.0	10.85	95	66
148.0	Ericsson AIR 21, 1.3	3	83	6.0	4.7	12.0	8.0	0.80	0.71	0.0	0.0	10.72	94	249
148.0	Ericsson AIR-32	3	132	6.5	4.7	12.9	8.7	0.80	0.71	0.0	0.0	10.72	101	397
148.0	Ericsson Air6449	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	10.72	78	312
148.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	10.72	4	33
148.0	Ericsson Radio 4449	3	75	1.6	1.3	13.2	10.5	0.80	0.50	0.0	0.0	10.72	18	225
148.0	Ericsson RRUS 32	3	51	2.7	2.2	12.1	6.7	0.80	0.67	0.0	0.0	10.72	39	152
148.0	Ericsson RRUS 4415	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.0	10.72	20	138
148.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	10.72	279	384
148.0	Round Sector Frame	3	300	14.4	0.0	0.0	0.0	0.75	0.67	0.0	0.0	10.72	198	900

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Tower Loading

125.0	Motorola PTP54600	2	12	1.8	1.2	14.5	3.8	1.00	1.00	4.0	124.0	10.41	31	24
102.0	Standoffs	2	75	2.5	0.0	0.0	0.0	1.00	0.90	0.0	0.0	9.91	38	150
85.00	Generic 10' Dipole	1	30	3.8	10.0	3.0	3.0	1.00	1.00	0.0	0.0	9.54	30	30
80.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.42	20	75
76.00	PCTEL GPS-TMG-HR-	1	1	0.1	0.4	3.2	3.2	1.00	1.00	0.0	0.0	9.31	1	1
76.00	Standoffs	1	75	2.5	0.0	0.0	0.0	1.00	1.00	0.0	0.0	9.31	20	75
Totals		138	10435	710.9									3725	10435

Site Number: 302470

Code:

ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Tower Loading

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out Of Zone	Spacing (in)	Orientation Factor	Ka Override
8.00	194.0	Wave Guide	1	1.25	5.00	100	3	Individual	0.00	N	1.00	1.00	0.00
8.00	185.0	1 1/4" Hybriflex	3	1.54	1.00	100	2	Individual	0.00	N	1.00	1.00	0.46
8.00	185.0	1 1/4" Hybriflex	1	1.54	1.00	100	2	Individual	0.00	N	1.00	1.00	0.46
8.00	185.0	Wave Guide	1	1.25	5.00	100	2	Individual	0.00	N	1.00	1.00	0.00
8.00	177.0	1 5/8" Coax	6	1.98	0.82	100	3	Individual	0.00	N	1.00	1.00	0.36
8.00	177.0	1 5/8" Hybriflex	2	1.98	1.30	100	3	Individual	0.00	N	1.00	1.00	0.52
8.00	167.0	0.39" (10mm) Fiber	2	0.39	0.06	100	1	Individual	0.00	N	1.00	1.00	0.01
8.00	167.0	0.78" (19.7mm) 8	8	0.78	0.59	100	1	Individual	0.00	N	1.00	1.00	0.01
8.00	167.0	1 1/4" Coax	12	1.55	0.63	100	1	Individual	0.00	N	1.00	1.00	0.00
8.00	167.0	2" conduit	1	2.38	3.65	100	1	Individual	0.00	N	1.00	1.00	0.01
8.00	167.0	Wave Guide	1	1.25	5.00	100	1	Individual	0.00	N	1.00	1.00	0.00
8.00	157.0	1 5/8" Coax	6	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
8.00	157.0	Waveguide	1	1.50	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	148.0	1 1/4" (1.25"-	1	1.25	1.05	100	3	Individual	0.00	N	1.00	1.00	0.01
0.00	148.0	1 1/4" (1.25"-	2	1.25	1.05	100	3	Individual	0.00	N	1.00	1.00	0.01
0.00	148.0	1 5/8" (1.63"-	3	1.63	1.61	100	3	Individual	0.00	N	1.00	1.00	0.01
0.00	148.0	1 5/8" Coax	6	1.98	0.82	100	3	Individual	0.00	N	1.00	1.00	0.36
8.00	148.0	Wave Guide	1	1.25	5.00	100	3	Individual	0.00	N	1.00	1.00	0.00
8.00	125.0	1/4" Coax	2	0.34	0.06	100	1	Individual	0.00	N	1.00	1.00	0.00
8.00	85.00	1/2" Coax	1	0.63	0.15	100	1	Individual	0.00	N	1.00	1.00	0.00
8.00	76.00	1/2" Coax	1	0.63	0.15	100	2	Individual	0.00	N	1.00	1.00	0.00

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Equivalent Lateral Force Method

Spectral Response Acceleration for Short Period (S_s):	0.19
Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.06
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_p):	1.00
Site Coefficient F_a :	1.60
Site Coefficient F_v :	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.20
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.10
Seismic Response Coefficient (C_s):	0.03
Upper Limit C_s :	0.03
Lower Limit C_s :	0.03
Period based on Rayleigh Method (sec):	0.96
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.23
Total Unfactored Dead Load:	47.15 k
Seismic Base Shear (E):	2.05 k

LoadCase 1.2D + 1.0Ev + 1.0Eh

Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	820	510,728	0.037	76	1,017
9	170.00	1,739	957,468	0.069	142	2,158
8	150.00	2,819	1,330,43	0.096	197	3,497
7	130.00	3,548	1,404,51	0.101	208	4,401
6	110.00	3,679	1,186,13	0.086	176	4,563
5	90.00	4,156	1,047,16	0.076	155	5,155
4	70.00	4,449	823,183	0.059	122	5,519
3	50.00	4,845	592,932	0.043	88	6,011
2	30.00	5,186	338,779	0.024	50	6,434
1	10.00	5,479	92,783	0.007	14	6,797
Alcatel-Lucent 1900 MHz 4X45 RRH	192.00	180	115,073	0.008	17	223
Alcatel-Lucent 800MHz RRH and Type 1	188.00	192	119,609	0.009	18	238
Alcatel-Lucent 800 MHz RRH	185.00	159	97,113	0.007	14	197
Alcatel-Lucent TD-RRH8x20-25 w/ Solar	185.00	210	128,262	0.009	19	261
KMW ET-X-WM-18-65-8P	185.00	109	66,696	0.005	10	135
Powerwave Allgon P40-16-XLPP-RRR	185.00	128	78,179	0.006	12	159
Powerwave Allgon P40-16-XLPP-RRR	185.00	64	39,089	0.003	6	79
RFS APXVSP18-C-A20	185.00	57	34,814	0.003	5	71
Round Sector Frames	185.00	900	549,696	0.040	81	1,116
Flat Light Sector Frames	178.00	1,200	698,999	0.051	103	1,489
Rymosa MGD3-800TX	178.00	46	26,911	0.002	4	57
Amphenol Antel BXA-80080-4CF-EDIN-X	177.00	36	20,825	0.002	3	45
Commscope SSPX310R	177.00	49	28,635	0.002	4	61
JMA Wireless MX06FRO660-02	177.00	276	159,661	0.012	24	342
RFS DB-T1-6Z-8AB-0Z	177.00	88	50,906	0.004	8	109

Equivalent Lateral Force Method

RFS FD9R6004/2C-3L	177.00	8	4,512	0.000	1	10
Samsung B2/B66A RRH-BR049	177.00	253	146,471	0.011	22	314
Samsung B5/B13 RRH-BR04C	177.00	211	122,002	0.009	18	262
Samsung Outdoor CBRS 20W RRH	177.00	56	32,279	0.002	5	69
CCI OPA-65R-LCUU-H6	167.00	146	78,633	0.006	12	181
CCI OPA-65R-LCUU-H8	167.00	88	47,395	0.003	7	109
CCI OPA65R-BU6A	167.00	115	61,937	0.004	9	143
CCI OPA65R-BU8B	167.00	69	37,162	0.003	6	86
CCI TPA65R-BU6D	167.00	135	72,709	0.005	11	167
CCI TPA65R-BU8D	167.00	83	44,433	0.003	7	102
Ericsson Radio 8843 - B2 + B66A (w/ prot	167.00	225	121,181	0.009	18	279
Ericsson RRUS 11 (Band 12) (55 lb)	167.00	165	88,866	0.006	13	205
Ericsson RRUS 4478 B14	167.00	178	95,976	0.007	14	221
Ericsson RRUS 4478 B5	167.00	180	96,784	0.007	14	223
Ericsson RRUS E2 B29	167.00	180	96,945	0.007	14	223
Ericsson RRUS-32 (77 lbs)	167.00	231	124,413	0.009	18	287
Kaelus DBCT108F1V92-1	167.00	83	44,918	0.003	7	103
Powerwave Allgon TT19-08BP111-001	167.00	96	51,704	0.004	8	119
Raycap DC6-48-60-0-8F (24" Height)	167.00	33	17,666	0.001	3	41
Raycap DC6-48-60-18-8F ("Squid")	167.00	95	51,381	0.004	8	118
Round Sector Frames	167.00	900	484,726	0.035	72	1,116
Kathrein Scala 742 213	157.00	66	32,949	0.002	5	82
Ericsson AIR 21, 1.3 M, B2A B4P	148.00	249	115,610	0.008	17	309
Ericsson AIR-32 B2A/B66Aa	148.00	397	184,141	0.013	27	492
Ericsson Air6449 B41	148.00	312	144,861	0.010	21	387
Ericsson KRY 112 144/1	148.00	33	15,322	0.001	2	41
Ericsson Radio 4449 B71 B85A	148.00	225	104,467	0.008	15	279
Ericsson RRUS 32 (50.8 lbs)	148.00	152	70,759	0.005	10	189
Ericsson RRUS 4415 B25	148.00	138	64,073	0.005	9	171
RFS APXVAARR24_43-U-NA20	148.00	384	178,152	0.013	26	476
Round Sector Frame	148.00	900	417,869	0.030	62	1,116
Motorola PTP54600	125.00	24	9,130	0.001	1	30
Standoffs	102.00	150	44,080	0.003	7	186
Generic 10' Dipole	85.00	30	7,047	0.001	1	37
Standoffs	80.00	75	16,352	0.001	2	93
PCTEL GPS-TMG-HR-26N	76.00	1	123	0.000	0	1
Standoffs	76.00	75	15,353	0.001	2	93
		47,154	13,840,968	1.000	2,049	58,496

LoadCase 0.9D - 1.0Ev + 1.0Eh

Seismic (Reduced DL)

Section	Height Above Base (ft)	Weight (lb)	W _z (lb-ft)	C _{vx}	Horizontal Force (lb)	Vertical Force (lb)
10	188.00	820	510,728	0.037	76	705
9	170.00	1,739	957,468	0.069	142	1,495
8	150.00	2,819	1,330,43	0.096	197	2,422
7	130.00	3,548	1,404,51	0.101	208	3,049
6	110.00	3,679	1,186,13	0.086	176	3,162
5	90.00	4,156	1,047,16	0.076	155	3,572
4	70.00	4,449	823,183	0.059	122	3,824
3	50.00	4,845	592,932	0.043	88	4,164
2	30.00	5,186	338,779	0.024	50	4,457
1	10.00	5,479	92,783	0.007	14	4,709
Alcatel-Lucent 1900 MHz 4X45 RRH	192.00	180	115,073	0.008	17	155

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Equivalent Lateral Force Method

Alcatel-Lucent 800MHz RRH and Type 1	188.00	192	119,609	0.009	18	165
Alcatel-Lucent 800 MHz RRH	185.00	159	97,113	0.007	14	137
Alcatel-Lucent TD-RRH8x20-25 w/ Solar	185.00	210	128,262	0.009	19	180
KMW ET-X-WM-18-65-8P	185.00	109	66,696	0.005	10	94
Powerwave Allgon P40-16-XLPP-RRR	185.00	128	78,179	0.006	12	110
Powerwave Allgon P40-16-XLPP-RRR	185.00	64	39,089	0.003	6	55
RFS APXVSP18-C-A20	185.00	57	34,814	0.003	5	49
Round Sector Frames	185.00	900	549,696	0.040	81	774
Flat Light Sector Frames	178.00	1,200	698,999	0.051	103	1,031
Ryma MGD3-800TX	178.00	46	26,911	0.002	4	40
Amphenol Antel BXA-80080-4CF-EDIN-X	177.00	36	20,825	0.002	3	31
Commscope SSPX310R	177.00	49	28,635	0.002	4	43
JMA Wireless MX06FRO660-02	177.00	276	159,661	0.012	24	237
RFS DB-T1-6Z-8AB-0Z	177.00	88	50,906	0.004	8	76
RFS FD9R6004/2C-3L	177.00	8	4,512	0.000	1	7
Samsung B2/B66A RRH-BR049	177.00	253	146,471	0.011	22	218
Samsung B5/B13 RRH-BR04C	177.00	211	122,002	0.009	18	181
Samsung Outdoor CBRS 20W RRH	177.00	56	32,279	0.002	5	48
CCI OPA-65R-LCUU-H6	167.00	146	78,633	0.006	12	125
CCI OPA-65R-LCUU-H8	167.00	88	47,395	0.003	7	76
CCI OPA65R-BU6A	167.00	115	61,937	0.004	9	99
CCI OPA65R-BU8B	167.00	69	37,162	0.003	6	59
CCI TPA65R-BU6D	167.00	135	72,709	0.005	11	116
CCI TPA65R-BU8D	167.00	83	44,433	0.003	7	71
Ericsson Radio 8843 - B2 + B66A (w/ prot	167.00	225	121,181	0.009	18	193
Ericsson RRUS 11 (Band 12) (55 lb)	167.00	165	88,866	0.006	13	142
Ericsson RRUS 4478 B14	167.00	178	95,976	0.007	14	153
Ericsson RRUS 4478 B5	167.00	180	96,784	0.007	14	154
Ericsson RRUS E2 B29	167.00	180	96,945	0.007	14	155
Ericsson RRUS-32 (77 lbs)	167.00	231	124,413	0.009	18	199
Kaelus DBCT108F1V92-1	167.00	83	44,918	0.003	7	72
Powerwave Allgon TT19-08BP111-001	167.00	96	51,704	0.004	8	83
Raycap DC6-48-60-0-8F (24" Height)	167.00	33	17,666	0.001	3	28
Raycap DC6-48-60-18-8F ("Squid")	167.00	95	51,381	0.004	8	82
Round Sector Frames	167.00	900	484,726	0.035	72	774
Kathrein Scala 742 213	157.00	66	32,949	0.002	5	57
Ericsson AIR 21, 1.3 M, B2A B4P	148.00	249	115,610	0.008	17	214
Ericsson AIR-32 B2A/B66Aa	148.00	397	184,141	0.013	27	341
Ericsson Air6449 B41	148.00	312	144,861	0.010	21	268
Ericsson KRY 112 144/1	148.00	33	15,322	0.001	2	28
Ericsson Radio 4449 B71 B85A	148.00	225	104,467	0.008	15	193
Ericsson RRUS 32 (50.8 lbs)	148.00	152	70,759	0.005	10	131
Ericsson RRUS 4415 B25	148.00	138	64,073	0.005	9	119
RFS APXVAARR24_43-U-NA20	148.00	384	178,152	0.013	26	330
Round Sector Frame	148.00	900	417,869	0.030	62	774
Motorola PTP54600	125.00	24	9,130	0.001	1	21
Standoffs	102.00	150	44,080	0.003	7	129
Generic 10' Dipole	85.00	30	7,047	0.001	1	26
Standoffs	80.00	75	16,352	0.001	2	64
PCTEL GPS-TMG-HR-26N	76.00	1	123	0.000	0	1
Standoffs	76.00	75	15,353	0.001	2	64

	47,154	13,840,968	1.000	2,049	40,527
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Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Force/Stress Summary

Section: 1		15N25		Bot Elev (ft): 0.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PX - 8" DIA PIPE	-331.05	1.2D + 1.0W Normal	9.77	100	100	100	40.7	50.0	510.32	0	0	0.00	0.00	64 Member X
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 4X4X0.25	-10.51	1.2D + 1.0W 90 deg	23.62	50	50	50	178.3	43.5	17.47	1	1	19.88	23.40	60 Member Z
Max Tension Member															
		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls		
LEG	PX - 8" DIA PIPE	288.43	1.2D + 1.0W 60 deg	50	65	576.00	0	0	0.00	0.00		50	Member		
	HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0			
DIAG	SAE - 4X4X0.25	10.37	1.2D + 1.0W 90 deg	50	65	63.50	1	1	19.88	14.14	17.98	73	Bolt Bear		
Max Splice Forces															
		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type								
	Top Tension	266.09	0.9D + 1.0W 60 deg	0.00	0	0									
	Top Compression	308.88	1.2D + 1.0W Normal	0.00	0										
	Bot Tension	292.64	0.9D + 1.0W 60 deg	567.89	27	10	1" A354-BC								
	Bot Compression	339.70	1.2D + 1.0W Normal	660.26	54	10	1" A354-BC								

Section: 2		14N46		Bot Elev (ft): 20.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PSP - ROHN 8 EHS	-298.98	1.2D + 1.0W Normal	9.77	100	100	100	40.1	50.0	388.80	0	0	0.00	0.00	76 Member X
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 4X4X0.25	-10.13	1.2D + 1.0W 90 deg	22.69	50	50	50	171.3	43.5	18.93	1	1	19.88	23.40	53 Member Z
Max Tension Member															
		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls		
LEG	PSP - ROHN 8 EHS	262.66	1.2D + 1.0W 60 deg	50	65	437.40	0	0	0.00	0.00		60	Member		
	HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0			
DIAG	SAE - 4X4X0.25	9.98	1.2D + 1.0W 90 deg	50	65	63.50	1	1	19.88	14.14	17.98	70	Bolt Bear		
Max Splice Forces															
		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type								
	Top Tension	237.45	0.9D + 1.0W 60 deg	0.00	0	0									
	Top Compression	274.81	1.2D + 1.0W Normal	0.00	0										
	Bot Tension	266.09	0.9D + 1.0W 60 deg	436.14	61	8	1 A325								
	Bot Compression	0.00		0.00	0										

