



February 9, 2019

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

Regarding: Notice of Exempt Modification – Equipment Modification
Property Address: 623-627 Honeyspot Road; Stratford, CT 06615, also known as 623
Honeyspot Road by the City of Stratford (the “Property”)
Applicant: AT&T Mobility (“AT&T”, Site # CT2112)

Dear Ms. Bachman:

AT&T currently maintains a (9) antenna wireless telecommunications facility on an existing 102-foot monopole at the above-referenced address, latitude 41-10-36.75, longitude 73-08-45.68. Said monopole and underlying property is owned by Becker LLC.

AT&T desires to modify its existing telecommunications facility by adding (3) panel antennas, bringing the total panel antenna count to (12). AT&T also plans upgrades to ancillary equipment as follows: swapping (3) remote radio units (RRUs) and adding (6) RRUs, adding (6) Low Band Combiners, and (1) DC Squid Surge Suppressor with associated DC cables. The centerline height of the existing antennas and ancillary tower-mounted equipment is and will remain at 90 feet.

Please accept this application 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 has been sent to the Honorable Laura R Hoydick, Mayor of the City of Stratford; John Rusatsky, as Zoning Enforcement Officer with the City of Stratford; and Becker LLC, as property and tower owner.

The planned modifications to AT&T’s facility fall squarely within those activities explicitly provided for in R.C.S.A. §16-50j-72 (b) (2). Specifically:

1. The planned modification will not result in an increase in the height of the existing structure. The added antennas and accessory equipment along with equipment to be swapped will be installed at the existing height of 90 feet on the 102-foot monopole.
2. The proposed modifications will not involve any changes to AT&T’s ground-space footprint, and therefore and therefore will not require an extension of the site boundary.
3. The proposed modification will not increase the noise level at the facility by six decibels or more, or to levels that exceed state and local criteria.

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RE: AT&T @ 623-627 Honeyspot Road; Stratford, CT
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4. The operation of the modified facility will not increase radio frequency (RF) emissions at the facility to a level at or above Federal Communications Commission (FCC) safety standard. An RF emissions calculation for AT&T's modified facility is herein provided.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. The existing structure and its foundation can support AT&T's proposed modifications. Please see enclosed structural analysis completed by Maser Consulting Connecticut, dated October 19, 2018.

For the foregoing reasons, AT&T respectfully requests that the proposed installation be allowed within the exempt modifications under R.C.S.A. §16-50j-72 (b)(2).

Sincerely,

Kristen White

Kristen White
Site Acquisition Specialist
Empire Telecom USA, LLC
kwhite@empiretelecomm.com

Enclosures: Exhibit 1 – Field Card and GIS Map
Exhibit 2 – Construction Drawings
Exhibit 3 – Structural Analysis
Exhibit 4 – RF Emissions Analysis Report Evaluation

cc:

The Honorable
Mayor Laura R Hoydick
2725 Main Street
Stratford, CT 06615

Becker LLC
951 Beaver Dam Road
Stratford, CT 06614

John Rusatsky
Zoning Enforcement Officer
2725 Main Street
Stratford, CT 06615

EXHIBIT 1



TOWN OF STRATFORD

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Owner and Parcel Information

Owner Name	BECKER LLC	Today's Date	January 29, 2019
Mailing Address	951 BEAVER DAM RD	Account #	0795100
	STRATFORD, CT 06614		
Location Address	623 HONEYSPOUT RD	Census Tract	0804
Map / Block / Lot	30 / 6 / 12 / 6 / Dev Lot: LTS 128 129 & 1	Acreage	0.22
Use Class / Description	322 Gar/Off	Parcel Map	Show Parcel Map Owner List By Radius

Current Appraised Value Information

Building Value	OB Value	Land Value	Special Land Value	Total Appraised Value	Net Appraised Value	Current Assessment
No Appraisal Information available for this parcel						

Assessment History

Year	Building	OB/Misc	Land	Total Assessment
2017	\$ 159,740	\$ 491,400	\$ 136,500	\$ 787,640
2016	\$ 159,740	\$ 491,400	\$ 136,500	\$ 787,640

Land Information

Use	Class	Zoning	Area	Value
Gar/Off	C	CA	0.22 AC	\$ 195,000

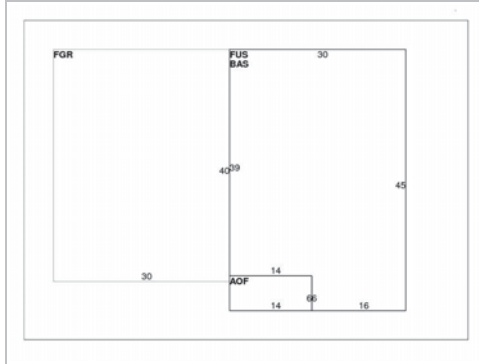
Commercial Building Information

Style	Year Built	Eff Year Built	Gross Area	Stories	Grade	Exterior Wall	Interior Wall	Wall Height	# Units
Telephone Bldg	1985	1991	3,816	1.00	B	Concr/Cinder	Drywall/Sheet	10	1
Roof Cover	Roof Structure	Floor Type	Heat Type	Heat Fuel	AC Type	Sprinkler	Construction	Plumbing	Comm Walls
Built Up	Flat	Vinyl/Asphalt Concr-Finished	Gas	Forced Air-Duc	Heat/AC Pkgs	%	Masonry	Average	0%

Building Sub Areas

Code	Description	Living Area	Gross Area	Effective Area
AOF	Office Area	84	84	
BAS	First Floor	1,266	1,266	
FGR	Garage	0	1,200	
FUS	Finished Upper Story	1,266	1,266	
	Totals	2,616	3,816	3,096

Building Sketch [Enlarge](#)



Building Photo [Enlarge](#)



Out Buildings / Extra Features

Description	Sub Description	Area	Year Built	Value
Air Condition		1,866 S.F.	1989	\$ 3,800
Paving	Asphalt	4,000 S.F.	1985	\$ 4,000
Mezzanine - Unfin		144 S.F.	1989	\$ 1,500
Cell Receivers		4 Units	2009	\$ 698,000

Sale Information

Sale Date	Sale Price	Deed Book/Page	Sale Qualification	Reason	Vacant or Improved	Owner
04/20/2010		3374/0243	Unqualified	Transfer of convenience	Improved	BECKER LLC
07/17/1984	\$ 54,000	0597/0087	Qualified	WD	Improved	BECKER JOHN & DEBORAH (SV)
09/24/1982	\$ 47,000	0573/0794	Qualified	WD	Improved	TOTH JOHN S & CAROL A (SV)
03/21/1969	\$ 24,000	0448/0174	Qualified	WD	Improved	PAOLA FRANK & ROSALIE (SV)

Permit Information

Permit ID	Issue Date	Type	Description	Amount	Inspection Date	% Complete	Date Complete	Comments
23538	05/01/2017	BP	Building Permi	\$ 45,000		100		ADDING RADIO HEADS
23368	01/26/2017	BP	Building Permi	\$ 25,000		100		REPLACE ANTENNAS
23203	10/27/2016	BP	Building Permi	\$ 15,000		100		REPLACE ANTENNA
22877	06/07/2016	BP	Building Permi	\$ 45,000		100		ANTENNAS, SURGE PROTECTOR

