September 21, 2020

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

Regarding: **Notice of Exempt Modification – T-Mobile Site #: CT11477B_Anchor**
Address: **1140 Wolcott Road, Wolcott, CT**

Dear Ms. Bachman:

T-Mobile currently maintains nine (9) antennas at the 162-foot level of the existing 180-foot self-support tower at the above-referenced address, latitude 41.617600, longitude -72.974600. The tower is operated by American Tower Corporation.

T-Mobile now intends to modify its existing telecommunications facility including adding three (3) antennas, swapping three (3) antennas, adding three (3) remote radio units (RRU), adding (3) mounting piles and adding six (6) cables as more particularly detailed and described on the enclosed Construction Drawings prepared by ATC Tower Services, LLC, last revised September 4, 2020. The centerline height of the existing and proposed antennas is and will remain at 162 feet.

Planned Modifications:

Add:
- (3) AIR6449 B41 Antennae
- (3) Air32 B66AA/B2A Antennae
- (3) 4415 B25 RRU
- (3) 1-5/8" x 96" Mounting Pipes
- (6) 1-1/4" Hybrid Cables

Remove:
- (3) Air 21, 1.3M, B4A B2P Antennae
- (6) 1-5/8" Coax

Existing to Remain:
- (6) Antenna
- (3) RRU
- (3) TMA
- (1) 1-5/8" Hybrid Cable

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 Thomas G. Dunn, Mayor of the Town of Wolcott as chief elected official, Richard Mahoney, Jr., Chair of the Planning and Zoning Commission of the Town of Wolcott and Move In Partners-Wolcott LLC as underlying property owner. Please note, the original tower approval was requested from the Town of Wolcott, but to date, no records have been found or received. Should any additional documentation be provided, I will supplement my filing with same.

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 16, 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 – Property Card and GIS
Exhibit B – Construction Drawings
Exhibit C – Structural Analysis Report
Exhibit D – Mount Analysis
Exhibit E – Power Density/RF Emissions Report

cc:
American Tower Corporation, tower operator
The Honorable Thomas G. Dunn, Mayor, Town of Wolcott
Richard Mahoney, Jr, Chair, Planning and Zoning Commission, Town of Wolcott
Move In Partners-Wolcott LLC, underlying property owner.

Exhibit A

Property Card

1140 WOLCOTT RD

Location	1140 WOLCOTT RD	**Mblu**	112/ 5/ 65/ /
Acct#	L0326900	**Owner**	MOVE IN PARTNERS-WOLCOTT LLC
Assessment	$930,500	**Appraisal**	$1,329,280
PID	3698	**Building Count**	6

Current Value

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$846,780	$482,500	$1,329,280

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2016	$592,750	$337,750	$930,500

Owner of Record

Owner	MOVE IN PARTNERS-WOLCOTT LLC	**Sale Price**	$2,110,000
Co-Owner		**Certificate**	
Address	10 BENTZEL MILL RD YORK , PA 17404	**Book & Page**	0508/0724
		Sale Date	03/11/2019
		Instrument	25

Ownership History

Ownership History					
Owner	**Sale Price**	**Certificate**	**Book & Page**	**Instrument**	**Sale Date**
MOVE IN PARTNERS-WOLCOTT LLC	$2,110,000		0508/0724	25	03/11/2019
LEVESQUE ROGER &	$0		0492/0703	02	03/29/2017
LEVESQUE ROGER	$0		0147/0052	25	01/25/1985

Building Information

Building 1 : Section 1

Year Built:	1960
Living Area:	7,988
Replacement Cost:	$261,048

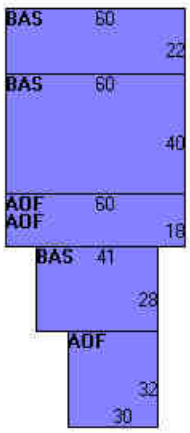
Building Percent Good: 65
Replacement Cost
Less Depreciation: $169,680

Building Attributes	
Field	**Description**
STYLE	Warehouse
MODEL	Comm/Ind
Grade	C
Stories:	1
Occupancy	23.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	Panel
Interior Floor 1	Concrete
Interior Floor 2	Carpet
Heating Fuel	Oil
Heating Type	Space
AC %	70
Foundation	Poured Conc
Bldg Use	Industrial
Total Rooms	0
Total Bedrms	0
Total Fixtures	0
Perimeter	336
SF Fin Bsmt	0
1st Floor Use:	
Heat/AC	HEAT/AC PKGS
Frame Type	STEEL
Baths/Plumbing	AVERAGE
Ceiling/Wall	NONE
Rooms/Prtns	AVERAGE
Wall Height	12.00
% Comn Wall	

Building Photo

(http://images.vgsi.com/photos/WolcottCTPhotos//\00\01\13\44.jpg)

Building Layout



(http://images.vgsi.com/photos/WolcottCTPhotos//Sketches/3698_3698.jpg

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	4,868	4,868
AOF	Office	3,120	3,120
		7,988	7,988

Building 2 : Section 1

Year Built: 1999
Living Area: 8,250
Replacement Cost: $175,395
Building Percent Good: 89

Replacement Cost
Less Depreciation: $156,100

Building Attributes : Bldg 2 of 6	
Field	**Description**
STYLE	Mini-Storage
MODEL	Comm/Ind
Grade	C
Stories:	1
Occupancy	54.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC %	0
Foundation	Poured Conc
Bldg Use	Industrial
Total Rooms	0
Total Bedrms	0
Total Fixtures	0
Perimeter	610
SF Fin Bsmt	0
1st Floor Use:	
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	

Building Photo

(http://images.vgsi.com/photos/WolcottCTPhotos//default.jpg)

Building Layout

(http://images.vgsi.com/photos/WolcottCTPhotos//Sketches/3698_20089.jp

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	8,250	8,250
		8,250	8,250

Building 3 : Section 1

Year Built: 1996
Living Area: 8,250
Replacement Cost: $175,395
Building Percent Good: 87
Replacement Cost
Less Depreciation: $152,590

Building Attributes : Bldg 3 of 6	
Field	**Description**
STYLE	Mini-Storage
MODEL	Comm/Ind
Grade	C
Stories:	1
Occupancy	65.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC %	0
Foundation	Poured Conc
Bldg Use	Industrial
Total Rooms	0
Total Bedrms	0
Total Fixtures	0
Perimeter	610
SF Fin Bsmt	0
1st Floor Use:	
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	

Building Photo

(http://images.vgsi.com/photos/WolcottCTPhotos//default.jpg)

Building Layout

(http://images.vgsi.com/photos/WolcottCTPhotos//Sketches/3698_20090.jp

Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	8,250	8,250
		8,250	8,250

Building 4 : Section 1

Year Built: 1990
Living Area: 8,250
Replacement Cost: $175,395
Building Percent Good: 85
Replacement Cost Less Depreciation: $149,090

Building Attributes : Bldg 4 of 6

Field	Description
STYLE	Mini-Storage
MODEL	Comm/Ind
Grade	C
Stories:	1
Occupancy	60.00
Exterior Wall 1	Pre-finish Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC %	0
Foundation	Poured Conc
Bldg Use	Industrial
Total Rooms	0
Total Bedrms	0
Total Fixtures	0
Perimeter	610
SF Fin Bsmt	0
1st Floor Use:	
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	

Building Photo

(http://images.vgsi.com/photos/WolcottCTPhotos//default.jpg)

Building Layout

(http://images.vgsi.com/photos/WolcottCTPhotos//Sketches/3698_20091.jp

Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	8,250	8,250
		8,250	8,250

Building 5 : Section 1

Year Built: 1989
Living Area: 6,100
Replacement Cost: $136,396
Building Percent Good: 85
Replacement Cost Less Depreciation: $115,940

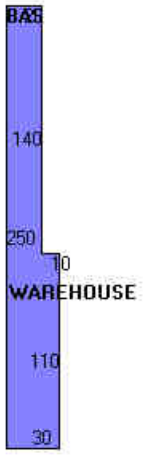
Building Attributes : Bldg 5 of 6	
Field	Description

STYLE	Mini-Storage
MODEL	Comm/Ind
Grade	C
Stories:	1
Occupancy	50.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Flat
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC %	0
Foundation	Poured Conc
Bldg Use	Industrial
Total Rooms	0
Total Bedrms	0
Total Fixtures	0
Perimeter	560
SF Fin Bsmt	0
1st Floor Use:	
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	

Building Photo

(http://images.vgsi.com/photos/WolcottCTPhotos//default.jpg)

Building Layout



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Building Sub-Areas (sq ft)			Legend
Code	**Description**	**Gross Area**	**Living Area**
BAS	First Floor	6,100	6,100
		6,100	6,100

Building 6 : Section 1

Year Built: 2000
Living Area: 2,500
Replacement Cost: $71,125
Building Percent Good: 89
Replacement Cost Less Depreciation: $63,300

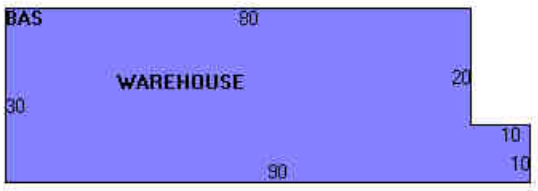
Building Attributes : Bldg 6 of 6	
Field	**Description**
STYLE	Mini-Storage

MODEL	Comm/Ind
Grade	C
Stories:	1
Occupancy	8.00
Exterior Wall 1	Pre-finsh Metl
Exterior Wall 2	
Roof Structure	Gable
Roof Cover	Metal
Interior Wall 1	Minimum
Interior Wall 2	
Interior Floor 1	Concrete
Interior Floor 2	
Heating Fuel	None
Heating Type	None
AC %	0
Foundation	Poured Conc
Bldg Use	Industrial
Total Rooms	0
Total Bedrms	0
Total Fixtures	0
Perimeter	240
SF Fin Bsmt	0
1st Floor Use:	
Heat/AC	NONE
Frame Type	STEEL
Baths/Plumbing	NONE
Ceiling/Wall	NONE
Rooms/Prtns	AVERAGE
Wall Height	8.00
% Comn Wall	

Building Photo

(http://images.vgsi.com/photos/WolcottCTPhotos//default.jpg)

Building Layout



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Building Sub-Areas (sq ft)			Legend
Code	Description	Gross Area	Living Area
BAS	First Floor	2,500	2,500
		2,500	2,500

Extra Features

Extra Features	Legend
No Data for Extra Features	

Land

Land Use

Use Code 301

Land Line Valuation

Size (Acres) 3.86

Description	Industrial	**Frontage**	
Zone	GC	**Depth**	
Neighborhood	C100	**Assessed Value**	$337,750
Alt Land Appr	No	**Appraised Value**	$482,500
Category			

Outbuildings

Outbuildings						Legend
Code	**Description**	**Sub Code**	**Sub Description**	**Size**	**Value**	**Bldg #**
FN3	FENCE-6' CHAIN			1800.00 L.F.	$9,450	1
PAV1	Paving	AS	Asphalt	50000.00 S.F.	$30,630	1

Valuation History

Appraisal			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$846,780	$482,500	$1,329,280
2018	$846,780	$482,500	$1,329,280
2017	$846,780	$482,500	$1,329,280

Assessment			
Valuation Year	**Improvements**	**Land**	**Total**
2019	$592,750	$337,750	$930,500
2018	$592,750	$337,750	$930,500
2017	$592,750	$337,750	$930,500

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Town of Wolcott

9/16/2020, 5:23:28 PM

Parcels

Buildings

Other Impervious

1:2,257

0 0.01 0.03 0.05 mi

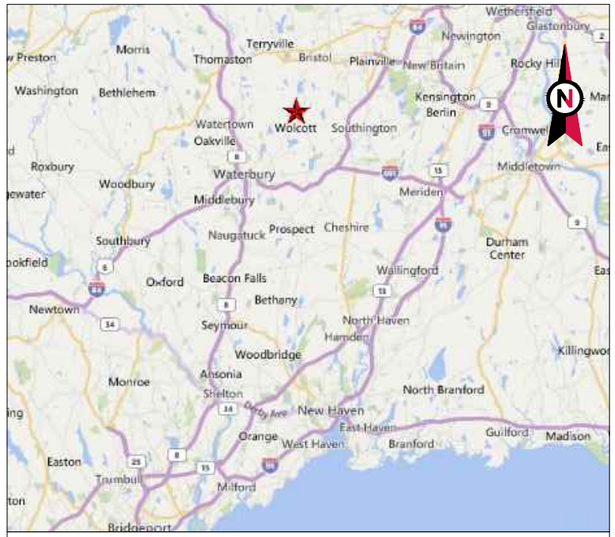
0 0.02 0.04 0.09 km

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan,

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

Exhibit B

Construction Drawings



VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: LEVESQUE CT
ATC SITE NUMBER: 275375
T-MOBILE SITE NAME: CT477/GENERAL COMM. SST
T-MOBILE SITE NUMBER:CT11477B
SITE ADDRESS: 1140 WOLCOTT ROAD
WOLCOTT, CT 06716

T-MOBILE ANCHOR ANTENNA AMENDMENT PLAN
67D5A992DB OUTDOOR CONFIGURATION

LOCATION MAP

COMPLIANCE CODE

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

UTILITY COMPANIES

POWER COMPANY: CL&P
PHONE: (800) 286-2000

TELEPHONE COMPANY: FRONTIER COMMUNICATIONS
PHONE: (800) 921-8102

811
Know what's **below.**
Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

1140 WOLCOTT ROAD

WOLCOTT, CT 06716

COUNTY: NEW HAVEN

GEOGRAPHIC COORDINATES:

LATITUDE: 41.61755

LONGITUDE: -72.97459167

GROUND ELEVATION: 1007' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

ENGINEER:

ATC TOWER SERVICES, LLC
3500 REGENCY PKWY STE 100
CARY, NC 27518

PROPERTY OWNER:

ROGER LEVESQUE AND
RAYMOND FREEMAN

APPLICANT:

T-MOBILE

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

TOWER:
REMOVE (3) ANTENNA(s) AND (6) 1-5/8" COAX CABLE(s)

INSTALL (6) ANTENNA(s), (3) RRH(s), (3) 1-5/8" x 96" LONG MOUNTING PIPES, AND (6) 1-1/4" HYBRID CABLE(s)

EXISTING (6) ANTENNA(s), (3) RRH(s), (3) TTA(s), AND (1) 1-5/8" HYBRID CABLE(s) TO REMAIN

GROUND:
INSTALL (1) 6160 ENCLOSURE & (1) B160 BATTERY CABINET

PROJECT NOTES

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.

PROJECT LOCATION DIRECTIONS

FROM CT-15 OR I-91 TAKE CT-691MERGE ONTO I-691 W VIA EXIT 68W TOWARD MERIDEN/ WATERBURY. TAKE THE CT-10 EXIT, EXIT 3, TOWARD MILLDALE / CHESHIRE. TURN RIGHT ONTO HIGHLAND AVE/CT-10. CONTINUE TO FOLLOW CT-10.STAY STRAIGHT TO GO ONTO OLD TURNPIKE RD TAKE THE 1ST LEFT ONTO MERIDEN WATERBURY TURNPIKE/CT-322. CONTINUE TO FOLLOW CT-322.TURN SHARP RIGHT ONTO EAST ST/CT-322. CONTINUE TO FOLLOW CT-322.TURN RIGHT ONTO WOLCOTT RD/CT-69.1140 WOLCOTT RD IS ON THE RIGHT.

SHEET INDEX

SHEET NO:	DESCRIPTION:	REV:	DATE:	BY:
G-001	TITLE SHEET	0	09/04/20	TC
G-002	GENERAL NOTES	0	09/04/20	TC
C-101	DETAILED SITE PLAN	0	09/04/20	TC
C-102	DETAILED GROUND PLAN	0	09/04/20	TC
C-201	TOWER ELEVATION	0	09/04/20	TC
C-401	ANTENNA INFORMATION & SCHEDULE	0	09/04/20	TC
C-501	CONSTRUCTION DETAILS	0	09/04/20	TC
E-501	GROUNDING DETAILS	0	09/04/20	TC
R-601	SUPPLEMENTAL			
R-602	SUPPLEMENTAL			
R-603	SUPPLEMENTAL			
R-604	SUPPLEMENTAL			

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	TC	09/04/20

ATC SITE NUMBER:
275375
ATC SITE NAME:
LEVESQUE CT
T-MOBILE SITE NAME:
CT477/GENERAL COMM. SST
SITE ADDRESS:
1140 WOLCOTT ROAD
WOLCOTT, CT 06716

SEAL:

T-Mobile

DATE DRAWN:	09/04/20
ATC JOB NO:	13251811_D1
CUSTOMER ID:	CT477/GENERAL COMM. SST
CUSTOMER #:	CT11477B

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

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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 ANSI/EIA/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 NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT 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 OD 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 AND PROVIDE PRINTOUT OF THAT TEST.
   - 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.

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COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TC	09/04/20

ATC SITE NUMBER:
275375
ATC SITE NAME:
LEVESQUE CT
T-MOBILE SITE NAME:
CT477/GENERAL COMM. SST
SITE ADDRESS:
1140 WOLCOTT ROAD
WOLCOTT, CT 06716

SEAL:

T-Mobile

DATE DRAWN:	09/04/20
ATC JOB NO:	13251811_D1
CUSTOMER ID:	CT477/GENERAL COMM. SST
CUSTOMER #:	CT11477B

GENERAL NOTES

SHEET NUMBER:	REVISION:
G-002	0

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SITE PLAN NOTES:

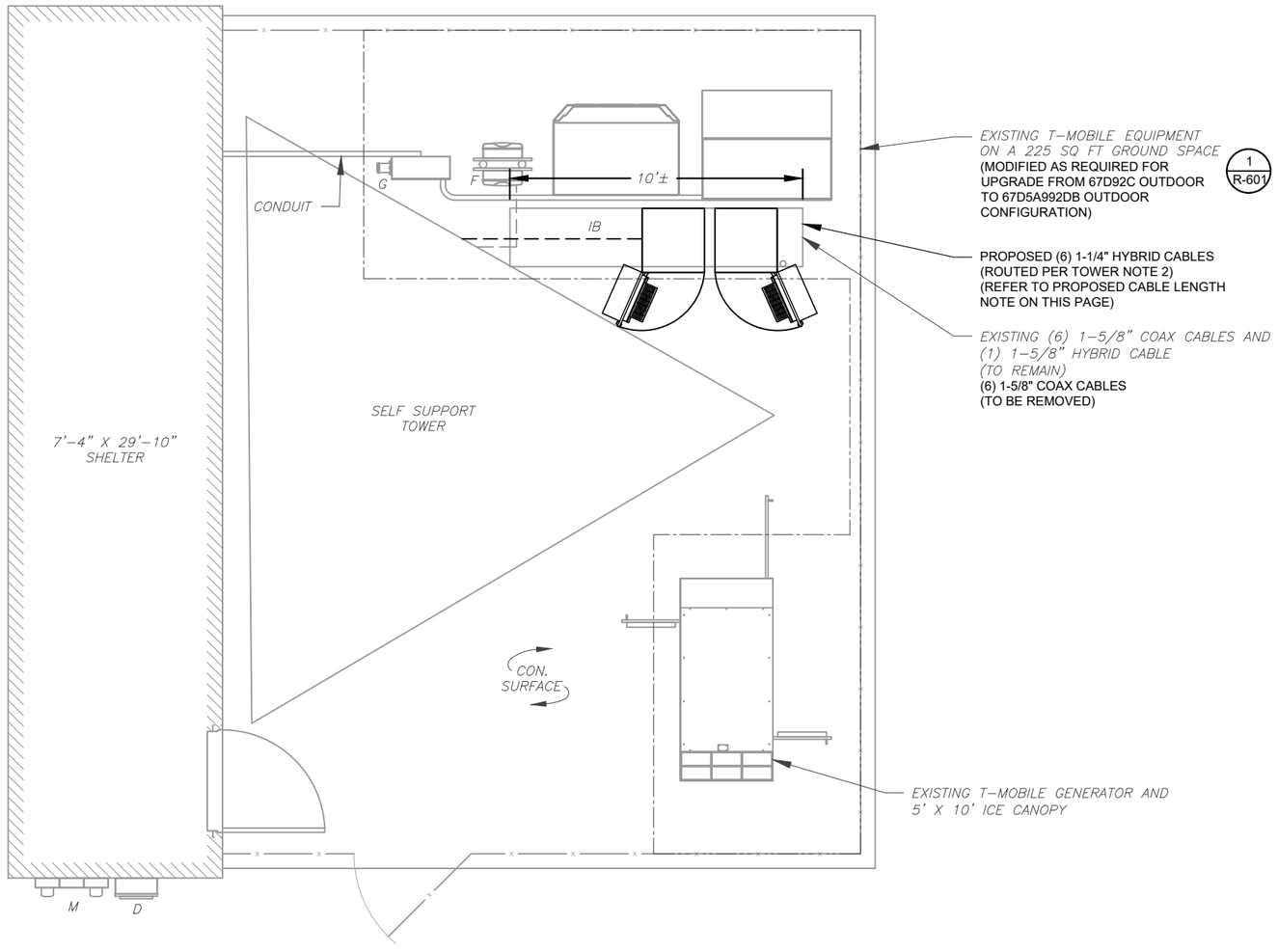
1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.

2. 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.

3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

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:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **198'**. 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.
2. 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).