Force/Stress Summary

Section: 3		13N88		Bot Elev (ft): 40.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PSP - ROHN 8 EHS	-265.42	1.2D + 1.0W Normal	9.77	100	100	100	40.1	50.0	388.78	0	0	0.00	0.00	68 Member X
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.25	-9.09	1.2D + 1.0W 90 deg	20.87	50	50	50	182.0	50.0	14.60	1	1	19.88	23.40	62 Member Z
Max Tension Member															
		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls		
LEG	PSP - ROHN 8 EHS	237.86	0.9D + 1.0W 60 deg	50	65	437.40	0	0	0.00	0.00			54 Member		
	HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00		0		
DIAG	SAE - 3.5X3.5X0.25	8.93	1.2D + 1.0W 90 deg	50	65	54.36	1	1	19.88	14.14	17.98		63 Bolt Bear		
Max Splice Forces															
		Pu (kip)	Load Case			phiRnt (kip)	Use %	Num Bolts	Bolt Type						
	Top Tension	209.30	0.9D + 1.0W 60 deg			0.00	0	0							
	Top Compression	241.43	1.2D + 1.0W Normal			0.00	0								
	Bot Tension	237.45	0.9D + 1.0W 60 deg			436.14	54	8	1 A325						
	Bot Compression	0.00				0.00	0								

Section: 4		12N50		Bot Elev (ft): 60.00				Height (ft): 20.000							
		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
Max Compression Member															
LEG	PX - 6" DIA PIPE	-231.58	1.2D + 1.0W Normal	9.77	100	100	100	53.4	50.0	306.88	0	0	0.00	0.00	75 Member X
	HORIZ	0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3.5X3.5X0.25	-8.87	1.2D + 1.0W 90 deg	19.04	50	50	50	166.1	50.0	17.54	1	1	19.88	23.40	50 Member Z
Max Tension Member															
		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls		
LEG	PX - 6" DIA PIPE	209.60	0.9D + 1.0W 60 deg	50	65	378.00	0	0	0.00	0.00			55 Member		
	HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00		0		
DIAG	SAE - 3.5X3.5X0.25	8.88	1.2D + 1.0W 90 deg	50	65	54.36	1	1	19.88	14.14	17.98		62 Bolt Bear		
Max Splice Forces															
		Pu (kip)	Load Case			phiRnt (kip)	Use %	Num Bolts	Bolt Type						
	Top Tension	178.67	0.9D + 1.0W 60 deg			0.00	0	0							
	Top Compression	205.81	1.2D + 1.0W Normal			0.00	0								
	Bot Tension	209.30	0.9D + 1.0W 60 deg			436.14	48	8	1 A325						
	Bot Compression	0.00				0.00	0								

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Force/Stress Summary

Section: 5		11N223		Bot Elev (ft): 80.00				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	PSP - ROHN 6 EHS	-198.25	1.2D + 1.0W Normal	6.51	100	100	100	35.1	50.0	275.92	0	0	0.00	0.00	71 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 3X3X0.25	-8.13	1.2D + 1.0W 90 deg	15.90	50	50	50	161.2	50.0	15.87	1	1	19.88	23.40	51 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	PSP - ROHN 6 EHS	178.97	0.9D + 1.0W 60 deg	50	65	301.95	0	0	0.00	0.00			59 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	SAE - 3X3X0.25	7.99	1.2D + 1.0W 90 deg	50	65	45.22	1	1	19.88	14.14	14.93		56 Bolt Bear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		145.71	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		167.97	1.2D + 1.0W Normal	0.00	0		
Bot Tension		178.67	0.9D + 1.0W 60 deg	327.10	55	6	1 A325
Bot Compression		0.00		0.00	0		

Section: 6		10N152		Bot Elev (ft): 100.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	PX - 5" DIA PIPE	-160.96	1.2D + 1.0W Normal	6.51	100	100	100	42.5	50.0	240.59	0	0	0.00	0.00	66 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 2.5X2.5X0.25	-6.92	1.2D + 1.0W 90 deg	14.13	50	50	50	172.8	36.0	11.41	1	1	13.81	17.40	60 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	PX - 5" DIA PIPE	145.98	0.9D + 1.0W 60 deg	50	65	274.50	0	0	0.00	0.00			53 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	SAE - 2.5X2.5X0.25	7.10	1.2D + 1.0W 90 deg	36	58	33.22	1	1	13.81	10.44	11.83		68 Bolt Bear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		112.88	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		130.95	1.2D + 1.0W Normal	0.00	0		
Bot Tension		145.71	0.9D + 1.0W 60 deg	327.10	45	6	1 A325
Bot Compression		0.00		0.00	0		

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Force/Stress Summary

Section: 7		9N216		Bot Elev (ft): 120.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	PX - 5" DIA PIPE	-123.17	1.2D + 1.0W Normal	6.51	100	100	100	42.5	50.0	240.60	0	0	0.00	0.00	51 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 2.5X2.5X0.25	-7.30	1.2D + 1.0W 90 deg	11.25	50	50	50	137.5	36.0	18.01	1	1	13.81	17.40	52 Bolt Shear

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	PX - 5" DIA PIPE	113.05	0.9D + 1.0W 60 deg	50	65	274.50	0	0	0.00	0.00			41 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	SAE - 2.5X2.5X0.25	7.15	1.2D + 1.0W 90 deg	36	58	33.22	1	1	13.81	10.44	11.83		68 Bolt Bear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		75.05	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		89.09	1.2D + 1.0W Normal	0.00	0		
Bot Tension		112.88	0.9D + 1.0W 60 deg	218.07	52	4	1 A325
Bot Compression		0.00		0.00	0		

Section: 8		A780252		Bot Elev (ft): 140.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	PX - 4" DIA PIPE	-82.91	1.2D + 1.0W Normal	4.88	100	100	100	39.6	50.0	176.95	0	0	0.00	0.00	46 Member X
HORIZ	SAE - 2X2X0.125	-0.35	1.2D + 1.0W 60 deg	6.760	100	100	100	203.8	36.0	3.31	1	1	13.81	8.70	10 Member Z
DIAG	SAE - 2X2X0.25	-6.06	1.2D + 1.0W 90 deg	9.848	50	50	50	151.1	36.0	11.78	1	1	13.81	17.40	51 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	PX - 4" DIA PIPE	73.94	1.2D + 1.0W 60 deg	50	65	198.45	0	0	0.00	0.00			37 Member
HORIZ	SAE - 2X2X0.125	0.25	1.2D + 1.0W Normal	36	58	12.86	1	1	13.81	5.22	4.55		5 Blk Shear
DIAG	SAE - 2X2X0.25	6.09	1.2D + 1.0W 90 deg	36	58	25.06	1	1	13.81	10.44	9.11		66 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		36.61	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		45.25	1.2D + 1.0W Normal	0.00	0		
Bot Tension		75.05	0.9D + 1.0W 60 deg	218.07	34	4	1 A325
Bot Compression		0.00		0.00	0		

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Force/Stress Summary

Section: 9		A780178		Bot Elev (ft): 160.0				Height (ft): 20.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	PX - 3" DIA PIPE	-44.65	1.2D + 1.0W Normal	0.25	100	100	100	2.6	50.0	135.83	0	0	0.00	0.00	32 Member X
HORIZ		0.00		0.000	0	0	0	0.0	0.0	0.00	0	0	0.00	0.00	0
DIAG	SAE - 2X2X0.1875	-5.79	1.2D + 1.0W 90 deg	7.798	50	50	50	119.1	36.0	14.27	2	1	27.61	26.10	40 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	PX - 3" DIA PIPE	35.50	1.2D + 1.0W 60 deg	50	65	135.90	0	0	0.00	0.00			26 Member
HORIZ		0.00		0	0	0.00	0	0	0.00	0.00	0.00		0
DIAG	SAE - 2X2X0.1875	5.70	1.2D + 1.0W 90 deg	36	58	19.12	2	1	27.61	20.88	12.34		46 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		3.23	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression		5.61	1.2D + 1.0W Normal	0.00	0		
Bot Tension		36.61	0.9D + 1.0W 60 deg	166.22	22	4	0.875" A325
Bot Compression		0.00		0.00	0		

Section: 10		A780178		Bot Elev (ft): 180.0				Height (ft): 16.000							
Max Compression Member		Pu (kip)	Load Case	Len (ft)	Bracing %			F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG	PST - 2-1/2" DIA PIP	-5.51	1.2D + 1.0W Normal	0.25	100	100	100	3.2	50.0	76.62	0	0	0.00	0.00	7 Member X
HORIZ	SAE - 2X2X0.125	-0.08	1.2D + 1.0W Normal	6.647	100	100	100	200.4	36.0	3.42	1	1	13.81	8.70	2 Member Z
DIAG	SAE - 1.75X1.75X0.18	-1.56	1.2D + 1.0W Normal	7.758	50	50	50	135.7	36.0	9.65	1	1	13.81	13.05	16 Member Z

Max Tension Member		Pu (kip)	Load Case	Fy (ksi)	Fu (ksi)	Phit Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Blk Shear phit Pn (kip)	Use %	Controls
LEG	PST - 2-1/2" DIA PIP	3.30	0.9D + 1.0W 60 deg	50	65	76.68	0	0	0.00	0.00			4 Member
HORIZ	SAE - 2X2X0.125	0.08	1.2D + 1.0W 60 deg	36	58	12.86	1	1	13.81	5.22	4.55		1 Blk Shear
DIAG	SAE - 1.75X1.75X0.18	1.60	1.2D + 1.0W 90 deg	36	58	16.05	1	1	13.81	7.83	5.81		27 Blk Shear

Max Splice Forces		Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension		0.00		0.00	0	0	
Top Compression		0.23	1.2D + 1.0Ev + 1.0Eh	0.00	0		
Bot Tension		3.23	0.9D + 1.0W 60 deg	120.41	3	4	0.75" A325
Bot Compression		0.00		0.00	0		

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.0W Normal	13.28	00.00	0	1	0.00	338.70	-34.78	
	13.28	00.00	120	1a	11.78	-141.06	-11.09	
	13.28	00.00	240	1b	-11.78	-141.06	-11.09	
1.2D + 1.0W 60 deg	13.28	00.00	0	1	-3.35	171.67	-17.11	
	13.28	00.00	120	1a	-16.49	171.62	5.65	
	13.28	00.00	240	1b	-26.75	-286.70	-15.44	
1.2D + 1.0W 90 deg	13.28	00.00	0	1	-4.00	18.87	-1.16	
	13.28	00.00	120	1a	-26.20	286.55	12.87	
	13.28	00.00	240	1b	-24.38	-248.83	-11.71	
0.9D + 1.0W Normal	13.28	00.00	0	1	0.00	333.56	-34.47	
	13.28	00.00	120	1a	12.03	-145.56	-11.24	
	13.28	00.00	240	1b	-12.03	-145.56	-11.24	
0.9D + 1.0W 60 deg	13.28	00.00	0	1	-3.36	166.75	-16.80	
	13.28	00.00	120	1a	-16.23	166.70	5.49	
	13.28	00.00	240	1b	-27.00	-291.01	-15.59	
0.9D + 1.0W 90 deg	13.28	00.00	0	1	-4.01	14.15	-0.86	
	13.28	00.00	120	1a	-25.94	281.47	12.72	
	13.28	00.00	240	1b	-24.64	-253.19	-11.86	
1.2D + 1.0Di + 1.0Wi Normal	13.28	00.00	0	1	0.00	138.84	-9.82	
	13.28	00.00	120	1a	4.88	-9.56	-4.23	
	13.28	00.00	240	1b	-4.88	-9.56	-4.23	
1.2D + 1.0Di + 1.0Wi 60 deg	13.28	00.00	0	1	-1.17	88.36	-4.30	
	13.28	00.00	120	1a	-4.31	88.35	1.14	
	13.28	00.00	240	1b	-9.93	-56.99	-5.73	
1.2D + 1.0Di + 1.0Wi 90 deg	13.28	00.00	0	1	-1.37	39.91	0.95	
	13.28	00.00	120	1a	-7.45	124.30	3.51	
	13.28	00.00	240	1b	-9.11	-44.48	-4.46	
1.2D + 1.0Ev + 1.0Eh Normal M1	13.28	00.00	0	1	0.00	33.00	-2.49	
	13.28	00.00	120	1a	-0.58	12.07	0.25	
	13.28	00.00	240	1b	0.58	12.07	0.25	
1.2D + 1.0Ev + 1.0Eh 60 deg M1	13.28	00.00	0	1	-0.08	26.02	-1.87	
	13.28	00.00	120	1a	-1.66	26.02	0.87	
	13.28	00.00	240	1b	0.00	5.09	0.00	
1.2D + 1.0Ev + 1.0Eh 90 deg M1	13.28	00.00	0	1	-0.09	19.05	-1.24	
	13.28	00.00	120	1a	-2.03	31.13	1.12	
	13.28	00.00	240	1b	0.12	6.96	0.12	
0.9D - 1.0Ev + 1.0Eh Normal M1	13.28	00.00	0	1	0.00	27.13	-2.11	
	13.28	00.00	120	1a	-0.25	6.23	0.05	
	13.28	00.00	240	1b	0.25	6.23	0.05	
0.9D - 1.0Ev + 1.0Eh 60 deg M1	13.28	00.00	0	1	-0.08	20.16	-1.48	
	13.28	00.00	120	1a	-1.32	20.16	0.68	
	13.28	00.00	240	1b	-0.33	-0.74	-0.19	
0.9D - 1.0Ev + 1.0Eh 90 deg M1	13.28	00.00	0	1	-0.09	13.20	-0.86	
	13.28	00.00	120	1a	-1.70	25.26	0.93	

Site Number: 302470

Code:

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

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Customer: T-MOBILE

	13.28	00.00	240	1b	-0.21	1.13	-0.07
1.0D + 1.0W Service Normal	13.28	00.00	0	1	0.00	99.53	-9.93
	13.28	00.00	120	1a	2.51	-26.19	-2.60
	13.28	00.00	240	1b	-2.51	-26.19	-2.60
1.0D + 1.0W Service 60 deg	13.28	00.00	0	1	-0.92	55.89	-5.24
	13.28	00.00	120	1a	-5.00	55.88	1.82
	13.28	00.00	240	1b	-6.49	-64.62	-3.75
1.0D + 1.0W Service 90 deg	13.28	00.00	0	1	-1.09	15.72	-1.00
	13.28	00.00	120	1a	-7.59	86.11	3.76
	13.28	00.00	240	1b	-5.87	-54.68	-2.76

Max Uplift:	291.01 (kip)	Moment Ice:	1,970.65 (kip-ft)	Moment:	6,370.79 (kip-ft)	1.2D + 1.0W Normal
Max Down:	338.70 (kip)	Total Down Ice:	119.72 (kip)	Total Down:	56.58 (kip)	
Max Shear:	34.78 (kip)	Total Shear Ice:	18.29 (kip)	Total Shear:	56.95 (kip)	

Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
118 mph Normal with No Ice	79.75	0.273	0.0156	0.4366	0.4366
118 mph Normal with No Ice	80.00	0.275	0.0157	0.4403	0.4403
118 mph Normal with No Ice	86.75	0.324	0.0153	0.4283	0.4286
118 mph Normal with No Ice	100.25	0.437	0.0185	0.5639	0.5639
118 mph Normal with No Ice	126.75	0.717	0.0192	0.6758	0.6761
118 mph Normal with No Ice	150.00	1.022	0.0226	0.8287	0.8287
118 mph Normal with No Ice	154.88	1.093	0.0225	0.8290	0.8293
118 mph Normal with No Ice	168.05	1.297	0.0254	0.9185	0.9189
118 mph Normal with No Ice	175.85	1.422	0.0255	0.9246	0.9249
118 mph Normal with No Ice	179.75	1.485	0.0250	0.9949	0.9949
118 mph Normal with No Ice	184.19	1.558	0.0255	0.9135	0.9139
118 mph Normal with No Ice	188.13	1.620	0.0253	0.9245	0.9245
118 mph Normal with No Ice	192.06	1.684	0.0254	0.9213	0.9216
118 mph 60 degree with No Ice	79.75	0.262	-0.0213	0.4191	0.4191
118 mph 60 degree with No Ice	80.00	0.264	-0.0213	0.4224	0.4224
118 mph 60 degree with No Ice	86.75	0.311	-0.0219	0.4112	0.4117
118 mph 60 degree with No Ice	100.25	0.420	-0.0272	0.5411	0.5412
118 mph 60 degree with No Ice	126.75	0.689	-0.0338	0.6471	0.6478
118 mph 60 degree with No Ice	150.00	0.983	-0.0369	0.7986	0.7987
118 mph 60 degree with No Ice	154.88	1.051	-0.0362	0.7979	0.7986
118 mph 60 degree with No Ice	168.05	1.248	-0.0387	0.8859	0.8860
118 mph 60 degree with No Ice	175.85	1.368	0.0385	0.8864	0.8872
118 mph 60 degree with No Ice	179.75	1.429	0.0390	0.9586	0.9587
118 mph 60 degree with No Ice	184.19	1.498	0.0385	0.8794	0.8802
118 mph 60 degree with No Ice	188.13	1.560	0.0386	0.8903	0.8904
118 mph 60 degree with No Ice	192.06	1.620	0.0385	0.8874	0.8882
118 mph 90 degree with No Ice	79.75	0.264	-0.0257	0.4190	0.4192
118 mph 90 degree with No Ice	80.00	0.266	-0.0258	0.4219	0.4221
118 mph 90 degree with No Ice	86.75	0.314	-0.0267	0.4162	0.4170
118 mph 90 degree with No Ice	100.25	0.424	-0.0333	0.5405	0.5408
118 mph 90 degree with No Ice	126.75	0.695	-0.0423	0.6520	0.6534
118 mph 90 degree with No Ice	150.00	0.992	-0.0464	0.8030	0.8033
118 mph 90 degree with No Ice	154.88	1.061	-0.0459	0.8088	0.8101
118 mph 90 degree with No Ice	168.05	1.260	-0.0495	0.8934	0.8938
118 mph 90 degree with No Ice	175.85	1.381	-0.0496	0.8978	0.8991
118 mph 90 degree with No Ice	179.75	1.443	-0.0496	0.9565	0.9568
118 mph 90 degree with No Ice	184.19	1.513	-0.0496	0.8914	0.8928
118 mph 90 degree with No Ice	188.13	1.574	-0.0496	0.8956	0.8959
118 mph 90 degree with No Ice	192.06	1.635	-0.0496	0.8978	0.8992
118 mph Normal with No Ice (Reduced DL)	79.75	0.273	0.0156	0.4360	0.4360
118 mph Normal with No Ice (Reduced DL)	80.00	0.275	0.0156	0.4398	0.4398
118 mph Normal with No Ice (Reduced DL)	86.75	0.324	0.0153	0.4275	0.4278
118 mph Normal with No Ice (Reduced DL)	100.25	0.437	0.0185	0.5628	0.5628
118 mph Normal with No Ice (Reduced DL)	126.75	0.716	0.0191	0.6743	0.6746
118 mph Normal with No Ice (Reduced DL)	150.00	1.020	0.0225	0.8267	0.8267
118 mph Normal with No Ice (Reduced DL)	154.88	1.091	0.0224	0.8270	0.8273
118 mph Normal with No Ice (Reduced DL)	168.05	1.295	0.0253	0.9162	0.9165
118 mph Normal with No Ice (Reduced DL)	175.85	1.419	0.0254	0.9223	0.9226
118 mph Normal with No Ice (Reduced DL)	179.75	1.482	0.0249	0.9923	0.9923
118 mph Normal with No Ice (Reduced DL)	184.19	1.555	0.0254	0.9113	0.9116
118 mph Normal with No Ice (Reduced DL)	188.13	1.617	0.0252	0.9222	0.9222
118 mph Normal with No Ice (Reduced DL)	192.06	1.680	0.0253	0.9190	0.9194
118 mph 60 deg with No Ice (Reduced DL)	79.75	0.261	-0.0212	0.4181	0.4182
118 mph 60 deg with No Ice (Reduced DL)	80.00	0.263	-0.0213	0.4215	0.4215
118 mph 60 deg with No Ice (Reduced DL)	86.75	0.310	-0.0218	0.4104	0.4109