22455	05/23/2016	EL	Electrical Per	\$ 1,500		100		REMOVE UTILITY
21346	05/22/2015	EL	Electrical Per	\$ 3,000		100		RADIO HEADS/CAB.
21816	10/28/2014	BP	Building Permi	\$ 27,000		100		UPGRADE WIRELESS (TRANSCEND)
21313	04/15/2014	BP	Building Permi	\$ 131,000		100		STRUCTURAL MODIFICA 9 EXISTING ANTENNAS
20614	04/25/2013	BP	Building Permi	\$ 12,000		100		REPL SPRINT ANTENNAS
19269	03/05/2012	EL	Electrical Per	\$ 5,000		100		WIRING
19416	08/10/2011	BP	Building Permi	\$ 20,000		100		ADD ANTENNAS
19692	01/11/2011	BP	Building Permi	\$ 6,000		100		CABINET INSTALL
18437	03/26/2010	CM	Commercial	\$ 12,000		100		REM 12 ANT/REPL 6
13205	05/01/2008	EL	Electrical Per	\$ 4,850	07/29/2009	100		NEW SERVICE TO CELLULAR EQUIP
13207	05/01/2008	EL	Electrical Per	\$ 2,800	07/29/2009	100		ELECTRICAL
14869	06/27/2005	BP	Building Permi	\$ 35,000	05/01/2006	100		TELE/COM EQUIP
11918	08/21/2001			\$ 41,494	05/01/2006	100	11/14/2001	TELECOMMUNICATION SITE; BP#12311 4/23/02 \$18K FACILITY C.O. 6/13/02;

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Town of Stratford

Map Title



Legend

- Streetname
- Roadways
 - Local
 - Collector
 - Minor Collector
 - Minor Arterial
 - Major Collector
 - PA Other
 - PA Other Expwy
 - PA Interstate



WGS_1984_Web_Mercator_Auxiliary_Sphere
 Created by Greater Bridgeport Regional Council

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable.
 THIS MAP IS NOT TO BE USED FOR NAVIGATION



EXHIBIT 2

GENERAL NOTES:

1. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC (AS ADOPTED BY THE AHI), THE SITE-SPECIFIC (UL, LP, OR NFPA) LIGHTING PROTECTION CODE, AND GENERAL COMPLIANCE WITH TOLCORDERIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVISE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
2. ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GEES) SHALL BE BONDED TOGETHER AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC.
3. THE SUBCONTRACTOR SHALL PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING PER IEEE 1100 AND 81) FOR GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT OF 50 OHMS OR LESS.
4. THE SUBCONTRACTOR IS RESPONSIBLE FOR PROPERLY SEQUENCING GROUNDING AND UNDERGROUND CONDUIT INSTALLATIONS AS TO PREVENT ANY LOSS OF CONTINUITY IN THE GROUNDING SYSTEM OR DAMAGE TO THE CONDUIT.
5. METAL CONDUIT AND TRAY SHALL BE GROUNDING AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING CONDUIT CLAMPS.
6. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO B15 EQUIPMENT.
7. EACH B15 CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE EQUIPMENT GROUND RING WITH GREEN AND/ OR STRANDED COPPER FOR OUTDOOR B15.
8. CONNECTIONS TO THE GROUND BUS SHALL NOT BE DOUBLED UP OR STACKED. BACK TO BACK CONNECTIONS ON OPPOSITE SIDES OF THE GROUND BUS ARE PERMITTED.
9. ALL EXTERIOR GROUND CONDUCTORS BETWEEN EQUIPMENT/GROUND BARS AND THE GROUND RING, SHALL BE #2 AWG SOLID TINNED COPPER UNLESS OTHERWISE INDICATED.
10. ALUMINUM CONDUCTOR OR COPPER CLAD STEEL CONDUCTOR SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
11. USE OF 90° BENDS IN THE PROTECTION GROUNDING CONDUCTORS SHALL BE AVOIDED WHEN 45° BENDS CAN BE ADEQUATELY SUPPORTED. ALL BENDS SHALL BE MADE WITH 12" RADIUS OR LARGER.
12. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
13. ALL GROUND CONNECTIONS ABOVE GRADE (OUTSIDE) SHALL BE FORMED USING HIGH PRESS GRIPPS EXCEPT FOR GROUND BAR CONNECTIONS FROM MGB TO OUTSIDE EXTERIOR GROUND SHALL ALL BE COLDWELD CONNECTIONS.
14. COMPRESSION GROUND CONNECTIONS MAY BE REPLACED BY EXOTHERMIC WELD CONNECTIONS.
15. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED TO THE TOWER GROUND BAR.
16. APPROVED ANTI-OXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
17. ALL EXTERIOR AND INTERIOR GROUND CONNECTIONS SHALL BE COATED WITH A CORROSION RESISTANT MATERIAL.
18. MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE WITH THE NEC.
19. BOND ALL METALLIC OBJECTS WITHIN 6 FT OF MAIN GROUND WIRES WITH 1-#2 AWG TIN-PLATED COPPER GROUND CONDUCTOR.
20. GROUND CONDUCTORS USED IN THE FACILITY GROUND AND LIGHTNING PROTECTION SYSTEMS SHALL NOT BE ROUTED THROUGH METALLIC OBJECTS THAT FORM A RING AROUND THE CONDUCTOR, SUCH AS METALLIC CONDUITS, METAL SUPPORT CLIPS OR SLEEVES THROUGH WALLS OR FLOORS. WHEN IT IS REQUIRED TO BE ROUSED IN CONDUIT TO MEET THE REQUIREMENTS OF THE NEC, THE CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND ALL USERS, WHERE USE OF METAL CONDUIT IS UNAVOIDABLE (I.E. NON-METAL CONDUIT PROHIBITED BY LOCAL CODE). THE GROUND CONDUCTOR SHALL BE BONDED TO EACH END OF THE METAL CONDUIT.
21. ALL NEW STRUCTURES WITH A FOUNDATION AND/OR FOOTING HAVING 20 FT. OR MORE OF 1/4" IN. OR GREATER ELECTRICALLY CONDUCTIVE REINFORCING STEEL MUST HAVE IT BONDED TO THE GROUND RING USING AN EXOTHERMIC WELD CONNECTION USING #2 AWG SOLID BARE TINNED COPPER GROUND WIRE, PER NEC 250.50.
22. FOR THE PURPOSE OF CONSTRUCTION DRAWING, THE FOLLOWING DEFINITIONS SHALL APPLY:
CONTRACTOR - EMPIRE TELECOM
SUBCONTRACTOR - GENERAL CONTRACTOR (CONSTRUCTION)
OWNER - AT&T (NEW JERSEY WIRELESS PCS, LLC)
23. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS AND PROJECT SPECIFICATIONS.
24. DRAWINGS PROVIDED HERE ARE NOT TO BE SCALED AND ARE INTENDED TO SHOW OUTLINE ONLY.
25. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. SUBCONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK.
26. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
27. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.

28. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY NOTED OTHERWISE.
29. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE CONTRACTOR.
30. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF OWNER.
31. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
32. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES WHERE ENCOUNTERED IN THE WORK, SHALL BE PROTECTED AND MAINTAINED TO REMAIN IN SERVICE. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL UTILITIES TO REMAIN IN SERVICE. THE SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS WILL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION B) CONTAINED SPACE C) ELECTRICAL SAFETY D) TRENCHING & EXCAVATION.
33. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE SEVERED OR ABANDONED. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE OWNER AND/OR LOCAL UTILITIES TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
34. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE AND STABILIZED TO PREVENT EROSION.
35. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL GUIDELINES FOR EROSION AND SEDIMENT CONTROL.
36. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND, FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
37. THE SURGRADE SHALL BE COMPACTED AND BROUGHT TO A SMOOTH UNIFORM GRADE PRIOR TO FINISHED SURFACE APPLICATION.
38. THE SITE SHALL BE GRADED TO CAUSE SURFACE WATER TO FLOW AWAY FROM THE B15 EQUIPMENT AND TOWER AREAS.
39. IF NECESSARY, RUBBERISH, STUMPS, DEBRIS, STICKS, STONES AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
40. THE SUBCONTRACTOR SHALL PROVIDE SITE SIGNAGE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATION FOR SITE SIGNAGE.
41. SUBCONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.
42. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR.
43. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND TT CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
44. ALL CONCRETE REPAIR WORK SHALL BE DONE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301.
45. ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 4000PSI STRENGTH AT 28 DAYS.
46. ALL STRUCTURAL STEEL WORK SHALL BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH AISC SPECIFICATIONS. ALL STRUCTURAL STEEL SHALL BE ASTM A36 (Fy = 36 KSI) UNLESS OTHERWISE NOTED. PIPES SHALL BE ASTM A53 TYPE E (Fy = 36 KSI). ALL STEEL EXPOSED TO WEATHER SHALL BE HOT-DIPPED GALVANIZED. TOUCHUP ALL SCRATCHES AND OTHER MARKS IN THE FIELD AFTER STEELS ARE ERRECTED USING A COMPATIBLE ZINC RICH PAINT.
47. CONSTRUCTION SHALL COMPLY WITH SPECIFICATIONS AND GENERAL CONSTRUCTION SERVICES FOR CONSTRUCTION OF AT&T MOBILITY SITES.
48. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
49. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH TRAFFIC PERIODS AFTER MIDNIGHT.
50. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN ALERT OF DANGEROUS EXPOSURE LEVELS.

 Custom Daily Project Client Satisfaction www.masterconstructing.com 800.755.2337 Landscaping, Architecture & Environmental Services	 at&t	 EMPIRE telecom 16 ESQUIRE ROAD BILLERICA, MA 01802	 BURLINGTON UNIVERSITY CONSTRUCTION COLLEGE 100 COLLEGE BLVD. BURLINGTON, VT 05405 WWW.BU.EDU	DATE: AS SHOWN DRAWN BY: IBERDRA PA	 PETROS KOUKIAS PROFESSIONAL ENGINEER LICENSE NO. 11870 EXPIRES 12/31/2024	 ALEX HILDGORSKI PROFESSIONAL ENGINEER LICENSE NO. 11870 EXPIRES 12/31/2024	SITE NAME: STRATFORD FA# 10771312 SITE# CT2112 623 HONESPOT ROAD SPRINGFIELD, CT 06415 FAIRFIELD COUNTY	 FIRST BANK OFFICE 170 NEW HAVEN BLVD SPRINGFIELD, CT 06415 Phone: 757.238.1199 Fax: 757.281.1884 email: paul@firstbank.com	GENERAL NOTES GN-1
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MAKER CONSULTING
CONSTRUCTIVE

Customer Driven Project Client Satisfaction
 300 North Main Street, Suite 200
 Billerica, MA 01821
 Phone: 978.675.1100
 Fax: 978.675.1101
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EMPIRE telecom

16 ESQUIRE ROAD
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BU

PROFESSIONAL ENGINEER
 100 STATE STREET, SUITE 200
 BILLERICA, MA 01821
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 Fax: 978.675.1101
 www.bu-engineering.com

NO.	DESCRIPTION	DATE	BY	CHKD.
1	AS SHOWN	01/24/11	IB	IB
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PETROS & POLIKAKIS
CONSULTING ENGINEERS
 100 STATE STREET, SUITE 200
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 Fax: 978.675.1101
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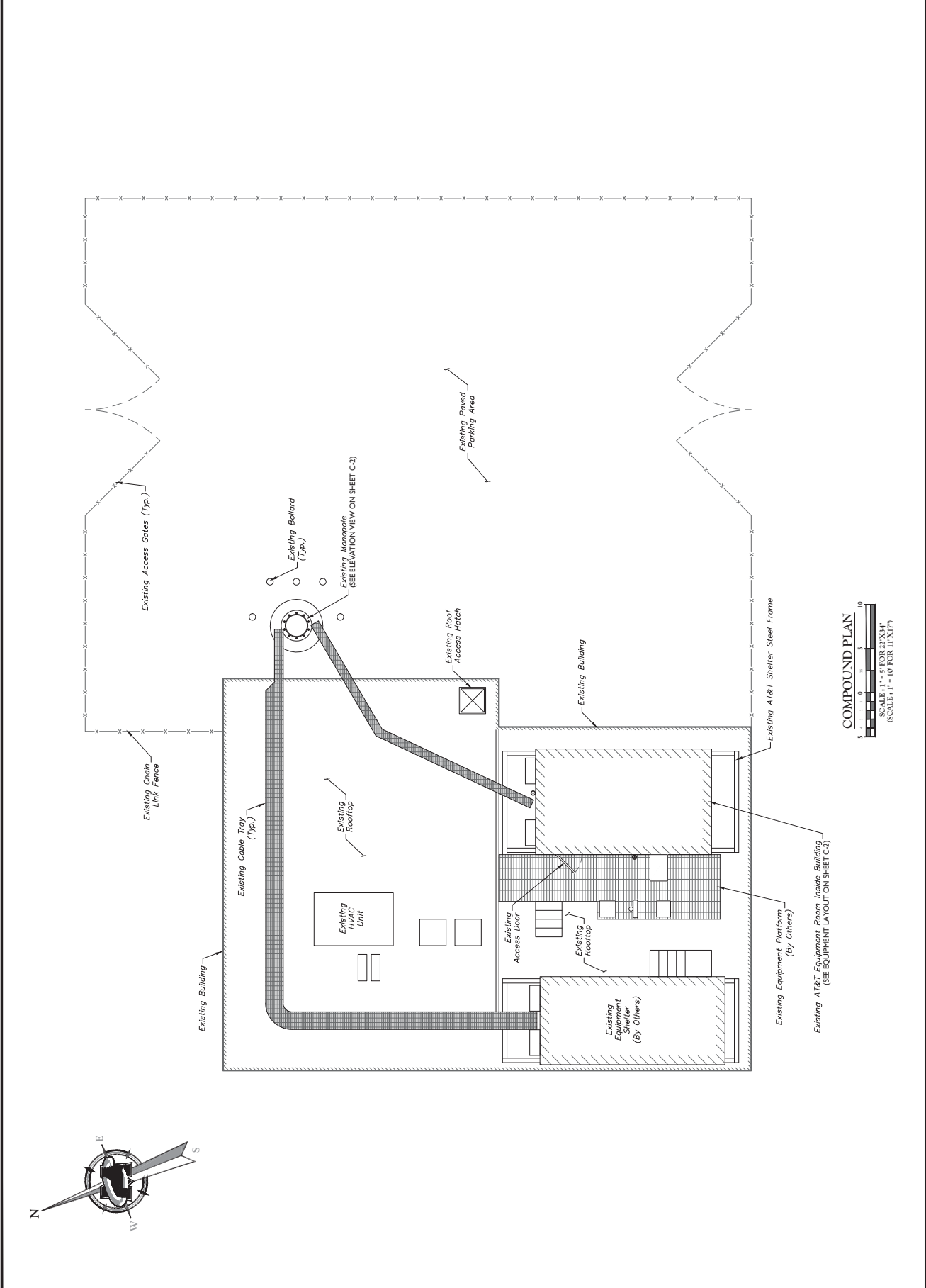
SITE NAME:
 STRATFORD
 FA# 10071312
 SITE# CT2112
 623 HONESPOT ROAD
 STRATFORD, CT 06155
 FAIRFIELD COUNTY