1 DETAILED SITE PLAN

0 5' 10'

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

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0	FOR CONSTRUCTION	TC	09/04/20

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275375
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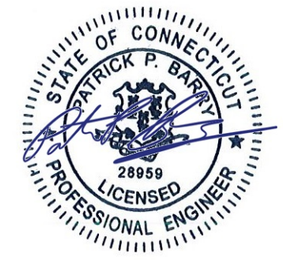
T-MOBILE SITE NAME:
CT477/GENERAL COMM. SST
SITE ADDRESS:
1140 WOLCOTT ROAD
WOLCOTT, CT 06716

SEAL:



T-Mobile

DATE DRAWN:	09/04/20
ATC JOB NO:	13251811_D1
CUSTOMER ID:	CT477/GENERAL COMM. SST
CUSTOMER #:	CT11477B

DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0

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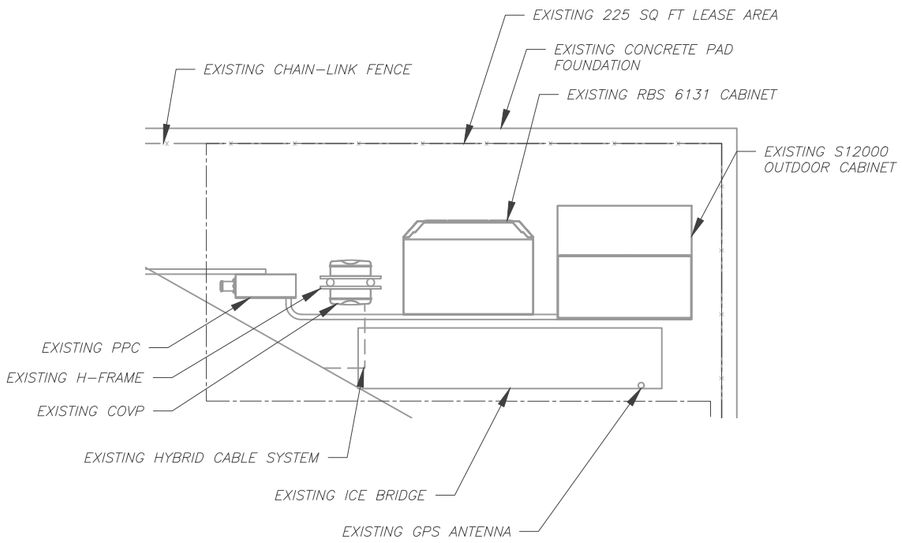
SITE PLAN NOTES:

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.

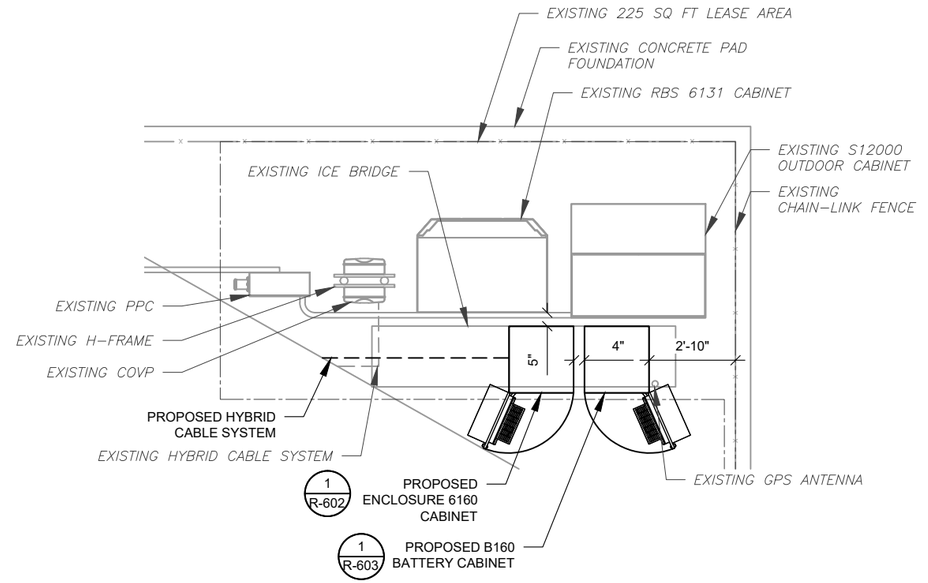


1 EXISTING GROUND EQUIPMENT LAYOUT

0 5' 10'

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

T-MOBILE CM APPROVAL REQUIRED BEFORE INSTALLING CABINETS



2 PROPOSED GROUND EQUIPMENT LAYOUT

0 5' 10'

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

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WOLCOTT, CT 06716

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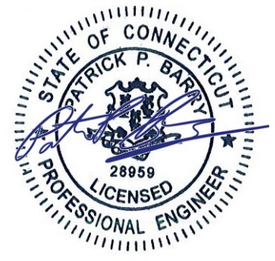

T-Mobile

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CUSTOMER #:	CT11477B

DETAILED GROUND PLAN

SHEET NUMBER:	REVISION:
C-102	0

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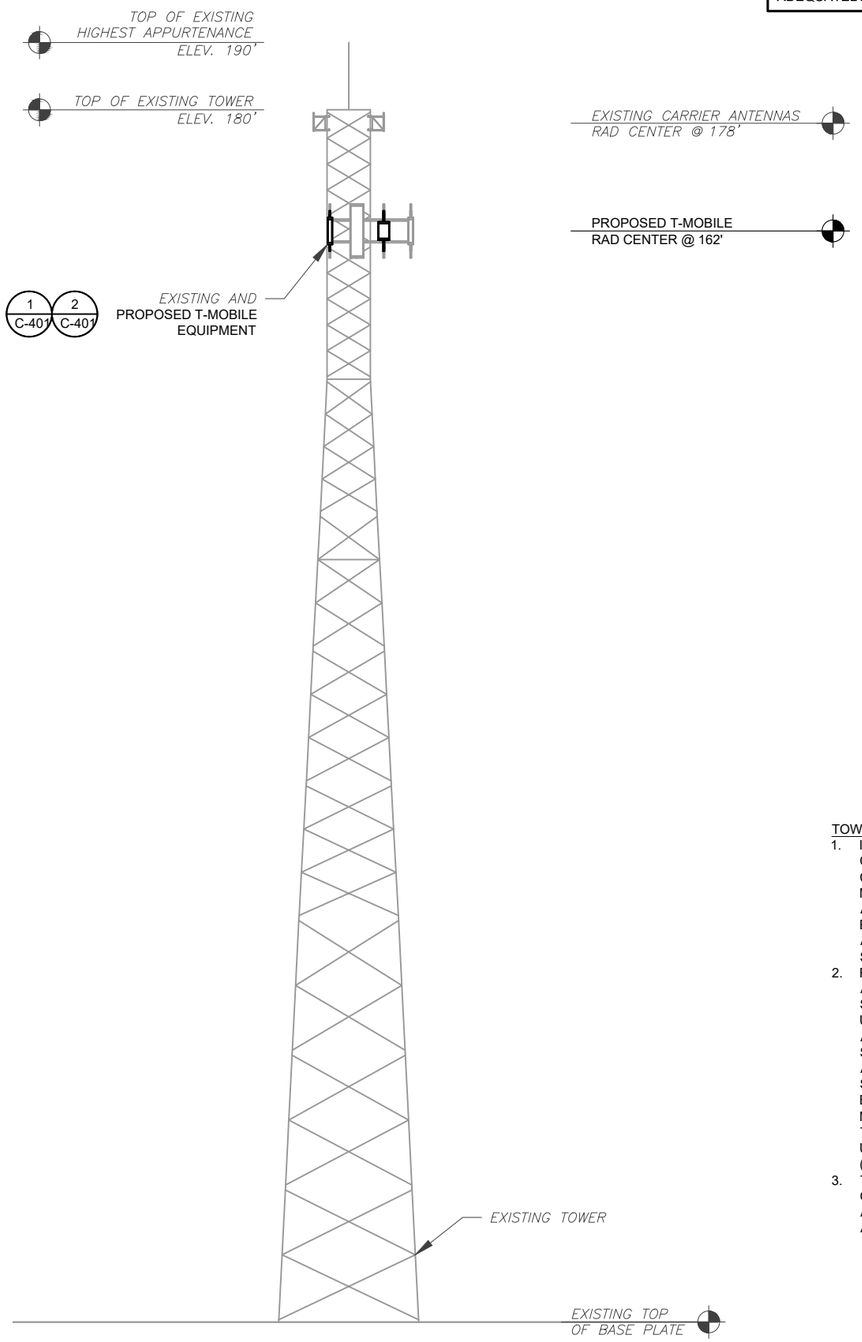
PER MOUNT ANALYSIS COMPLETED BY INFINIGY, DATED 07/09/2020, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



1 TOWER ELEVATION
SCALE: N.T.S.

TOWER NOTE:

1. 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.
2. 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).
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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CUSTOMER #:	CT11477B

TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0

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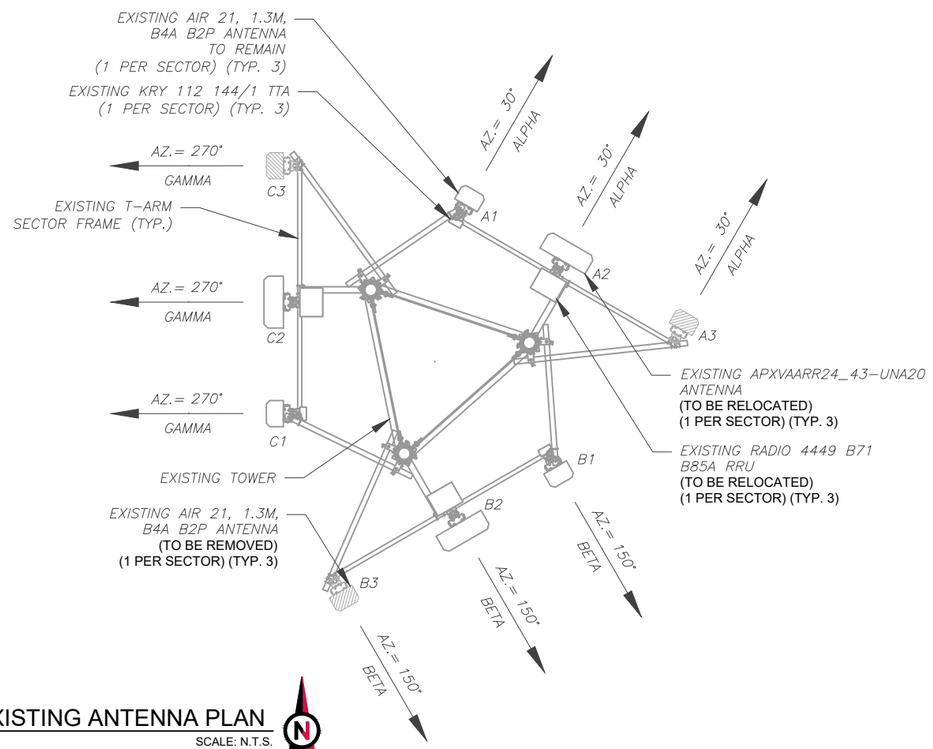
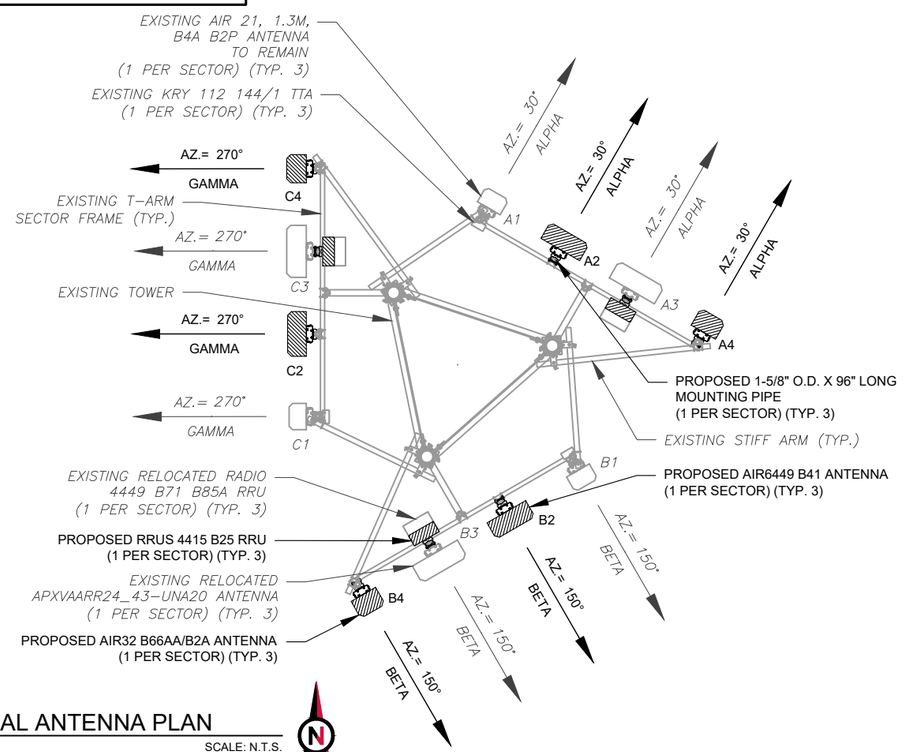


1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY INFINIGY, DATED 07/09/2020, THE EXISTING MOUNT CAN ADEQUATELY SUPPORT THE PROPOSED LOADING



2 FINAL ANTENNA PLAN

SCALE: N.T.S.

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	162'	30°	A1	AIR 21, 1.3M, B4A B2P	L1900/G1900 U1900	0° 4°	RMN	KRY 112 144/1	RMN
			A2	APXVAARR24_43-UNA20	L600/700/N600	0° 2°	RMN	RADIO 4449 B71 B85A	RMN
			A3	AIR 21, 1.3M, B4A B2P	L2100	0° 4°	RMV	–	–
BETA	162'	150°	B1	AIR 21, 1.3M, B4A B2P	L1900/G1900 U1900	0° 4°	RMN	KRY 112 144/1	RMN
			B2	APXVAARR24_43-UNA20	L600/700/N600	0° 2°	RMN	RADIO 4449 B71 B85A	RMN
			B3	AIR 21, 1.3M, B4A B2P	L2100	0° 4°	RMV	–	–
GAMMA	162'	270°	C1	AIR 21, 1.3M, B4A B2P	L1900/G1900 U1900	0° 4°	RMN	KRY 112 144/1	RMN
			C2	APXVAARR24_43-UNA20	L600/700/N600	0° 2°	RMN	RADIO 4449 B71 B85A	RMN
			C3	AIR 21, 1.3M, B4A B2P	L2100	0° 4°	RMV	–	–

NOTES

1. CONFIRM WITH T-MOBILE REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. 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	162'	30°	A1	AIR 21, 1.3M, B4A B2P	L1900/G1900 U1900	0° 4°	RMN	KRY 112 144/1	RMN
			A2	AIR6449 B41	L2500/N2500	0° 4°	ADD	-	-
			A3	APXVAARR24_43-UNA20	L600/700/1900 N600	0° 4°	RMN	RADIO 4449 B71 B85A RRUS 4415 B25	RMN ADD
			A4	AIR32 B66AA/B2A	L1900/2100	0° 4°	ADD	-	-
BETA	162'	150°	B1	AIR 21, 1.3M, B4A B2P	L1900/G1900 U1900	0° 4°	RMN	KRY 112 144/1	RMN
			B2	AIR6449 B41	L2500/N2500	0° 4°	ADD	-	-
			B3	APXVAARR24_43-UNA20	L600/700/1900 N600	0° 4°	RMN	RADIO 4449 B71 B85A RRUS 4415 B25	RMN ADD
			B4	AIR32 B66AA/B2A	L1900/2100	0° 4°	ADD	-	-
GAMMA	162'	270°	C1	AIR 21, 1.3M, B4A B2P	L1900/G1900 U1900	0° 4°	RMN	KRY 112 144/1	RMN
			C2	AIR6449 B41	L2500/N2500	0° 4°	ADD	-	-
			C3	APXVAARR24_43-UNA20	L600/700/1900 N600	0° 4°	RMN	RADIO 4449 B71 B85A RRUS 4415 B25	RMN ADD
			C4	AIR32 B66AA/B2A	L1900/2100	0° 4°	ADD	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX

MODEL NUMBER	STATUS
–	–
–	–

EXISTING CABLING SUMMARY

COAX	HYBRID	STATUS
(6) 1-5/8"	(1) 1-5/8"	RMN
(6) 1-5/8"	–	RMV

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX

MODEL NUMBER	STATUS
-	-
-	-

FINAL CABLING SUMMARY

COAX	HYBRID	STATUS
(6) 1-5/8"	(1) 1-5/8"	RMN
-	(6) 1-1/4"	ADD

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A.T. ENGINEERING SERVICE, PLLC
3500 REGENCY PARKWAY
SUITE 100
CARY, NC 27518
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COA: PEC.0001553

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TC	09/04/20

ATC SITE NUMBER:
275375
ATC SITE NAME:
LEVESQUE CT
T-MOBILE SITE NAME:
CT477/GENERAL COMM. SST
SITE ADDRESS:
1140 WOLCOTT ROAD
WOLCOTT, CT 06716

SEAL:

T-Mobile

DATE DRAWN:	09/04/20
ATC JOB NO:	13251811_D1
CUSTOMER ID:	CT477/GENERAL COMM. SST
CUSTOMER #:	CT11477B

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0

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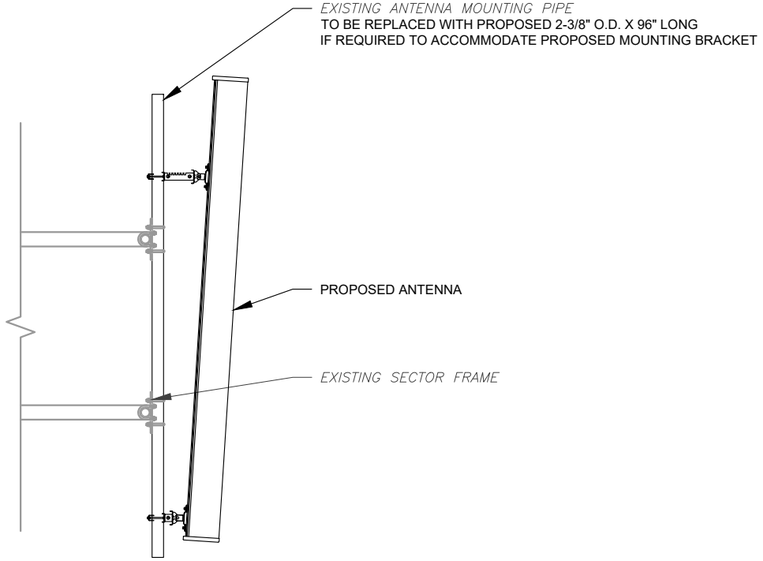
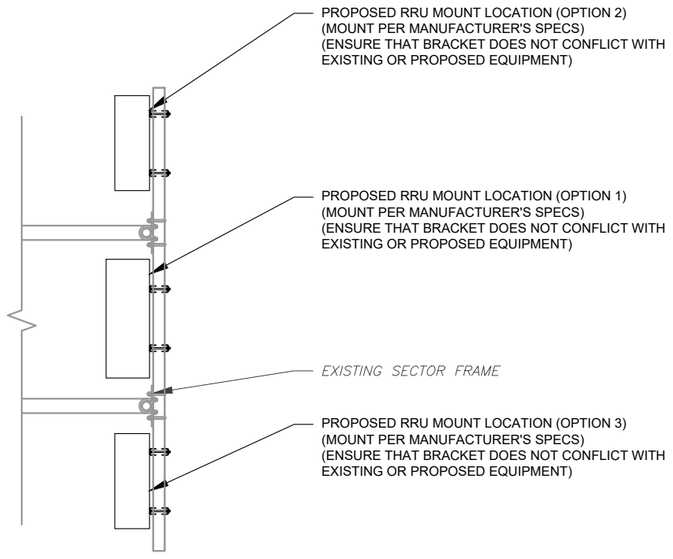


1 PROPOSED ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.



2 PROPOSED RRU MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TC	09/04/20

ATC SITE NUMBER:
275375

ATC SITE NAME:
LEVESQUE CT

T-MOBILE SITE NAME:
CT477/GENERAL COMM. SST

SITE ADDRESS:
1140 WOLCOTT ROAD
WOLCOTT, CT 06716

SEAL:

T-Mobile

DATE DRAWN:	09/04/20
ATC JOB NO:	13251811_D1
CUSTOMER ID:	CT477/GENERAL COMM. SST
CUSTOMER #:	CT11477B

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

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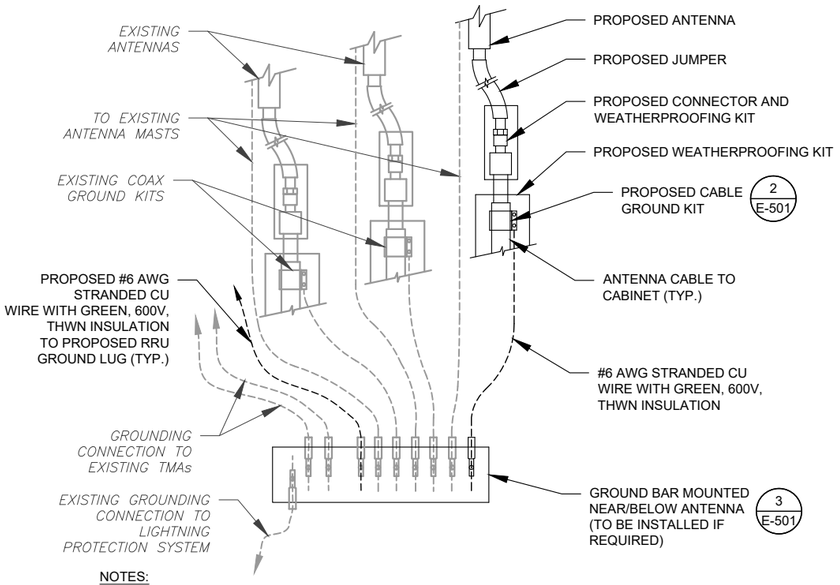
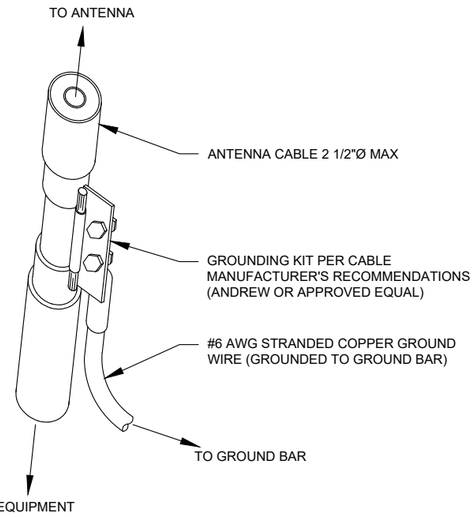


NOTES:

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.