Site Number: 302470

Code:

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

118 mph 60 deg with No Ice (Reduced DL)	100.25	0.419	-0.0272	0.5400	0.5401
118 mph 60 deg with No Ice (Reduced DL)	126.75	0.688	-0.0338	0.6457	0.6464
118 mph 60 deg with No Ice (Reduced DL)	150.00	0.981	-0.0368	0.7968	0.7969
118 mph 60 deg with No Ice (Reduced DL)	154.88	1.049	-0.0361	0.7961	0.7968
118 mph 60 deg with No Ice (Reduced DL)	168.05	1.245	-0.0386	0.8836	0.8837
118 mph 60 deg with No Ice (Reduced DL)	175.85	1.365	0.0384	0.8842	0.8851
118 mph 60 deg with No Ice (Reduced DL)	179.75	1.426	0.0389	0.9563	0.9564
118 mph 60 deg with No Ice (Reduced DL)	184.19	1.495	0.0383	0.8773	0.8781
118 mph 60 deg with No Ice (Reduced DL)	188.13	1.556	0.0385	0.8882	0.8883
118 mph 60 deg with No Ice (Reduced DL)	192.06	1.617	0.0384	0.8852	0.8860
118 mph 90 deg with No Ice (Reduced DL)	79.75	0.264	-0.0257	0.4182	0.4185
118 mph 90 deg with No Ice (Reduced DL)	80.00	0.266	-0.0258	0.4213	0.4215
118 mph 90 deg with No Ice (Reduced DL)	86.75	0.313	-0.0267	0.4154	0.4163
118 mph 90 deg with No Ice (Reduced DL)	100.25	0.423	-0.0332	0.5395	0.5397
118 mph 90 deg with No Ice (Reduced DL)	126.75	0.694	-0.0423	0.6506	0.6520
118 mph 90 deg with No Ice (Reduced DL)	150.00	0.990	-0.0463	0.8011	0.8015
118 mph 90 deg with No Ice (Reduced DL)	154.88	1.059	-0.0458	0.8069	0.8082
118 mph 90 deg with No Ice (Reduced DL)	168.05	1.257	-0.0494	0.8911	0.8915
118 mph 90 deg with No Ice (Reduced DL)	175.85	1.378	-0.0495	0.8956	0.8969
118 mph 90 deg with No Ice (Reduced DL)	179.75	1.440	-0.0495	0.9540	0.9543
118 mph 90 deg with No Ice (Reduced DL)	184.19	1.510	-0.0495	0.8892	0.8906
118 mph 90 deg with No Ice (Reduced DL)	188.13	1.571	-0.0494	0.8934	0.8937
118 mph 90 deg with No Ice (Reduced DL)	192.06	1.632	-0.0495	0.8956	0.8970
50 mph Normal with 1.00 in Radial Ice	79.75	0.085	0.0052	0.1317	0.1317
50 mph Normal with 1.00 in Radial Ice	80.00	0.085	0.0052	0.1330	0.1330
50 mph Normal with 1.00 in Radial Ice	86.75	0.100	0.0050	0.1287	0.1287
50 mph Normal with 1.00 in Radial Ice	100.25	0.134	0.0061	0.1690	0.1690
50 mph Normal with 1.00 in Radial Ice	126.75	0.216	0.0063	0.1966	0.1967
50 mph Normal with 1.00 in Radial Ice	150.00	0.304	0.0073	0.2371	0.2371
50 mph Normal with 1.00 in Radial Ice	154.88	0.324	0.0072	0.2370	0.2371
50 mph Normal with 1.00 in Radial Ice	168.05	0.383	0.0079	0.2601	0.2602
50 mph Normal with 1.00 in Radial Ice	175.85	0.418	0.0078	0.2611	0.2613
50 mph Normal with 1.00 in Radial Ice	179.75	0.436	0.0078	0.2788	0.2788
50 mph Normal with 1.00 in Radial Ice	184.19	0.456	0.0077	0.2581	0.2582
50 mph Normal with 1.00 in Radial Ice	188.13	0.474	0.0077	0.2605	0.2605
50 mph Normal with 1.00 in Radial Ice	192.06	0.492	0.0077	0.2597	0.2598
50 mph 60 deg with 1.00 in Radial Ice	79.75	0.084	-0.0067	0.1332	0.1332
50 mph 60 deg with 1.00 in Radial Ice	80.00	0.085	-0.0067	0.1342	0.1342
50 mph 60 deg with 1.00 in Radial Ice	86.75	0.099	-0.0069	0.1262	0.1264
50 mph 60 deg with 1.00 in Radial Ice	100.25	0.132	-0.0085	0.1666	0.1666
50 mph 60 deg with 1.00 in Radial Ice	126.75	0.213	-0.0104	0.1927	0.1929
50 mph 60 deg with 1.00 in Radial Ice	150.00	0.300	-0.0113	0.2329	0.2329
50 mph 60 deg with 1.00 in Radial Ice	154.88	0.319	-0.0112	0.2325	0.2327
50 mph 60 deg with 1.00 in Radial Ice	168.05	0.376	-0.0119	0.2566	0.2566
50 mph 60 deg with 1.00 in Radial Ice	175.85	0.411	-0.0118	0.2551	0.2554
50 mph 60 deg with 1.00 in Radial Ice	179.75	0.428	-0.0118	0.2729	0.2729
50 mph 60 deg with 1.00 in Radial Ice	184.19	0.448	-0.0117	0.2530	0.2532
50 mph 60 deg with 1.00 in Radial Ice	188.13	0.466	-0.0117	0.2564	0.2564
50 mph 60 deg with 1.00 in Radial Ice	192.06	0.483	-0.0116	0.2554	0.2557
50 mph 90 deg with 1.00 in Radial Ice	79.75	0.084	-0.0079	0.1321	0.1321
50 mph 90 deg with 1.00 in Radial Ice	80.00	0.085	-0.0079	0.1329	0.1330
50 mph 90 deg with 1.00 in Radial Ice	86.75	0.099	-0.0081	0.1272	0.1274
50 mph 90 deg with 1.00 in Radial Ice	100.25	0.133	-0.0100	0.1652	0.1653
50 mph 90 deg with 1.00 in Radial Ice	126.75	0.214	-0.0123	0.1932	0.1936
50 mph 90 deg with 1.00 in Radial Ice	150.00	0.301	-0.0135	0.2335	0.2336
50 mph 90 deg with 1.00 in Radial Ice	154.88	0.321	-0.0134	0.2347	0.2351
50 mph 90 deg with 1.00 in Radial Ice	168.05	0.378	-0.0142	0.2575	0.2576
50 mph 90 deg with 1.00 in Radial Ice	175.85	0.413	-0.0142	0.2576	0.2580
50 mph 90 deg with 1.00 in Radial Ice	179.75	0.430	-0.0142	0.2729	0.2730
50 mph 90 deg with 1.00 in Radial Ice	184.19	0.450	-0.0141	0.2555	0.2559
50 mph 90 deg with 1.00 in Radial Ice	188.13	0.468	-0.0141	0.2569	0.2570
50 mph 90 deg with 1.00 in Radial Ice	192.06	0.486	-0.0141	0.2571	0.2575

Site Number: 302470

Code:

ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Seismic Normal M1	79.75	0.012	0.0008	0.0202	0.0202
Seismic Normal M1	80.00	0.012	0.0008	0.0203	0.0203
Seismic Normal M1	86.75	0.015	0.0008	0.0203	0.0204
Seismic Normal M1	100.25	0.020	0.0010	0.0268	0.0268
Seismic Normal M1	126.75	0.034	0.0011	0.0332	0.0332
Seismic Normal M1	150.00	0.049	0.0012	0.0420	0.0420
Seismic Normal M1	154.88	0.053	0.0012	0.0423	0.0423
Seismic Normal M1	168.05	0.063	0.0012	0.0473	0.0473
Seismic Normal M1	175.85	0.069	0.0012	0.0474	0.0474
Seismic Normal M1	179.75	0.072	0.0011	0.0517	0.0517
Seismic Normal M1	184.19	0.076	0.0011	0.0469	0.0469
Seismic Normal M1	188.13	0.079	0.0011	0.0480	0.0480
Seismic Normal M1	192.06	0.083	0.0011	0.0475	0.0475
Seismic 60 deg M1	79.75	0.012	0.0008	0.0211	0.0211
Seismic 60 deg M1	80.00	0.012	0.0008	0.0212	0.0212
Seismic 60 deg M1	86.75	0.015	0.0008	0.0204	0.0204
Seismic 60 deg M1	100.25	0.020	0.0010	0.0271	0.0271
Seismic 60 deg M1	126.75	0.034	0.0012	0.0333	0.0333
Seismic 60 deg M1	150.00	0.049	0.0012	0.0414	0.0414
Seismic 60 deg M1	154.88	0.052	0.0012	0.0419	0.0419
Seismic 60 deg M1	168.05	0.063	0.0012	0.0474	0.0474
Seismic 60 deg M1	175.85	0.069	-0.0012	0.0470	0.0471
Seismic 60 deg M1	179.75	0.072	-0.0011	0.0515	0.0515
Seismic 60 deg M1	184.19	0.076	-0.0011	0.0468	0.0468
Seismic 60 deg M1	188.13	0.079	-0.0011	0.0479	0.0479
Seismic 60 deg M1	192.06	0.083	-0.0011	0.0477	0.0477
Seismic 90 deg M1	79.75	0.012	-0.0009	0.0209	0.0209
Seismic 90 deg M1	80.00	0.012	-0.0009	0.0209	0.0209
Seismic 90 deg M1	86.75	0.015	-0.0009	0.0204	0.0205
Seismic 90 deg M1	100.25	0.020	-0.0012	0.0268	0.0268
Seismic 90 deg M1	126.75	0.034	-0.0013	0.0333	0.0333
Seismic 90 deg M1	150.00	0.049	-0.0014	0.0418	0.0419
Seismic 90 deg M1	154.88	0.053	-0.0013	0.0424	0.0424
Seismic 90 deg M1	168.05	0.063	-0.0014	0.0474	0.0474
Seismic 90 deg M1	175.85	0.069	-0.0013	0.0474	0.0475
Seismic 90 deg M1	179.75	0.072	-0.0013	0.0512	0.0512
Seismic 90 deg M1	184.19	0.076	-0.0013	0.0469	0.0470
Seismic 90 deg M1	188.13	0.079	-0.0012	0.0480	0.0480
Seismic 90 deg M1	192.06	0.083	-0.0012	0.0476	0.0476
Seismic (Reduced DL) Normal M1	79.75	0.012	0.0008	0.0200	0.0200
Seismic (Reduced DL) Normal M1	80.00	0.012	0.0008	0.0201	0.0201
Seismic (Reduced DL) Normal M1	86.75	0.015	0.0008	0.0203	0.0203
Seismic (Reduced DL) Normal M1	100.25	0.020	0.0010	0.0268	0.0268
Seismic (Reduced DL) Normal M1	126.75	0.034	0.0011	0.0332	0.0332
Seismic (Reduced DL) Normal M1	150.00	0.049	0.0012	0.0418	0.0418
Seismic (Reduced DL) Normal M1	154.88	0.052	0.0011	0.0421	0.0422
Seismic (Reduced DL) Normal M1	168.05	0.063	0.0012	0.0471	0.0471
Seismic (Reduced DL) Normal M1	175.85	0.069	0.0012	0.0472	0.0472
Seismic (Reduced DL) Normal M1	179.75	0.072	0.0011	0.0515	0.0515
Seismic (Reduced DL) Normal M1	184.19	0.076	0.0011	0.0468	0.0468
Seismic (Reduced DL) Normal M1	188.13	0.079	0.0011	0.0478	0.0478
Seismic (Reduced DL) Normal M1	192.06	0.082	0.0010	0.0474	0.0474
Seismic (Reduced DL) 60 deg M1	79.75	0.012	0.0008	0.0208	0.0208
Seismic (Reduced DL) 60 deg M1	80.00	0.012	0.0008	0.0209	0.0209
Seismic (Reduced DL) 60 deg M1	86.75	0.015	0.0008	0.0203	0.0204
Seismic (Reduced DL) 60 deg M1	100.25	0.020	0.0010	0.0270	0.0270
Seismic (Reduced DL) 60 deg M1	126.75	0.034	0.0011	0.0332	0.0332
Seismic (Reduced DL) 60 deg M1	150.00	0.049	0.0012	0.0414	0.0414
Seismic (Reduced DL) 60 deg M1	154.88	0.052	0.0012	0.0418	0.0419
Seismic (Reduced DL) 60 deg M1	168.05	0.063	0.0012	0.0471	0.0471
Seismic (Reduced DL) 60 deg M1	175.85	0.069	-0.0012	0.0470	0.0470
Seismic (Reduced DL) 60 deg M1	179.75	0.072	-0.0011	0.0514	0.0514

Site Number: 302470

Code:

ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Seismic (Reduced DL) 60 deg M1	184.19	0.076	-0.0011	0.0466	0.0467
Seismic (Reduced DL) 60 deg M1	188.13	0.079	-0.0011	0.0478	0.0478
Seismic (Reduced DL) 60 deg M1	192.06	0.082	-0.0010	0.0475	0.0475
Seismic (Reduced DL) 90 deg M1	79.75	0.012	-0.0009	0.0205	0.0206
Seismic (Reduced DL) 90 deg M1	80.00	0.012	-0.0009	0.0206	0.0206
Seismic (Reduced DL) 90 deg M1	86.75	0.015	-0.0009	0.0204	0.0204
Seismic (Reduced DL) 90 deg M1	100.25	0.020	-0.0012	0.0267	0.0267
Seismic (Reduced DL) 90 deg M1	126.75	0.034	-0.0013	0.0332	0.0333
Seismic (Reduced DL) 90 deg M1	150.00	0.049	-0.0014	0.0417	0.0417
Seismic (Reduced DL) 90 deg M1	154.88	0.052	-0.0013	0.0423	0.0423
Seismic (Reduced DL) 90 deg M1	168.05	0.063	-0.0014	0.0471	0.0471
Seismic (Reduced DL) 90 deg M1	175.85	0.069	-0.0013	0.0473	0.0473
Seismic (Reduced DL) 90 deg M1	179.75	0.072	-0.0013	0.0511	0.0511
Seismic (Reduced DL) 90 deg M1	184.19	0.076	-0.0013	0.0468	0.0468
Seismic (Reduced DL) 90 deg M1	188.13	0.079	-0.0012	0.0478	0.0478
Seismic (Reduced DL) 90 deg M1	192.06	0.082	-0.0012	0.0475	0.0475
Serviceability - 60 mph Wind Normal	79.75	0.072	0.0041	0.1132	0.1132
Serviceability - 60 mph Wind Normal	80.00	0.072	0.0041	0.1143	0.1143
Serviceability - 60 mph Wind Normal	86.75	0.085	0.0039	0.1115	0.1116
Serviceability - 60 mph Wind Normal	100.25	0.114	0.0048	0.1466	0.1466
Serviceability - 60 mph Wind Normal	126.75	0.187	0.0048	0.1753	0.1754
Serviceability - 60 mph Wind Normal	150.00	0.266	0.0057	0.2147	0.2147
Serviceability - 60 mph Wind Normal	154.88	0.284	0.0056	0.2148	0.2149
Serviceability - 60 mph Wind Normal	168.05	0.337	0.0062	0.2380	0.2380
Serviceability - 60 mph Wind Normal	175.85	0.370	0.0061	0.2394	0.2395
Serviceability - 60 mph Wind Normal	179.75	0.386	0.0061	0.2574	0.2574
Serviceability - 60 mph Wind Normal	184.19	0.405	0.0060	0.2365	0.2366
Serviceability - 60 mph Wind Normal	188.13	0.421	0.0059	0.2392	0.2392
Serviceability - 60 mph Wind Normal	192.06	0.437	0.0059	0.2384	0.2385
Serviceability - 60 mph Wind 60 deg	79.75	0.069	-0.0056	0.1104	0.1104
Serviceability - 60 mph Wind 60 deg	80.00	0.069	-0.0056	0.1112	0.1112
Serviceability - 60 mph Wind 60 deg	86.75	0.081	-0.0058	0.1074	0.1075
Serviceability - 60 mph Wind 60 deg	100.25	0.110	-0.0072	0.1414	0.1414
Serviceability - 60 mph Wind 60 deg	126.75	0.180	-0.0090	0.1685	0.1687
Serviceability - 60 mph Wind 60 deg	150.00	0.256	-0.0098	0.2075	0.2076
Serviceability - 60 mph Wind 60 deg	154.88	0.274	-0.0096	0.2074	0.2075
Serviceability - 60 mph Wind 60 deg	168.05	0.325	-0.0103	0.2305	0.2306
Serviceability - 60 mph Wind 60 deg	175.85	0.357	-0.0101	0.2300	0.2302
Serviceability - 60 mph Wind 60 deg	179.75	0.372	-0.0101	0.2485	0.2486
Serviceability - 60 mph Wind 60 deg	184.19	0.391	-0.0100	0.2282	0.2284
Serviceability - 60 mph Wind 60 deg	188.13	0.406	-0.0100	0.2312	0.2312
Serviceability - 60 mph Wind 60 deg	192.06	0.422	-0.0099	0.2304	0.2306
Serviceability - 60 mph Wind 90 deg	79.75	0.069	-0.0066	0.1103	0.1104
Serviceability - 60 mph Wind 90 deg	80.00	0.070	-0.0067	0.1111	0.1111
Serviceability - 60 mph Wind 90 deg	86.75	0.082	-0.0069	0.1088	0.1090
Serviceability - 60 mph Wind 90 deg	100.25	0.111	-0.0085	0.1411	0.1412
Serviceability - 60 mph Wind 90 deg	126.75	0.182	-0.0108	0.1699	0.1702
Serviceability - 60 mph Wind 90 deg	150.00	0.259	-0.0117	0.2089	0.2090
Serviceability - 60 mph Wind 90 deg	154.88	0.277	-0.0116	0.2104	0.2107
Serviceability - 60 mph Wind 90 deg	168.05	0.329	-0.0124	0.2326	0.2327
Serviceability - 60 mph Wind 90 deg	175.85	0.360	-0.0123	0.2333	0.2336
Serviceability - 60 mph Wind 90 deg	179.75	0.376	-0.0123	0.2486	0.2487
Serviceability - 60 mph Wind 90 deg	184.19	0.395	-0.0122	0.2316	0.2319
Serviceability - 60 mph Wind 90 deg	188.13	0.410	-0.0122	0.2327	0.2328
Serviceability - 60 mph Wind 90 deg	192.06	0.426	-0.0122	0.2333	0.2336

Maximum Reactions Summary

Anchor Group	Vertical (kip)				Horizontal (kip)		Moment (kip-ft)	
	DL+WL	DL+WL+IL	UpLift	Shear	DL+WL	DL+WL+IL	DL+WL	DL+WL+IL
Base	56.58	119.72	338.70	34.78	56.95	18.29	6370.79	1970.65

Site Number: 302470

Code: ANSI/TIA-222-H

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Site Name: Ansonia Wakelee, CT

Engineering Number: 13252360_C3_03

7/23/2020 8:30:58 AM

Customer: T-MOBILE

Exhibit E

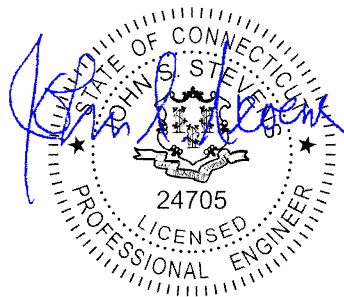
Mount Analysis

Mount Analysis Report

July 20, 2020

T-Mobile Site Name	SpectraSite-Ansonia
T-Mobile Site Number	CT11810A
Asset Site Name	Ansonia Wakelee
Asset Site Number	302470
Infinigy Job Number	1009-Z0003-B
Client	ATC
Engineering Number	13252360 C8 02
Carrier	T-Mobile
Site Location	401 Wakelee Avenue Ansonia, CT 06401 41.356100 N NAD83 -73.092000 W NAD83
Mount Centerline EL.	148.0 ft
Mount Type	Sector
Structural Usage Ratio	82.2%
Overall Result	Pass

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The mounts and connections for the proposed carrier are therefore deemed adequate to support the final loading configuration as listed in this report.



7/21/2020

M. Brad Davenport, P.E.

Structural Engineer Manager

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Conclusion.....	3
Final Configuration Loading.....	4
Structure Usages.....	4
Mount Connections.....	4
Assumptions and Limitations.....	5
Calculations.....	Appended

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the Proposed T-Mobile mounts. All referenced supporting documents have been obtained from the client and are assumed to be accurate and applicable to this site. The mount was analyzed using RISA-3D Version 17.04 analysis software.

Supporting Documentation

Collocation Application	Collo App ID#302470, dated July 9, 2020
Proposed Loading	T-Mobile RFDS ID: CT11810A, dated May 19, 2020
Structural Analysis	ATC, Site ID: 302470, Engineering # 12942673_C3_04, dated April 28, 2020
Mount Modification Analysis	CLS Engineering, PLLC, Project # 41124-12942673-01-MA-R2, dated March 31, 2020

Analysis Code Requirements

Wind Speed	118 mph (3-Second Gust, V_{ULT})
Wind Speed w/ ice	50 mph (3-Second Gust, V_{ASD}) w/ 1.0" ice
TIA Revision	ANSI/TIA-222-H
Risk Category	II
Exposure Category	C
Topographic Category	1
Calculated Crest Height	0 ft.
Spectral Response	$S_s = 0.202 \text{ g} / S_1 = 0.054 \text{ g}$
Site Class	D-Stiff Soil (Assumed)

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the structure meets the specified TIA code requirements. The mounts and connections are therefore deemed adequate to support the final loading configuration 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:

M. Brad Davenport, P.E.
 Structural Engineer Manager | INFINIGY
 1517 Old Apex Rd., Cary, NC 27513
 (919) 606-9002 | bdavenport@infinigy.com | www.infinigy.com

Final Configuration Loading

Mount CL (ft)	Rad. HT (ft)	Vert. O/S (ft)	Horiz. O/S (ft)*	Qty	Appurtenance	Carrier
148.0	148.0	1.0	6.0	3	Ericsson Air6449 B41	T-Mobile
			0.5	3	Ericsson AIR 21, 1.3 M, B2A B4P	
			12.0	3	Ericsson AIR-32 B2A/B66Aa	
			8.5	3	RFS APXVAARR24 43-UNA20	
			0.5	3	Ericsson KRY 112 144/1	
			8.5	3	Ericsson RRUS 4415 B25	
			8.5	3	Ericsson Radio 4449 B71 B85A	

*Horizontal Offset is defined as the distance from the left most edge of the mount face horizontal when viewed facing the tower

Structure Usages

Horizontal	77.9%	Pass
Mount Pipe	82.2%	Pass
Standoff	66.2%	Pass
Bracing	12.6%	Pass
RATING =	82.2%	Pass

Mount Connection Usages

Reaction Data	Design Capacity*	Analysis Reactions	Results
Max Tension (lbs.)	13.3	4.9	18.5%
Max Shear (lbs.)	8.0	4.1	25.6%

*Assumed (1) 1/2" A325 Bolt, (4) per mount to tower connection. Contractor to field verify anchor diameters prior to installation of proposed equipment.

Bolt reactions are acceptable per rigorous structural analysis. Please see the calculations appended in this report for further detail.

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 proposed carriers mount structure only and does not reflect adequacy of the existing tower, other mounts, 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.

Program Inputs

PROJECT INFORMATION		
Client:	Infinigy	
Carrier:	T-Mobile	
Engineer:	Andrew Gloriani	

SITE INFORMATION		
Risk Category:	II	
Exposure Category:	C	
Topo Factor Procedure:	Method 1, Category 1	
Site Class:	D - Stiff Soil	
Ground Elevation:	127	ft *Rev H

MOUNT INFORMATION		
Mount Type:	Sector Frame	
Num Sectors:	3	
Centerline AGL:	148.0	ft
Tower Height AGL:	198.0	ft

TOPOGRAPHIC DATA		
Topo Feature:	N/A	
Slope Distance:	N/A	ft
Crest Distance:	N/A	ft
Crest Height:	N/A	ft

FACTORS		
Directionality Fact. (K_d):	0.95	
Ground Ele. Factor (K_e):	1.00	*Rev H Only
Rooftop Speed-Up (K_s):	1.00	*Rev H Only
Topographic Factor (K_{zt}):	1.00	
Gust Effect Factor (G_h):	1.0	

CODE STANDARDS		
Building Code:	2018 IBC	
TIA Standard:	TIA-222-H	
ASCE Standard:	ASCE 7-16	

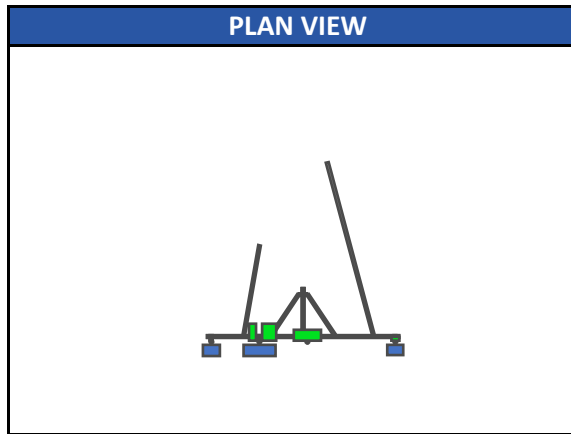
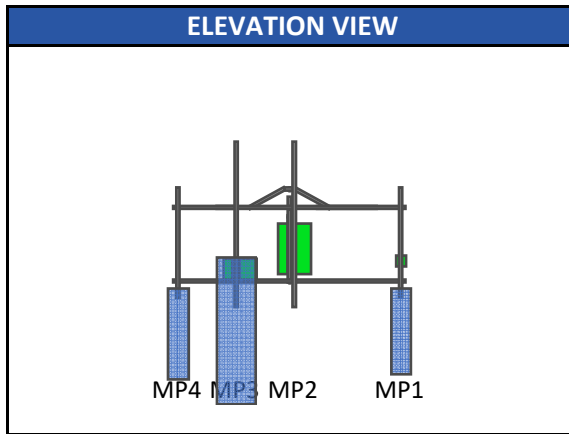
WIND AND ICE DATA		
Ultimate Wind (V_{ult}):	118	mph
Design Wind (V):	N/A	mph
Ice Wind (V_{ice}):	50	mph
Base Ice Thickness (t_i):	1	in
Flat Pressure:	92.66	psf
Round Pressure:	55.60	psf
Ice Wind Pressure:	9.98	psf

SEISMIC DATA		
Short-Period Accel. (S_s):	0.20	g
1-Second Accel. (S_1):	0.05	g
Short-Period Design (S_{DS}):	0.22	
1-Second Design (S_{D1}):	0.09	
Short-Period Coeff. (F_a):	1.60	
1-Second Coeff. (F_v):	2.40	
Amplification Factor (a_p):	1.00	
Response Mod. (R_p):	2.50	
Overstrength (Ω_o):	1.00	



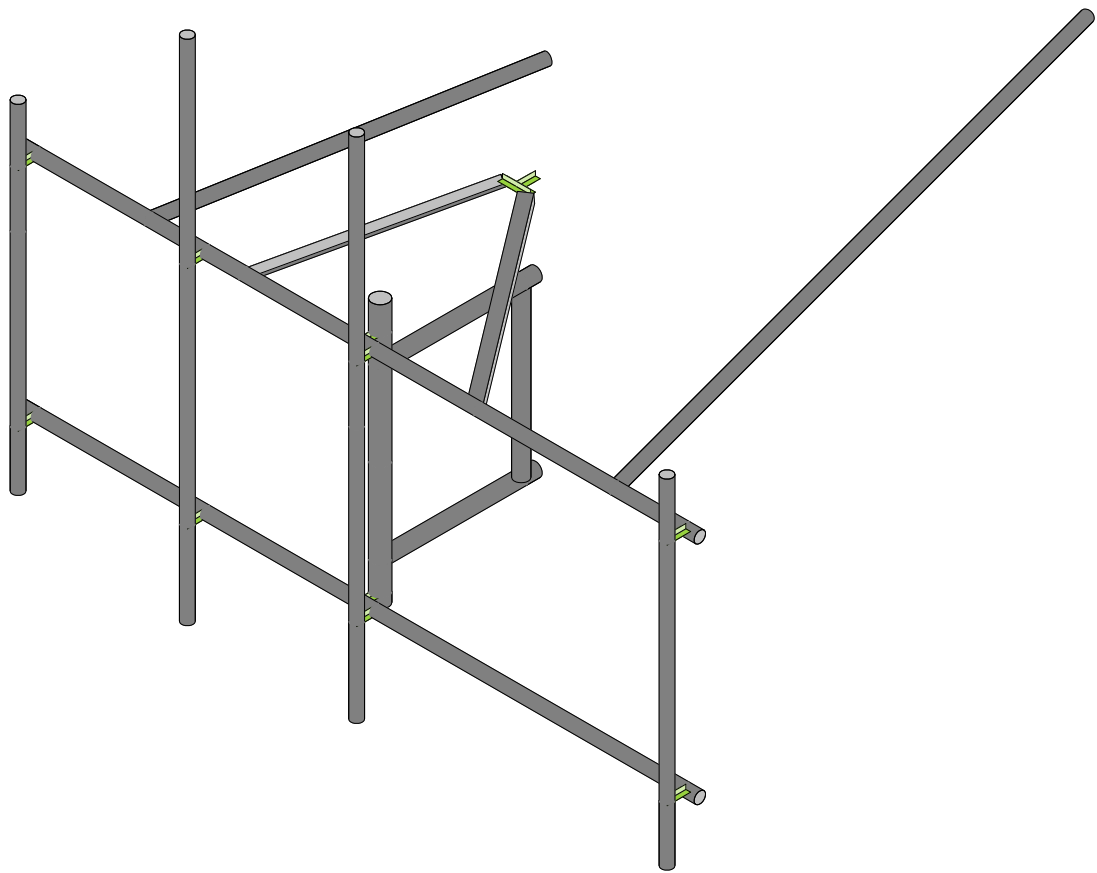
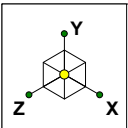
Infinigy Load Calculator V2.1.4

Program Inputs



Infinigy Load Calculator V2.1.4

APPURTENANCE INFORMATION											
Appurtenance Name	Elevation	Qty.	K_a	q_z (psf)	EPA_N (ft ²)	EPA_T (ft ²)	Wind F_z (lbs)	Wind F_x (lbs)	Weight (lbs)	Seismic F (lbs)	Member (α sector)
ERICSSON AIR6449 B41	149.0	3	0.90	46.40	5.68	2.49	237.27	104.00	104.00	11.20	MP2
ERICSSON AIR 21, 1.3 M, B2A B4P	149.0	3	0.90	46.40	6.05	4.36	252.61	181.88	83.00	8.94	MP1
ERICSSON AIR 32 B2A B66AA	149.0	3	0.90	46.40	6.85	4.96	286.03	207.26	143.00	15.41	MP4
RFS/CELWAVE APXVAARR24_43-U-NA2C	149.0	3	0.90	46.40	20.24	8.89	845.28	371.16	96.80	10.43	MP3
ERICSSON TME-KRY 112 144/1	149.0	3	0.90	46.40	0.35	0.18	14.62	7.31	11.00	1.19	MP1
ERICSSON RRUS 4415 B25	149.0	3	0.90	46.40	1.65	0.68	68.90	28.48	46.00	4.96	MP3
ERICSSON RADIO 4449 B71 B85A	149.0	3	0.90	46.40	1.65	1.31	68.90	54.81	75.00	8.08	MP3



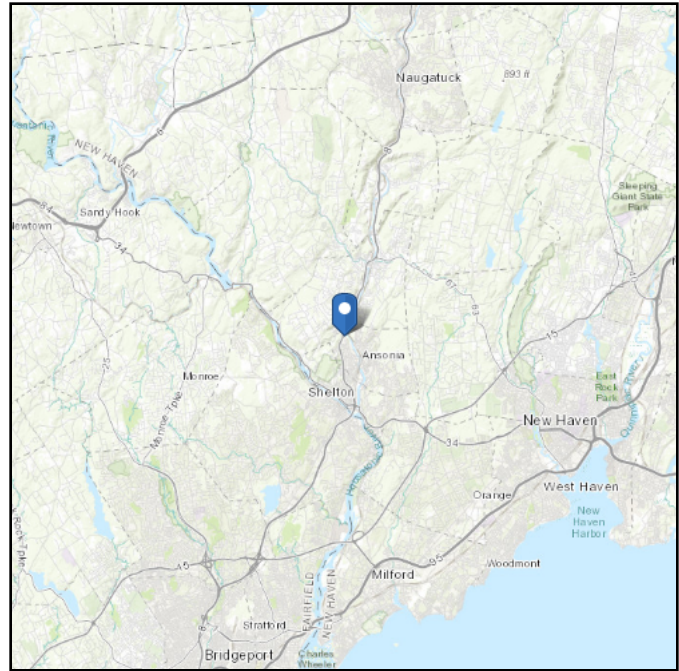
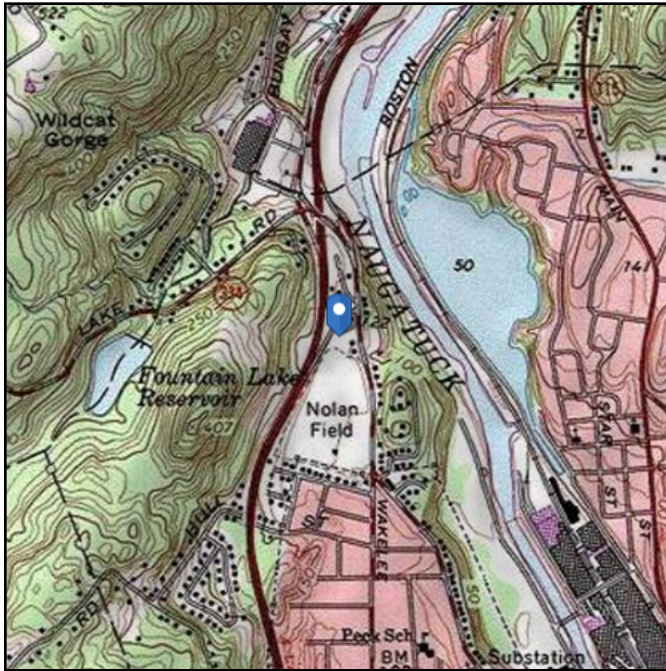
T-Mobile	302470	Proposed Configuration
Infinigy		July 20, 2020 at 1:55 PM
		302470_loaded.r3d

ASCE 7 Hazards Report

Address:
No Address at This
Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Elevation: 127.41 ft (NAVD 88)
Latitude: 41.3561
Longitude: -73.092



Wind

Results:

Wind Speed:	118 Vmph
10-year MRI	75 Vmph
25-year MRI	85 Vmph
50-year MRI	90 Vmph
100-year MRI	98 Vmph

Data Source: ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1-CC.2-4

Date Accessed: Thu Jul 16 2020

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

Site is in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2. Glazed openings need not be protected against wind-borne debris.