AT&T BANK OFFICE
 717 North Main Street
 Billerica, MA 01821
 Phone: 978.675.1100
 Fax: 978.675.1101
 www.att.com

COMPOUND PLAN

DATE: 01/24/11

C-1



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AS SHOWN 189380 PA

0. BIRTH OF THE CONTRACTOR MA MA
1. DESIGN REVIEW FOR CONTRACT MA MA
2. PERMITS MA MA
3. CONSTRUCTION MA MA
4. COMPLETION MA MA

PETROS POLIKAKIS
REGISTERED PROFESSIONAL ENGINEER
LICENSE NO. 10100

16 ESQUIRE ROAD, BILLERICA, MA 01862
PHONE: 781.381.1984
FAX: 781.381.1984
EMAIL: POLIKAKIS@MCCONN.COM

SITE NAME:
STRATFORD
FA# 10071312
SITE# CT2112

623 HONESPOT ROAD
STRATFORD, CT 06615
FAIRFIELD COUNTY

RED BANK OFFICE

3117 North Main Street
Stratford, CT 06615
Phone: 781.381.1984
Fax: 781.381.1984
Email: POLIKAKIS@MCCONN.COM

RF PLUMBING DIAGRAM

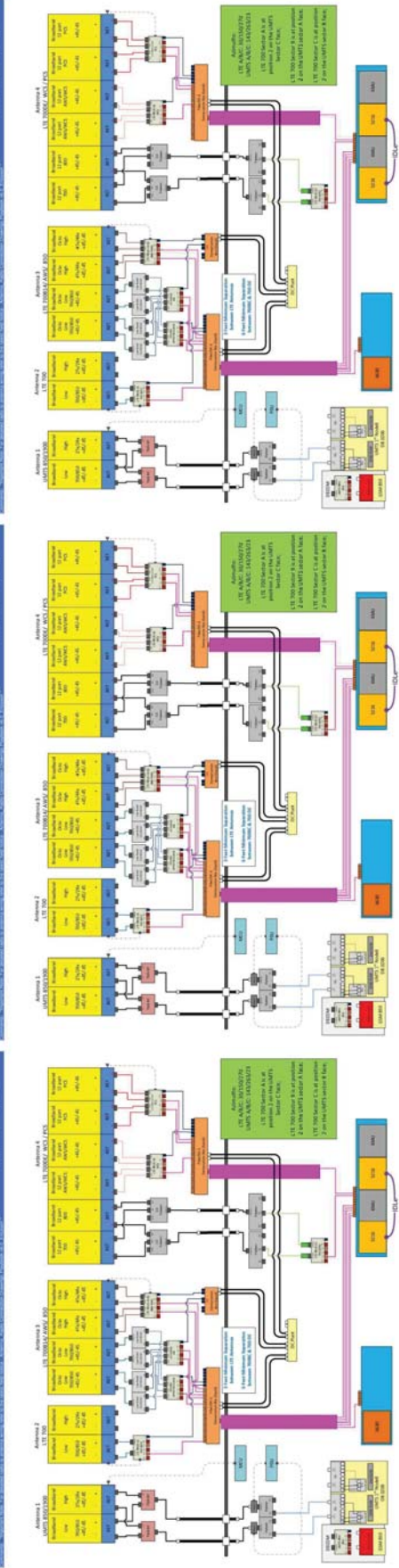
DATE: 09/12/2018

A-2

ALPHA SECTOR

BETA SECTOR

GAMMA SECTOR



RF PLUMBING DIAGRAMS

BASED ON: RF ENGINEERING DESIGN ENTITLED "...CT102112_20184,TE-Ner-2018_Final-RF-Approval_v3.00 (1)", LAST REVISED 09/12/2018.

MASTER CONSULTING CONNECTORS
 Custom Quality Project Client Service
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 Fax: 508-853-2201
 Landscape Architecture • Environmental Sciences

EMPIRE telecom
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INSULATION LABORATORY
 1000 STATE STREET, SUITE 200
 WORCESTER, MASSACHUSETTS 01602
 CALLENDER RD. 1000 STATE STREET, SUITE 200
 WORCESTER, MASSACHUSETTS 01602
 WWW.IALAB.COM

DATE: AS SHOWN DRAWN BY: IBERDOL PA
 PROJECT: STRATFORD
 SHEET NO: 10071312

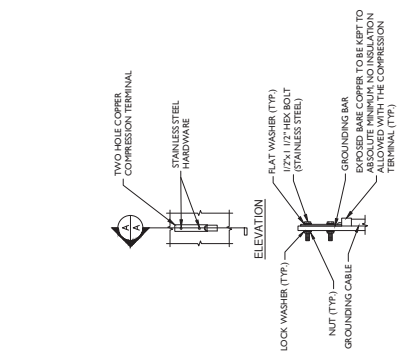
NO.	DESCRIPTION	DATE	BY	CHK.
1	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
2	ISSUED FOR PERMITS	08/08/12	IB	IA
3	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
4	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
5	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
6	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
7	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
8	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
9	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
10	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
11	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
12	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
13	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
14	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
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17	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
18	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
19	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA
20	ISSUED FOR CONSTRUCTION	08/08/12	IB	IA

STATE OF MASSACHUSETTS
 PROFESSIONAL REGISTERED ELECTRICAL ENGINEER
 LICENSE NO. 10071312
 PETROS SOUKALAS
 1000 STATE STREET, SUITE 200
 WORCESTER, MASSACHUSETTS 01602
 TEL: 508-853-2200
 FAX: 508-853-2201
 WWW.PETROSCONNECTORS.COM

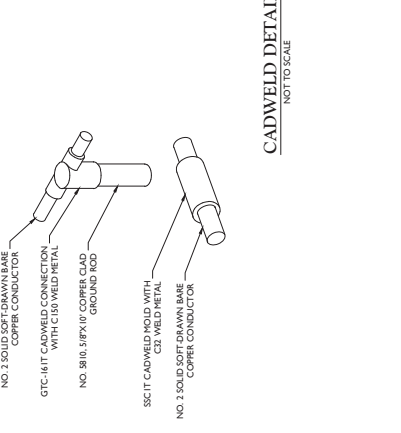
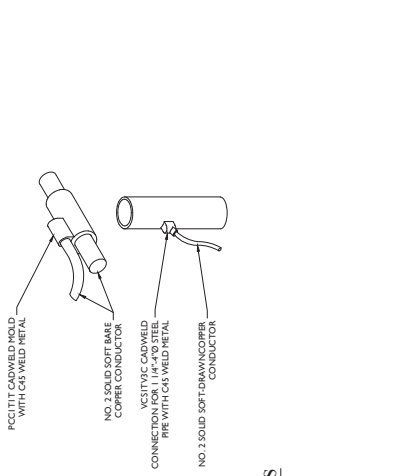
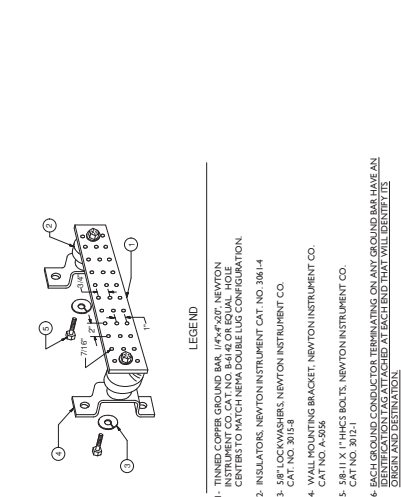
SITE NAME:
 STRATFORD
 FA# 10071312
 SITE# CT2112
 623 HONESPOT ROAD
 STRATFORD, CT 06155
 FAIRFIELD COUNTY