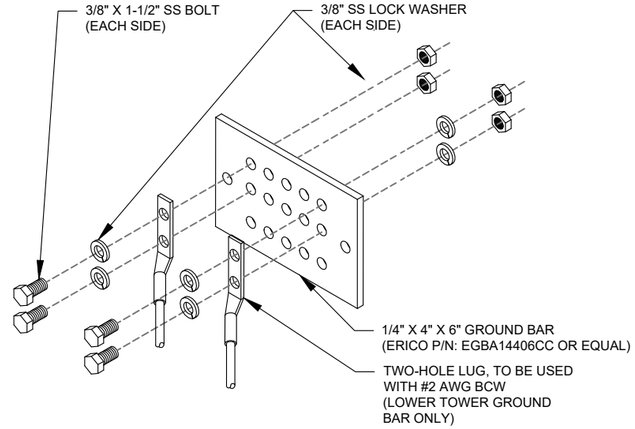


GROUND KIT NOTES:

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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REV.	DESCRIPTION	BY	DATE
0	FOR CONSTRUCTION	TC	09/04/20

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275375
ATC SITE NAME:
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T-MOBILE SITE NAME:
CT477/GENERAL COMM. SST
SITE ADDRESS:
1140 WOLCOTT ROAD
WOLCOTT, CT 06716

SEAL:

T-Mobile

DATE DRAWN:	09/04/20
ATC JOB NO:	13251811_D1
CUSTOMER ID:	CT477/GENERAL COMM. SST
CUSTOMER #:	CT11477B

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0

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Existing RAN Equipment		
Template: 67D92C Outdoor		
Enclosure	**1**	**2**
Enclosure Type	RBS 6131	S12000 Outdoor
Baseband	DUW30 (U2100); DUW30; DUG20 (G1900); BB 6630 (L1900, L700, L600, L2100); BB 6630 (N600)	
Hybrid Cable System	Ericsson 9x18 HCS *Select Length* Ericsson 6x12 HCS *Select Length & AWG* **(x 3)**	
Radio	RU22 **(x 3)** (U2100)	

Proposed RAN Equipment				
Template: 67D5A992DB Outdoor				
Enclosure	**1**	**2**	**3**	**4**
Enclosure Type	RBS 6131	S12000 Outdoor	Enclosure 6160	B160
Baseband	DUW30 (U2100); DUW30; DUG20 (G1900); BB 6630 (L2100, L1900, L700, L600); 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 6)**	
Radio	RU22 **(x 3)** (U2100)			

RAN Scope of Work:

Placement of cabinets (existing and new) to be determined.

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.

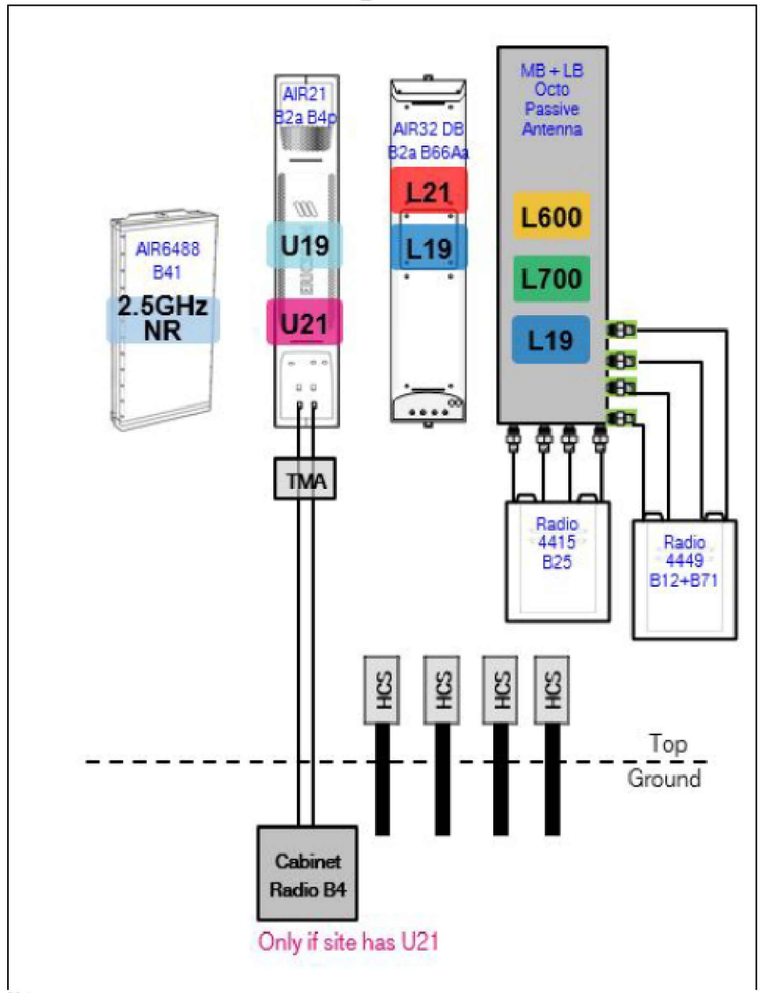
Existing: (12) 1 5/8" Coaxial Lines and (1) 9x18 HCS.

Remove (6) Coaxial Lines for new total of (6) coaxial lines.

Add (6) 6X12 HCS ([2] HCS per sector: one for new AIR32DB; one for new Anchor A&L Equipment). Length of new HCS will match that of existing HCS.

1 CABINET CONFIGURATION
SCALE: NOT TO SCALE

67D5992DB_3xAIR+1OP.JPG



Notes:

2 ANTENNA CONFIGURATION
SCALE: NOT TO SCALE

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-601	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

Telefonaktiebolaget LM Ericsson
SE-164 80 Stockholm, Sweden
www.ericsson.com

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-602	0

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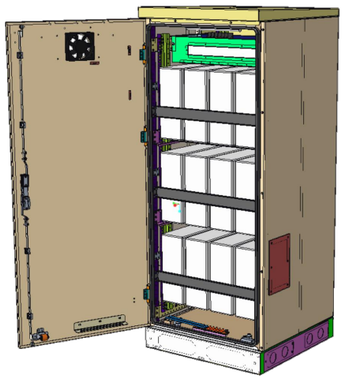
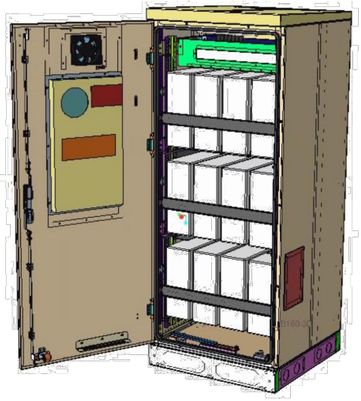
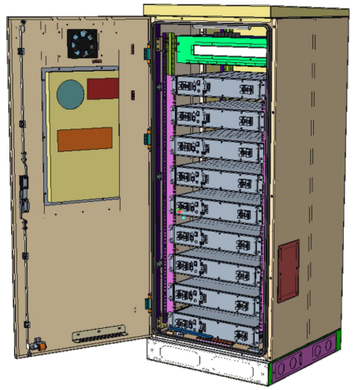
Enclosure B160



Enclosure B160
AirCon + VRLA



Enclosure B160
AirCon + Li-Ion



Enclosure B160
Convection Cooling
+ VRLA

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/m^2)
- 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

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SUPPLEMENTAL

SHEET NUMBER:	REVISION:
R-603	0

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INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless

1033 WATERVLIET SHAKER RD, ALBANY, NY 12205

Mount Analysis Report

July 9, 2020

T-Mobile Site Name	CT477/General Comm. SST
T-Mobile Site Number	CT11477B
ATC Site Name	Levesque CT, CT
ATC Site Number	275375
ATC Engineering Number	13251811_C8_03
Infinigy Job Number	1009-Z0003-B
Client	ATC
Carrier	T-Mobile
Site Location	1140 Wolcott Road Wolcott, CT 06716 New Haven County 41.6176 N NAD83 72.9746 W NAD83
Mount Centerline EL.	162.0 ft
Mount Type	Sector Frame
Structural Usage Ratio	**71.0%**
Overall Result	**Pass**

Upon reviewing the results of this analysis, it is our opinion that the existing sector frame 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.

- Reinforcement described in the mount analysis report by CLS Project #41124-12948429-01-MA, dated 7/31/19 was assumed to be installed. Reinforcements must be installed prior to installation of proposed equipment.

STATE OF CONNECTICUT · JOHN S. STEVENS · 24705 · LICENSED PROFESSIONAL ENGINEER

7/9/2020

Pradin Suinyal Magar, M.S.
Project Engineer I

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

INFINIGY

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the existing 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 17.0.4 analysis software.

Supporting Documentation

Collocation Application	Collo App ID #375128, dated June 23, 2020
RFDS	T-Mobile Site ID CT11477B, dated May 19, 2020
Structural Report	ATC Engineering #12948429_C3_02, dated August 20, 2019
Previous Mount Analysis	CLS Engineering PLLC Project #41124-12948429-01-MA, dated July 31, 2019
Site Photos	ATC Provided, dated April 23, 2019

Analysis Code Requirements

Wind Speed	117 mph (3-Second Gust)
Wind Speed w/ Ice	50 mph (3 Second Gust) w/ 1" Ice
TIA Revision	ANSI/TIA-222-H
Risk Category	II
Exposure Category	B
Topographic Factor Procedure	Method 1
Topographic Category	1
Calculated Crest Height (H)	0 ft
Spectral Response	S_s = 0.191 g, S_1 = 0.054 g
Site Class	D - Stiff Soil (Assumed)
HMSL	993 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the existing sector frame 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.

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:

Pradin Suinyal Magar, M.S.
Project Engineer I | **INFINIGY**
1517 Old Apex Road, Cary, NC 27513
(O) (518) 690-0813
pmagar@infinigy.com | www.infinigy.com

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SUPPLEMENTAL

SHEET NUMBER: R-604

REVISION: 0

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Exhibit C

Structural Analysis Report

AMERICAN TOWER®
CORPORATION

Structural Analysis Report

Structure	:	**180 ft Self Supported Tower**
ATC Site Name	:	**LEVESQUE CT, CT**
ATC Asset Number	:	**275375**
Engineering Number	:	**13251811_C3_01**
Proposed Carrier	:	**T-MOBILE**
Carrier Site Name	:	**CT477/General Comm. SST**
Carrier Site Number	:	**CT11477B**
Site Location	:	**1140 Wolcott Road** **Wolcott, CT 06716-1514** **41.617600,-72.974600**
County	:	**New Haven**
Date	:	**July 16, 2020**
Max Usage	:	**84%**
Result	:	**Pass**

Prepared By:
Thomas Pham
Structural Engineer I

Reviewed By:

COA: PEC.0001553

AMERICAN TOWER®
CORPORATION

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 180 ft self supported tower to reflect the change in loading by T-MOBILE.

Supporting Documents

Tower Drawings	Rohn Drawing #B881302, dated November 28, 1988
Foundation Drawing	Rohn Drawing #A881602-1, dated December 7, 1988
Geotechnical Report	CTB Project #88-718, dated November 22, 1988
Mount Analysis	Infinigy Job #1009-Z0003-B, dated July 9, 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:	117 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:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Spectral Response:	Ss = 0.19, S_1 = 0.05
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
174.0	-	-	Empty Side Arm	-	-
162.0	3	Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs)	Sector Frame	(12) 1 5/8" Coax (1) 1 5/8" Hybriflex (3) 1 1/4" (1.25"-31.8mm) Fiber	T-MOBILE
	3	Ericsson KRY 112 144/1			
	3	RFS APXVAARR24_43-U-NA20			
61.0	-	-	Empty Side Arm	-	-
55.0	-	-	Empty Side Arm	-	-

Equipment to be Removed

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
162.0	3	Ericsson AIR 21, 1.3M, B4A B2P (90.4 lbs)	-	-	T-MOBILE
	3	Ericsson Radio 4449 B12,B71			

Proposed Equipment

Elev.[1] (ft)	Qty	Antenna	Mount Type	Lines	Carrier
162.0	3	Ericsson Radio 4449 B71 B85A	Sector Frame	(3) 1 1/4" (1.25"-31.8mm) Fiber	T-MOBILE
	3	Ericsson RRUS 4415 B25			
	3	Ericsson Air6449 B41			
	3	Ericsson AIR32 B66Aa/B2a			

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

Install proposed coax stacked on top of existing T-MOBILE coax.

Structure Usages

Structural Component	Controlling Usage	Pass/Fail
Legs	84%	Pass
Diagonals	75%	Pass
Horizontals	14%	Pass
Anchor Bolts	50%	Pass
Leg Bolts	48%	Pass

Foundations

Reaction Component	Original Design Reactions	Factored Design Reactions*	Analysis Reactions	% of Design
Uplift (Kips)	109.8	148.2	102.5	69%
Axial (Kips)	122.5	165.4	124.0	75%
Shear (Kips)	20.7	27.9	21.9	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) (°)
162.0	Ericsson Radio 4449 B71 B85A	T-MOBILE	0.306	0.000	0.317
	Ericsson RRUS 4415 B25				
	Ericsson Air6449 B41				
	Ericsson AIR32 B66Aa/B2a				

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

AMERICAN TOWER®
CORPORATION

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:

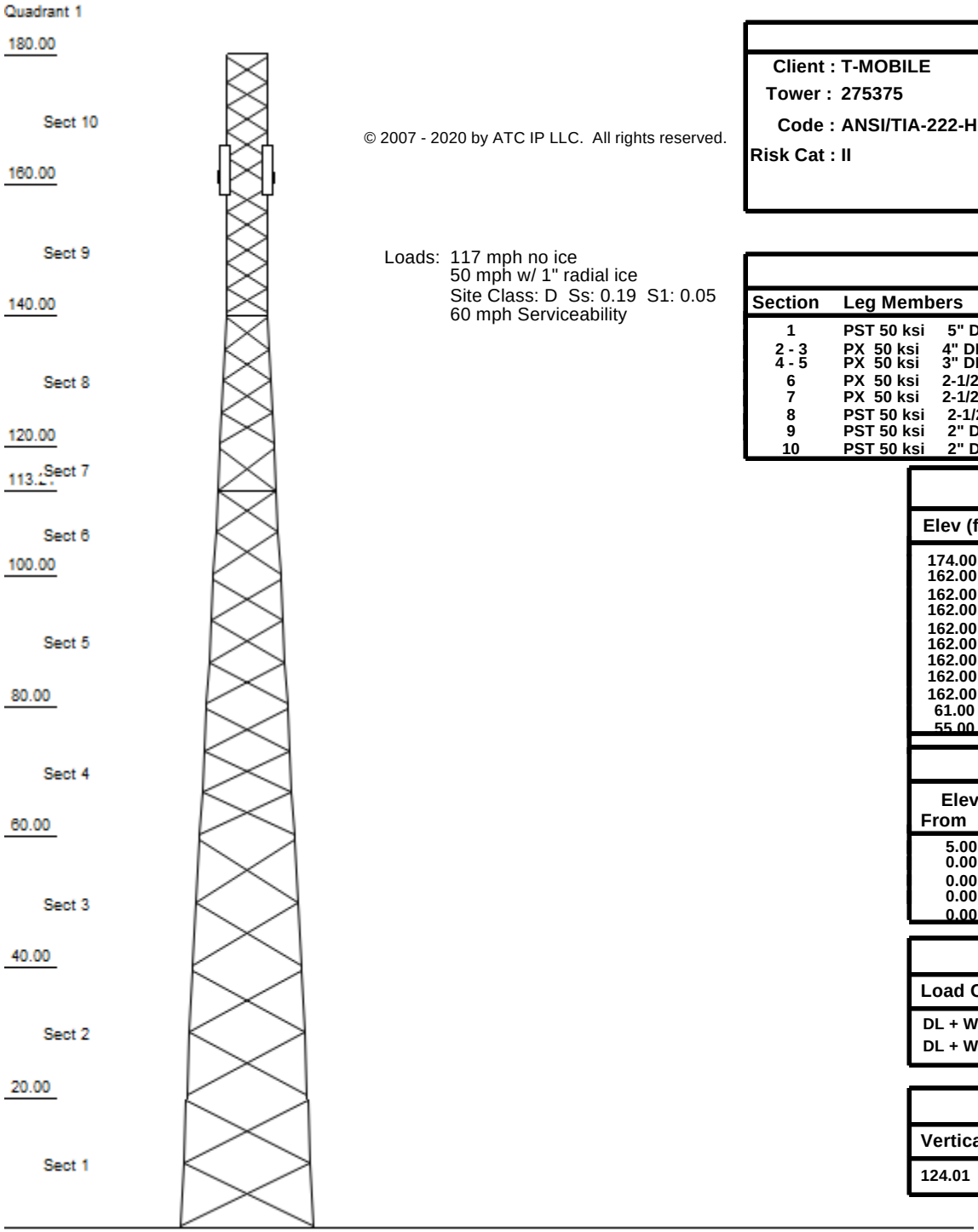
- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

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.



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Loads: 117 mph no ice
50 mph w/ 1" radial ice
Site Class: D Ss: 0.19 S1: 0.05
60 mph Serviceability

Job Information

Client :	T-MOBILE				
Tower :	275375	Location :	LEVESQUE CT, CT	Base Width :	20.78 ft
Code :	ANSI/TIA-222-H	Topo Method:	Method 1	Top Width :	6.42 ft
Risk Cat :	II	Topo:	1	Tower Ht :	180.00 ft
		Exposure :	B	Shape :	Triangle

Sections Properties

Section	Leg Members		Diagonal Members	Horizontal Members
1	PST 50 ksi	5" DIA PIPE	SAE 50 ksi 3.5X3.5X0.25	
2 - 3	PX 50 ksi	4" DIA PIPE	SAE 50 ksi 3X3X0.1875	
4 - 5	PX 50 ksi	3" DIA PIPE	SAE 36 ksi 2.5X2.5X0.1875	
6	PX 50 ksi	2-1/2" DIA PIPE	SAE 36 ksi 2X2X0.1875	SAE 36 ksi 3X3X0.1875
7	PX 50 ksi	2-1/2" DIA PIPE	SAE 36 ksi 2X2X0.1875	
8	PST 50 ksi	2-1/2" DIA PIPE	SAE 36 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125
9	PST 50 ksi	2" DIA PIPE	SAE 36 ksi 1.5X1.5X0.125	
10	PST 50 ksi	2" DIA PIPE	SAE 36 ksi 1.5X1.5X0.125	SAE 36 ksi 2X2X0.125

Discrete Appurtenance

Elev (ft)	Type	Qty	Description
174.00	Straight Arm	3	Round Side Arm
162.00	Other	3	Modified Sector Frame
162.00	Panel	3	RFS APXVAARR24_43-U-NA20
162.00	Panel	3	Ericsson AIR32 B66Aa/B2a
162.00	Panel	3	Ericsson AIR 21, 1.3M, B2A B4P
162.00	Panel	3	Ericsson Air6449 B41
162.00		3	Ericsson RRUS 4415 B25
162.00		3	Ericsson Radio 4449 B71 B85A
162.00		3	Ericsson KRY 112 144/1
61.00	Straight Arm	1	Round Side Arm
55.00	Straight Arm	1	Round Side Arm

Linear Appurtenance

Elev (ft) From	To	Qty	Description
5.00	162.00	1	Waveguide
0.00	162.00	1	1 5/8" Hybriflex
0.00	162.00	12	1 5/8" Coax
0.00	162.00	3	1 1/4" (1.25"- 31.8m
0.00	162.00	3	1 1/4" (1.25"- 31.8m

Global Base Foundation Design Loads

Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL + WL	2,096.05	22.61	21.86
DL + WL + IL	672.46	50.97	6.98

Individual Base Foundation Design Loads

Vertical (kip)	Uplift (kip)	Horizontal (kip)
124.01	102.53	12.97

Site Number:	275375	Code:	ANSI/TIA-222-H	© 2007 - 2020 by ATC IP LLC. All rights reserved.
Site Name:	LEVESQUE CT, CT	Engineering Number:	13251811_C3_01	7/16/2020 5:28:56 PM
Customer:	T-MOBILE			

Analysis Parameters

Location:	New Haven County, CT	Height (ft):	180
Code:	ANSI/TIA-222-H	Base Elevation (ft):	0.00
Shape:	Triangle	Bottom Face Width (ft):	20.78
Tower Manufacturer:	Rohn	Top Face Width (ft):	6.42
Tower Type:	Self Support	Anchor Bolt Detail Type	c
Kd:	0.85		
Ke:	0.96		

Ice & Wind Parameters

Exposure Category:	B	Design Windspeed Without Ice:	117 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:	993.00 ft

Seismic Parameters

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil				
Period Based on Rayleigh Method (sec):	0.94				
T_L (sec):	6	p:	1.3	C_S:	0.031
S_S:	0.191	S_1:	0.054	C_S, Max:	0.031
F_a:	1.600	F_V:	2.400	C_S, Min:	0.030
S_{ds}:	0.204	S_{d1}:	0.086		

Load Cases

1.2D + 1.0W Normal	117 mph Normal with No Ice
1.2D + 1.0W 60 deg	117 mph 60 degree with No Ice
1.2D + 1.0W 90 deg	117 mph 90 degree with No Ice
1.2D + 1.0W 120 deg	117 mph 120 degree with No Ice
1.2D + 1.0W 180 deg	117 mph 180 degree with No Ice
1.2D + 1.0W 210 deg	117 mph 210 degree with No Ice
1.2D + 1.0W 240 deg	117 mph 240 degree with No Ice
1.2D + 1.0W 300 deg	117 mph 300 degree with No Ice
1.2D + 1.0W 330 deg	117 mph 330 degree with No Ice
0.9D + 1.0W Normal	117 mph Normal with No Ice (Reduced DL)
0.9D + 1.0W 60 deg	117 mph 60 deg with No Ice (Reduced DL)
0.9D + 1.0W 90 deg	117 mph 90 deg with No Ice (Reduced DL)
0.9D + 1.0W 120 deg	117 mph 120 deg with No Ice (Reduced DL)
0.9D + 1.0W 180 deg	117 mph 180 deg with No Ice (Reduced DL)
0.9D + 1.0W 210 deg	117 mph 210 deg with No Ice (Reduced DL)
0.9D + 1.0W 240 deg	117 mph 240 deg with No Ice (Reduced DL)
0.9D + 1.0W 300 deg	117 mph 300 deg with No Ice (Reduced DL)
0.9D + 1.0W 330 deg	117 mph 330 deg with No Ice (Reduced DL)