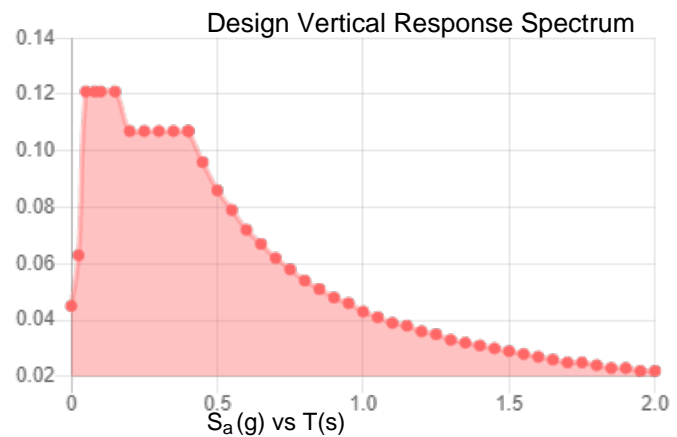
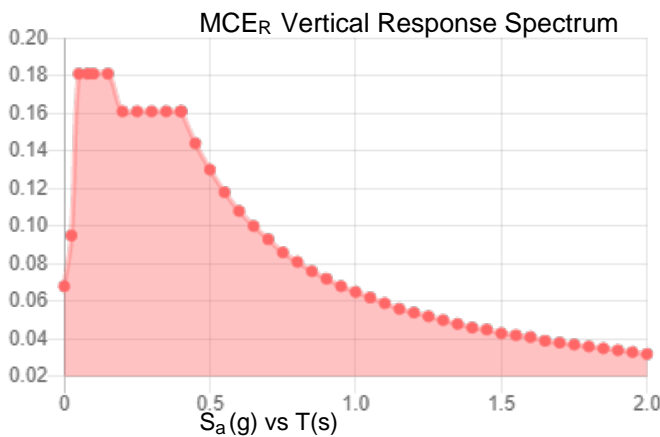
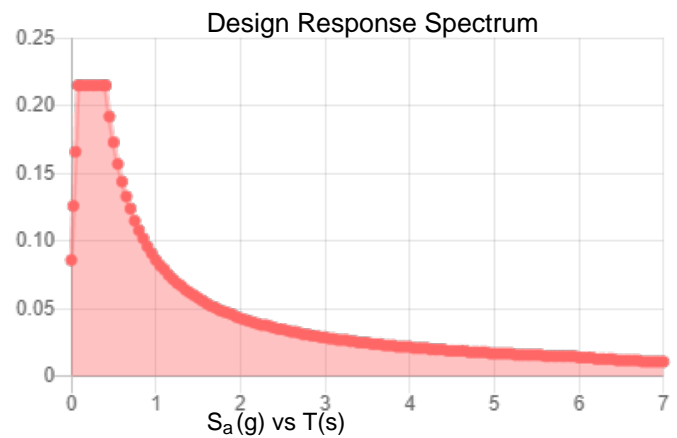
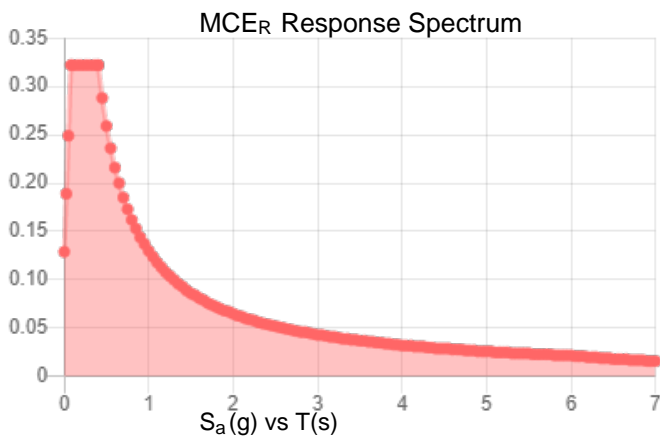
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.

Site Soil Class: D - Stiff Soil

Results:

S_s :	0.202	S_{D1} :	0.086
S_1 :	0.054	T_L :	6
F_a :	1.6	PGA :	0.113
F_v :	2.4	PGA _M :	0.178
S_{MS} :	0.322	F_{PGA} :	1.574
S_{M1} :	0.13	I_e :	1
S_{DS} :	0.215	C_v :	0.703

Seismic Design Category B



Data Accessed:

Thu Jul 16 2020

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

Ice

Results:

Ice Thickness: 1.00 in.
Concurrent Temperature: 15 F
Gust Speed: 50 mph

Data Source: Standard ASCE/SEI 7-16, Figs. 10-2 through 10-8

Date Accessed: Thu Jul 16 2020

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

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Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	HP1	N9	N8			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
2	M2	N12	N11			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
3	M3	N10	N14			RIGID	None	None	RIGID	Typical
4	M4	N17	N13			RIGID	None	None	RIGID	Typical
5	M5	N15	N16			PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical
6	M6	N18	N20			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
7	M7	N19	N21			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
8	M8	N22	N23			PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical
9	M9	N28	N27			RIGID	None	None	RIGID	Typical
10	M10	N26	N28		90	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical
11	M11	N25	N27		180	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical
12	M12	N24	N29			RIGID	None	None	RIGID	Typical
13	M13	N30	N31			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
14	M14	N32	N33			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
15	M15	N37	N43			RIGID	None	None	RIGID	Typical
16	M16	N36	N42			RIGID	None	None	RIGID	Typical
17	M17	N35	N41			RIGID	None	None	RIGID	Typical
18	M18	N34	N40			RIGID	None	None	RIGID	Typical
19	M19	N39	N45			RIGID	None	None	RIGID	Typical
20	M20	N38	N44			RIGID	None	None	RIGID	Typical
21	MP4	N49	N47			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
22	MP2	N51	N46			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
23	MP1	N50	N48			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical
24	M24	N55	N57			RIGID	None	None	RIGID	Typical
25	M25	N54	N56			RIGID	None	None	RIGID	Typical
26	MP3	N59	N58			PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[LB]
1	General				
2	RIGID		12	50	0
3	Total General		12	50	0
4					
5	Hot Rolled Steel				
6	A36 Gr.36	L2.5x2.5x3	2	82.9	21.173
7	A53 Gr.B	PIPE 2.0	8	863	249.611
8	A53 Gr.B	PIPE 2.5	3	102	46.567
9	A53 Gr.B	PIPE 3.0	1	56	32.871
10	Total HR Steel		14	1103.9	350.222

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
1	Self Weight	DL		-1			11		
2	Wind Load AZI 0	WLZ					22		
3	Wind Load AZI 30	None					22		
4	Wind Load AZI 60	None					22		
5	Wind Load AZI 90	WLX					22		
6	Wind Load AZI 120	None					22		
7	Wind Load AZI 150	None					22		
8	Wind Load AZI 180	None					22		
9	Wind Load AZI 210	None					22		
10	Wind Load AZI 240	None					22		
11	Wind Load AZI 270	None					22		



Company : T-Mobile
 Designer : Infinigy
 Job Number :
 Model Name : 302470

July 20, 2020
 1:59 PM
 Checked By: D.J.

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
12	Wind Load AZI 300	None					22		
13	Wind Load AZI 330	None					22		
14	Distr. Wind Load Z	WLZ						26	
15	Distr. Wind Load X	WLX						26	
16	Ice Weight	OL1					11	26	
17	Ice Wind Load AZI 0	OL2					22		
18	Ice Wind Load AZI 30	None					22		
19	Ice Wind Load AZI 60	None					22		
20	Ice Wind Load AZI 90	OL3					22		
21	Ice Wind Load AZI 120	None					22		
22	Ice Wind Load AZI 150	None					22		
23	Ice Wind Load AZI 180	None					22		
24	Ice Wind Load AZI 210	None					22		
25	Ice Wind Load AZI 240	None					22		
26	Ice Wind Load AZI 270	None					22		
27	Ice Wind Load AZI 300	None					22		
28	Ice Wind Load AZI 330	None					22		
29	Distr. Ice Wind Load Z	OL2						26	
30	Distr. Ice Wind Load X	OL3						26	
31	Seismic Load Z	ELZ			-108		11		
32	Seismic Load X	ELX	-108				11		
33	Service Live Loads	LL							
34	Maintenance Load 1	LL				1			
35	Maintenance Load 2	LL				1			
36	Maintenance Load 3	LL				1			
37	Maintenance Load 4	LL				1			

Load Combinations

Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4DL	Yes	Y		1	1.4													
2	1.2DL + 1WL AZI 0	Yes	Y		1	1.2	2	1	14	1	15								
3	1.2DL + 1WL AZI 30	Yes	Y		1	1.2	3	1	14	.866	15	.5							
4	1.2DL + 1WL AZI 60	Yes	Y		1	1.2	4	1	14	.5	15	.866							
5	1.2DL + 1WL AZI 90	Yes	Y		1	1.2	5	1	14		15	1							
6	1.2DL + 1WL AZI 120	Yes	Y		1	1.2	6	1	14	-.5	15	.866							
7	1.2DL + 1WL AZI 150	Yes	Y		1	1.2	7	1	14	-.8...	15	.5							
8	1.2DL + 1WL AZI 180	Yes	Y		1	1.2	8	1	14	-1	15								
9	1.2DL + 1WL AZI 210	Yes	Y		1	1.2	9	1	14	-.8...	15	-.5							
10	1.2DL + 1WL AZI 240	Yes	Y		1	1.2	10	1	14	-.5	15	-.8...							
11	1.2DL + 1WL AZI 270	Yes	Y		1	1.2	11	1	14		15	-1							
12	1.2DL + 1WL AZI 300	Yes	Y		1	1.2	12	1	14	.5	15	-.8...							
13	1.2DL + 1WL AZI 330	Yes	Y		1	1.2	13	1	14	.866	15	-.5							
14	0.9DL + 1WL AZI 0	Yes	Y		1	.9	2	1	14	1	15								
15	0.9DL + 1WL AZI 30	Yes	Y		1	.9	3	1	14	.866	15	.5							
16	0.9DL + 1WL AZI 60	Yes	Y		1	.9	4	1	14	.5	15	.866							
17	0.9DL + 1WL AZI 90	Yes	Y		1	.9	5	1	14		15	1							
18	0.9DL + 1WL AZI 120	Yes	Y		1	.9	6	1	14	-.5	15	.866							
19	0.9DL + 1WL AZI 150	Yes	Y		1	.9	7	1	14	-.8...	15	.5							
20	0.9DL + 1WL AZI 180	Yes	Y		1	.9	8	1	14	-1	15								
21	0.9DL + 1WL AZI 210	Yes	Y		1	.9	9	1	14	-.8...	15	-.5							
22	0.9DL + 1WL AZI 240	Yes	Y		1	.9	10	1	14	-.5	15	-.8...							
23	0.9DL + 1WL AZI 270	Yes	Y		1	.9	11	1	14		15	-1							
24	0.9DL + 1WL AZI 300	Yes	Y		1	.9	12	1	14	.5	15	-.8...							
25	0.9DL + 1WL AZI 330	Yes	Y		1	.9	13	1	14	.866	15	-.5							
26	1.2D + 1.0Di	Yes	Y		1	1.2	16	1											



Load Combinations (Continued)

	Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
27	1.2D + 1.0Di + 1.0Wi AZI 0	Yes	Y		1	1.2	16	1	17	1	29	1	30									
28	1.2D + 1.0Di + 1.0Wi AZI 30	Yes	Y		1	1.2	16	1	18	1	29	.866	30	.5								
29	1.2D + 1.0Di + 1.0Wi AZI 60	Yes	Y		1	1.2	16	1	19	1	29	.5	30	.866								
30	1.2D + 1.0Di + 1.0Wi AZI 90	Yes	Y		1	1.2	16	1	20	1	29		30	1								
31	1.2D + 1.0Di + 1.0Wi AZI 120	Yes	Y		1	1.2	16	1	21	1	29	-.5	30	.866								
32	1.2D + 1.0Di + 1.0Wi AZI 150	Yes	Y		1	1.2	16	1	22	1	29	-.8...	30	.5								
33	1.2D + 1.0Di + 1.0Wi AZI 180	Yes	Y		1	1.2	16	1	23	1	29	-1	30									
34	1.2D + 1.0Di + 1.0Wi AZI 210	Yes	Y		1	1.2	16	1	24	1	29	-.8...	30	-.5								
35	1.2D + 1.0Di + 1.0Wi AZI 240	Yes	Y		1	1.2	16	1	25	1	29	-.5	30	-.8...								
36	1.2D + 1.0Di + 1.0Wi AZI 270	Yes	Y		1	1.2	16	1	26	1	29		30	-1								
37	1.2D + 1.0Di + 1.0Wi AZI 300	Yes	Y		1	1.2	16	1	27	1	29	.5	30	-.8...								
38	1.2D + 1.0Di + 1.0Wi AZI 330	Yes	Y		1	1.2	16	1	28	1	29	.866	30	-.5								
39	(1.2 + 0.2Sds)DL + 1.0E AZI 0	Yes	Y		1	1.2...	31	1	32													
40	(1.2 + 0.2Sds)DL + 1.0E AZI 30	Yes	Y		1	1.2...	31	.866	32	.5												
41	(1.2 + 0.2Sds)DL + 1.0E AZI 60	Yes	Y		1	1.2...	31	.5	32	.866												
42	(1.2 + 0.2Sds)DL + 1.0E AZI 90	Yes	Y		1	1.2...	31		32	1												
43	(1.2 + 0.2Sds)DL + 1.0E AZI 120	Yes	Y		1	1.2...	31	-.5	32	.866												
44	(1.2 + 0.2Sds)DL + 1.0E AZI 150	Yes	Y		1	1.2...	31	-.8...	32	.5												
45	(1.2 + 0.2Sds)DL + 1.0E AZI 180	Yes	Y		1	1.2...	31	-1	32													
46	(1.2 + 0.2Sds)DL + 1.0E AZI 210	Yes	Y		1	1.2...	31	-.8...	32	-.5												
47	(1.2 + 0.2Sds)DL + 1.0E AZI 240	Yes	Y		1	1.2...	31	-.5	32	-.8...												
48	(1.2 + 0.2Sds)DL + 1.0E AZI 270	Yes	Y		1	1.2...	31		32	-1												
49	(1.2 + 0.2Sds)DL + 1.0E AZI 300	Yes	Y		1	1.2...	31	.5	32	-.8...												
50	(1.2 + 0.2Sds)DL + 1.0E AZI 330	Yes	Y		1	1.2...	31	.866	32	-.5												
51	(0.9 - 0.2Sds)DL + 1.0E AZI 0	Yes	Y		1	.857	31	1	32													
52	(0.9 - 0.2Sds)DL + 1.0E AZI 30	Yes	Y		1	.857	31	.866	32	.5												
53	(0.9 - 0.2Sds)DL + 1.0E AZI 60	Yes	Y		1	.857	31	.5	32	.866												
54	(0.9 - 0.2Sds)DL + 1.0E AZI 90	Yes	Y		1	.857	31		32	1												
55	(0.9 - 0.2Sds)DL + 1.0E AZI 120	Yes	Y		1	.857	31	-.5	32	.866												
56	(0.9 - 0.2Sds)DL + 1.0E AZI 150	Yes	Y		1	.857	31	-.8...	32	.5												
57	(0.9 - 0.2Sds)DL + 1.0E AZI 180	Yes	Y		1	.857	31	-1	32													
58	(0.9 - 0.2Sds)DL + 1.0E AZI 210	Yes	Y		1	.857	31	-.8...	32	-.5												
59	(0.9 - 0.2Sds)DL + 1.0E AZI 240	Yes	Y		1	.857	31	-.5	32	-.8...												
60	(0.9 - 0.2Sds)DL + 1.0E AZI 270	Yes	Y		1	.857	31		32	-1												
61	(0.9 - 0.2Sds)DL + 1.0E AZI 300	Yes	Y		1	.857	31	.5	32	-.8...												
62	(0.9 - 0.2Sds)DL + 1.0E AZI 330	Yes	Y		1	.857	31	.866	32	-.5												
63	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	2	.259	14	.259	15		33	1.5								
64	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	3	.259	14	.224	15	.129	33	1.5								
65	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	4	.259	14	.129	15	.224	33	1.5								
66	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	5	.259	14		15	.259	33	1.5								
67	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	6	.259	14	-.1...	15	.224	33	1.5								
68	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	7	.259	14	-.2...	15	.129	33	1.5								
69	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	8	.259	14	-.2...	15		33	1.5								
70	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	9	.259	14	-.2...	15	-.1...	33	1.5								
71	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	10	.259	14	-.1...	15	-.2...	33	1.5								
72	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	11	.259	14		15	-.2...	33	1.5								
73	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	12	.259	14	.129	15	-.2...	33	1.5								
74	1.0DL + 1.5LL + 1.0SWL (60 mph...	Yes	Y		1	1	13	.259	14	.224	15	-.1...	33	1.5								
75	1.2DL + 1.5LL	Yes	Y		1	1.2	33	1.5														
76	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	2	.065	14	.065	15									
77	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	3	.065	14	.056	15	.032								
78	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	4	.065	14	.032	15	.056								
79	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	5	.065	14		15	.065								
80	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	6	.065	14	-.0...	15	.056								
81	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	7	.065	14	-.0...	15	.032								
82	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	8	.065	14	-.0...	15									
83	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y		1	1.2	34	1.5	9	.065	14	-.0...	15	-.0...								