FIELD BOOK OFFICE
 1117 North Main Street
 Worcester, MA 01602
 Telephone: 508-853-2200
 Fax: 508-853-2201
 www.masterconsultingconnectors.com

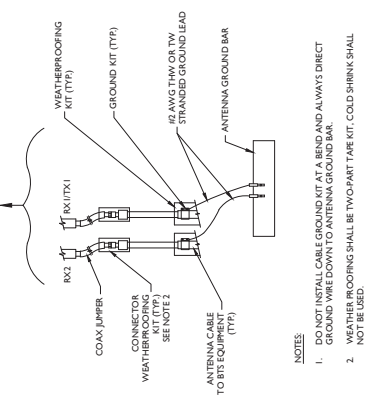
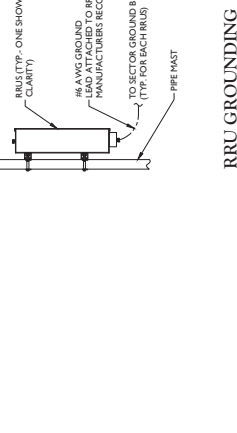
GROUNDING DETAILS
 G-1



TYPICAL GROUND BAR CONNECTION DETAIL
 NOT TO SCALE



- LEGEND**
1. TINNED COPPER GROUND BAR (#4x4x2) NEWTON INSTRUMENT CO. CAT. NO. B-412 OR EQUAL. HOLE CENTERST TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 2. INSULATORS NEWTON INSTRUMENT CO. 386-14 CAT. NO. 3015-8
 3. 5/8" LOCK WASHERS NEWTON INSTRUMENT CO. CAT. NO. A-5956
 4. WALL MOUNTING BRACKET NEWTON INSTRUMENT CO. CAT. NO. 3012-1
 5. 5/8-11 X 1" HHCS BOLTS NEWTON INSTRUMENT CO. CAT. NO. 3012-1
 6. EACH GROUND CONDUCTOR TERMINATING ON ANY GROUND BAR HAVE AN IDENTIFICATION TAG ATTACHED AT EACH END THAT WILL IDENTIFY ITS GROUNDING DISTRIBUTION.
- SECTION "T" - SURGE INDUCERS**
- CABLE ENTRY PORTS (MATCH PLATES) (#2)
 - TELEPHONE NETWORK (IF AVAILABLE) (#2)
 - TELECOM GROUND BAR
 - COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
 - COMMERCIAL POWER COMMON NEUTRAL/GROUND BOND (#2)
 - 48V POWER SUPPLY RETURN BAR (#2)
 - RECTIFIER FRAMES
- SECTION "A" - SURGE ABSORBERS**
- INTERNAL GROUND RING (#2)
 - EXTERNAL EARTH GROUND FIELD (BURRED GROUND RING) (#2)
 - EXTERNAL EARTH GROUND FIELD (BURRED GROUND RING) (#2)
 - METALLIC COLD WATER PIPE (IF AVAILABLE) (#2)
 - BUILDING STEEL (IF AVAILABLE) (#2)



- NOTES**
1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO ANTENNA GROUND BAR.
 2. WEATHER PROOFING SHALL BE TWO-PART TARE KIT. COLD SHRINK SHALL NOT BE USED.

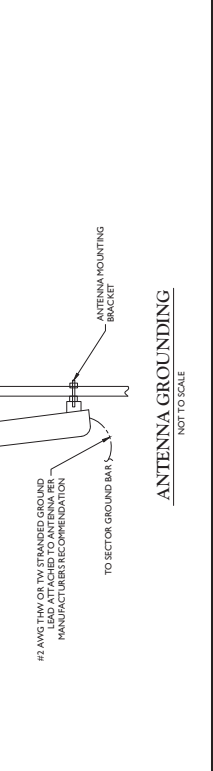
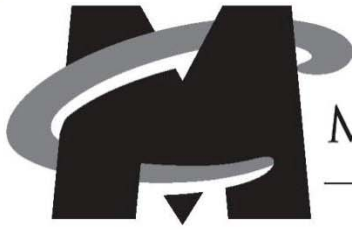


EXHIBIT 3



MASER CONSULTING
— CONNECTICUT —

Monopole Analysis

FOR
CT2112 - Stratford

FA Number: 10071312
623 Honeyspot Road
Stratford, CT 06615
Fairfield County

Monopole Utilization: 53.3%

October 19, 2018

Prepared For

AT&T

550 Cochituate Road
Framingham, MA 01701

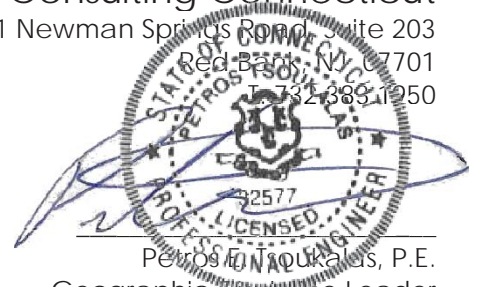
Prepared By

Maser Consulting Connecticut

331 Newman Springs Road, Suite 203

Red Bank, NY 07701

T: 732-389-1950



Petros J. Kales, P.E.

Geographic Discipline Leader
Connecticut License No. 32557

MC Project No. 18963019A



Objective:

The objective of this report is to determine the capacity of the existing monopole at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

Introduction:

Maser Consulting Connecticut has performed limited field observations on June 14, 2018 to verify the existing condition of the structure and to locate and quantify the existing wireless appurtenances where possible, from ground level. Maser Consulting Connecticut has reviewed the following documents in completing this report:

- Structural Analysis, prepared by Destek Engineering, dated November 3, 2016.
- RFDS 2287557 version 3.00, provided by Empire, dated September 12, 2018.

The proposed **AT&T** equipment is to be supported on an existing antenna support mount constructed of structural steel antenna support pipes supported by angles and tube arms at a centerline of approximately 90'-0" above ground level. This report is based only upon this information.