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Analysis Parameters

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 + 1.0Di + 1.0Wi 120 deg	50 mph 120 deg with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 180 deg	50 mph 180 deg with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 210 deg	50 mph 210 deg with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 240 deg	50 mph 240 deg with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 300 deg	50 mph 300 deg with 1.00 in Radial Ice
1.2D + 1.0Di + 1.0Wi 330 deg	50 mph 330 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
1.2D + 1.0Ev + 1.0Eh 120 deg	Seismic 120 deg
1.2D + 1.0Ev + 1.0Eh 180 deg	Seismic 180 deg
1.2D + 1.0Ev + 1.0Eh 210 deg	Seismic 210 deg
1.2D + 1.0Ev + 1.0Eh 240 deg	Seismic 240 deg
1.2D + 1.0Ev + 1.0Eh 300 deg	Seismic 300 deg
1.2D + 1.0Ev + 1.0Eh 330 deg	Seismic 330 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
0.9D - 1.0Ev + 1.0Eh 120 deg	Seismic (Reduced DL) 120 deg
0.9D - 1.0Ev + 1.0Eh 180 deg	Seismic (Reduced DL) 180 deg
0.9D - 1.0Ev + 1.0Eh 210 deg	Seismic (Reduced DL) 210 deg
0.9D - 1.0Ev + 1.0Eh 240 deg	Seismic (Reduced DL) 240 deg
0.9D - 1.0Ev + 1.0Eh 300 deg	Seismic (Reduced DL) 300 deg
0.9D - 1.0Ev + 1.0Eh 330 deg	Seismic (Reduced DL) 330 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
1.0D + 1.0W Service 120 deg	Serviceability - 60 mph Wind 120 deg
1.0D + 1.0W Service 180 deg	Serviceability - 60 mph Wind 180 deg
1.0D + 1.0W Service 210 deg	Serviceability - 60 mph Wind 210 deg
1.0D + 1.0W Service 240 deg	Serviceability - 60 mph Wind 240 deg
1.0D + 1.0W Service 300 deg	Serviceability - 60 mph Wind 300 deg
1.0D + 1.0W Service 330 deg	Serviceability - 60 mph Wind 330 deg

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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)
174.0	Round Side Arm	3	150	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.0	33.27	296	540
162.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	32.59	12	40
162.0	Ericsson Radio 4449	3	75	1.6	1.3	13.2	10.5	0.80	0.50	0.0	0.0	32.59	55	270
162.0	Ericsson RRUS 4415	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.0	32.59	61	166
162.0	Ericsson Air6449	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	32.59	238	374
162.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	32.59	281	329
162.0	Ericsson AIR32	3	132	6.5	4.7	12.9	8.7	0.80	0.71	0.0	0.0	32.59	307	476
162.0	Modified Sector	3	364	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	32.59	673	1310
162.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	32.59	848	460
61.00	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	24.66	109	180
55.00	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	23.94	106	180
	Totals	29	3605	196.1									2986	4326

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)
174.0	Round Side Arm	3	150	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.0	33.27	296	405
162.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	32.59	12	30
162.0	Ericsson Radio 4449	3	75	1.6	1.3	13.2	10.5	0.80	0.50	0.0	0.0	32.59	55	203
162.0	Ericsson RRUS 4415	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.0	32.59	61	124
162.0	Ericsson Air6449	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	32.59	238	281
162.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	32.59	281	247
162.0	Ericsson AIR32	3	132	6.5	4.7	12.9	8.7	0.80	0.71	0.0	0.0	32.59	307	357
162.0	Modified Sector	3	364	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	32.59	673	983
162.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	32.59	848	345
61.00	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	24.66	109	135
55.00	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	23.94	106	135
	Totals	29	3605	196.1									2986	3244

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)
174.0	Round Side Arm	3	199	7.0	0.0	0.0	0.0	1.00	0.67	0.0	0.0	6.08	73	688
162.0	Ericsson KRY 112	3	18	0.6	0.6	6.1	2.7	0.80	0.50	0.0	0.0	5.95	4	61
162.0	Ericsson Radio 4449	3	116	2.2	1.3	13.2	10.5	0.80	0.50	0.0	0.0	5.95	14	392
162.0	Ericsson RRUS 4415	3	79	2.4	1.4	13.4	5.9	0.80	0.50	0.0	0.0	5.95	15	265
162.0	Ericsson Air6449	3	196	6.8	2.8	20.6	8.6	0.80	0.63	0.0	0.0	5.95	52	651
162.0	Ericsson AIR 21,	3	190	7.5	4.7	12.0	7.8	0.80	0.70	0.0	0.0	5.95	64	625
162.0	Ericsson AIR32	3	240	8.0	4.7	12.9	8.7	0.80	0.71	0.0	0.0	5.95	69	800
162.0	Modified Sector	3	536	21.2	0.0	0.0	0.0	0.75	0.75	0.0	0.0	5.95	181	1825
162.0	RFS	3	393	22.8	8.0	24.0	8.7	0.80	0.63	0.0	0.0	5.95	174	1257
61.00	Round Side Arm	1	195	6.9	0.0	0.0	0.0	1.00	1.00	0.0	0.0	4.50	26	225
55.00	Round Side Arm	1	194	6.8	0.0	0.0	0.0	1.00	1.00	0.0	0.0	4.37	25	224
	Totals	29	6293	249.2									696	7014

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Tower Loading

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)
174.0	Round Side Arm	3	150	5.2	0.0	0.0	0.0	1.00	0.67	0.0	0.0	8.75	78	450
162.0	Ericsson KRY 112	3	11	0.4	0.6	6.1	2.7	0.80	0.50	0.0	0.0	8.57	3	33
162.0	Ericsson Radio 4449	3	75	1.6	1.3	13.2	10.5	0.80	0.50	0.0	0.0	8.57	14	225
162.0	Ericsson RRUS 4415	3	46	1.8	1.4	13.4	5.9	0.80	0.50	0.0	0.0	8.57	16	138
162.0	Ericsson Air6449	3	104	5.7	2.8	20.6	8.6	0.80	0.63	0.0	0.0	8.57	63	312
162.0	Ericsson AIR 21,	3	92	6.0	4.7	12.0	7.8	0.80	0.70	0.0	0.0	8.57	74	275
162.0	Ericsson AIR32	3	132	6.5	4.7	12.9	8.7	0.80	0.71	0.0	0.0	8.57	81	397
162.0	Modified Sector	3	364	14.4	0.0	0.0	0.0	0.75	0.75	0.0	0.0	8.57	177	1092
162.0	RFS	3	128	20.2	8.0	24.0	8.7	0.80	0.63	0.0	0.0	8.57	223	384
61.00	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.48	29	150
55.00	Round Side Arm	1	150	5.2	0.0	0.0	0.0	1.00	1.00	0.0	0.0	6.30	28	150
	Totals	29	3605	196.1									785	3605

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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
0.00	162.0	1 1/4" (1.25"-	3	1.25	1.05	100	1	Individual	0.00	N	1.00	1.00	0.01
0.00	162.0	1 1/4" (1.25"-	3	1.25	1.05	100	Lin App	Individual	0.00	N	1.00	1.00	0.01
0.00	162.0	1 5/8" Coax	12	1.98	0.82	100	1	Individual	0.00	N	1.00	1.00	0.00
0.00	162.0	1 5/8" Hybriflex	1	1.98	1.30	100	1	Individual	0.00	N	1.00	1.00	0.00
5.00	162.0	Waveguide	1	2.00	6.00	100	1	Individual	0.00	N	1.00	1.00	0.00

Site Number: 275375 Code: ANSI/TIA-222-H © 2007 - 2020 by ATC IP LLC. All rights reserved.

Site Name: LEVESQUE CT, CT Engineering Number: 13251811_C3_01 7/16/2020 5:28:57 PM

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_1):	0.05
Long-Period Transition Period (T_L - Seconds):	6
Importance Factor (I_e):	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}):	0.09
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):	0.94
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.22
Total Unfactored Dead Load:	18.84 k
Seismic Base Shear (E):	0.75 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	170.00	575	303,284	0.066	50	713
9	150.00	965	437,092	0.095	71	1,197
8	130.00	1,110	422,279	0.092	69	1,377
7	116.60	475	158,327	0.035	26	590
6	106.60	1,060	316,641	0.069	52	1,315
5	90.00	1,818	441,476	0.096	72	2,255
4	70.00	1,921	343,276	0.075	56	2,383
3	50.00	2,192	259,830	0.057	42	2,720
2	30.00	2,269	144,186	0.031	24	2,816
1	10.00	2,849	47,345	0.010	8	3,534
Round Side Arm	174.00	450	244,399	0.053	40	558
Ericsson KRY 112 144/1	162.00	33	16,426	0.004	3	41
Ericsson Radio 4449 B71 B85A	162.00	225	111,992	0.024	18	279
Ericsson RRUS 4415 B25	162.00	138	68,688	0.015	11	171
Ericsson Air6449 B41	162.00	312	155,296	0.034	25	387
Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs	162.00	275	136,630	0.030	22	341
Ericsson AIR32 B66Aa/B2a	162.00	397	197,405	0.043	32	492
Modified Sector Frame	162.00	1,092	543,535	0.119	89	1,355
RFS APXVAARR24_43-U-NA20	162.00	384	190,984	0.042	31	476
Round Side Arm	61.00	150	22,663	0.005	4	186
Round Side Arm	55.00	150	19,973	0.004	3	186
		18,838	4,581,728	1.000	749	23,373

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Equivalent Lateral Force Method

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	170.00	575	303,284	0.066	50	494
9	150.00	965	437,092	0.095	71	829
8	130.00	1,110	422,279	0.092	69	954
7	116.60	475	158,327	0.035	26	408
6	106.60	1,060	316,641	0.069	52	911
5	90.00	1,818	441,476	0.096	72	1,562
4	70.00	1,921	343,276	0.075	56	1,650
3	50.00	2,192	259,830	0.057	42	1,884
2	30.00	2,269	144,186	0.031	24	1,950
1	10.00	2,849	47,345	0.010	8	2,448
Round Side Arm	174.00	450	244,399	0.053	40	387
Ericsson KRY 112 144/1	162.00	33	16,426	0.004	3	28
Ericsson Radio 4449 B71 B85A	162.00	225	111,992	0.024	18	193
Ericsson RRUS 4415 B25	162.00	138	68,688	0.015	11	119
Ericsson Air6449 B41	162.00	312	155,296	0.034	25	268
Ericsson AIR 21, 1.3M, B2A B4P (91.5 lbs	162.00	275	136,630	0.030	22	236
Ericsson AIR32 B66Aa/B2a	162.00	397	197,405	0.043	32	341
Modified Sector Frame	162.00	1,092	543,535	0.119	89	938
RFS APXVAARR24_43-U-NA20	162.00	384	190,984	0.042	31	330
Round Side Arm	61.00	150	22,663	0.005	4	129
Round Side Arm	55.00	150	19,973	0.004	3	129
		18,838	4,581,728	1.000	749	16,186

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Force/Stress Summary

Section: 1 1 Bot Elev (ft): 0.00 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PST - 5" DIA PIPE	-120.68	1.2D + 1.0W Normal	9.64	100	100	100	61.5	50.0	146.70	0	0	0.00	0.00	82	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	-3.84	1.2D + 1.0W 90 deg	22.43	50	50	50	195.6	50.0	12.64	1	1	13.81	19.50	30	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 - 5" DIA PIPE	103.17	0.9D + 1.0W 60 deg	50	65	193.50	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 - 3.5X3.5X0.25	4.06	1.2D + 1.0W 90 deg	50	65	55.51	1	1	13.81	11.70	17.82	34	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	91.96	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	110.73	1.2D + 1.0W Normal	0.00	0		
Bot Tension	103.17	0.9D + 1.0W 60 deg	227.15	21	4	1" A354-BC
Bot Compression	124.31	1.2D + 1.0W 120 deg	264.10	50		

Section: 2 2 Bot Elev (ft): 20.00 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	-106.75	1.2D + 1.0W Normal	9.64	100	100	100	78.2	50.0	126.94	0	0	0.00	0.00	84	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 - 3X3X0.1875	-3.79	1.2D + 1.0W 90 deg	20.64	50	50	50	207.8	44.0	7.22	1	1	13.81	14.63	52	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	92.12	0.9D + 1.0W 60 deg	50	65	198.45	0	0	0.00	0.00		46	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG SAE - 3X3X0.1875	3.80	1.2D + 1.0W 90 deg	50	65	35.14	1	1	13.81	8.77	11.08	43	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	80.29	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	96.31	1.2D + 1.0W Normal	0.00	0		
Bot Tension	91.96	0.9D + 1.0W 180 deg	218.07	42	4	1 A325
Bot Compression	0.00		0.00	0		

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Force/Stress Summary

Section: 3 3 Bot Elev (ft): 40.00 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 4" DIA PIPE	-92.24	1.2D + 1.0W Normal	9.64	100	100	100	78.2	50.0	126.94	0	0	0.00	0.00	72	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 - 3X3X0.1875	-3.59	1.2D + 1.0W 90 deg	18.89	50	50	50	190.3	44.0	8.62	1	1	13.81	14.63	41	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	80.45	0.9D + 1.0W 60 deg	50	65	198.45	0	0	0.00	0.00		40	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG SAE - 3X3X0.1875	3.59	1.2D + 1.0W 90 deg	50	65	35.14	1	1	13.81	8.77	11.08	40	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	68.16	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	81.38	1.2D + 1.0W Normal	0.00	0		
Bot Tension	80.29	0.9D + 1.0W 180 deg	166.22	48	4	0.875" A325
Bot Compression	0.00		0.00	0		

Section: 4 4 Bot Elev (ft): 60.00 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 3" DIA PIPE	-78.60	1.2D + 1.0W Normal	6.43	100	100	100	67.7	50.0	97.22	0	0	0.00	0.00	80	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 - 2.5X2.5X0.1875	-2.79	1.2D + 1.0W 90 deg	15.75	50	50	50	191.0	36.0	7.08	1	1	8.84	10.44	39	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	68.33	0.9D + 1.0W 60 deg	50	65	135.90	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 - 2.5X2.5X0.1875	2.78	1.2D + 1.0W 90 deg	36	58	25.99	1	1	8.84	6.20	8.77	44	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	57.12	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	67.75	1.2D + 1.0W Normal	0.00	0		
Bot Tension	68.16	0.9D + 1.0W 180 deg	166.22	41	4	0.875" A325
Bot Compression	0.00		0.00	0		

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Force/Stress Summary

Section: 5 5 Bot Elev (ft): 80.00 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 3" DIA PIPE	-64.80	1.2D + 1.0W Normal	6.43	100	100	100	67.7	50.0	97.25	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 - 2.5X2.5X0.1875	-2.74	1.2D + 1.0W 90 deg	12.70	50	50	50	153.9	36.0	10.89	1	1	8.84	10.44	31	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 - 3" DIA PIPE	57.21	0.9D + 1.0W 60 deg	50	65	135.90	0	0	0.00	0.00		42	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG SAE - 2.5X2.5X0.1875	2.66	1.2D + 1.0W 90 deg	36	58	25.99	1	1	8.84	6.20	8.77	42	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	44.86	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	53.20	1.2D + 1.0W Normal	0.00	0		
Bot Tension	57.12	0.9D + 1.0W 180 deg	166.22	34	4	0.875" A325
Bot Compression	0.00		0.00	0		

Section: 6 6 Bot Elev (ft): 100.0 Height (ft): 13.208

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 2-1/2" DIA PIPE	-50.83	1.2D + 1.0W Normal	6.43	100	100	100	83.5	50.0	60.81	0	0	0.00	0.00	83	Member X
HORIZ SAE - 3X3X0.1875	-0.89	0.9D + 1.0W Normal	9.161	100	100	100	184.4	36.0	9.17	1	1	8.84	10.44	10	Bolt Shear
DIAG SAE - 2X2X0.1875	-2.11	1.2D + 1.0W 90 deg	12.06	50	50	50	183.7	36.0	6.07	1	1	8.84	10.44	34	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 - 2-1/2" DIA PIPE	44.97	0.9D + 1.0W 60 deg	50	65	101.25	0	0	0.00	0.00		44	Member
HORIZ SAE - 3X3X0.1875	0.88	1.2D + 1.0W 60 deg	36	58	32.12	1	1	8.84	6.20	9.79	14	Bolt Bear
DIAG SAE - 2X2X0.1875	2.16	1.2D + 1.0W 90 deg	36	58	19.89	1	1	8.84	6.20	6.73	34	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	37.32	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	44.40	1.2D + 1.0W Normal	0.00	0		
Bot Tension	44.86	0.9D + 1.0W 180 deg	120.41	37	4	0.75" A325
Bot Compression	0.00		0.00	0		

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Force/Stress Summary

Section: 7 6 Bot Elev (ft): 113.2 Height (ft): 6.792

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PX - 2-1/2" DIA PIPE	-41.59	1.2D + 1.0W Normal	6.43	100	100	100	83.5	50.0	60.81	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 - 2X2X0.1875	-2.41	1.2D + 1.0W Normal	10.90	50	50	50	166.0	36.0	7.43	1	1	8.84	10.44	32	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 - 2-1/2" DIA PIPE	34.58	1.2D + 1.0W 60 deg	50	65	101.25	0	0	0.00	0.00		34	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG SAE - 2X2X0.1875	2.11	0.9D + 1.0W 60 deg	36	58	19.89	1	1	8.84	6.20	6.73	34	Bolt Bear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	33.43	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression	39.79	1.2D + 1.0W Normal	0.00	0		
Bot Tension	37.32	0.9D + 1.0W 180 deg	0.00	0		
Bot Compression	0.00		0.00	0		

Section: 8 7 Bot Elev (ft): 120.0 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	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	-37.92	1.2D + 1.0W Normal	4.82	100	100	100	61.1	50.0	58.37	0	0	0.00	0.00	64	Member X
HORIZ SAE - 2X2X0.125	-0.05	1.2D + 1.0Di + 1.0Wi	6.420	100	100	100	193.6	36.0	3.67	1	1	8.84	6.96	1	Member Z
DIAG SAE - 1.5X1.5X0.125	-1.88	1.2D + 1.0W 90 deg	9.459	50	50	50	191.7	36.0	2.80	1	1	8.84	6.96	67	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	33.00	1.2D + 1.0W 60 deg	50	65	76.68	0	0	0.00	0.00		43	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.125	2.01	1.2D + 1.0W 90 deg	36	58	9.45	1	1	8.84	4.13	3.13	64	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	19.75	0.9D + 1.0W 180 deg	0.00	0	0	
Top Compression	24.49	1.2D + 1.0W Normal	0.00	0		
Bot Tension	33.43	0.9D + 1.0W 60 deg	81.36	41	4	5/8 A325
Bot Compression	0.00		0.00	0		

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Force/Stress Summary

Section: 9 8 Bot Elev (ft): 140.0 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PST - 2" DIA PIPE	-21.97	1.2D + 1.0W Normal	3.85	100	100	100	58.7	50.0	37.43	0	0	0.00	0.00	58	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 - 1.5X1.5X0.125	-2.36	1.2D + 1.0W 90 deg	7.486	50	50	50	151.7	36.0	4.47	1	1	8.84	6.96	52	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" DIA PIPE	19.27	1.2D + 1.0W 60 deg	50	65	48.15	0	0	0.00	0.00		40	Member
HORIZ	0.00		0	0	0.00	0	0	0.00	0.00	0.00	0	
DIAG SAE - 1.5X1.5X0.125	2.36	1.2D + 1.0W 90 deg	36	58	9.45	1	1	8.84	4.13	3.13	75	Blk Shear

Max Splice Forces	Pu (kip)	Load Case	phiRnt (kip)	Use %	Num Bolts	Bolt Type
Top Tension	2.15	0.9D + 1.0W 60 deg	0.00	0	0	
Top Compression	5.24	1.2D + 1.0W Normal	0.00	0		
Bot Tension	19.75	0.9D + 1.0W 180 deg	81.36	24	4	5/8 A325
Bot Compression	0.00		0.00	0		

Section: 10 9 Bot Elev (ft): 160.0 Height (ft): 20.000

Max Compression Member	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'y (ksi)	Phic Pn (kip)	Num Bolts	Num Holes	Shear phiRnv (kip)	Bear phiRn (kip)	Use %	Controls
LEG PST - 2" DIA PIPE	-5.19	1.2D + 1.0W Normal	0.38	100	100	100	5.7	50.0	48.04	0	0	0.00	0.00	10	Member X
HORIZ SAE - 2X2X0.125	0.00	1.2D + 1.0W Normal	6.420	100	100	100	193.6	36.0	3.67	1	1	8.84	6.96	0	Member Z
DIAG SAE - 1.5X1.5X0.125	-0.76	1.2D + 1.0W Normal	7.486	50	50	50	151.7	36.0	4.47	1	1	8.84	6.96	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" DIA PIPE	2.22	1.2D + 1.0W 60 deg	50	65	48.15	0	0	0.00	0.00		4	Member
HORIZ SAE - 2X2X0.125	0.00	1.2D + 1.0W 60 deg	36	58	13.37	1	1	8.84	4.13	4.49	0	Bolt Bear
DIAG SAE - 1.5X1.5X0.125	0.72	1.2D + 1.0W 60 deg	36	58	9.45	1	1	8.84	4.13	3.13	23	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	2.15	0.9D + 1.0W 60 deg	81.36	3	4	5/8 A325
Bot Compression	0.00		0.00	0		