Company : T-Mobile
 Designer : Infinigy
 Job Number :
 Model Name : 302470

July 20, 2020
 1:59 PM
 Checked By: D.J.

Load Combinations (Continued)

Description	S	P	S	B	...	B	...	Fa	B	...	Fa	B	...	Fa	B	...	Fa	B	...	Fa	B	...	Fa	B	...	Fa	B	...	Fa	B	...		
84	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y	1	1.2	34	1.5	10	.065	14	-0...	15	-0...																				
85	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y	1	1.2	34	1.5	11	.065	14		15	-0...																				
86	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y	1	1.2	34	1.5	12	.065	14	.032	15	-0...																				
87	1.2DL + 1.5LM-MP1 + 1SWL (30 ...)	Yes	Y	1	1.2	34	1.5	13	.065	14	.056	15	-0...																				
88	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	2	.065	14	.065	15																					
89	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	3	.065	14	.056	15	.032																				
90	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	4	.065	14	.032	15	.056																				
91	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	5	.065	14		15	.065																				
92	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	6	.065	14	-0...	15	.056																				
93	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	7	.065	14	-0...	15	.032																				
94	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	8	.065	14	-0...	15																					
95	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	9	.065	14	-0...	15	-0...																				
96	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	10	.065	14	-0...	15	-0...																				
97	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	11	.065	14		15	-0...																				
98	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	12	.065	14	.032	15	-0...																				
99	1.2DL + 1.5LM-MP2 + 1SWL (30 ...)	Yes	Y	1	1.2	35	1.5	13	.065	14	.056	15	-0...																				
100	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	2	.065	14	.065	15																					
101	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	3	.065	14	.056	15	.032																				
102	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	4	.065	14	.032	15	.056																				
103	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	5	.065	14		15	.065																				
104	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	6	.065	14	-0...	15	.056																				
105	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	7	.065	14	-0...	15	.032																				
106	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	8	.065	14	-0...	15																					
107	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	9	.065	14	-0...	15	-0...																				
108	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	10	.065	14	-0...	15	-0...																				
109	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	11	.065	14		15	-0...																				
110	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	12	.065	14	.032	15	-0...																				
111	1.2DL + 1.5LM-MP3 + 1SWL (30 ...)	Yes	Y	1	1.2	36	1.5	13	.065	14	.056	15	-0...																				
112	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	2	.065	14	.065	15																					
113	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	3	.065	14	.056	15	.032																				
114	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	4	.065	14	.032	15	.056																				
115	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	5	.065	14		15	.065																				
116	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	6	.065	14	-0...	15	.056																				
117	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	7	.065	14	-0...	15	.032																				
118	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	8	.065	14	-0...	15																					
119	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	9	.065	14	-0...	15	-0...																				
120	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	10	.065	14	-0...	15	-0...																				
121	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	11	.065	14		15	-0...																				
122	1.2DL + 1.5LM-MP4 + 1SWL (30 ...)	Yes	Y	1	1.2	37	1.5	12	.065	14	.032	15	-0...																				

Envelope Joint Reactions

Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC	
1	N20	max	277.098	10	761.372	35	679.199	3	-134.069	16	0	122	478.584	102
2		min	-202.756	16	77.647	15	-439.334	21	-819.329	36	0	1	-805.796	85
3	N21	max	577.037	103	790.362	36	1156.165	13	-78.562	16	0	122	514.123	102
4		min	-945.619	85	140.76	16	-368.041	19	-786.048	35	0	1	-849.665	84
5	N29	max	1697.298	4	753.831	29	229.806	22	32.83	22	41.53	22	188.641	22
6		min	-1449.933	22	-97.221	22	-1929.832	29	-249.819	29	-39.072	4	-217.277	4
7	N31	max	197.719	13	54.181	35	861.688	13	0	122	0	122	0	122
8		min	-133.22	19	17.555	52	-633.039	19	0	1	0	1	0	1
9	N33	max	286.772	21	27.796	34	2044.727	3	0	122	0	122	0	122
10		min	-352.115	3	6.538	14	-1782.639	21	0	1	0	1	0	1
11	Totals:	max	1797.941	5	2267.837	30	2634.778	2						
12		min	-1797.934	23	778.947	60	-2634.76	20						



Company : T-Mobile
 Designer : Infinigy
 Job Number :
 Model Name : 302470

July 20, 2020
 1:59 PM
 Checked By: D.J.

Envelope AISC 15th(360-16): LRFD Steel Code Checks

Member	Shape	Code Check	Loc[in]	LC	Shear...	Locj...	Dir	LC	phi*Pnc...	phi*Pnt...	phi*Mn...	phi*Mn...Cb	Eqn
1	MP3	PIPE 2.0	.822	41.625	2	.265	90	9	26521....	32130	1871.625	1871.625	1 H1-1b
2	M2	PIPE 2.0	.779	72	86	.402	27	3	26092.12	32130	1871.625	1871.625	1 H1-1b
3	HP1	PIPE 2.0	.703	75	102	.320	72	8	20866....	32130	1871.625	1871.625	1 H1-1b
4	M7	PIPE 2.5	.662	0	85	.351	29.9...	84	48186....	50715	3596.25	3596.25	1 H3-6
5	MP1	PIPE 2.0	.627	12	107	.105	12	12	26521....	32130	1871.625	1871.625	1 H1-1b
6	MP4	PIPE 2.0	.443	12	82	.082	12	3	26521....	32130	1871.625	1871.625	1 H1-1b
7	M6	PIPE 2.5	.383	29.906	84	.307	29.9...	84	48186....	50715	3596.25	3596.25	1 H3-6
8	M5	PIPE 3.0	.232	11.667	85	.271	11.6...	86	62138....	65205	5748.75	5748.75	1 H3-6
9	MP2	PIPE 2.0	.175	90	102	.105	90	1...	26521....	32130	1871.625	1871.625	1 H1-1b
10	M13	PIPE 2.0	.155	71	12	.007	142	11	7024.747	32130	1871.625	1871.625	1... H1-1b
11	M8	PIPE 2.5	.133	0	84	.249	36	85	47114....	50715	3596.25	3596.25	2... H3-6
12	M10	L2.5x2.5x3	.126	20.718	4	.040	41.4... z	86	19783....	29192.4	872.574	1770.558	1... H2-1
13	M14	PIPE 2.0	.101	73	3	.004	73	11	20616....	32130	1871.625	1871.625	1... H1-1b*
14	M11	L2.5x2.5x3	.083	20.718	12	.042	0 y	1...	19783....	29192.4	872.574	1770.558	1... H2-1

Hot Rolled Steel Section Sets

Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]	
1	PIPE 2.0	PIPE 2.0	Beam	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
2	PIPE 2.5	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
3	PIPE 3.0	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
4	L2.5x2.5x3	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical	.901	.535	.535	.011

Member Advanced Data

Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	HP1					Yes	Default			None
2	M2					Yes				None
3	M3					Yes	** NA **			None
4	M4					Yes	** NA **			None
5	M5					Yes				None
6	M6					Yes				None
7	M7					Yes				None
8	M8					Yes				None
9	M9					Yes	** NA **			None
10	M10	BenPIN	BenPIN			Yes				None
11	M11	BenPIN	BenPIN			Yes				None
12	M12					Yes	** NA **			None
13	M13	BenPIN				Yes	Default			None
14	M14	BenPIN				Yes	Default			None
15	M15					Yes	** NA **			None
16	M16					Yes	** NA **			None
17	M17					Yes	** NA **			None
18	M18					Yes	** NA **			None
19	M19					Yes	** NA **			None
20	M20					Yes	** NA **			None
21	MP4					Yes				None
22	MP2					Yes				None
23	MP1					Yes				None
24	M24					Yes	** NA **			None
25	M25					Yes	** NA **			None
26	MP3					Yes				None



Hot Rolled Steel Properties

	Label	E [psi]	G [psi]	Nu	Therm (/1...	Density[lb/ft^3]	Yield[psi]	Ry	Fu[psi]	Rt
1	A992	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
2	A36 Gr.36	2.9e+7	1.115e+7	.3	.65	490	36000	1.5	58000	1.2
3	A572 Gr.50	2.9e+7	1.115e+7	.3	.65	490	50000	1.1	65000	1.1
4	A500 Gr.B RND	2.9e+7	1.115e+7	.3	.65	527	42000	1.4	58000	1.3
5	A500 Gr.B Rect	2.9e+7	1.115e+7	.3	.65	527	46000	1.4	58000	1.3
6	A53 Gr.B	2.9e+7	1.115e+7	.3	.65	490	35000	1.6	60000	1.2
7	A1085	2.9e+7	1.115e+7	.3	.65	490	50000	1.4	65000	1.3

Joint Loads and Enforced Displacements (BLC 34 : Maintenance Load 1)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N42	L	Y	-500

Joint Loads and Enforced Displacements (BLC 35 : Maintenance Load 2)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N40	L	Y	-500

Joint Loads and Enforced Displacements (BLC 36 : Maintenance Load 3)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N44	L	Y	-500

Joint Loads and Enforced Displacements (BLC 37 : Maintenance Load 4)

	Joint Label	L,D,M	Direction	Magnitude[(lb,lb-ft), (in,rad), (lb*s^...
1	N56	L	Y	-500

Member Point Loads (BLC 1 : Self Weight)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	Y	-52	38
2	MP2	Y	-52	71
3	MP1	Y	-41.5	6
4	MP1	Y	-41.5	52
5	MP4	Y	-71.5	6
6	MP4	Y	-71.5	54
7	MP3	Y	-48.4	6
8	MP3	Y	-48.4	102
9	MP1	Y	-11	24
10	MP3	Y	-46	24
11	MP3	Y	-75	24

Member Point Loads (BLC 2 : Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb,lb-ft]	Location[in,%]
1	MP2	X	0	38
2	MP2	Z	-118.64	38
3	MP2	X	0	71
4	MP2	Z	-118.64	71
5	MP1	X	0	6
6	MP1	Z	-126.3	6
7	MP1	X	0	52
8	MP1	Z	-126.3	52
9	MP4	X	0	6
10	MP4	Z	-143.01	6
11	MP4	X	0	54



Member Point Loads (BLC 2 : Wind Load AZI 0) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
12	MP4	Z	-143.01	54
13	MP3	X	0	6
14	MP3	Z	-422.64	6
15	MP3	X	0	102
16	MP3	Z	-422.64	102
17	MP1	X	0	24
18	MP1	Z	-14.62	24
19	MP3	X	0	24
20	MP3	Z	-68.9	24
21	MP3	X	0	24
22	MP3	Z	-68.9	24

Member Point Loads (BLC 3 : Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-50.99	38
2	MP2	Z	-88.32	38
3	MP2	X	-50.99	71
4	MP2	Z	-88.32	71
5	MP1	X	-58.73	6
6	MP1	Z	-101.73	6
7	MP1	X	-58.73	52
8	MP1	Z	-101.73	52
9	MP4	X	-66.58	6
10	MP4	Z	-115.33	6
11	MP4	X	-66.58	54
12	MP4	Z	-115.33	54
13	MP3	X	-181.69	6
14	MP3	Z	-314.69	6
15	MP3	X	-181.69	102
16	MP3	Z	-314.69	102
17	MP1	X	-6.39	24
18	MP1	Z	-11.07	24
19	MP3	X	-29.4	24
20	MP3	Z	-50.92	24
21	MP3	X	-32.69	24
22	MP3	Z	-56.62	24

Member Point Loads (BLC 4 : Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-59.46	38
2	MP2	Z	-34.33	38
3	MP2	X	-59.46	71
4	MP2	Z	-34.33	71
5	MP1	X	-86.41	6
6	MP1	Z	-49.89	6
7	MP1	X	-86.41	52
8	MP1	Z	-49.89	52
9	MP4	X	-98.27	6
10	MP4	Z	-56.74	6
11	MP4	X	-98.27	54
12	MP4	Z	-56.74	54
13	MP3	X	-212.04	6
14	MP3	Z	-122.42	6
15	MP3	X	-212.04	102
16	MP3	Z	-122.42	102
17	MP1	X	-7.91	24



Member Point Loads (BLC 4 : Wind Load AZI 60) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
18	MP1	Z	-4.57	24
19	MP3	X	-33.41	24
20	MP3	Z	-19.29	24
21	MP3	X	-50.52	24
22	MP3	Z	-29.17	24

Member Point Loads (BLC 5 : Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-52	38
2	MP2	Z	0	38
3	MP2	X	-52	71
4	MP2	Z	0	71
5	MP1	X	-90.94	6
6	MP1	Z	0	6
7	MP1	X	-90.94	52
8	MP1	Z	0	52
9	MP4	X	-103.63	6
10	MP4	Z	0	6
11	MP4	X	-103.63	54
12	MP4	Z	0	54
13	MP3	X	-185.58	6
14	MP3	Z	0	6
15	MP3	X	-185.58	102
16	MP3	Z	0	102
17	MP1	X	-7.31	24
18	MP1	Z	0	24
19	MP3	X	-28.48	24
20	MP3	Z	0	24
21	MP3	X	-54.81	24
22	MP3	Z	0	24

Member Point Loads (BLC 6 : Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-59.46	38
2	MP2	Z	34.33	38
3	MP2	X	-59.46	71
4	MP2	Z	34.33	71
5	MP1	X	-86.41	6
6	MP1	Z	49.89	6
7	MP1	X	-86.41	52
8	MP1	Z	49.89	52
9	MP4	X	-98.27	6
10	MP4	Z	56.74	6
11	MP4	X	-98.27	54
12	MP4	Z	56.74	54
13	MP3	X	-212.04	6
14	MP3	Z	122.42	6
15	MP3	X	-212.04	102
16	MP3	Z	122.42	102
17	MP1	X	-7.91	24
18	MP1	Z	4.57	24
19	MP3	X	-33.41	24
20	MP3	Z	19.29	24
21	MP3	X	-50.52	24
22	MP3	Z	29.17	24



Member Point Loads (BLC 7 : Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP2	X	-50.99	38
2	MP2	Z	88.32	38
3	MP2	X	-50.99	71
4	MP2	Z	88.32	71
5	MP1	X	-58.73	6
6	MP1	Z	101.73	6
7	MP1	X	-58.73	52
8	MP1	Z	101.73	52
9	MP4	X	-66.58	6
10	MP4	Z	115.33	6
11	MP4	X	-66.58	54
12	MP4	Z	115.33	54
13	MP3	X	-181.69	6
14	MP3	Z	314.69	6
15	MP3	X	-181.69	102
16	MP3	Z	314.69	102
17	MP1	X	-6.39	24
18	MP1	Z	11.07	24
19	MP3	X	-29.4	24
20	MP3	Z	50.92	24
21	MP3	X	-32.69	24
22	MP3	Z	56.62	24

Member Point Loads (BLC 8 : Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP2	X	0	38
2	MP2	Z	118.64	38
3	MP2	X	0	71
4	MP2	Z	118.64	71
5	MP1	X	0	6
6	MP1	Z	126.3	6
7	MP1	X	0	52
8	MP1	Z	126.3	52
9	MP4	X	0	6
10	MP4	Z	143.01	6
11	MP4	X	0	54
12	MP4	Z	143.01	54
13	MP3	X	0	6
14	MP3	Z	422.64	6
15	MP3	X	0	102
16	MP3	Z	422.64	102
17	MP1	X	0	24
18	MP1	Z	14.62	24
19	MP3	X	0	24
20	MP3	Z	68.9	24
21	MP3	X	0	24
22	MP3	Z	68.9	24

Member Point Loads (BLC 9 : Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP2	X	50.99	38
2	MP2	Z	88.32	38
3	MP2	X	50.99	71
4	MP2	Z	88.32	71
5	MP1	X	58.73	6
6	MP1	Z	101.73	6



Member Point Loads (BLC 9 : Wind Load AZI 210) (Continued)

	Member Label	Direction	Magnitude[lb.,lb-ft]	Location[in. %]
7	MP1	X	58.73	52
8	MP1	Z	101.73	52
9	MP4	X	66.58	6
10	MP4	Z	115.33	6
11	MP4	X	66.58	54
12	MP4	Z	115.33	54
13	MP3	X	181.69	6
14	MP3	Z	314.69	6
15	MP3	X	181.69	102
16	MP3	Z	314.69	102
17	MP1	X	6.39	24
18	MP1	Z	11.07	24
19	MP3	X	29.4	24
20	MP3	Z	50.92	24
21	MP3	X	32.69	24
22	MP3	Z	56.62	24