Codes, Standards and Loading:

Maser Consulting Connecticut utilized the following codes and standards:

- 2018] Connecticut State Building Code, incorporating the 2012 IBC.
- Structural Standards for Antenna Supporting Structures and Antennas ANSI/TIA-222-G
 - Ultimate Wind Speed – 125 (3 Second Gust)
 - Basic Wind Speed – 97 mph (3 Second Gust)
 - Exposure Category – C
 - Structural Class – II
 - Topographic Category – 1
 - Ice Wind – 50 mph
 - Ice Thickness – 3/4"
- Specification for Structural Steel Buildings ANSI/AISC 360-10, American Institute of Steel Construction (AISC)

Maser Consulting Connecticut understands the final **AT&T** loading to the following:

Quantity	Manufacturer	Antenna/ Appurtenance	Status	Sector
3	POWERWAVE	7770	Existing	Alpha, Beta, & Gamma
3	KMW	AM-X-CD-16-65-00T-RET	Existing	Alpha, Beta, & Gamma
3	KATHREIN	80010965	Proposed	Alpha, Beta, & Gamma
3	QUINTEL	QS66512-2	Existing	Alpha, Beta, & Gamma
3	ERICSSON	RRUS 32	Existing	Alpha, Beta, & Gamma
3	ERICSSON	RRUS 4478 B14	Proposed	Alpha, Beta, & Gamma
3	ERICSSON	RRUS 4478 B5	Proposed	Alpha, Beta, & Gamma
3	ERICSSON	RRUS 4426 B66	Proposed	Alpha, Beta, & Gamma
3	ERICSSON	RRUS 11	Existing	Alpha, Beta, & Gamma
3	ERICSSON	RRUS 32 B2	Existing	Alpha, Beta, & Gamma
3	RAYCAP	DC6-48-60-18-8F	Existing/Proposed	Alpha, Beta, & Gamma
6	POWERWAVE	LGP 21401	Existing	Alpha, Beta, & Gamma
6	KAELUS	DBCT108F1V92-1	Proposed	Alpha, Beta, & Gamma
6	CCI	TPX-070821	Existing	Alpha, Beta, & Gamma

TMA
Low Band Combiner
Triplexer

(3) Existing RRUS E2 are ground mounted

Analysis Approach & Assumptions:

The analysis approach used in this structural analysis is based on the premise that if the existing monopole is structurally adequate to support the existing and proposed equipment per the aforementioned codes and standards, or if the increase in the forces in the structure are deemed to be negligible or acceptable, then the proposed equipment can be installed as intended. Tower Numerics, trn Tower, a tower analysis and design program, designed specifically for the telecommunications industry and for all applicable codes and standards was used for this structural analysis.

General Site Design Assumption:

- All engineering services are performed on the basis that the information used is current and correct.
- It is assumed that the telecommunication equipment supports, antenna supports, and existing structure have been designed by a registered licensed professional engineer for the existing loads acting on the structure, as required by all applicable codes, prior to the proposed modifications listed within this report, if any.
- It is assumed that information provided by the client regarding the structure itself, the antenna models, feed lines, and other relevant information is current and correct.
- It is the responsibility of the client to ensure that the information provided to Maser Consulting Connecticut and used in the performance of our engineering services is correct and complete. In the absence of information to the contrary, we assume that the original design, material production, fabrication, and erection of the existing structure was performed in accordance with accepted industry design standards and in accordance with all applicable codes. Further, it is assumed that the existing structure and appurtenances have been properly maintained in accordance with all applicable codes and manufacturer's specifications and no structural defects and/or deterioration to the structural members has occurred.
- It is assumed all other existing appurtenances, antennas, cables, etc. belonging to others have been installed and supported per code and per specifications so as not to damage any existing structural support members, and that any contributing loads from adjacent equipment has been taken into consideration for their design.
- All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information we supply.

Site Specific Design Parameters and Assumptions:

The following design parameters have been utilized in this report:

- *Structural Steel Angles are constructed of A36 Steel.*
- *Structural Steel Pipes are constructed of A53 Grade B Steel.*
- *The proposed antenna shall be installed on a proposed 8' long 2.0STD pipe in position 3. The proposed pipe shall attach to the existing pipe via pipe to pipe clamps.*
- *The proposed RRU B14 & RRU B5 shall be installed on a dual mounting bracket behind the proposed antenna on the existing pipe mast in position 3.*
- *The proposed RRU B66 shall be installed behind the existing antenna in position 4 on a proposed dual mounting bracket with the existing 32 B2 RRU.*
- ***It is assumed that all tower and appurtenance information in the referenced analysis is accurate and reflective of the current condition of the tower. It is assumed that all tower modifications in the referenced analysis have been installed as intended.***

Calculations:

The calculations are found in Appendix A of this report.

Conclusion:

The existing monopole was analyzed for the loading in the applicable codes and standards. The monopole has been determined to be structurally **ADEQUATE** to support the proposed and existing loading, based upon the aforementioned assumptions. The monopole has been determined to be stressed to a maximum of **53.3%** of its structural capacity with the maximum usage occurring at the between elevations 72.5'-74.78'. Therefore, the proposed **AT&T** installation **CAN** be installed as intended in all sectors.

Maser Consulting Connecticut reserves the right to amend this report if additional information about the existing members is provided. The conclusions reached by Maser Consulting Connecticut in this report are only valid for the appurtenances listed in this report. Any change to the installation will require a revision to this structural analysis.

We appreciate the opportunity to be of service on this project. If you should have any questions or require any additional information, please do not hesitate to call our office.

Sincerely,

Maser Consulting Connecticut



Petros E. Tsoukalas, P.E.
Geographic Discipline Leader



Lauren Luzier, E.I.T.
Engineer

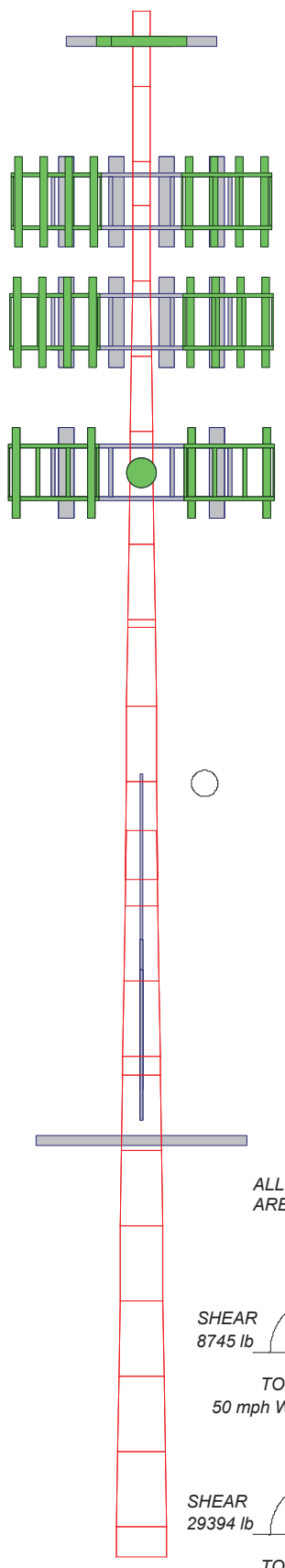


MASER CONSULTING
— CONNECTICUT —

10/19/2018
Page 5 of 4
Prepared by LEL
Checked by SMS

APPENDIX A

Section	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Length (ft)	5.00	5.00	2.92	5.00	5.00	5.00	2.28	5.25	5.00	5.25	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	1.96
Number of Sides	1	1	1	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	16
Thickness (in)	0.2500	0.2500	0.2500	0.2500	0.2500	0.2500	0.2500	0.6125	0.6125	0.6750	0.6750	0.6375	0.6250	0.6625	0.6500	0.6250	0.6875	0.6250	0.6625	0.6500	0.6625	0.6625	0.6125	0.6000
Socket Length (ft)																								
Top Dia (in)	13.0000	13.0000	13.0000	13.0000	13.0000	13.0000	14.5393	18.3200	17.6180	16.0787	14.5393	23.2459	24.7852	26.6475	24.5389	24.7852	30.0878	29.6974	28.1725	26.6475	26.7925	33.1377	34.6627	36.1876
Bot Dia (in)	13.0000	13.0000	13.0000	13.0000	13.0000	13.0000	16.0787	19.9363	18.3200	17.6180	16.0787	24.7852	26.7925	28.1725	26.6475	26.7925	31.6128	30.0878	28.1725	26.6475	26.7925	33.1377	34.6627	36.1876
Grade	A53-B-35																							
Weight (lb)	170.4	170.4	99.5	182.5	203.3	224.1	109.1	643.1	651.1	625.1	832.9	804.8	1107.5	891.9	939.3	955.5	1125.5	1140.3	1173.0	9896.7	1208.0	1233.4	1233.4	24553.8