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Detailed Reactions

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	FX (kip)	FY (kip)	FZ (kip)	(-) = Uplift (+) = Down
1.2D + 1.0W Normal	**12.00**	**00.00**	**0**	**1**	**0.00**	**123.99**	**-12.95**	
	12.00	**00.00**	**120**	**1a**	**4.25**	**-50.69**	**-4.43**	
	12.00	**00.00**	**240**	**1b**	**-4.25**	**-50.69**	**-4.43**	
1.2D + 1.0W 60 deg	**12.00**	**00.00**	**0**	**1**	**-1.60**	**61.69**	**-6.17**	
	12.00	**00.00**	**120**	**1a**	**-6.14**	**61.69**	**1.70**	
	12.00	**00.00**	**240**	**1b**	**-9.67**	**-100.78**	**-5.58**	
1.2D + 1.0W 90 deg	**12.00**	**00.00**	**0**	**1**	**-1.87**	**7.54**	**-0.37**	
	12.00	**00.00**	**120**	**1a**	**-9.69**	**103.11**	**4.49**	
	12.00	**00.00**	**240**	**1b**	**-8.97**	**-88.04**	**-4.13**	
1.2D + 1.0W 120 deg	**12.00**	**00.00**	**0**	**1**	**-1.72**	**-50.70**	**5.91**	
	12.00	**00.00**	**120**	**1a**	**-11.23**	**124.01**	**6.48**	
	12.00	**00.00**	**240**	**1b**	**-5.97**	**-50.70**	**-1.46**	
1.2D + 1.0W 180 deg	**12.00**	**00.00**	**0**	**1**	**0.00**	**-100.78**	**11.16**	
	12.00	**00.00**	**120**	**1a**	**-4.54**	**61.69**	**4.47**	
	12.00	**00.00**	**240**	**1b**	**4.54**	**61.69**	**4.47**	
1.2D + 1.0W 210 deg	**12.00**	**00.00**	**0**	**1**	**0.91**	**-88.04**	**9.84**	
	12.00	**00.00**	**120**	**1a**	**0.62**	**7.54**	**1.80**	
	12.00	**00.00**	**240**	**1b**	**8.74**	**103.11**	**6.15**	
1.2D + 1.0W 240 deg	**12.00**	**00.00**	**0**	**1**	**1.72**	**-50.70**	**5.91**	
	12.00	**00.00**	**120**	**1a**	**5.97**	**-50.70**	**-1.46**	
	12.00	**00.00**	**240**	**1b**	**11.23**	**124.01**	**6.48**	
1.2D + 1.0W 300 deg	**12.00**	**00.00**	**0**	**1**	**1.60**	**61.69**	**-6.17**	
	12.00	**00.00**	**120**	**1a**	**9.67**	**-100.78**	**-5.58**	
	12.00	**00.00**	**240**	**1b**	**6.14**	**61.69**	**1.70**	
1.2D + 1.0W 330 deg	**12.00**	**00.00**	**0**	**1**	**0.96**	**103.11**	**-10.64**	
	12.00	**00.00**	**120**	**1a**	**8.06**	**-88.04**	**-5.71**	
	12.00	**00.00**	**240**	**1b**	**1.25**	**7.54**	**-1.44**	
0.9D + 1.0W Normal	**12.00**	**00.00**	**0**	**1**	**0.00**	**121.98**	**-12.86**	
	12.00	**00.00**	**120**	**1a**	**4.35**	**-52.51**	**-4.50**	
	12.00	**00.00**	**240**	**1b**	**-4.35**	**-52.51**	**-4.50**	
0.9D + 1.0W 60 deg	**12.00**	**00.00**	**0**	**1**	**-1.60**	**59.74**	**-6.06**	
	12.00	**00.00**	**120**	**1a**	**-6.04**	**59.74**	**1.65**	
	12.00	**00.00**	**240**	**1b**	**-9.76**	**-102.53**	**-5.64**	
0.9D + 1.0W 90 deg	**12.00**	**00.00**	**0**	**1**	**-1.87**	**5.65**	**-0.26**	
	12.00	**00.00**	**120**	**1a**	**-9.60**	**101.10**	**4.44**	
	12.00	**00.00**	**240**	**1b**	**-9.07**	**-89.80**	**-4.18**	
0.9D + 1.0W 120 deg	**12.00**	**00.00**	**0**	**1**	**-1.72**	**-52.51**	**6.02**	
	12.00	**00.00**	**120**	**1a**	**-11.14**	**121.98**	**6.43**	
	12.00	**00.00**	**240**	**1b**	**-6.07**	**-52.51**	**-1.52**	
0.9D + 1.0W 180 deg	**12.00**	**00.00**	**0**	**1**	**0.00**	**-102.53**	**11.27**	
	12.00	**00.00**	**120**	**1a**	**-4.45**	**59.74**	**4.41**	
	12.00	**00.00**	**240**	**1b**	**4.45**	**59.74**	**4.41**	
0.9D + 1.0W 210 deg	**12.00**	**00.00**	**0**	**1**	**0.91**	**-89.80**	**9.95**	
	12.00	**00.00**	**120**	**1a**	**0.71**	**5.65**	**1.75**	

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	12.00	00.00	240	1b	8.64	101.10	6.09
0.9D + 1.0W 240 deg	12.00	00.00	0	1	1.72	-52.51	6.02
	12.00	00.00	120	1a	6.07	-52.51	-1.52
	12.00	00.00	240	1b	11.14	121.98	6.43
0.9D + 1.0W 300 deg	12.00	00.00	0	1	1.60	59.74	-6.06
	12.00	00.00	120	1a	9.76	-102.53	-5.64
	12.00	00.00	240	1b	6.04	59.74	1.65
0.9D + 1.0W 330 deg	12.00	00.00	0	1	0.96	101.10	-10.53
	12.00	00.00	120	1a	8.16	-89.80	-5.76
	12.00	00.00	240	1b	1.16	5.65	-1.49
1.2D + 1.0Di + 1.0Wi Normal	12.00	00.00	0	1	0.00	54.36	-4.15
	12.00	00.00	120	1a	1.37	-1.69	-1.41
	12.00	00.00	240	1b	-1.37	-1.69	-1.41
1.2D + 1.0Di + 1.0Wi 60 deg	12.00	00.00	0	1	-0.52	34.96	-2.05
	12.00	00.00	120	1a	-2.03	34.96	0.58
	12.00	00.00	240	1b	-3.23	-18.95	-1.87
1.2D + 1.0Di + 1.0Wi 90 deg	12.00	00.00	0	1	-0.60	16.99	-0.12
	12.00	00.00	120	1a	-3.18	48.39	1.49
	12.00	00.00	240	1b	-2.96	-14.41	-1.37
1.2D + 1.0Di + 1.0Wi 120 deg	12.00	00.00	0	1	-0.54	-1.62	1.89
	12.00	00.00	120	1a	-3.59	54.20	2.07
	12.00	00.00	240	1b	-1.90	-1.62	-0.48
1.2D + 1.0Di + 1.0Wi 180 deg	12.00	00.00	0	1	0.00	-18.95	3.73
	12.00	00.00	120	1a	-1.52	34.96	1.47
	12.00	00.00	240	1b	1.52	34.96	1.47
1.2D + 1.0Di + 1.0Wi 210 deg	12.00	00.00	0	1	0.30	-14.41	3.25
	12.00	00.00	120	1a	0.20	16.99	0.58
	12.00	00.00	240	1b	2.88	48.39	2.01
1.2D + 1.0Di + 1.0Wi 240 deg	12.00	00.00	0	1	0.54	-1.62	1.89
	12.00	00.00	120	1a	1.90	-1.62	-0.48
	12.00	00.00	240	1b	3.59	54.20	2.07
1.2D + 1.0Di + 1.0Wi 300 deg	12.00	00.00	0	1	0.52	34.96	-2.05
	12.00	00.00	120	1a	3.23	-18.95	-1.87
	12.00	00.00	240	1b	2.03	34.96	0.58
1.2D + 1.0Di + 1.0Wi 330 deg	12.00	00.00	0	1	0.30	48.39	-3.50
	12.00	00.00	120	1a	2.67	-14.41	-1.88
	12.00	00.00	240	1b	0.41	16.99	-0.46
1.2D + 1.0Ev + 1.0Eh Normal M1	12.00	00.00	0	1	0.00	12.63	-0.89
	12.00	00.00	120	1a	-0.22	5.02	0.09
	12.00	00.00	240	1b	0.22	5.02	0.09
1.2D + 1.0Ev + 1.0Eh 60 deg M1	12.00	00.00	0	1	-0.03	10.09	-0.67
	12.00	00.00	120	1a	-0.60	10.09	0.31
	12.00	00.00	240	1b	0.02	2.48	0.01
1.2D + 1.0Ev + 1.0Eh 90 deg M1	12.00	00.00	0	1	-0.03	7.56	-0.45
	12.00	00.00	120	1a	-0.73	11.95	0.40
	12.00	00.00	240	1b	0.06	3.16	0.05
1.2D + 1.0Ev + 1.0Eh 120 deg M1	12.00	00.00	0	1	-0.03	5.02	-0.24
	12.00	00.00	120	1a	-0.77	12.63	0.44
	12.00	00.00	240	1b	0.19	5.02	0.14

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1.2D + 1.0Ev + 1.0Eh 180 deg M1	**12.00**	**00.00**	**0**	**1**	**0.00**	**2.48**	**-0.02**
	12.00	**00.00**	**120**	**1a**	**-0.57**	**10.09**	**0.36**
	12.00	**00.00**	**240**	**1b**	**0.57**	**10.09**	**0.36**
1.2D + 1.0Ev + 1.0Eh 210 deg M1	**12.00**	**00.00**	**0**	**1**	**0.02**	**3.16**	**-0.08**
	12.00	**00.00**	**120**	**1a**	**-0.38**	**7.56**	**0.25**
	12.00	**00.00**	**240**	**1b**	**0.71**	**11.95**	**0.43**
1.2D + 1.0Ev + 1.0Eh 240 deg M1	**12.00**	**00.00**	**0**	**1**	**0.03**	**5.02**	**-0.24**
	12.00	**00.00**	**120**	**1a**	**-0.19**	**5.02**	**0.14**
	12.00	**00.00**	**240**	**1b**	**0.77**	**12.63**	**0.44**
1.2D + 1.0Ev + 1.0Eh 300 deg M1	**12.00**	**00.00**	**0**	**1**	**0.03**	**10.09**	**-0.67**
	12.00	**00.00**	**120**	**1a**	**-0.02**	**2.48**	**0.01**
	12.00	**00.00**	**240**	**1b**	**0.60**	**10.09**	**0.31**
1.2D + 1.0Ev + 1.0Eh 330 deg M1	**12.00**	**00.00**	**0**	**1**	**0.02**	**11.95**	**-0.83**
	12.00	**00.00**	**120**	**1a**	**-0.08**	**3.16**	**0.03**
	12.00	**00.00**	**240**	**1b**	**0.41**	**7.56**	**0.20**
0.9D - 1.0Ev + 1.0Eh Normal M1	**12.00**	**00.00**	**0**	**1**	**0.00**	**10.30**	**-0.75**
	12.00	**00.00**	**120**	**1a**	**-0.10**	**2.70**	**0.03**
	12.00	**00.00**	**240**	**1b**	**0.10**	**2.70**	**0.03**
0.9D - 1.0Ev + 1.0Eh 60 deg M1	**12.00**	**00.00**	**0**	**1**	**-0.03**	**7.77**	**-0.53**
	12.00	**00.00**	**120**	**1a**	**-0.47**	**7.77**	**0.24**
	12.00	**00.00**	**240**	**1b**	**-0.10**	**0.16**	**-0.06**
0.9D - 1.0Ev + 1.0Eh 90 deg M1	**12.00**	**00.00**	**0**	**1**	**-0.03**	**5.23**	**-0.31**
	12.00	**00.00**	**120**	**1a**	**-0.61**	**9.62**	**0.33**
	12.00	**00.00**	**240**	**1b**	**-0.06**	**0.84**	**-0.02**
0.9D - 1.0Ev + 1.0Eh 120 deg M1	**12.00**	**00.00**	**0**	**1**	**-0.03**	**2.70**	**-0.10**
	12.00	**00.00**	**120**	**1a**	**-0.65**	**10.30**	**0.37**
	12.00	**00.00**	**240**	**1b**	**0.07**	**2.70**	**0.07**
0.9D - 1.0Ev + 1.0Eh 180 deg M1	**12.00**	**00.00**	**0**	**1**	**0.00**	**0.16**	**0.12**
	12.00	**00.00**	**120**	**1a**	**-0.45**	**7.77**	**0.29**
	12.00	**00.00**	**240**	**1b**	**0.45**	**7.77**	**0.29**
0.9D - 1.0Ev + 1.0Eh 210 deg M1	**12.00**	**00.00**	**0**	**1**	**0.02**	**0.84**	**0.06**
	12.00	**00.00**	**120**	**1a**	**-0.26**	**5.23**	**0.18**
	12.00	**00.00**	**240**	**1b**	**0.59**	**9.62**	**0.36**
0.9D - 1.0Ev + 1.0Eh 240 deg M1	**12.00**	**00.00**	**0**	**1**	**0.03**	**2.70**	**-0.10**
	12.00	**00.00**	**120**	**1a**	**-0.07**	**2.70**	**0.07**
	12.00	**00.00**	**240**	**1b**	**0.65**	**10.30**	**0.37**
0.9D - 1.0Ev + 1.0Eh 300 deg M1	**12.00**	**00.00**	**0**	**1**	**0.03**	**7.77**	**-0.53**
	12.00	**00.00**	**120**	**1a**	**0.10**	**0.16**	**-0.06**
	12.00	**00.00**	**240**	**1b**	**0.47**	**7.77**	**0.24**
0.9D - 1.0Ev + 1.0Eh 330 deg M1	**12.00**	**00.00**	**0**	**1**	**0.02**	**9.62**	**-0.69**
	12.00	**00.00**	**120**	**1a**	**0.05**	**0.84**	**-0.04**
	12.00	**00.00**	**240**	**1b**	**0.29**	**5.23**	**0.13**
1.0D + 1.0W Service Normal	**12.00**	**00.00**	**0**	**1**	**0.00**	**36.59**	**-3.65**
	12.00	**00.00**	**120**	**1a**	**0.88**	**-8.88**	**-1.04**
	12.00	**00.00**	**240**	**1b**	**-0.88**	**-8.88**	**-1.04**
1.0D + 1.0W Service 60 deg	**12.00**	**00.00**	**0**	**1**	**-0.42**	**20.37**	**-1.88**
	12.00	**00.00**	**120**	**1a**	**-1.83**	**20.37**	**0.58**
	12.00	**00.00**	**240**	**1b**	**-2.31**	**-21.91**	**-1.33**

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1.0D + 1.0W Service 90 deg	**12.00**	**00.00**	**0**	**1**	**-0.49**	**6.28**	**-0.36**
	12.00	**00.00**	**120**	**1a**	**-2.76**	**31.15**	**1.31**
	12.00	**00.00**	**240**	**1b**	**-2.13**	**-18.59**	**-0.95**
1.0D + 1.0W Service 120 deg	**12.00**	**00.00**	**0**	**1**	**-0.46**	**-8.88**	**1.28**
	12.00	**00.00**	**120**	**1a**	**-3.16**	**36.59**	**1.82**
	12.00	**00.00**	**240**	**1b**	**-1.34**	**-8.88**	**-0.24**
1.0D + 1.0W Service 180 deg	**12.00**	**00.00**	**0**	**1**	**0.00**	**-21.91**	**2.66**
	12.00	**00.00**	**120**	**1a**	**-1.42**	**20.37**	**1.30**
	12.00	**00.00**	**240**	**1b**	**1.42**	**20.37**	**1.30**
1.0D + 1.0W Service 210 deg	**12.00**	**00.00**	**0**	**1**	**0.24**	**-18.59**	**2.31**
	12.00	**00.00**	**120**	**1a**	**-0.07**	**6.28**	**0.61**
	12.00	**00.00**	**240**	**1b**	**2.51**	**31.15**	**1.73**
1.0D + 1.0W Service 240 deg	**12.00**	**00.00**	**0**	**1**	**0.46**	**-8.88**	**1.28**
	12.00	**00.00**	**120**	**1a**	**1.34**	**-8.88**	**-0.24**
	12.00	**00.00**	**240**	**1b**	**3.16**	**36.59**	**1.82**
1.0D + 1.0W Service 300 deg	**12.00**	**00.00**	**0**	**1**	**0.42**	**20.37**	**-1.88**
	12.00	**00.00**	**120**	**1a**	**2.31**	**-21.91**	**-1.33**
	12.00	**00.00**	**240**	**1b**	**1.83**	**20.37**	**0.58**
1.0D + 1.0W Service 330 deg	**12.00**	**00.00**	**0**	**1**	**0.25**	**31.15**	**-3.04**
	12.00	**00.00**	**120**	**1a**	**1.88**	**-18.59**	**-1.37**
	12.00	**00.00**	**240**	**1b**	**0.56**	**6.28**	**-0.25**

Max Uplift:	102.53 (kip)	Moment Ice:	672.46 (kip-ft)	Moment:	2,096.05 (kip-ft)	1.2D + 1.0W 120 deg	
Max Down:	124.01 (kip)	Total Down Ice:	50.97 (kip)	Total Down:	22.61 (kip)		
Max Shear:	12.97 (kip)	Total Shear Ice:	6.98 (kip)	Total Shear:	21.86 (kip)		

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Deflections and Rotations

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
117 mph Normal with No Ice	59.63	0.151	0.0079	0.4349	0.4349
117 mph Normal with No Ice	60.38	0.157	0.0079	0.4337	0.4337
117 mph Normal with No Ice	160.38	1.182	0.0252	1.2316	1.2316
117 mph Normal with No Ice	175.77	1.423	0.0242	0.9017	0.9020
117 mph 60 degree with No Ice	59.63	0.141	0.0083	0.3917	0.3917
117 mph 60 degree with No Ice	60.38	0.146	0.0082	0.3910	0.3910
117 mph 60 degree with No Ice	160.38	1.108	0.0209	1.1641	1.1641
117 mph 60 degree with No Ice	175.77	1.336	0.0213	0.8483	0.8486
117 mph 90 degree with No Ice	59.63	0.143	-0.0091	0.3904	0.3905
117 mph 90 degree with No Ice	60.38	0.149	-0.0091	0.3903	0.3903
117 mph 90 degree with No Ice	160.38	1.127	0.0263	1.1492	1.1492
117 mph 90 degree with No Ice	175.77	1.358	0.0261	0.8624	0.8628
117 mph 120 degree with No Ice	59.63	0.151	0.0084	0.4351	0.4351
117 mph 120 degree with No Ice	60.38	0.157	0.0084	0.4339	0.4339
117 mph 120 degree with No Ice	160.38	1.182	0.0234	1.2316	1.2316
117 mph 120 degree with No Ice	175.77	1.423	0.0223	0.9017	0.9019
117 mph 180 degree with No Ice	59.63	0.141	0.0079	0.3916	0.3916
117 mph 180 degree with No Ice	60.38	0.146	0.0078	0.3908	0.3908
117 mph 180 degree with No Ice	160.38	1.108	0.0227	1.1641	1.1641
117 mph 180 degree with No Ice	175.77	1.336	0.0232	0.8483	0.8486
117 mph 210 degree with No Ice	59.63	0.143	0.0046	0.3905	0.3905
117 mph 210 degree with No Ice	60.38	0.149	0.0046	0.3904	0.3904
117 mph 210 degree with No Ice	160.38	1.127	0.0264	1.1492	1.1492
117 mph 210 degree with No Ice	175.77	1.358	0.0261	0.8624	0.8628
117 mph 240 degree with No Ice	59.63	0.151	0.0082	0.4351	0.4351
117 mph 240 degree with No Ice	60.38	0.157	0.0082	0.4339	0.4339
117 mph 240 degree with No Ice	160.38	1.182	-0.0234	1.2316	1.2316
117 mph 240 degree with No Ice	175.77	1.423	-0.0223	0.9017	0.9019
117 mph 300 degree with No Ice	59.63	0.141	0.0082	0.3917	0.3917
117 mph 300 degree with No Ice	60.38	0.146	0.0081	0.3910	0.3910
117 mph 300 degree with No Ice	160.38	1.108	-0.0209	1.1641	1.1641
117 mph 300 degree with No Ice	175.77	1.336	-0.0213	0.8483	0.8486
117 mph 330 degree with No Ice	59.63	0.143	0.0050	0.3903	0.3904
117 mph 330 degree with No Ice	60.38	0.149	0.0050	0.3902	0.3902
117 mph 330 degree with No Ice	160.38	1.127	0.0265	1.1492	1.1493
117 mph 330 degree with No Ice	175.77	1.358	0.0261	0.8624	0.8628
117 mph Normal with No Ice (Reduced DL)	59.63	0.151	0.0079	0.4345	0.4345
117 mph Normal with No Ice (Reduced DL)	60.38	0.157	0.0079	0.4332	0.4332
117 mph Normal with No Ice (Reduced DL)	160.38	1.179	0.0250	1.2277	1.2277
117 mph Normal with No Ice (Reduced DL)	175.77	1.420	0.0240	0.8992	0.8995
117 mph 60 deg with No Ice (Reduced DL)	59.63	0.141	0.0084	0.3911	0.3911
117 mph 60 deg with No Ice (Reduced DL)	60.38	0.146	0.0083	0.3903	0.3903
117 mph 60 deg with No Ice (Reduced DL)	160.38	1.106	0.0208	1.1593	1.1593
117 mph 60 deg with No Ice (Reduced DL)	175.77	1.333	0.0211	0.8460	0.8462
117 mph 90 deg with No Ice (Reduced DL)	59.63	0.143	-0.0092	0.3900	0.3900
117 mph 90 deg with No Ice (Reduced DL)	60.38	0.148	-0.0091	0.3898	0.3899
117 mph 90 deg with No Ice (Reduced DL)	160.38	1.124	0.0261	1.1448	1.1449
117 mph 90 deg with No Ice (Reduced DL)	175.77	1.355	0.0259	0.8600	0.8604
117 mph 120 deg with No Ice (Reduced DL)	59.63	0.151	0.0084	0.4346	0.4346
117 mph 120 deg with No Ice (Reduced DL)	60.38	0.157	0.0084	0.4333	0.4333
117 mph 120 deg with No Ice (Reduced DL)	160.38	1.179	0.0232	1.2277	1.2277
117 mph 120 deg with No Ice (Reduced DL)	175.77	1.420	0.0222	0.8992	0.8994
117 mph 180 deg with No Ice (Reduced DL)	59.63	0.141	0.0079	0.3909	0.3909
117 mph 180 deg with No Ice (Reduced DL)	60.38	0.146	0.0078	0.3902	0.3902
117 mph 180 deg with No Ice (Reduced DL)	160.38	1.106	0.0226	1.1593	1.1593