Member Point Loads (BLC 10 : Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.,lb-ft]	Location[in. %]
1	MP2	X	59.46	38
2	MP2	Z	34.33	38
3	MP2	X	59.46	71
4	MP2	Z	34.33	71
5	MP1	X	86.41	6
6	MP1	Z	49.89	6
7	MP1	X	86.41	52
8	MP1	Z	49.89	52
9	MP4	X	98.27	6
10	MP4	Z	56.74	6
11	MP4	X	98.27	54
12	MP4	Z	56.74	54
13	MP3	X	212.04	6
14	MP3	Z	122.42	6
15	MP3	X	212.04	102
16	MP3	Z	122.42	102
17	MP1	X	7.91	24
18	MP1	Z	4.57	24
19	MP3	X	33.41	24
20	MP3	Z	19.29	24
21	MP3	X	50.52	24
22	MP3	Z	29.17	24

Member Point Loads (BLC 11 : Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.,lb-ft]	Location[in. %]
1	MP2	X	52	38
2	MP2	Z	0	38
3	MP2	X	52	71
4	MP2	Z	0	71
5	MP1	X	90.94	6
6	MP1	Z	0	6
7	MP1	X	90.94	52
8	MP1	Z	0	52
9	MP4	X	103.63	6
10	MP4	Z	0	6
11	MP4	X	103.63	54
12	MP4	Z	0	54



Member Point Loads (BLC 11 : Wind Load AZI 270) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
13	MP3	X	185.58	6
14	MP3	Z	0	6
15	MP3	X	185.58	102
16	MP3	Z	0	102
17	MP1	X	7.31	24
18	MP1	Z	0	24
19	MP3	X	28.48	24
20	MP3	Z	0	24
21	MP3	X	54.81	24
22	MP3	Z	0	24

Member Point Loads (BLC 12 : Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	59.46	38
2	MP2	Z	-34.33	38
3	MP2	X	59.46	71
4	MP2	Z	-34.33	71
5	MP1	X	86.41	6
6	MP1	Z	-49.89	6
7	MP1	X	86.41	52
8	MP1	Z	-49.89	52
9	MP4	X	98.27	6
10	MP4	Z	-56.74	6
11	MP4	X	98.27	54
12	MP4	Z	-56.74	54
13	MP3	X	212.04	6
14	MP3	Z	-122.42	6
15	MP3	X	212.04	102
16	MP3	Z	-122.42	102
17	MP1	X	7.91	24
18	MP1	Z	-4.57	24
19	MP3	X	33.41	24
20	MP3	Z	-19.29	24
21	MP3	X	50.52	24
22	MP3	Z	-29.17	24

Member Point Loads (BLC 13 : Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	50.99	38
2	MP2	Z	-88.32	38
3	MP2	X	50.99	71
4	MP2	Z	-88.32	71
5	MP1	X	58.73	6
6	MP1	Z	-101.73	6
7	MP1	X	58.73	52
8	MP1	Z	-101.73	52
9	MP4	X	66.58	6
10	MP4	Z	-115.33	6
11	MP4	X	66.58	54
12	MP4	Z	-115.33	54
13	MP3	X	181.69	6
14	MP3	Z	-314.69	6
15	MP3	X	181.69	102
16	MP3	Z	-314.69	102
17	MP1	X	6.39	24
18	MP1	Z	-11.07	24



Member Point Loads (BLC 13 : Wind Load AZI 330) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
19	MP3	X	29.4	24
20	MP3	Z	-50.92	24
21	MP3	X	32.69	24
22	MP3	Z	-56.62	24

Member Point Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP2	Y	-48.756	38
2	MP2	Y	-48.756	71
3	MP1	Y	-52.682	6
4	MP1	Y	-52.682	52
5	MP4	Y	-59.548	6
6	MP4	Y	-59.548	54
7	MP3	Y	-137.501	6
8	MP3	Y	-137.501	102
9	MP1	Y	-9.316	24
10	MP3	Y	-32.693	24
11	MP3	Y	-44.425	24

Member Point Loads (BLC 17 : Ice Wind Load AZI 0)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP2	X	0	38
2	MP2	Z	-10.57	38
3	MP2	X	0	71
4	MP2	Z	-10.57	71
5	MP1	X	0	6
6	MP1	Z	-12.24	6
7	MP1	X	0	52
8	MP1	Z	-12.24	52
9	MP4	X	0	6
10	MP4	Z	-13.34	6
11	MP4	X	0	54
12	MP4	Z	-13.34	54
13	MP3	X	0	6
14	MP3	Z	-35.5	6
15	MP3	X	0	102
16	MP3	Z	-35.5	102
17	MP1	X	0	24
18	MP1	Z	-2.78	24
19	MP3	X	0	24
20	MP3	Z	-7.11	24
21	MP3	X	0	24
22	MP3	Z	-7.11	24

Member Point Loads (BLC 18 : Ice Wind Load AZI 30)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in. %]
1	MP2	X	-4.74	38
2	MP2	Z	-8.22	38
3	MP2	X	-4.74	71
4	MP2	Z	-8.22	71
5	MP1	X	-5.94	6
6	MP1	Z	-10.29	6
7	MP1	X	-5.94	52
8	MP1	Z	-10.29	52
9	MP4	X	-6.48	6



Member Point Loads (BLC 18 : Ice Wind Load AZI 30) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
10	MP4	Z	-11.22	6
11	MP4	X	-6.48	54
12	MP4	Z	-11.22	54
13	MP3	X	-15.84	6
14	MP3	Z	-27.44	6
15	MP3	X	-15.84	102
16	MP3	Z	-27.44	102
17	MP1	X	-1.27	24
18	MP1	Z	-2.2	24
19	MP3	X	-3.28	24
20	MP3	Z	-5.67	24
21	MP3	X	-3.47	24
22	MP3	Z	-6.01	24

Member Point Loads (BLC 19 : Ice Wind Load AZI 60)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-6.34	38
2	MP2	Z	-3.66	38
3	MP2	X	-6.34	71
4	MP2	Z	-3.66	71
5	MP1	X	-9.67	6
6	MP1	Z	-5.58	6
7	MP1	X	-9.67	52
8	MP1	Z	-5.58	52
9	MP4	X	-10.55	6
10	MP4	Z	-6.09	6
11	MP4	X	-10.55	54
12	MP4	Z	-6.09	54
13	MP3	X	-20.84	6
14	MP3	Z	-12.03	6
15	MP3	X	-20.84	102
16	MP3	Z	-12.03	102
17	MP1	X	-1.78	24
18	MP1	Z	-1.03	24
19	MP3	X	-4.71	24
20	MP3	Z	-2.72	24
21	MP3	X	-5.72	24
22	MP3	Z	-3.31	24

Member Point Loads (BLC 20 : Ice Wind Load AZI 90)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-6.23	38
2	MP2	Z	0	38
3	MP2	X	-6.23	71
4	MP2	Z	0	71
5	MP1	X	-10.81	6
6	MP1	Z	0	6
7	MP1	X	-10.81	52
8	MP1	Z	0	52
9	MP4	X	-11.8	6
10	MP4	Z	0	6
11	MP4	X	-11.8	54
12	MP4	Z	0	54
13	MP3	X	-20.25	6
14	MP3	Z	0	6
15	MP3	X	-20.25	102



Member Point Loads (BLC 20 : Ice Wind Load AZI 90) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
16	MP3	Z	0	102
17	MP1	X	-1.81	24
18	MP1	Z	0	24
19	MP3	X	-4.88	24
20	MP3	Z	0	24
21	MP3	X	-6.44	24
22	MP3	Z	0	24

Member Point Loads (BLC 21 : Ice Wind Load AZI 120)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-6.34	38
2	MP2	Z	3.66	38
3	MP2	X	-6.34	71
4	MP2	Z	3.66	71
5	MP1	X	-9.67	6
6	MP1	Z	5.58	6
7	MP1	X	-9.67	52
8	MP1	Z	5.58	52
9	MP4	X	-10.55	6
10	MP4	Z	6.09	6
11	MP4	X	-10.55	54
12	MP4	Z	6.09	54
13	MP3	X	-20.84	6
14	MP3	Z	12.03	6
15	MP3	X	-20.84	102
16	MP3	Z	12.03	102
17	MP1	X	-1.78	24
18	MP1	Z	1.03	24
19	MP3	X	-4.71	24
20	MP3	Z	2.72	24
21	MP3	X	-5.72	24
22	MP3	Z	3.31	24

Member Point Loads (BLC 22 : Ice Wind Load AZI 150)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	-4.74	38
2	MP2	Z	8.22	38
3	MP2	X	-4.74	71
4	MP2	Z	8.22	71
5	MP1	X	-5.94	6
6	MP1	Z	10.29	6
7	MP1	X	-5.94	52
8	MP1	Z	10.29	52
9	MP4	X	-6.48	6
10	MP4	Z	11.22	6
11	MP4	X	-6.48	54
12	MP4	Z	11.22	54
13	MP3	X	-15.84	6
14	MP3	Z	27.44	6
15	MP3	X	-15.84	102
16	MP3	Z	27.44	102
17	MP1	X	-1.27	24
18	MP1	Z	2.2	24
19	MP3	X	-3.28	24
20	MP3	Z	5.67	24
21	MP3	X	-3.47	24



Member Point Loads (BLC 22 : Ice Wind Load AZI 150) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
22	MP3	Z	6.01	24

Member Point Loads (BLC 23 : Ice Wind Load AZI 180)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	0	38
2	MP2	Z	10.57	38
3	MP2	X	0	71
4	MP2	Z	10.57	71
5	MP1	X	0	6
6	MP1	Z	12.24	6
7	MP1	X	0	52
8	MP1	Z	12.24	52
9	MP4	X	0	6
10	MP4	Z	13.34	6
11	MP4	X	0	54
12	MP4	Z	13.34	54
13	MP3	X	0	6
14	MP3	Z	35.5	6
15	MP3	X	0	102
16	MP3	Z	35.5	102
17	MP1	X	0	24
18	MP1	Z	2.78	24
19	MP3	X	0	24
20	MP3	Z	7.11	24
21	MP3	X	0	24
22	MP3	Z	7.11	24

Member Point Loads (BLC 24 : Ice Wind Load AZI 210)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	4.74	38
2	MP2	Z	8.22	38
3	MP2	X	4.74	71
4	MP2	Z	8.22	71
5	MP1	X	5.94	6
6	MP1	Z	10.29	6
7	MP1	X	5.94	52
8	MP1	Z	10.29	52
9	MP4	X	6.48	6
10	MP4	Z	11.22	6
11	MP4	X	6.48	54
12	MP4	Z	11.22	54
13	MP3	X	15.84	6
14	MP3	Z	27.44	6
15	MP3	X	15.84	102
16	MP3	Z	27.44	102
17	MP1	X	1.27	24
18	MP1	Z	2.2	24
19	MP3	X	3.28	24
20	MP3	Z	5.67	24
21	MP3	X	3.47	24
22	MP3	Z	6.01	24

Member Point Loads (BLC 25 : Ice Wind Load AZI 240)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	6.34	38



Member Point Loads (BLC 25 : Ice Wind Load AZI 240) (Continued)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
2	MP2	Z	3.66	38
3	MP2	X	6.34	71
4	MP2	Z	3.66	71
5	MP1	X	9.67	6
6	MP1	Z	5.58	6
7	MP1	X	9.67	52
8	MP1	Z	5.58	52
9	MP4	X	10.55	6
10	MP4	Z	6.09	6
11	MP4	X	10.55	54
12	MP4	Z	6.09	54
13	MP3	X	20.84	6
14	MP3	Z	12.03	6
15	MP3	X	20.84	102
16	MP3	Z	12.03	102
17	MP1	X	1.78	24
18	MP1	Z	1.03	24
19	MP3	X	4.71	24
20	MP3	Z	2.72	24
21	MP3	X	5.72	24
22	MP3	Z	3.31	24

Member Point Loads (BLC 26 : Ice Wind Load AZI 270)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	6.23	38
2	MP2	Z	0	38
3	MP2	X	6.23	71
4	MP2	Z	0	71
5	MP1	X	10.81	6
6	MP1	Z	0	6
7	MP1	X	10.81	52
8	MP1	Z	0	52
9	MP4	X	11.8	6
10	MP4	Z	0	6
11	MP4	X	11.8	54
12	MP4	Z	0	54
13	MP3	X	20.25	6
14	MP3	Z	0	6
15	MP3	X	20.25	102
16	MP3	Z	0	102
17	MP1	X	1.81	24
18	MP1	Z	0	24
19	MP3	X	4.88	24
20	MP3	Z	0	24
21	MP3	X	6.44	24
22	MP3	Z	0	24

Member Point Loads (BLC 27 : Ice Wind Load AZI 300)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in.%]
1	MP2	X	6.34	38
2	MP2	Z	-3.66	38
3	MP2	X	6.34	71
4	MP2	Z	-3.66	71
5	MP1	X	9.67	6
6	MP1	Z	-5.58	6
7	MP1	X	9.67	52



Member Point Loads (BLC 27 : Ice Wind Load AZI 300) (Continued)

	Member Label	Direction	Magnitude[lb.-lb-ft]	Location[in. %]
8	MP1	Z	-5.58	52
9	MP4	X	10.55	6
10	MP4	Z	-6.09	6
11	MP4	X	10.55	54
12	MP4	Z	-6.09	54
13	MP3	X	20.84	6
14	MP3	Z	-12.03	6
15	MP3	X	20.84	102
16	MP3	Z	-12.03	102
17	MP1	X	1.78	24
18	MP1	Z	-1.03	24
19	MP3	X	4.71	24
20	MP3	Z	-2.72	24
21	MP3	X	5.72	24
22	MP3	Z	-3.31	24

Member Point Loads (BLC 28 : Ice Wind Load AZI 330)

	Member Label	Direction	Magnitude[lb.-lb-ft]	Location[in. %]
1	MP2	X	4.74	38
2	MP2	Z	-8.22	38
3	MP2	X	4.74	71
4	MP2	Z	-8.22	71
5	MP1	X	5.94	6
6	MP1	Z	-10.29	6
7	MP1	X	5.94	52
8	MP1	Z	-10.29	52
9	MP4	X	6.48	6
10	MP4	Z	-11.22	6
11	MP4	X	6.48	54
12	MP4	Z	-11.22	54
13	MP3	X	15.84	6
14	MP3	Z	-27.44	6
15	MP3	X	15.84	102
16	MP3	Z	-27.44	102
17	MP1	X	1.27	24
18	MP1	Z	-2.2	24
19	MP3	X	3.28	24
20	MP3	Z	-5.67	24
21	MP3	X	3.47	24
22	MP3	Z	-6.01	24

Member Point Loads (BLC 31 : Seismic Load Z)

	Member Label	Direction	Magnitude[lb.-lb-ft]	Location[in. %]
1	MP2	Z	-5.602	38
2	MP2	Z	-5.602	71
3	MP1	Z	-4.471	6
4	MP1	Z	-4.471	52
5	MP4	Z	-7.703	6
6	MP4	Z	-7.703	54
7	MP3	Z	-5.214	6
8	MP3	Z	-5.214	102
9	MP1	Z	-1.185	24
10	MP3	Z	-4.956	24
11	MP3	Z	-8.08	24



Member Point Loads (BLC 32 : Seismic Load X)

	Member Label	Direction	Magnitude[lb.lb-ft]	Location[in,%]
1	MP2	X	-5.602	38
2	MP2	X	-5.602	71
3	MP1	X	-4.471	6
4	MP1	X	-4.471	52
5	MP4	X	-7.703	6
6	MP4	X	-7.703	54
7	MP3	X	-5.214	6
8	MP3	X	-5.214	102
9	MP1	X	-1.185	24
10	MP3	X	-4.956	24
11	MP3	X	-8.08	24

Member Distributed Loads (BLC 14 : Distr. Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft.F,psf]	End Magnitude[lb/ft.F,psf]	Start Location[in,...	End Location[in,%]
1	HP1	SZ	-55.598	-55.598	0	%100
2	M2	SZ	-55.598	-55.598	0	%100
3	M3	SZ	0	0	0	%100
4	M4	SZ	0	0	0	%100
5	M5	SZ	-55.598	-55.598	0	%100
6	M6	SZ	-55.598	-55.598	0	%100
7	M7	SZ	-55.598	-55.598	0	%100
8	M8	SZ	-55.598	-55.598	0	%100
9	M9	SZ	0	0	0	%100
10	M10	SZ	-92.663	-92.663	0	%100
11	M11	SZ	-92.663	-92.663	0	%100
12	M12	SZ	0	0	0	%100
13	M13	SZ	-55.598	-55.598	0	%100
14	M14	SZ	-55.598	-55.598	0	%100
15	M15	SZ	0	0	0	%100
16	M16	SZ	0	0	0	%100
17	M17	SZ	0	0	0	%100
18	M18	SZ	0	0	0	%100
19	M19	SZ	0	0	0	%100
20	M20	SZ	0	0	0	%100
21	MP4	SZ	-55.598	-55.598	0	%100
22	MP2	SZ	-55.598	-55.598	0	%100
23	MP1	SZ	-55.598	-55.598	0	%100
24	M24	SZ	0	0	0	%100
25	M25	SZ	0	0	0	%100
26	MP3	SZ	-55.598	-55.598	0	%100

Member Distributed Loads (BLC 15 : Distr. Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft.F,psf]	End Magnitude[lb/ft.F,psf]	Start Location[in,...	End Location[in,%]
1	HP1	SX	-55.598	-55.598	0	%100
2	M2	SX	-55.598	-55.598	0	%100
3	M3	SX	0	0	0	%100
4	M4	SX	0	0	0	%100
5	M5	SX	-55.598	-55.598	0	%100
6	M6	SX	-55.598	-55.598	0	%100
7	M7	SX	-55.598	-55.598	0	%100
8	M8	SX	-55.598	-55.598	0	%100
9	M9	SX	0	0	0	%100
10	M10	SX	-92.663	-92.663	0	%100
11	M11	SX	-92.663	-92.663	0	%100
12	M12	SX	0	0	0	%100