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
5' Sector Frame T-arm	101	(2) TPX070821 (ATI)	90
5' Sector Frame T-arm	101	Rohn 14' Rotable Platform (ATI)	90
5' Sector Frame T-arm	101	MGD3-900TX (Verizon)	82
7770 (ATI)	90	MGD3-900TX (Verizon)	82
7770 (ATI)	90	MGD3-900TX (Verizon)	82
7770 (ATI)	90	BXA-171063-12BF-EDIN-X (Verizon)	82
AM-X-CD-16-65-OOT-RET (ATI)	90	BXA-171063-12BF-EDIN-X (Verizon)	82
AM-X-CD-16-65-OOT-RET (ATI)	90	BXA-171063-12BF-EDIN-X (Verizon)	82
AM-X-CD-16-65-OOT-RET (ATI)	90	(2) BXA-70063-6CF-EDIN-X (Verizon)	82
800-10965 (ATI)	90	(2) BXA-70063-6CF-EDIN-X (Verizon)	82
800-10965 (ATI)	90	(2) BXA-70063-6CF-EDIN-X (Verizon)	82
800-10965 (ATI)	90	(2) RRH2x40-07L (Verizon)	82
QS66512-2 (ATI)	90	(2) RRH2x40-07L (Verizon)	82
QS66512-2 (ATI)	90	(2) RRH2x40-07L (Verizon)	82
QS66512-2 (ATI)	90	Rohn 14' Rotable Platform (Verizon)	82
RRUS 32 (ATI)	90	(2) RRH 1900 MHz	75 - 7
RRUS 32 (ATI)	90 - 9	(2) RRH 1900 MHz	75
RRUS 32 (ATI)	90	(2) RRH 1900 MHz	75 - 73
RRUSB14 + 4478 B5 Shielded (ATI)	90	RRH 800 MHz	73
RRUSB14 + 4478 B5 Shielded (ATI)	90	RRH 800 MHz	73
RRUSB14 + 4478 B5 Shielded (ATI)	90	RRH 800 MHz	73
RRUS 32 B2 (ATI)	90	APXVTM14-Ci20	72
RRUS 32 B2 (ATI)	90	APXVTM14-Ci20	72
RRUS 32 B2 (ATI)	90	APXVTM14-Ci20	72
RRUS 4426 B66 (ATI)	90	APXVSP18-C	72
RRUS 4426 B66 (ATI)	90	APXVSP18-C	72
RRUS 4426 B66 (ATI)	90	APXVSP18-C	72
RRUS11 B12 (Partially Shielded by 11.9" Antenna) (ATI)	90	RRH8x20-25	72
RRUS11 B12 (Partially Shielded by 11.9" Antenna) (ATI)	90	RRH8x20-25	72
RRUS11 B12 (Partially Shielded by 11.9" Antenna) (ATI)	90	RRH8x20-25	72
DC6-48-06-18-8F (ATI)	90	Junction Box	72
DC6-48-06-18-8F (ATI)	90	14' T Arm round	72
DC6-48-06-18-8F (ATI)	90	14' T Arm round	72
DC6-48-06-18-8F (ATI)	90	14' T Arm round	72
(2) LGP 17201 (Front Shielded by Antenna) (ATI)	90 - 9	2' dish	72
(2) LGP 17201 (Front Shielded by Antenna) (ATI)	90	2' dish	72
(2) LGP 17201 (Front Shielded by Antenna) (ATI)	90	20' Omni	28
(2) LGP 17201 (Front Shielded by Antenna) (ATI)	90	10' Omni	28
(2) LGP 17201 (Front Shielded by Antenna) (ATI)	90	10' Omni	28
(2) LGP 17201 (Front Shielded by Antenna) (ATI)	90	10' Omni	28
(2) DBC0061F1V51-2 Twin Unit (ATI)	90	10' Omni	28
(2) DBC0061F1V51-2 Twin Unit (ATI)	90	10' Omni	28
(2) DBC0061F1V51-2 Twin Unit (ATI)	90	GPS	28
(2) TPX070821 (ATI)	90	14' T Arm round	28
(2) TPX070821 (ATI)	90	5' Sector Frame T-arm	28
		5' Sector Frame T-arm	28

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A53-B-35	35 ksi	63 ksi	A572-65	65 ksi	80 ksi

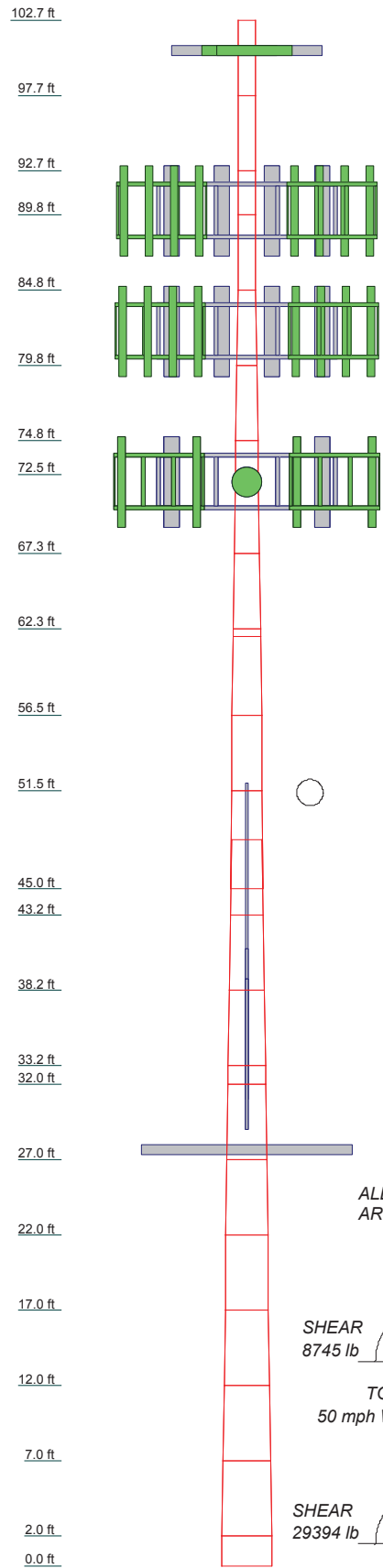
TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-G Standard.
2. Tower designed for a 97 mph basic wind in accordance with the TIA-222-G Standard.
3. Tower is also designed for a 50 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Structure Class II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. Weld together tower sections have flange connections.
8. Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications.
9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM 4566A153 Standards.
10. Welds are fabricated with ER-70S-6 electrodes.
11. TOWER RATING: 53.3%

Maser Consulting
 2000 Midlantic Drive, Suite 100
 Mt. Laurel, NJ
 Phone: 856 797-0412
 FAX: 856 722-1120

Job: **18963019A**
 Project: **CT2112**
 Client: **AT&T** Drawn by: _____ App'd: _____
 Code: **TIA-222-G** Date: **10/18/18** Scale: **NTS**
 Path: _____ Dwg No. **E-1**