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117 mph 180 deg with No Ice (Reduced DL)	175.77	1.333	0.0230	0.8460	0.8463
117 mph 210 deg with No Ice (Reduced DL)	59.63	0.143	0.0046	0.3901	0.3901
117 mph 210 deg with No Ice (Reduced DL)	60.38	0.148	0.0046	0.3899	0.3899
117 mph 210 deg with No Ice (Reduced DL)	160.38	1.124	0.0262	1.1448	1.1449
117 mph 210 deg with No Ice (Reduced DL)	175.77	1.355	0.0259	0.8600	0.8604
117 mph 240 deg with No Ice (Reduced DL)	59.63	0.151	0.0083	0.4346	0.4346
117 mph 240 deg with No Ice (Reduced DL)	60.38	0.157	0.0082	0.4333	0.4333
117 mph 240 deg with No Ice (Reduced DL)	160.38	1.179	-0.0232	1.2277	1.2277
117 mph 240 deg with No Ice (Reduced DL)	175.77	1.420	-0.0222	0.8992	0.8994
117 mph 300 deg with No Ice (Reduced DL)	59.63	0.141	0.0082	0.3911	0.3911
117 mph 300 deg with No Ice (Reduced DL)	60.38	0.146	0.0081	0.3903	0.3903
117 mph 300 deg with No Ice (Reduced DL)	160.38	1.106	-0.0208	1.1593	1.1593
117 mph 300 deg with No Ice (Reduced DL)	175.77	1.333	-0.0211	0.8460	0.8462
117 mph 330 deg with No Ice (Reduced DL)	59.63	0.143	0.0050	0.3899	0.3899
117 mph 330 deg with No Ice (Reduced DL)	60.38	0.148	0.0050	0.3897	0.3897
117 mph 330 deg with No Ice (Reduced DL)	160.38	1.124	0.0263	1.1448	1.1448
117 mph 330 deg with No Ice (Reduced DL)	175.77	1.355	0.0259	0.8600	0.8604
50 mph Normal with 1.00 in Radial Ice	59.63	0.049	0.0040	0.1368	0.1368
50 mph Normal with 1.00 in Radial Ice	60.38	0.050	0.0040	0.1331	0.1331
50 mph Normal with 1.00 in Radial Ice	160.38	0.371	0.0001	0.3582	0.3582
50 mph Normal with 1.00 in Radial Ice	175.77	0.445	0.0006	0.2752	0.2752
50 mph 60 deg with 1.00 in Radial Ice	59.63	0.048	0.0042	0.1370	0.1370
50 mph 60 deg with 1.00 in Radial Ice	60.38	0.050	0.0042	0.1399	0.1399
50 mph 60 deg with 1.00 in Radial Ice	160.38	0.358	-0.0007	0.3546	0.3546
50 mph 60 deg with 1.00 in Radial Ice	175.77	0.429	-0.0010	0.2651	0.2651
50 mph 90 deg with 1.00 in Radial Ice	59.63	0.048	-0.0048	0.1316	0.1316
50 mph 90 deg with 1.00 in Radial Ice	60.38	0.050	-0.0048	0.1345	0.1345
50 mph 90 deg with 1.00 in Radial Ice	160.38	0.361	-0.0008	0.3478	0.3478
50 mph 90 deg with 1.00 in Radial Ice	175.77	0.432	-0.0011	0.2674	0.2674
50 mph 120 deg with 1.00 in Radial Ice	59.63	0.049	0.0042	0.1363	0.1363
50 mph 120 deg with 1.00 in Radial Ice	60.38	0.050	0.0042	0.1326	0.1326
50 mph 120 deg with 1.00 in Radial Ice	160.38	0.369	-0.0007	0.3557	0.3557
50 mph 120 deg with 1.00 in Radial Ice	175.77	0.442	-0.0010	0.2733	0.2733
50 mph 180 deg with 1.00 in Radial Ice	59.63	0.048	0.0041	0.1370	0.1370
50 mph 180 deg with 1.00 in Radial Ice	60.38	0.050	0.0041	0.1399	0.1399
50 mph 180 deg with 1.00 in Radial Ice	160.38	0.358	0.0006	0.3546	0.3546
50 mph 180 deg with 1.00 in Radial Ice	175.77	0.429	0.0009	0.2651	0.2651
50 mph 210 deg with 1.00 in Radial Ice	59.63	0.048	0.0023	0.1315	0.1316
50 mph 210 deg with 1.00 in Radial Ice	60.38	0.050	0.0024	0.1345	0.1345
50 mph 210 deg with 1.00 in Radial Ice	160.38	0.361	0.0003	0.3478	0.3478
50 mph 210 deg with 1.00 in Radial Ice	175.77	0.432	0.0006	0.2674	0.2674
50 mph 240 deg with 1.00 in Radial Ice	59.63	0.049	0.0042	0.1363	0.1363
50 mph 240 deg with 1.00 in Radial Ice	60.38	0.050	0.0042	0.1326	0.1326
50 mph 240 deg with 1.00 in Radial Ice	160.38	0.369	0.0007	0.3557	0.3557
50 mph 240 deg with 1.00 in Radial Ice	175.77	0.442	0.0010	0.2733	0.2733
50 mph 300 deg with 1.00 in Radial Ice	59.63	0.048	0.0041	0.1370	0.1370
50 mph 300 deg with 1.00 in Radial Ice	60.38	0.050	0.0041	0.1399	0.1399
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50 mph 330 deg with 1.00 in Radial Ice	60.38	0.050	0.0024	0.1345	0.1345
50 mph 330 deg with 1.00 in Radial Ice	160.38	0.361	0.0005	0.3478	0.3478
50 mph 330 deg with 1.00 in Radial Ice	175.77	0.432	0.0006	0.2674	0.2674
Seismic Normal M1	59.63	0.007	0.0006	0.0169	0.0169
Seismic Normal M1	60.38	0.007	0.0006	0.0171	0.0171
Seismic Normal M1	160.38	0.064	0.0002	0.0830	0.0830
Seismic Normal M1	175.77	0.080	0.0002	0.0594	0.0594
Seismic 60 deg M1	59.63	0.007	0.0006	0.0180	0.0180
Seismic 60 deg M1	60.38	0.007	0.0006	0.0178	0.0178
Seismic 60 deg M1	160.38	0.064	-0.0003	0.0853	0.0853
Seismic 60 deg M1	175.77	0.080	-0.0002	0.0594	0.0594
Seismic 90 deg M1	59.63	0.007	-0.0007	0.0173	0.0173

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Seismic 90 deg M1	60.38	0.007	-0.0007	0.0172	0.0172
Seismic 90 deg M1	160.38	0.064	-0.0003	0.0824	0.0824
Seismic 90 deg M1	175.77	0.080	-0.0002	0.0595	0.0595
Seismic 120 deg M1	59.63	0.007	0.0006	0.0169	0.0169
Seismic 120 deg M1	60.38	0.007	0.0006	0.0171	0.0171
Seismic 120 deg M1	160.38	0.064	-0.0002	0.0830	0.0830
Seismic 120 deg M1	175.77	0.080	-0.0002	0.0594	0.0594
Seismic 180 deg M1	59.63	0.007	0.0006	0.0180	0.0180
Seismic 180 deg M1	60.38	0.007	0.0006	0.0178	0.0178
Seismic 180 deg M1	160.38	0.064	0.0002	0.0853	0.0853
Seismic 180 deg M1	175.77	0.080	0.0002	0.0594	0.0594
Seismic 210 deg M1	59.63	0.007	0.0003	0.0173	0.0173
Seismic 210 deg M1	60.38	0.007	0.0004	0.0172	0.0172
Seismic 210 deg M1	160.38	0.064	0.0001	0.0824	0.0824
Seismic 210 deg M1	175.77	0.080	0.0001	0.0595	0.0595
Seismic 240 deg M1	59.63	0.007	0.0006	0.0169	0.0169
Seismic 240 deg M1	60.38	0.007	0.0006	0.0171	0.0171
Seismic 240 deg M1	160.38	0.064	0.0002	0.0830	0.0830
Seismic 240 deg M1	175.77	0.080	0.0002	0.0594	0.0594
Seismic 300 deg M1	59.63	0.007	0.0006	0.0180	0.0180
Seismic 300 deg M1	60.38	0.007	0.0006	0.0178	0.0178
Seismic 300 deg M1	160.38	0.064	0.0003	0.0853	0.0853
Seismic 300 deg M1	175.77	0.080	0.0002	0.0594	0.0594
Seismic 330 deg M1	59.63	0.007	0.0003	0.0173	0.0173
Seismic 330 deg M1	60.38	0.007	0.0004	0.0172	0.0172
Seismic 330 deg M1	160.38	0.064	0.0001	0.0824	0.0824
Seismic 330 deg M1	175.77	0.080	0.0001	0.0595	0.0595
Seismic (Reduced DL) Normal M1	59.63	0.007	0.0006	0.0170	0.0170
Seismic (Reduced DL) Normal M1	60.38	0.007	0.0006	0.0172	0.0172
Seismic (Reduced DL) Normal M1	160.38	0.064	0.0002	0.0830	0.0830
Seismic (Reduced DL) Normal M1	175.77	0.080	0.0002	0.0592	0.0592
Seismic (Reduced DL) 60 deg M1	59.63	0.007	0.0006	0.0178	0.0178
Seismic (Reduced DL) 60 deg M1	60.38	0.007	0.0006	0.0177	0.0177
Seismic (Reduced DL) 60 deg M1	160.38	0.064	-0.0003	0.0846	0.0846
Seismic (Reduced DL) 60 deg M1	175.77	0.080	-0.0002	0.0592	0.0592
Seismic (Reduced DL) 90 deg M1	59.63	0.007	-0.0007	0.0171	0.0171
Seismic (Reduced DL) 90 deg M1	60.38	0.007	-0.0007	0.0171	0.0171
Seismic (Reduced DL) 90 deg M1	160.38	0.064	-0.0003	0.0818	0.0818
Seismic (Reduced DL) 90 deg M1	175.77	0.080	-0.0002	0.0593	0.0593
Seismic (Reduced DL) 120 deg M1	59.63	0.007	0.0006	0.0170	0.0170
Seismic (Reduced DL) 120 deg M1	60.38	0.007	0.0006	0.0172	0.0172
Seismic (Reduced DL) 120 deg M1	160.38	0.064	-0.0002	0.0830	0.0830
Seismic (Reduced DL) 120 deg M1	175.77	0.080	-0.0002	0.0592	0.0592
Seismic (Reduced DL) 180 deg M1	59.63	0.007	0.0006	0.0178	0.0178
Seismic (Reduced DL) 180 deg M1	60.38	0.007	0.0006	0.0177	0.0177
Seismic (Reduced DL) 180 deg M1	160.38	0.064	0.0002	0.0846	0.0846
Seismic (Reduced DL) 180 deg M1	175.77	0.080	0.0002	0.0592	0.0592
Seismic (Reduced DL) 210 deg M1	59.63	0.007	0.0003	0.0171	0.0171
Seismic (Reduced DL) 210 deg M1	60.38	0.007	0.0004	0.0171	0.0171
Seismic (Reduced DL) 210 deg M1	160.38	0.064	0.0001	0.0818	0.0818
Seismic (Reduced DL) 210 deg M1	175.77	0.080	0.0001	0.0593	0.0593
Seismic (Reduced DL) 240 deg M1	59.63	0.007	0.0006	0.0170	0.0170
Seismic (Reduced DL) 240 deg M1	60.38	0.007	0.0006	0.0172	0.0172
Seismic (Reduced DL) 240 deg M1	160.38	0.064	0.0002	0.0830	0.0830
Seismic (Reduced DL) 240 deg M1	175.77	0.080	0.0002	0.0592	0.0592
Seismic (Reduced DL) 300 deg M1	59.63	0.007	0.0006	0.0178	0.0178
Seismic (Reduced DL) 300 deg M1	60.38	0.007	0.0006	0.0177	0.0177
Seismic (Reduced DL) 300 deg M1	160.38	0.064	0.0003	0.0846	0.0846
Seismic (Reduced DL) 300 deg M1	175.77	0.080	0.0002	0.0592	0.0592
Seismic (Reduced DL) 330 deg M1	59.63	0.007	0.0003	0.0171	0.0171
Seismic (Reduced DL) 330 deg M1	60.38	0.007	0.0004	0.0171	0.0171
Seismic (Reduced DL) 330 deg M1	160.38	0.064	0.0001	0.0818	0.0818

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Seismic (Reduced DL) 330 deg M1	175.77	0.080	0.0001	0.0593	0.0593
Serviceability - 60 mph Wind Normal	59.63	0.039	0.0032	0.1114	0.1114
Serviceability - 60 mph Wind Normal	60.38	0.041	0.0033	0.1113	0.1113
Serviceability - 60 mph Wind Normal	160.38	0.306	0.0002	0.3166	0.3166
Serviceability - 60 mph Wind Normal	175.77	0.369	0.0006	0.2334	0.2334
Serviceability - 60 mph Wind 60 deg	59.63	0.037	0.0031	0.1035	0.1035
Serviceability - 60 mph Wind 60 deg	60.38	0.038	0.0031	0.1031	0.1031
Serviceability - 60 mph Wind 60 deg	160.38	0.287	-0.0004	0.3028	0.3028
Serviceability - 60 mph Wind 60 deg	175.77	0.346	-0.0006	0.2193	0.2193
Serviceability - 60 mph Wind 90 deg	59.63	0.037	-0.0036	0.1006	0.1006
Serviceability - 60 mph Wind 90 deg	60.38	0.039	-0.0036	0.1005	0.1005
Serviceability - 60 mph Wind 90 deg	160.38	0.292	-0.0004	0.2987	0.2987
Serviceability - 60 mph Wind 90 deg	175.77	0.352	-0.0007	0.2231	0.2231
Serviceability - 60 mph Wind 120 deg	59.63	0.039	0.0033	0.1115	0.1115
Serviceability - 60 mph Wind 120 deg	60.38	0.041	0.0033	0.1114	0.1114
Serviceability - 60 mph Wind 120 deg	160.38	0.306	-0.0003	0.3166	0.3166
Serviceability - 60 mph Wind 120 deg	175.77	0.369	-0.0007	0.2334	0.2334
Serviceability - 60 mph Wind 180 deg	59.63	0.037	0.0030	0.1034	0.1034
Serviceability - 60 mph Wind 180 deg	60.38	0.038	0.0030	0.1030	0.1030
Serviceability - 60 mph Wind 180 deg	160.38	0.287	0.0003	0.3028	0.3028
Serviceability - 60 mph Wind 180 deg	175.77	0.346	0.0005	0.2193	0.2193
Serviceability - 60 mph Wind 210 deg	59.63	0.037	0.0018	0.1006	0.1006
Serviceability - 60 mph Wind 210 deg	60.38	0.039	0.0018	0.1005	0.1005
Serviceability - 60 mph Wind 210 deg	160.38	0.292	0.0001	0.2987	0.2987
Serviceability - 60 mph Wind 210 deg	175.77	0.352	0.0003	0.2231	0.2231
Serviceability - 60 mph Wind 240 deg	59.63	0.039	0.0033	0.1115	0.1115
Serviceability - 60 mph Wind 240 deg	60.38	0.041	0.0033	0.1114	0.1114
Serviceability - 60 mph Wind 240 deg	160.38	0.306	0.0003	0.3166	0.3166
Serviceability - 60 mph Wind 240 deg	175.77	0.369	0.0007	0.2334	0.2334
Serviceability - 60 mph Wind 300 deg	59.63	0.037	0.0031	0.1035	0.1035
Serviceability - 60 mph Wind 300 deg	60.38	0.038	0.0031	0.1031	0.1031
Serviceability - 60 mph Wind 300 deg	160.38	0.287	0.0004	0.3028	0.3028
Serviceability - 60 mph Wind 300 deg	175.77	0.346	0.0006	0.2193	0.2193
Serviceability - 60 mph Wind 330 deg	59.63	0.037	0.0018	0.1006	0.1006
Serviceability - 60 mph Wind 330 deg	60.38	0.039	0.0018	0.1005	0.1005
Serviceability - 60 mph Wind 330 deg	160.38	0.292	0.0002	0.2987	0.2987
Serviceability - 60 mph Wind 330 deg	175.77	0.352	0.0004	0.2231	0.2231

Maximum Reactions Summary

	Vertical (kip)				Horizontal (kip)		Moment (kip-ft)	
Anchor Group	DL+WL	DL+WL+IL	UpLift	Shear	DL+WL	DL+WL+IL	DL+WL	DL+WL+IL
Base	22.61	50.97	124.01	12.97	21.86	6.98	2096.05	672.46

Exhibit D

Mount Analysis

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1033 WATERVLIET SHAKER RD, ALBANY, NY 12205

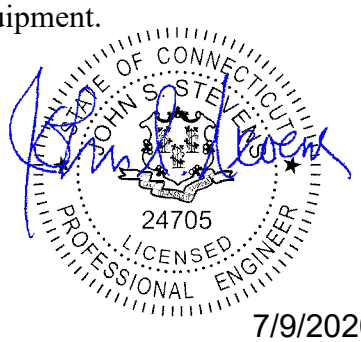
Mount Analysis Report

July 9, 2020

T-Mobile Site Name	CT477/General Comm. SST
T-Mobile Site Number	CT11477B
ATC Site Name	Levesque CT, CT
ATC Site Number	275375
ATC Engineering Number	13251811_C8_03
Infinigy Job Number	1009-Z0003-B
Client	ATC
Carrier	T-Mobile
Site Location	1140 Wolcott Road Wolcott, CT 06716 New Haven County 41.6176 N NAD83 72.9746 W NAD83
Mount Centerline EL.	162.0 ft
Mount Type	Sector Frame
Structural Usage Ratio	**71.0%**
Overall Result	**Pass**

Upon reviewing the results of this analysis, it is our opinion that the existing sector frame 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.

- Reinforcement described in the mount analysis report by CLS Project #41124-12948429-01-MA, dated 7/31/19 was assumed to be installed. Reinforcements must be installed prior to installation of proposed equipment.



7/9/2020

Pradin Suinyal Magar, M.S.
Project Engineer I

Contents

Introduction

Infinigy Engineering has been requested to perform a mount analysis on the existing 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 17.0.4 analysis software.

Supporting Documentation

Collocation Application	Collo App ID #375128, dated June 23, 2020
RFDS	T-Mobile Site ID CT11477B, dated May 19, 2020
Structural Report	ATC Engineering #12948429_C3_02, dated August 20, 2019
Previous Mount Analysis	CLS Engineering PLLC Project #41124-12948429-01-MA, dated July 31, 2019
Site Photos	ATC Provided, dated April 23, 2019

Analysis Code Requirements

Wind Speed	117 mph (3-Second Gust)
Wind Speed w/ Ice	50 mph (3 Second Gust) w/ 1" Ice
TIA Revision	ANSI/TIA-222-H
Risk Category	II
Exposure Category	B
Topographic Factor Procedure	Method 1
Topographic Category	1
Calculated Crest Height (H)	0 ft
Spectral Response	S_s = 0.191 g, S_1 = 0.054 g
Site Class	D - Stiff Soil (Assumed)
HMSL	993 ft.

Conclusion

Upon reviewing the results of this analysis, it is our opinion that the existing sector frame 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.