Member Distributed Loads (BLC 15 : Distr. Wind Load X) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F,psf]	End Magnitude[lb/ft.F,psf]	Start Location[in,ft]	End Location[in,ft]
13	M13	SX	-55.598	-55.598	0	%100
14	M14	SX	-55.598	-55.598	0	%100
15	M15	SX	0	0	0	%100
16	M16	SX	0	0	0	%100
17	M17	SX	0	0	0	%100
18	M18	SX	0	0	0	%100
19	M19	SX	0	0	0	%100
20	M20	SX	0	0	0	%100
21	MP4	SX	-55.598	-55.598	0	%100
22	MP2	SX	-55.598	-55.598	0	%100
23	MP1	SX	-55.598	-55.598	0	%100
24	M24	SX	0	0	0	%100
25	M25	SX	0	0	0	%100
26	MP3	SX	-55.598	-55.598	0	%100

Member Distributed Loads (BLC 16 : Ice Weight)

	Member Label	Direction	Start Magnitude[lb/ft.F,psf]	End Magnitude[lb/ft.F,psf]	Start Location[in,ft]	End Location[in,ft]
1	HP1	Y	-5.021	-5.021	0	%100
2	M2	Y	-5.021	-5.021	0	%100
3	M3	Y	-1.649	-1.649	0	%100
4	M4	Y	-1.649	-1.649	0	%100
5	M5	Y	-6.618	-6.618	0	%100
6	M6	Y	-5.731	-5.731	0	%100
7	M7	Y	-5.731	-5.731	0	%100
8	M8	Y	-5.731	-5.731	0	%100
9	M9	Y	-1.649	-1.649	0	%100
10	M10	Y	-6.668	-6.668	0	%100
11	M11	Y	-6.668	-6.668	0	%100
12	M12	Y	-1.649	-1.649	0	%100
13	M13	Y	-5.021	-5.021	0	%100
14	M14	Y	-5.021	-5.021	0	%100
15	M15	Y	-1.649	-1.649	0	%100
16	M16	Y	-1.649	-1.649	0	%100
17	M17	Y	-1.649	-1.649	0	%100
18	M18	Y	-1.649	-1.649	0	%100
19	M19	Y	-1.649	-1.649	0	%100
20	M20	Y	-1.649	-1.649	0	%100
21	MP4	Y	-5.021	-5.021	0	%100
22	MP2	Y	-5.021	-5.021	0	%100
23	MP1	Y	-5.021	-5.021	0	%100
24	M24	Y	-1.649	-1.649	0	%100
25	M25	Y	-1.649	-1.649	0	%100
26	MP3	Y	-5.021	-5.021	0	%100

Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z)

	Member Label	Direction	Start Magnitude[lb/ft.F,psf]	End Magnitude[lb/ft.F,psf]	Start Location[in,ft]	End Location[in,ft]
1	HP1	SZ	-19.75	-19.75	0	%100
2	M2	SZ	-19.75	-19.75	0	%100
3	M3	SZ	0	0	0	%100
4	M4	SZ	0	0	0	%100
5	M5	SZ	-16.61	-16.61	0	%100
6	M6	SZ	-18.051	-18.051	0	%100
7	M7	SZ	-18.051	-18.051	0	%100
8	M8	SZ	-18.051	-18.051	0	%100
9	M9	SZ	0	0	0	%100
10	M10	SZ	-16.544	-16.544	0	%100



Member Distributed Loads (BLC 29 : Distr. Ice Wind Load Z) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/ft.F.psf]	Start Location[in....]	End Location[in.%]
11	M11	SZ	-16.544	-16.544	0	%100
12	M12	SZ	0	0	0	%100
13	M13	SZ	-19.75	-19.75	0	%100
14	M14	SZ	-19.75	-19.75	0	%100
15	M15	SZ	0	0	0	%100
16	M16	SZ	0	0	0	%100
17	M17	SZ	0	0	0	%100
18	M18	SZ	0	0	0	%100
19	M19	SZ	0	0	0	%100
20	M20	SZ	0	0	0	%100
21	MP4	SZ	-19.75	-19.75	0	%100
22	MP2	SZ	-19.75	-19.75	0	%100
23	MP1	SZ	-19.75	-19.75	0	%100
24	M24	SZ	0	0	0	%100
25	M25	SZ	0	0	0	%100
26	MP3	SZ	-19.75	-19.75	0	%100

Member Distributed Loads (BLC 30 : Distr. Ice Wind Load X)

	Member Label	Direction	Start Magnitude[lb/ft.F.psf]	End Magnitude[lb/ft.F.psf]	Start Location[in....]	End Location[in.%]
1	HP1	SX	-19.75	-19.75	0	%100
2	M2	SX	-19.75	-19.75	0	%100
3	M3	SX	0	0	0	%100
4	M4	SX	0	0	0	%100
5	M5	SX	-16.61	-16.61	0	%100
6	M6	SX	-18.051	-18.051	0	%100
7	M7	SX	-18.051	-18.051	0	%100
8	M8	SX	-18.051	-18.051	0	%100
9	M9	SX	0	0	0	%100
10	M10	SX	-16.544	-16.544	0	%100
11	M11	SX	-16.544	-16.544	0	%100
12	M12	SX	0	0	0	%100
13	M13	SX	-19.75	-19.75	0	%100
14	M14	SX	-19.75	-19.75	0	%100
15	M15	SX	0	0	0	%100
16	M16	SX	0	0	0	%100
17	M17	SX	0	0	0	%100
18	M18	SX	0	0	0	%100
19	M19	SX	0	0	0	%100
20	M20	SX	0	0	0	%100
21	MP4	SX	-19.75	-19.75	0	%100
22	MP2	SX	-19.75	-19.75	0	%100
23	MP1	SX	-19.75	-19.75	0	%100
24	M24	SX	0	0	0	%100
25	M25	SX	0	0	0	%100
26	MP3	SX	-19.75	-19.75	0	%100

Exhibit F

Power Density/RF Emissions Report

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

T-Mobile Existing Facility

Site ID: CT11810A

SpectraSite - Ansonia
401 Wakelee Avenue
Ansonia, Connecticut 06401

August 18, 2020

EBI Project Number: 6220004029

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	24.35%

August 18, 2020

T-Mobile

Attn: Jason Overbey, RF Manager
35 Griffin Road South
Bloomfield, Connecticut 06002

Emissions Analysis for Site: CT11810A - SpectraSite - Ansonia

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **401 Wakelee Avenue in Ansonia, Connecticut** 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 population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

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 limits for the 600 MHz and 700 MHz frequency bands are approximately $400 \mu\text{W}/\text{cm}^2$ and $467 \mu\text{W}/\text{cm}^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency 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 401 Wakelee Avenue in Ansonia, Connecticut 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 manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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 LTE channels (600 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 2) 1 NR channel (600 MHz Band) was considered for each sector of the proposed installation. This Channel has a transmit power of 80 Watts.
- 3) 2 LTE channels (700 MHz Band) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 4) 4 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.
- 5) 4 LTE channels (PCS Band - 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.

- 6) 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.
- 7) 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.
- 8) 2 LTE channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 9) 2 NR channels (BRS Band - 2500 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 10) 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.
- 11) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, 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.
- 12) The antennas used in this modeling are the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s) in Sector A, the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s) in Sector B, the Ericsson AIR 21 for the 1900 MHz / 2100 MHz channel(s), the Ericsson AIR 6449 for the 2500 MHz / 2500 MHz channel(s), the RFS APXVAARR24_43-U-NA20 for the 600 MHz / 600 MHz / 700 MHz / 1900 MHz channel(s), the Ericsson AIR 32 for the 1900 MHz / 2100 MHz channel(s) in Sector C. This is based on feedback from the carrier with regard to anticipated antenna selection. All Antenna gain values and associated transmit power levels are shown in the Site Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufacturer's supplied specifications, minus 10 dB for directional

panel antennas and 20 dB for highly focused parabolic microwave dishes, 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.

- 13) The antenna mounting height centerline of the proposed antennas is 148 feet above ground level (AGL).
- 14) 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.
- 15) All calculations were done with respect to uncontrolled / general population threshold limits.

T-Mobile Site Inventory and Power Data

Sector:	A	Sector:	B	Sector:	C
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21	Make / Model:	Ericsson AIR 21
Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd	Gain:	15.35 dBd / 15.35 dBd
Height (AGL):	148 feet	Height (AGL):	148 feet	Height (AGL):	148 feet
Channel Count:	6	Channel Count:	6	Channel Count:	6
Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts	Total TX Power (W):	180 Watts
ERP (W):	6,169.82	ERP (W):	6,169.82	ERP (W):	6,169.82
Antenna A1 MPE %:	1.01%	Antenna B1 MPE %:	1.01%	Antenna C1 MPE %:	1.01%
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449	Make / Model:	Ericsson AIR 6449
Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz	Frequency Bands:	2500 MHz / 2500 MHz
Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd	Gain:	22.05 dBd / 22.05 dBd
Height (AGL):	148 feet	Height (AGL):	148 feet	Height (AGL):	148 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts	Total TX Power (W):	160 Watts
ERP (W):	25,651.93	ERP (W):	25,651.93	ERP (W):	25,651.93
Antenna A2 MPE %:	4.21%	Antenna B2 MPE %:	4.21%	Antenna C2 MPE %:	4.21%
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20	Make / Model:	RFS APXVAARR24_43-U-NA20
Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz	Frequency Bands:	600 MHz / 600 MHz / 700 MHz / 1900 MHz
Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd	Gain:	12.95 dBd / 12.95 dBd / 13.35 dBd / 15.65 dBd
Height (AGL):	148 feet	Height (AGL):	148 feet	Height (AGL):	148 feet
Channel Count:	7	Channel Count:	7	Channel Count:	7
Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts	Total TX Power (W):	320 Watts
ERP (W):	8,466.41	ERP (W):	8,466.41	ERP (W):	8,466.41
Antenna A3 MPE %:	2.31%	Antenna B3 MPE %:	2.31%	Antenna C3 MPE %:	2.31%
Antenna #:	4	Antenna #:	4	Antenna #:	4
Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32	Make / Model:	Ericsson AIR 32
Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz	Frequency Bands:	1900 MHz / 2100 MHz
Gain:	15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.85 dBd	Gain:	15.35 dBd / 15.85 dBd
Height (AGL):	148 feet	Height (AGL):	148 feet	Height (AGL):	148 feet
Channel Count:	4	Channel Count:	4	Channel Count:	4
Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts	Total TX Power (W):	240 Watts
ERP (W):	8,728.31	ERP (W):	8,728.31	ERP (W):	8,728.31
Antenna A4 MPE %:	1.43%	Antenna B4 MPE %:	1.43%	Antenna C4 MPE %:	1.43%

Site Composite MPE %	
Carrier	MPE %
T-Mobile (Max at Sector A):	8.97%
AT&T	4.51%
Metro PCS	0.3%
Clearwire	0.05%
Sprint	0.93%
Verizon	9.59%
Site Total MPE % :	24.35%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	8.97%
T-Mobile Sector B Total:	8.97%
T-Mobile Sector C Total:	8.97%
Site Total MPE % :	24.35%

T-Mobile Maximum MPE Power Values (Sector A)

T-Mobile Frequency Band / Technology (Sector A)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
T-Mobile 1900 MHz GSM	4	1028.30	148.0	6.75	1900 MHz GSM	1000	0.68%
T-Mobile 2100 MHz UMTS	2	1028.30	148.0	3.38	2100 MHz UMTS	1000	0.34%
T-Mobile 2500 MHz LTE	2	6412.98	148.0	21.05	2500 MHz LTE	1000	2.11%
T-Mobile 2500 MHz NR	2	6412.98	148.0	21.05	2500 MHz NR	1000	2.11%
T-Mobile 600 MHz LTE	2	591.73	148.0	1.94	600 MHz LTE	400	0.49%
T-Mobile 600 MHz NR	1	1577.94	148.0	2.59	600 MHz NR	400	0.65%
T-Mobile 700 MHz LTE	2	648.82	148.0	2.13	700 MHz LTE	467	0.46%
T-Mobile 1900 MHz LTE	2	2203.69	148.0	7.23	1900 MHz LTE	1000	0.72%
T-Mobile 1900 MHz LTE	2	2056.61	148.0	6.75	1900 MHz LTE	1000	0.68%
T-Mobile 2100 MHz LTE	2	2307.55	148.0	7.57	2100 MHz LTE	1000	0.76%
Total:							8.97%

• NOTE: Totals may vary by approximately 0.01% due to summation of remainders in calculations.

Summary

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

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

T-Mobile Sector	Power Density Value (%)
Sector A:	8.97%
Sector B:	8.97%
Sector C:	8.97%
T-Mobile Maximum MPE % (Sector A):	8.97%
Site Total:	24.35%
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **24.35%** of the allowable FCC established general population 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.

Exhibit G

Mailing Receipts/Proof of Notice

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- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
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 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

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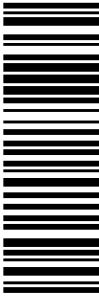
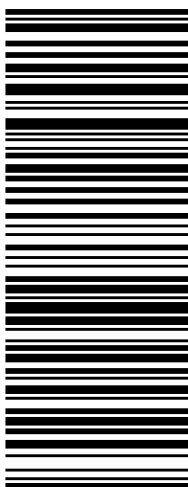

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UPS Access Point™
CVS STORE # 7232
689 DEPOT ST
NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

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<p style="text-align: right;">1 OF 1</p> <p>1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: PATRICK MASSEY, PM, SITE DEVT. AMERICAN TOWER CORP 10 PRESIDENTIAL WAY WOBURN MA 01801-1053</p>	<p style="font-size: 2em;">MA 018 9-04</p> 	<p style="font-size: 1.5em;">UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0228 9280</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: CT11810A - CSC to ATC</p> <p style="font-size: 0.8em;">CS 22.0.12. WNTNV50 31.0A 07/2020*</p> 
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Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Thursday, September 10, 2020 10:33 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030302289280



Hello, your package has been delivered.

Delivery Date: Thursday, 09/10/2020

Delivery Time: 10:31 AM

Left At: FRONT DESK

Signed by: ANCRI

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030302289280](#)

Ship To: AMERICAN TOWER CORP
10 PRESIDENTIAL WAY
WOBURN, MA 018011053
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11810A - CSC TO ATC



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- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

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

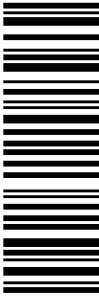

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450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

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<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: HON. DAVID S. CASSETTI, MAYOR CITY OF ANSONIA 253 MAIN STREET ANSONIA CT 06401-1806</p>	<p>CT 064 7-02</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 1 167 2311</p> 	<p style="text-align: center;">BILLING: P/P</p> <p style="text-align: center;">Reference # 1: CT11810A - CSC to City</p> <p style="text-align: center; font-size: small;">CS 22.0.12. WNTNV50 31.0A 07/2020*</p>
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Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Thursday, September 10, 2020 10:03 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030311672311



Hello, your package has been delivered.

Delivery Date: Thursday, 09/10/2020

Delivery Time: 10:01 AM

Left At: FRONT DESK

Signed by: CASSETTI

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030311672311](#)

Ship To: CITY OF ANSONIA
253 MAIN STREET
ANSONIA, CT 064011806
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11810A - CSC TO CITY



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UPS CampusShip: View/Print Label

- 1. Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.
- 2. Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.
- 3. GETTING YOUR SHIPMENT TO UPS**
Customers with a Daily Pickup
 Your driver will pickup your shipment(s) as usual.

Customers without a Daily Pickup

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

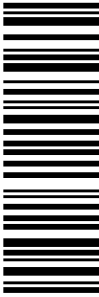
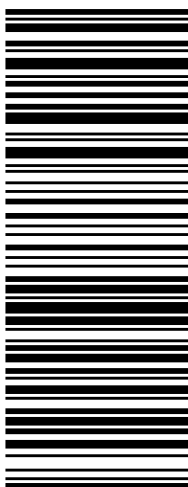

Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages. Hand the package to any UPS driver in your area.

UPS Access Point™
CVS STORE # 972
555 WASHINGTON ST
SOUTH EASTON ,MA 02375

UPS Access Point™
CVS STORE # 7232
689 DEPOT ST
NORTH EASTON ,MA 02356

UPS Access Point™
TOWN LINE GENERAL STORE
450 E CENTER ST
WEST BRIDGEWATER ,MA 02379

FOLD HERE

<p style="text-align: right;">1 OF 1</p> <p style="text-align: center;">1 LBS</p> <p>CENTERLINE COMMUNICATIONS 5082655599 CENTERLINE CORPORATE 95 RYAN DR. RAYNHAM MA 02767</p> <p>SHIP TO: DAVID BLACKWELL, SR. ZEO CITY OF ANSONIA 253 MAIN STREET ANSONIA CT 06401-1806</p>	<p>CT 064 7-02</p> 	<p>UPS GROUND</p> <p>TRACKING #: 1Z 9Y4 503 03 0980 9302</p> 	<p style="text-align: center;">BILLING: P/P</p> <p>Reference # 1: CT11810A - CSC to P&Z</p> <p style="font-size: small; text-align: right;">CS 22.0.12. WNTNV50 31.0A 07/2020*</p> 
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Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Thursday, September 10, 2020 10:03 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030309809302



Hello, your package has been delivered.

Delivery Date: Thursday, 09/10/2020

Delivery Time: 10:01 AM

Left At: FRONT DESK

Signed by: CASSETTI

CENTERLINE SITE ACQUISITION

Tracking Number: [1Z9Y45030309809302](#)

Ship To: CITY OF ANSONIA
253 MAIN STREET
ANSONIA, CT 064011806
US

Number of Packages: 1

UPS Service: UPS Ground

Package Weight: 0.2 LBS

Reference Number: CT11810A - CSC TO P&Z



[Download the UPS mobile app](#)

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