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:

Pradin Suinyal Magar, M.S.
Project Engineer I | **INFINIGY**
1517 Old Apex Road, Cary, NC 27513
(O) (518) 690-0813
pmagar@infinigy.com | www.infinigy.com

Final Configuration Loading

Mount CL (ft)	Vert. O/S (ft)	Rad. HT (ft)	Horiz. O/S (ft)*	Qty	Appurtenance	Carrier
162.0	0.0	162.0	0.5	3	ERICSSON AIR32 B66AA B2A	T-Mobile
			4.3	3	ERICSSON AIR6449 B41	
			11.5	3	ERICSSON ERICSSON AIR 21, 1.3M, B2A B4P	
			7.3	3	RFS/CELWAVE APXVAARR24_43-U-NA20	
			11.5	3	ERICSSO KRY 112 144/1	
			4.3	3	ERICSSON RRUS 4415 B25	
			4.3	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

Horizontals	67.8%	Pass
Standoffs	28.0%	Pass
Mount Pipes	71.0%	Pass
Tieback	12.3%	Pass
Max Usage	**71.0%**	**Pass**

Mount Connection Usages

Reaction Data	Design Capacity*	Analysis Reactions	Results
Max Tension (lbs.)	6,385.4	3,736.9	58.5%
Max Shear (lbs.)	4,417.9	356.0	8.1%
Unity Check	-	-	0.35

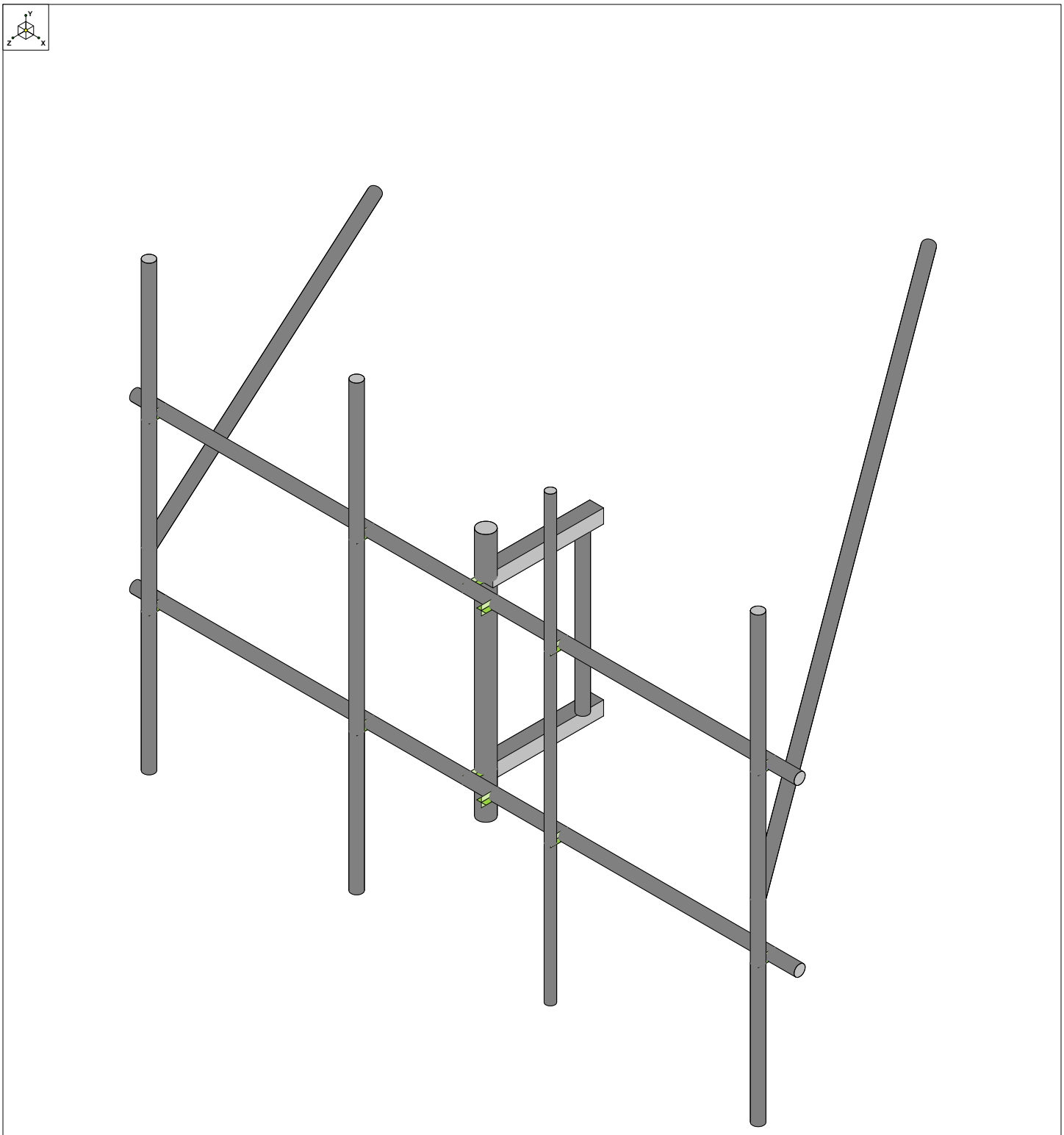
***Assumed (4) 0.5" A307 Threaded Rods. Contractor to field verify prior to proposed installation.**

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.



Envelope Only Solution

Infinigy Engineering, PLLC	Levesque CT, CT	Final Configuration
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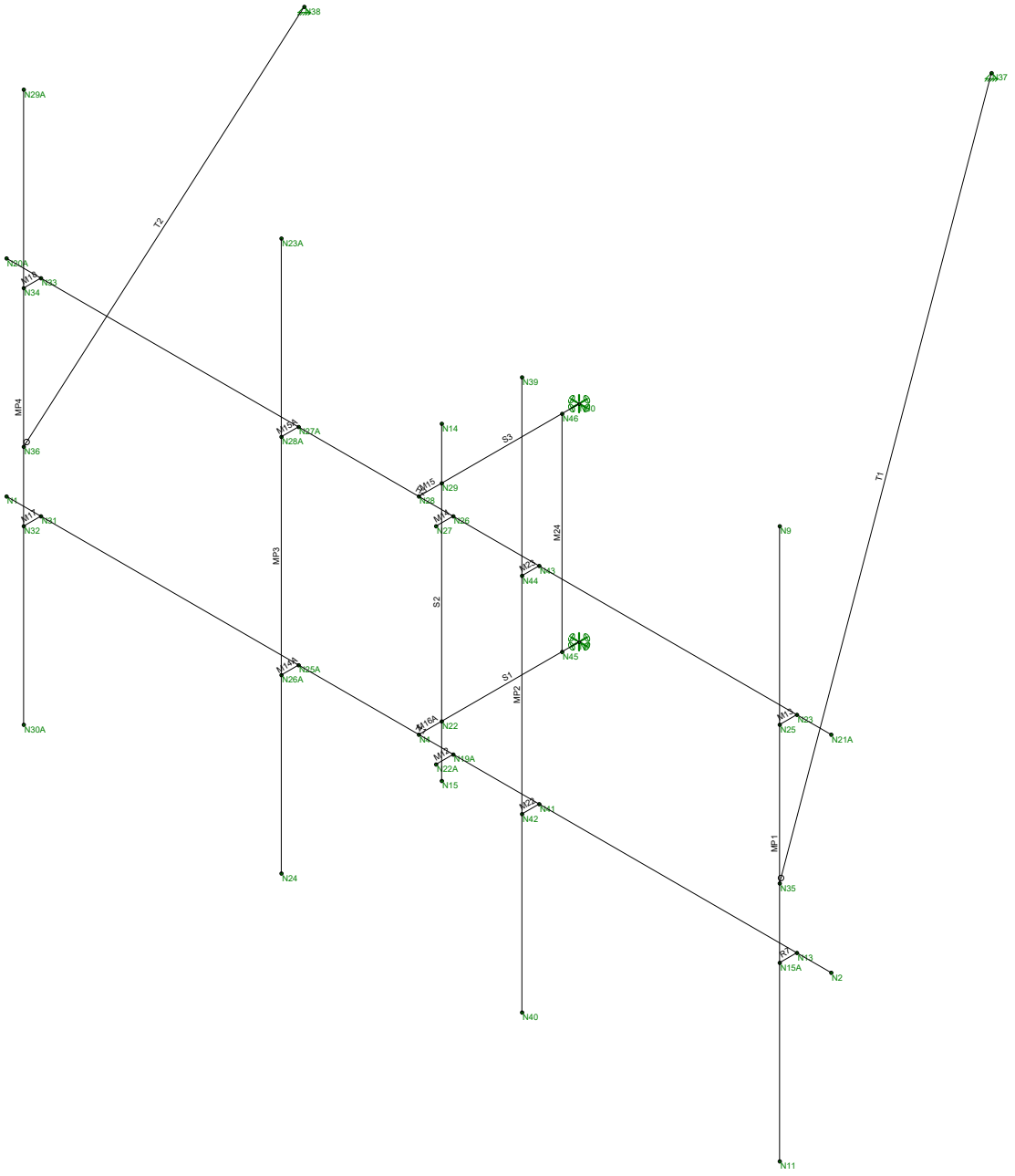

Envelope Only Solution

Infinigy Engineering, PLLC	Levesque CT, CT	WireFrame
PSM		July 9, 2020 at 10:26 AM
1009-Z0003-B		275375_loaded.r3d

Program Inputs

PROJECT INFORMATION	
Client:	ATC
Carrier:	T-Mobile
Engineer:	Pradin Suinyal Magar, M.S

SITE INFORMATION		
Risk Category:	II	
Exposure Category:	B	
Topo Factor Procedure:	Method 1, Category 1	
Site Class:	D - Stiff Soil	
Ground Elevation:	993	ft *Rev H

MOUNT INFORMATION		
Mount Type:	Sector Frame	
Num Sectors:	3	
Centerline AGL:	162.0	ft
Tower Height AGL:	180.0	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):	0.96	*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}):	117	mph
Design Wind (V):	N/A	mph
Ice Wind (V_{ice}):	50	mph
Base Ice Thickness (t_i):	1	in
Flat Pressure:	72.86	psf
Round Pressure:	43.71	psf
Ice Wind Pressure:	7.98	psf

SEISMIC DATA		
Short-Period Accel. (S_s):	0.19	g
1-Second Accel. (S_1):	0.05	g
Short-Period Design (S_{DS}):	0.20	
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	

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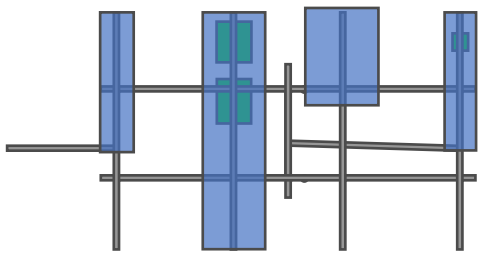
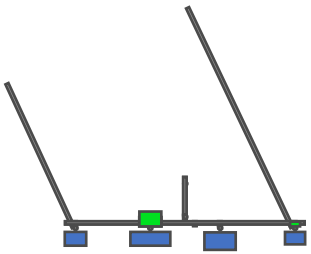
Infinigy Load Calculator V2.1.4

Program Inputs

ELEVATION VIEW



PLAN VIEW



INFINIGY
FROM ZERO TO INFINIGY
the solutions are endless

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 AIR32 B66AA B2A	162.0	3	0.90	36.43	6.51	4.71	213.43	154.50	105.80	10.78	MP4
ERICSSON AIR6449 B41	162.0	3	0.90	36.43	5.68	2.49	186.29	81.66	104.00	10.59	MP2
ICSSON ERICSSON AIR 21, 1.3M, B2A B4	162.0	3	0.90	36.43	6.08	4.29	199.31	140.57	91.49	9.32	MP1
RFS/CELWAVE APXVAARR24_43-U-NA2(	162.0	3	0.90	36.43	14.69	6.87	481.74	225.35	96.80	9.86	MP3
ERICSSON TME-KRY 112 144/1	162.0	3	0.90	36.43	0.35	0.18	11.48	5.74	11.00	1.12	MP1
ERICSSON TME-RRUS 4415 B25	162.0	3	0.90	36.43	1.84	0.82	60.41	26.89	46.00	4.69	MP3
ERICSSON TME-RADIO 4449 B71 B85A	162.0	3	0.90	36.43	1.98	1.41	64.92	46.23	70.00	7.13	MP3

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(...	Section/Shape	Type	Design List	Material	Design Rules
1	H1	N1	N2			Horizontal Pipe	None	None	A53 Gr.B	Typical
2	MP1	N9	N11			Mount Pipe 2.0	None	None	A53 Gr.B	Typical
3	S2	N14	N15			Standoff Pipe	None	None	A53 Gr.B	Typical
4	M16A	N4	N22			RIGID	None	None	RIGID	Typical
5	R7	N15A	N13			RIGID	None	None	RIGID	Typical
6	S1	N7	N22			Standoff Tube	None	None	A500 Gr.B Rect	Typical
7	M12	N22A	N19A			RIGID	None	None	RIGID	Typical
8	H2	N20A	N21A			Horizontal Pipe	None	None	A53 Gr.B	Typical
9	M13	N25	N23			RIGID	None	None	RIGID	Typical
10	M14	N27	N26			RIGID	None	None	RIGID	Typical
11	M15	N28	N29			RIGID	None	None	RIGID	Typical
12	S3	N30	N29			Standoff Tube	None	None	A500 Gr.B Rect	Typical
13	MP3	N23A	N24			Mount Pipe 2.0	None	None	A53 Gr.B	Typical
14	M14A	N26A	N25A			RIGID	None	None	RIGID	Typical
15	M15A	N28A	N27A			RIGID	None	None	RIGID	Typical
16	MP4	N29A	N30A			Mount Pipe 2.0	None	None	A53 Gr.B	Typical
17	M17	N32	N31			RIGID	None	None	RIGID	Typical
18	M18	N34	N33			RIGID	None	None	RIGID	Typical
19	T2	N36	N38			Tieback	None	None	A53 Gr.B	Typical
20	T1	N35	N37			Tieback	None	None	A53 Gr.B	Typical
21	MP2	N39	N40			Mount Pipe 1.5	None	None	A53 Gr.B	Typical
22	M22	N42	N41			RIGID	None	None	RIGID	Typical
23	M23	N44	N43			RIGID	None	None	RIGID	Typical
24	M24	N45	N46			Standoff Pipe 2.0	None	None	A53 Gr.B	Typical

Material Takeoff

	Material	Size	Pieces	Length[in]	Weight[LB]
1	General				
2	RIGID		12	38	0
3	Total General		12	38	0
4					
5	Hot Rolled Steel				
6	A500 Gr.B Rect	HSS3X3X3	2	48	27.667
7	A53 Gr.B	PIPE_1.5	1	96	20.389
8	A53 Gr.B	PIPE_2.0	8	866.1	250.511
9	A53 Gr.B	PIPE_3.0	1	54	31.697
10	Total HR Steel		12	1064.1	330.264

Basic Load Cases

	BLC Description	Category	X Gr...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Memb...	Surface(Plate/Wall)
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 1...	None					22			
7	Wind Load AZI 1...	None					22			
8	Wind Load AZI 1...	None					22			
9	Wind Load AZI 2...	None					22			
10	Wind Load AZI 2...	None					22			
11	Wind Load AZI 2...	None					22			
12	Wind Load AZI 3...	None					22			
13	Wind Load AZI 3...	None					22			
14	Distr. Wind Load Z	WLZ						24		
15	Distr. Wind Load X	WLX						24		
16	Ice Weight	OL1					11	24		
17	Ice Wind Load A...	OL2					22			
18	Ice Wind Load A...	None					22			
19	Ice Wind Load A...	None					22			
20	Ice Wind Load A...	OL3					22			
21	Ice Wind Load A...	None					22			
22	Ice Wind Load A...	None					22			
23	Ice Wind Load A...	None					22			
24	Ice Wind Load A...	None					22			
25	Ice Wind Load A...	None					22			
26	Ice Wind Load A...	None					22			
27	Ice Wind Load A...	None					22			
28	Ice Wind Load A...	None					22			
29	Distr. Ice Wind L...	OL2						24		
30	Distr. Ice Wind L...	OL3						24		
31	Seismic Load Z	ELZ			-.102		11			
32	Seismic Load X	ELX	-.102				11			
33	Service Live Loa...	LL				1				
34	Maintenance Loa...	LL				1				
35	Maintenance Loa...	LL				1				
36	Maintenance Loa...	LL				1				
37	Maintenance Loa...	LL				1				

Load Combinations

	Description	S...	P...	S...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1	1.4DL	Y...	Y		1	1.4																		
2	1.2DL + 1WL AZI 0	Y...	Y		1	1.2	2	1	14	1	15													
3	1.2DL + 1WL AZI 30	Y...	Y		1	1.2	3	1	14	.866	15	.5												
4	1.2DL + 1WL AZI 60	Y...	Y		1	1.2	4	1	14	.5	15	.866												
5	1.2DL + 1WL AZI 90	Y...	Y		1	1.2	5	1	14		15	1												
6	1.2DL + 1WL AZI 120	Y...	Y		1	1.2	6	1	14	-.5	15	.866												
7	1.2DL + 1WL AZI 150	Y...	Y		1	1.2	7	1	14	-.8...	15	.5												
8	1.2DL + 1WL AZI 180	Y...	Y		1	1.2	8	1	14	-1	15													
9	1.2DL + 1WL AZI 210	Y...	Y		1	1.2	9	1	14	-.8...	15	-.5												
10	1.2DL + 1WL AZI 240	Y...	Y		1	1.2	10	1	14	-.5	15	-.8...												
11	1.2DL + 1WL AZI 270	Y...	Y		1	1.2	11	1	14		15	-1												
12	1.2DL + 1WL AZI 300	Y...	Y		1	1.2	12	1	14	.5	15	-.8...												
13	1.2DL + 1WL AZI 330	Y...	Y		1	1.2	13	1	14	.866	15	-.5												
14	0.9DL + 1WL AZI 0	Y...	Y		1	.9	2	1	14	1	15													
15	0.9DL + 1WL AZI 30	Y...	Y		1	.9	3	1	14	.866	15	.5												
16	0.9DL + 1WL AZI 60	Y...	Y		1	.9	4	1	14	.5	15	.866												
17	0.9DL + 1WL AZI 90	Y...	Y		1	.9	5	1	14		15	1												
18	0.9DL + 1WL AZI 120	Y...	Y		1	.9	6	1	14	-.5	15	.866												
19	0.9DL + 1WL AZI 150	Y...	Y		1	.9	7	1	14	-.8...	15	.5												
20	0.9DL + 1WL AZI 180	Y...	Y		1	.9	8	1	14	-1	15													
21	0.9DL + 1WL AZI 210	Y...	Y		1	.9	9	1	14	-.8...	15	-.5												
22	0.9DL + 1WL AZI 240	Y...	Y		1	.9	10	1	14	-.5	15	-.8...												
23	0.9DL + 1WL AZI 270	Y...	Y		1	.9	11	1	14		15	-1												
24	0.9DL + 1WL AZI 300	Y...	Y		1	.9	12	1	14	.5	15	-.8...												
25	0.9DL + 1WL AZI 330	Y...	Y		1	.9	13	1	14	.866	15	-.5												
26	1.2D + 1.0Di	Y...	Y		1	1.2	16	1																
27	1.2D + 1.0Di +1.0Wi AZI 0	Y...	Y		1	1.2	16	1	17	1	29	1	30												
28	1.2D + 1.0Di +1.0Wi AZI 30	Y...	Y		1	1.2	16	1	18	1	29	.866	30	.5											
29	1.2D + 1.0Di +1.0Wi AZI 60	Y...	Y		1	1.2	16	1	19	1	29	.5	30	.866											
30	1.2D + 1.0Di +1.0Wi AZI 90	Y...	Y		1	1.2	16	1	20	1	29		30	1											
31	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	21	1	29	-.5	30	.866											
32	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	22	1	29	-.8...	30	.5											
33	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	23	1	29	-1	30												
34	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	24	1	29	-.8...	30	-.5											
35	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	25	1	29	-.5	30	-.8...											
36	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	26	1	29		30	-1											
37	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	27	1	29	.5	30	-.8...											
38	1.2D + 1.0Di +1.0Wi AZI ...	Y...	Y		1	1.2	16	1	28	1	29	.866	30	-.5											
39	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	1	32															
40	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	.866	32	.5														
41	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	.5	32	.866														

Load Combinations (Continued)

	Description	S...	P...	S...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
42	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31		32	1														
43	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	-.5	32	.866														
44	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	-.8...	32	.5														
45	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	-1	32															
46	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	-.8...	32	-.5														
47	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	-.5	32	-.8...														
48	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31		32	-1														
49	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	.5	32	-.8...														
50	(1.2 + 0.2Sds)DL + 1.0E ...	Y...	Y		1	1.2...	31	.866	32	-.5														
51	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	1	32															
52	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	.866	32	.5														
53	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	.5	32	.866														
54	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31		32	1														
55	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	-.5	32	.866														
56	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	-.8...	32	.5														
57	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	-1	32															
58	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	-.8...	32	-.5														
59	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	-.5	32	-.8...														
60	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31		32	-1														
61	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	.5	32	-.8...														
62	(0.9 - 0.2Sds)DL + 1.0E A...	Y...	Y		1	.859	31	.866	32	-.5														
63	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	2	.263	14	.263	15		33	1.5										
64	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	3	.263	14	.228	15	.131	33	1.5										
65	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	4	.263	14	.131	15	.228	33	1.5										
66	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	5	.263	14		15	.263	33	1.5										
67	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	6	.263	14	-.1...	15	.228	33	1.5										
68	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	7	.263	14	-.2...	15	.131	33	1.5										
69	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	8	.263	14	-.2...	15		33	1.5										
70	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	9	.263	14	-.2...	15	-.1...	33	1.5										
71	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	10	.263	14	-.1...	15	-.2...	33	1.5										
72	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	11	.263	14		15	-.2...	33	1.5										
73	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	12	.263	14	.131	15	-.2...	33	1.5										
74	1.0DL + 1.5LL + 1.0SWL ...	Y...	Y		1	1	13	.263	14	.228	15	-.1...	33	1.5										
75	1.2DL + 1.5LL	Y...	Y		1	1.2	33	1.5																
76	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	2	.066	14	.066	15											
77	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	3	.066	14	.057	15	.033										
78	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	4	.066	14	.033	15	.057										
79	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	5	.066	14		15	.066										
80	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	6	.066	14	-.0...	15	.057										
81	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	7	.066	14	-.0...	15	.033										
82	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	8	.066	14	-.0...	15											
83	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	9	.066	14	-.0...	15	-.0...										

Load Combinations (Continued)

	Description	S...	P...	S...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
84	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	10	.066	14	-.0...	15	-.0...										
85	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	11	.066	14		15	-.0...										
86	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	12	.066	14	.033	15	-.0...										
87	1.2DL + 1.5LM-MP1 + 1S...	Y...	Y		1	1.2	34	1.5	13	.066	14	.057	15	-.0...										
88	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	2	.066	14	.066	15											
89	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	3	.066	14	.057	15	.033										
90	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	4	.066	14	.033	15	.057										
91	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	5	.066	14		15	.066										
92	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	6	.066	14	-.0...	15	.057										
93	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	7	.066	14	-.0...	15	.033										
94	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	8	.066	14	-.0...	15											
95	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	9	.066	14	-.0...	15	-.0...										
96	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	10	.066	14	-.0...	15	-.0...										
97	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	11	.066	14		15	-.0...										
98	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	12	.066	14	.033	15	-.0...										
99	1.2DL + 1.5LM-MP2 + 1S...	Y...	Y		1	1.2	35	1.5	13	.066	14	.057	15	-.0...										
100	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	2	.066	14	.066	15											
101	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	3	.066	14	.057	15	.033										
102	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	4	.066	14	.033	15	.057										
103	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	5	.066	14		15	.066										
104	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	6	.066	14	-.0...	15	.057										
105	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	7	.066	14	-.0...	15	.033										
106	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	8	.066	14	-.0...	15											
107	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	9	.066	14	-.0...	15	-.0...										
108	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	10	.066	14	-.0...	15	-.0...										
109	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	11	.066	14		15	-.0...										
110	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	12	.066	14	.033	15	-.0...										
111	1.2DL + 1.5LM-MP3 + 1S...	Y...	Y		1	1.2	36	1.5	13	.066	14	.057	15	-.0...										
112	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	2	.066	14	.066	15											
113	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	3	.066	14	.057	15	.033										
114	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	4	.066	14	.033	15	.057										
115	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	5	.066	14		15	.066										
116	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	6	.066	14	-.0...	15	.057										
117	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	7	.066	14	-.0...	15	.033										
118	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	8	.066	14	-.0...	15											
119	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	9	.066	14	-.0...	15	-.0...										
120	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	10	.066	14	-.0...	15	-.0...										
121	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	11	.066	14		15	-.0...										
122	1.2DL + 1.5LM-MP4 + 1S...	Y...	Y		1	1.2	37	1.5	12	.066	14	.033	15	-.0...										

Envelope Joint Reactions

	Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	L...	MX [lb-ft]	LC	MY [lb-ft]	LC	MZ [lb-ft]	LC
1	N7	m... 703....	80	1047.444	34	977.4...	38	-288.082	14	0	122	961.467	84
2		m... -780....	110	330.676	14	267.38	16	-1169.644	33	0	1	-1061.31	102
3	N30	m... 799....	104	1050.504	27	769.7...	14	-385.035	21	0	122	959.939	84
4		m... -723....	86	324.563	20	-1543....	8	-1158.283	27	0	1	-1058.992	102
5	N37	m... 194....	25	60.873	32	480.6...	25	0	122	0	122	0	122
6		m... -190....	19	12.728	25	-478.6...	19	0	1	0	1	0	1
7	N38	m... 241....	15	39.008	34	503.1...	15	0	122	0	122	0	122
8		m... -242....	21	11.81	16	-500.3...	21	0	1	0	1	0	1
9	Totals:	m... 1266...	5	2187.024	36	1850....	14						
10		m... -126...	11	734.966	54	-1850....	8						

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

	Member	Shape	Code Check	Loc[in]	LC	She...	Loc[in]	Dir	LC	phi*Pn...	phi*Pn...	phi*M...	phi*Mn ...	Cb	Eqn
1	MP2	PIPE_1.5	.710	30	83	.138	30		8	7182....	23593...	1105....	1105.125	4.9...	H1-1b
2	H2	PIPE_2.0	.678	72	7	.297	72		2	6830.97	32130	1871....	1871.625	1.7...	H1-1b
3	H1	PIPE_2.0	.658	72	81	.158	51		8	6830.97	32130	1871....	1871.625	1.7...	H1-1b
4	MP3	PIPE_2.0	.572	30	105	.120	30		9	14916...	32130	1871....	1871.625	4.8...	H1-1b
5	MP1	PIPE_2.0	.538	30	86	.119	54		13	14916...	32130	1871....	1871.625	4.8...	H1-1b
6	MP4	PIPE_2.0	.497	30	104	.132	54		3	14916...	32130	1871....	1871.625	4.9...	H1-1b
7	S3	HSS3X...	.280	24	104	.225	0	y	102	75951...	78246	6796.5	6796.5	2.0...	H1-1b
8	S1	HSS3X...	.280	24	110	.225	0	y	102	75951...	78246	6796.5	6796.5	2.0...	H1-1b
9	S2	PIPE_3.0	.189	9	33	.234	9		104	58506...	65205	5748.75	5748.75	1.8...	H1-1b
10	T1	PIPE_2.0	.123	76.943	12	.006	153.886		30	5981....	32130	1871....	1871.625	1.1...	H1-1b
11	M24	PIPE_2.0	.106	0	102	.230	0		102	28843...	32130	1871....	1871.625	2.2...	H3-6
12	T2	PIPE_2.0	.050	50.112	5	.004	0		36	13921...	32130	1871....	1871.625	1.1...	H1-1b

INFINIGY

FROM ZERO TO INFINIGY

the solutions are endless

Bolt Calculation Tool, V1.4

PROJECT DATA	
Site Name:	Levesque CT, CT
Site Number:	275375
Job Code:	1009-Z0003-B
Connection Description:	Standoff To Leg

APPLIED LOADS		
Bolt Tension:	3736.85	lbs
Bolt Shear:	356.03	lbs

BOLT PROPERTIES		
Bolt Type:	Threaded Rod	-
Bolt Diameter:	0.5	in
Bolt Grade:	A307	-
# of Threaded Rods:	4	-
Threads Excluded?	No	-

BOLT CHECK		
Tensile Strength	6385.43	
Shear Strength	4417.86	
Tensile Usage	58.5%	
Shear Usage	8.1%	
Interaction Check	0.35	***≤1.05***
Result	Pass	

Exhibit E

Power Density/RF Emissions Report

EBI Consulting

environmental | engineering | due diligence

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

T-Mobile Existing Facility

Site ID: CT11477B

CT477/General Comm. SST
1140 Wolcott Road
Wolcott, Connecticut 06716

August 18, 2020

EBI Project Number: 6220004027

Site Compliance Summary	
Compliance Status:	**COMPLIANT**
Site total MPE% of FCC general population allowable limit:	**10.39%**

21 B Street, Burlington, MA 01803 · Tel: (781) 273.2500 · Fax: (781) 273.3311

August 18, 2020

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

Emissions Analysis for Site: CT11477B - CT477/General Comm. SST

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **1140 Wolcott Road** in **Wolcott, 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 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu W/cm^2$). The number of $\mu W/cm^2$ 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 ($\mu W/cm^2$). The general population exposure limits for the 600 MHz and 700 MHz frequency bands are approximately 400 $\mu W/cm^2$ and 467 $\mu W/cm^2$, respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 11 GHz frequency bands is 1000 $\mu W/cm^2$. 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 1140 Wolcott Road in Wolcott, 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 162 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):	162 feet	Height (AGL):	162 feet	Height (AGL):	162 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 %:	**0.85%**	Antenna B1 MPE %:	**0.85%**	Antenna C1 MPE %:	**0.85%**
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):	162 feet	Height (AGL):	162 feet	Height (AGL):	162 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 %:	**3.51%**	Antenna B2 MPE %:	**3.51%**	Antenna C2 MPE %:	**3.51%**
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):	162 feet	Height (AGL):	162 feet	Height (AGL):	162 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 %:	**1.93%**	Antenna B3 MPE %:	**1.93%**	Antenna C3 MPE %:	**1.93%**
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):	162 feet	Height (AGL):	162 feet	Height (AGL):	162 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 %:	**1.20%**	Antenna B4 MPE %:	**1.20%**	Antenna C4 MPE %:	**1.20%**

Site Composite MPE %	
Carrier	**MPE %**
T-Mobile (Max at Sector A):	7.49%
2-way Radio	0.4%
Verizon	2.5%
Site Total MPE % :	10.39%

T-Mobile MPE % Per Sector	
T-Mobile Sector A Total:	7.49%
T-Mobile Sector B Total:	7.49%
T-Mobile Sector C Total:	7.49%
Site Total MPE % :	10.39%

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 (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
T-Mobile 1900 MHz GSM	4	1028.30	162.0	5.63	1900 MHz GSM	1000	0.56%
T-Mobile 2100 MHz UMTS	2	1028.30	162.0	2.82	2100 MHz UMTS	1000	0.28%
T-Mobile 2500 MHz LTE	2	6412.98	162.0	17.57	2500 MHz LTE	1000	1.76%
T-Mobile 2500 MHz NR	2	6412.98	162.0	17.57	2500 MHz NR	1000	1.76%
T-Mobile 600 MHz LTE	2	591.73	162.0	1.62	600 MHz LTE	400	0.41%
T-Mobile 600 MHz NR	1	1577.94	162.0	2.16	600 MHz NR	400	0.54%
T-Mobile 700 MHz LTE	2	648.82	162.0	1.78	700 MHz LTE	467	0.38%
T-Mobile 1900 MHz LTE	2	2203.69	162.0	6.04	1900 MHz LTE	1000	0.60%
T-Mobile 1900 MHz LTE	2	2056.61	162.0	5.63	1900 MHz LTE	1000	0.56%
T-Mobile 2100 MHz LTE	2	2307.55	162.0	6.32	2100 MHz LTE	1000	0.63%
						Total:	**7.49%**

• 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:	7.49%
Sector B:	7.49%
Sector C:	7.49%
T-Mobile Maximum MPE % (Sector A):	7.49%
Site Total:	10.39%
Site Compliance Status:	**COMPLIANT**

The anticipated composite MPE value for this site assuming all carriers present is **10.39%** 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 F

Mailing Receipts/Proof of Notice

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.

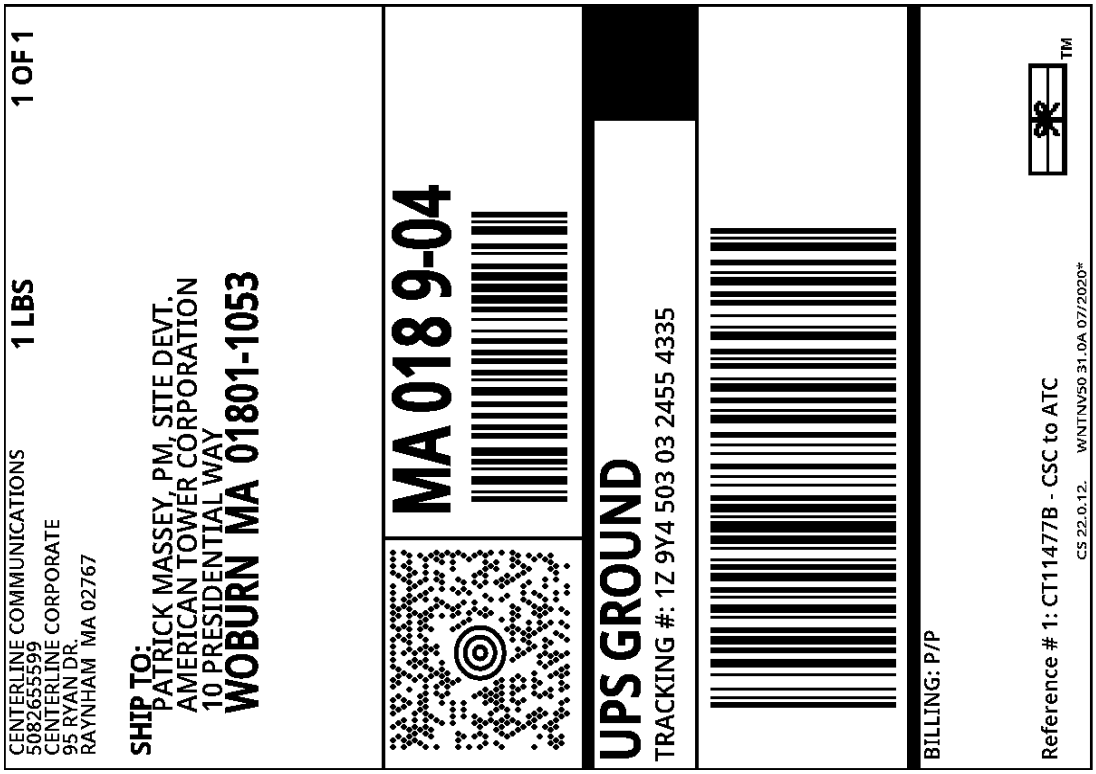
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To 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



Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Tuesday, September 22, 2020 10:17 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030324554335

Hello, your package has been delivered.

Delivery Date: Tuesday, 09/22/2020
Delivery Time: 10:14 AM
Left At: FRONT DESK
Signed by: ANCRI

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030324554335
Ship To:	AMERICAN TOWER CORPORATION 10 PRESIDENTIAL WAY WOBURN, MA 018011053 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	0.2 LBS
Reference Number:	CT11477B - CSC TO ATC

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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.
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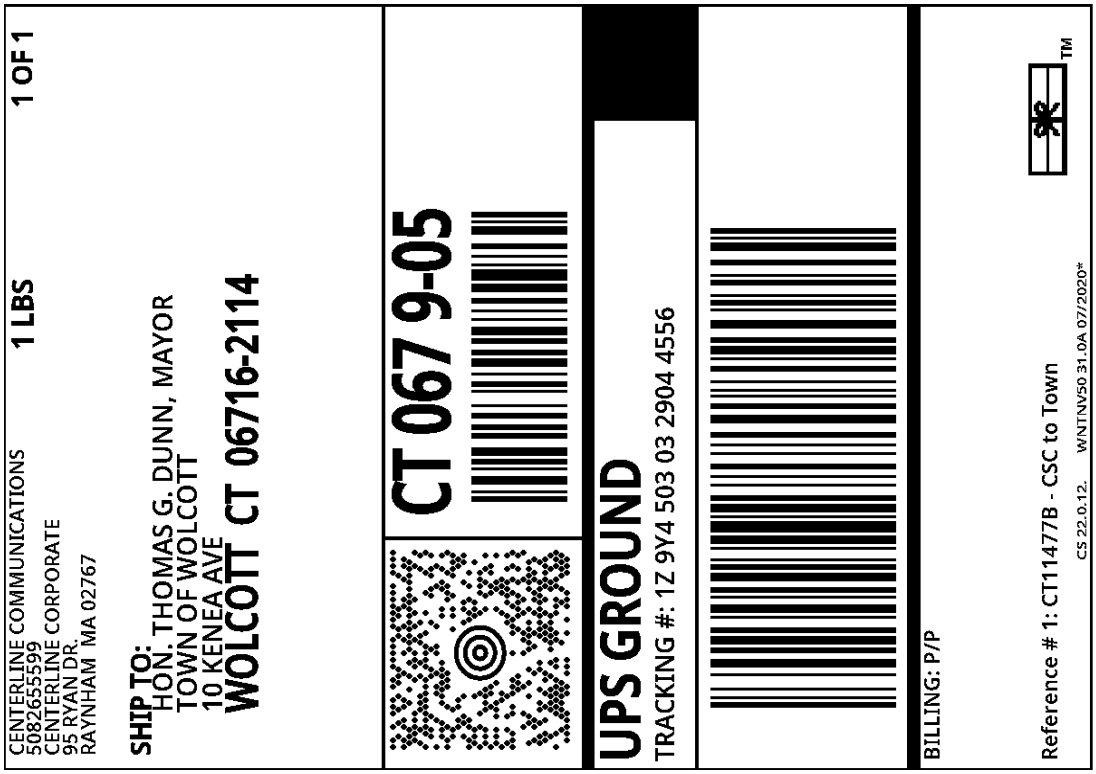

Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Tuesday, September 22, 2020 9:32 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030329044556

UPS My Choice®

Hello, your package has been delivered.

Delivery Date: Tuesday, 09/22/2020
Delivery Time: 09:29 AM
Left At: INSIDE DELIV
Signed by: DUNN

You're in Charge
Personalize your home deliveries with the NEW UPS My Choice® experience.
Log In

Set Delivery Instructions | Manage Preferences | View My Packages

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030329044556
Ship To:	TOWN OF WOLCOTT 10 KENEA AVE WOLCOTT, CT 067162114 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	0.2 LBS
Reference Number:	CT11477B - CSC TO TOWN

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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.

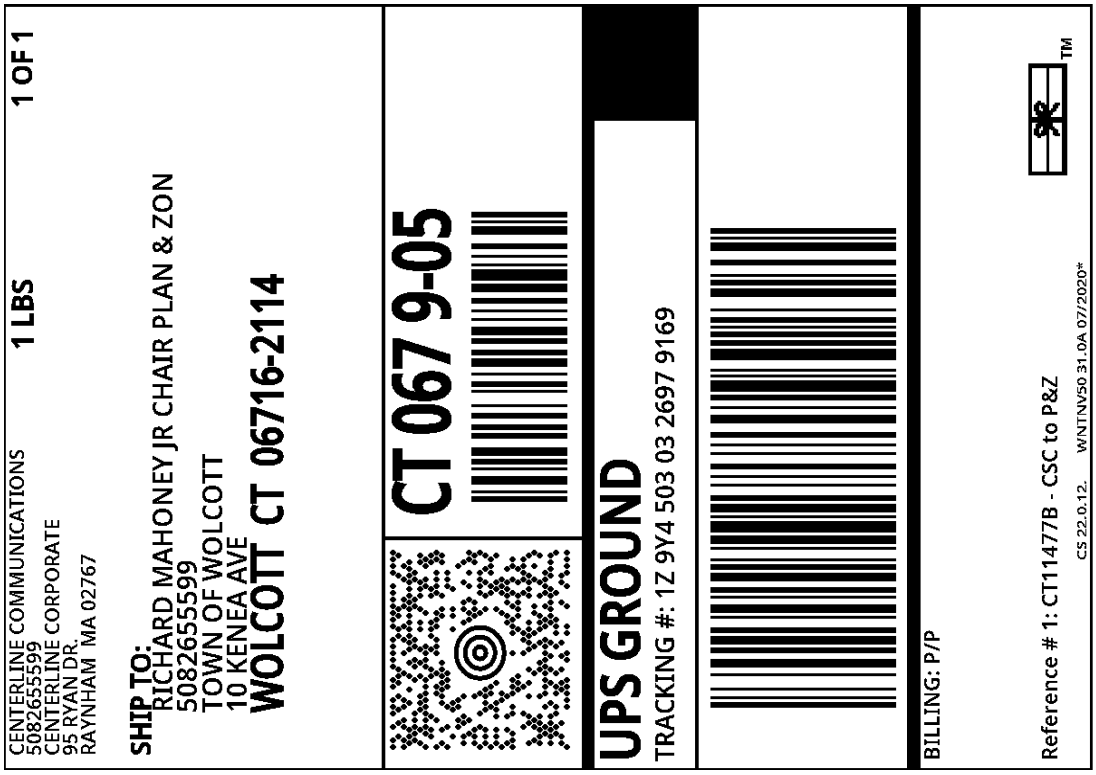
   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To 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



Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Tuesday, September 22, 2020 9:31 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030326979169

UPS My Choice®

Hello, your package has been delivered.

Delivery Date: Tuesday, 09/22/2020
Delivery Time: 09:29 AM
Left At: INSIDE DELIV
Signed by: MAHONEY

You're in Charge

Personalize your home deliveries with the NEW UPS My Choice® experience.

Log In

Set Delivery Instructions | Manage Preferences | View My Packages

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030326979169
Ship To:	TOWN OF WOLCOTT 10 KENEA AVE WOLCOTT, CT 067162114 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	0.2 LBS
Reference Number:	CT11477B - CSC TO P&Z

Download the UPS mobile app

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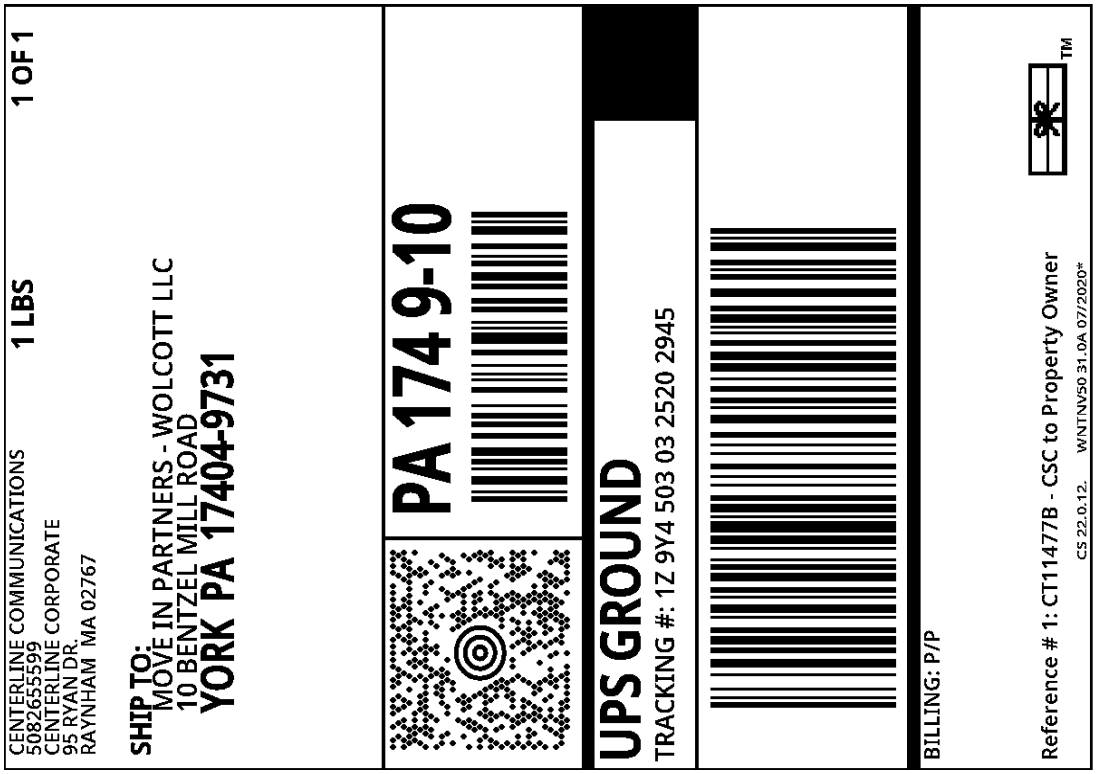
FOLD HERE



Jennifer Iliades

From: UPS Quantum View <pkginfo@ups.com>
Sent: Wednesday, September 23, 2020 9:41 AM
To: Jennifer Iliades
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030325202945

Hello, your package has been delivered.

Delivery Date: Wednesday, 09/23/2020
Delivery Time: 09:39 AM
Left At: RECEIVER
Signed by: O NIELL

Set Delivery Instructions | Manage Preferences | View Delivery Planner

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030325202945
Ship To:	MOVE IN PARTNERS - WOLCOTT LLC 10 BENTZEL MILL ROAD YORK, PA 174049731 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	0.2 LBS
Reference Number:	CT11477B - CSC TO PROPERTY OWNER

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