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	5.00	1	0.2500	13.0000	13.0000	13.0000	A53-B-35	170.4
2	5.00	1	0.2500	13.0000	13.0000	13.0000	A53-B-35	170.4
3	2.92	1	0.2500	13.0000	13.0000	13.0000	A53-B-35	99.5
4	5.00	18	0.2500	14.5393	14.5393	14.5393	A53-B-35	182.5
5	5.00	18	0.2500	16.0787	16.0787	16.0787	A53-B-35	203.3
6	5.00	18	0.2500	17.6180	17.6180	17.6180	A53-B-35	224.1
7	2.28	18	0.2500	18.3200	18.3200	18.3200	A53-B-35	109.1
8	5.25	18	0.6125	19.9363	19.9363	19.9363	A572-65	643.1
9	5.00	18	0.5750	21.6292	21.6292	21.6292	A572-65	625.1
10	5.00	18	0.5750	23.2459	23.2459	23.2459	A572-65	607.1
11	5.25	18	0.6375	24.9981	24.9981	24.9981	A572-65	832.9
12	5.00	18	0.6375	26.7925	26.7925	26.7925	A572-65	804.8
13	5.00-6.52	18	0.6250	28.6275	28.6275	28.6275	A572-65	1107.5
14	5.00	18	0.6625	30.5100	30.5100	30.5100	A572-65	891.9
15	5.00	18	0.6500	32.4375	32.4375	32.4375	A572-65	939.3
16	5.00	18	0.6250	34.4100	34.4100	34.4100	A572-65	955.5
17	1.28	16	0.6250	36.4275	36.4275	36.4275	A572-65	254.2
18	5.00	16	0.6875	38.4900	38.4900	38.4900	A572-65	1125.5
19	5.00	16	0.6625	40.5975	40.5975	40.5975	A572-65	1140.3
20	5.00	16	0.6500	42.7500	42.7500	42.7500	A572-65	1173.0
21	5.00	16	6.2500	44.9475	44.9475	44.9475	A572-65	9896.7
22	5.00	16	0.6125	47.1900	47.1900	47.1900	A572-65	1208.0
23	5.00	16	0.6000	49.4775	49.4775	49.4775	A572-65	1233.4
24	1.96	16	0.6000	51.8075	51.8075	51.8075	A572-65	24553.8



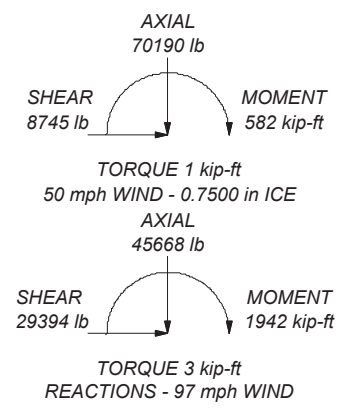
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9. Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards.
10. Welds are fabricated with ER-70S-6 electrodes.
11. TOWER RATING: 53.3%

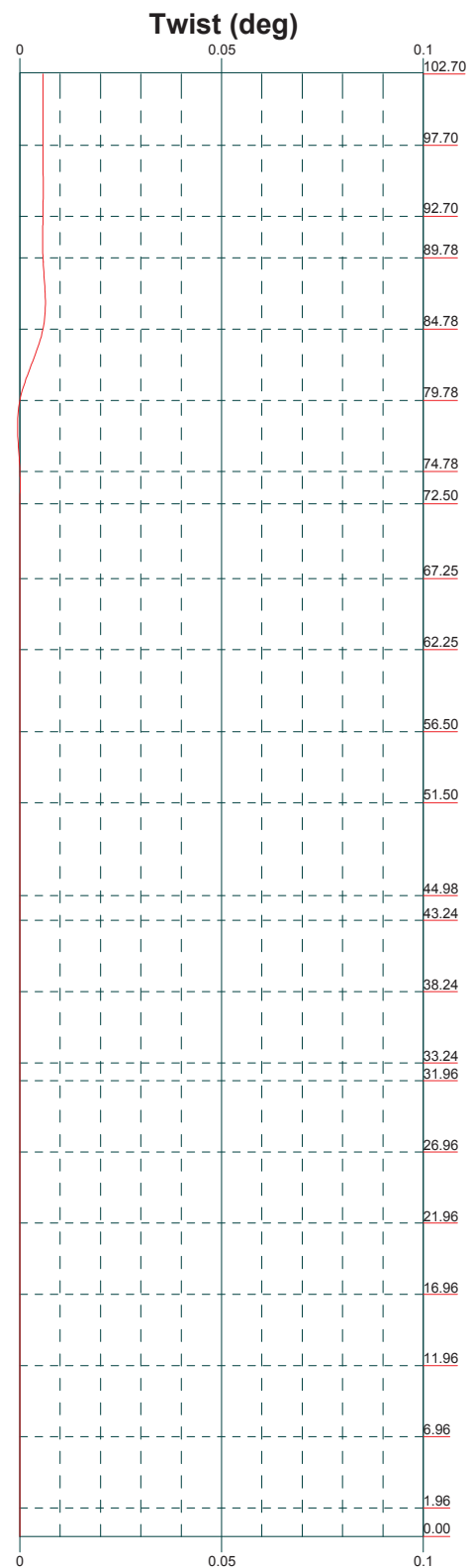
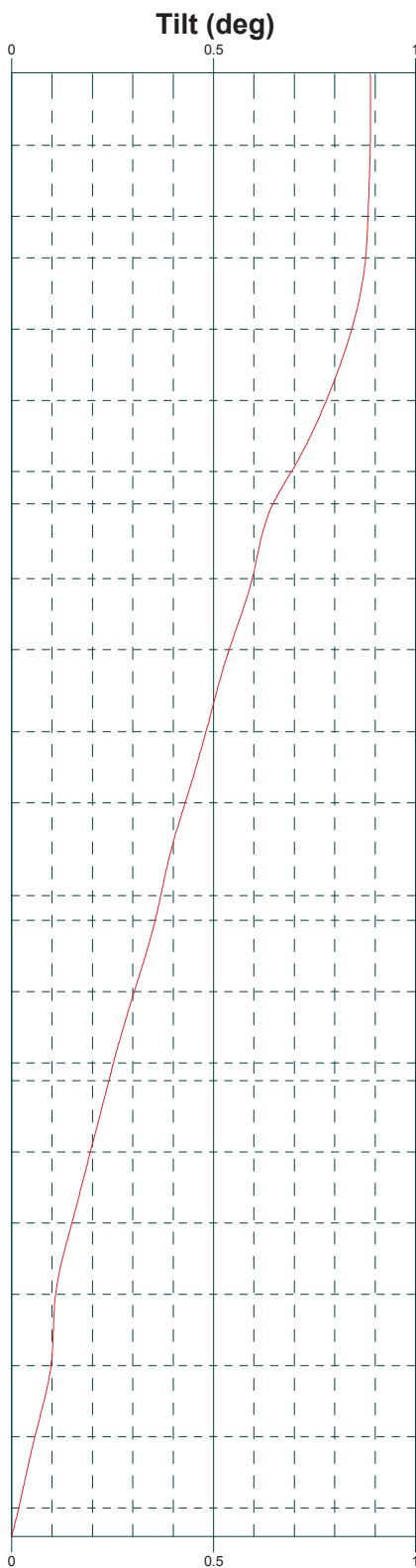
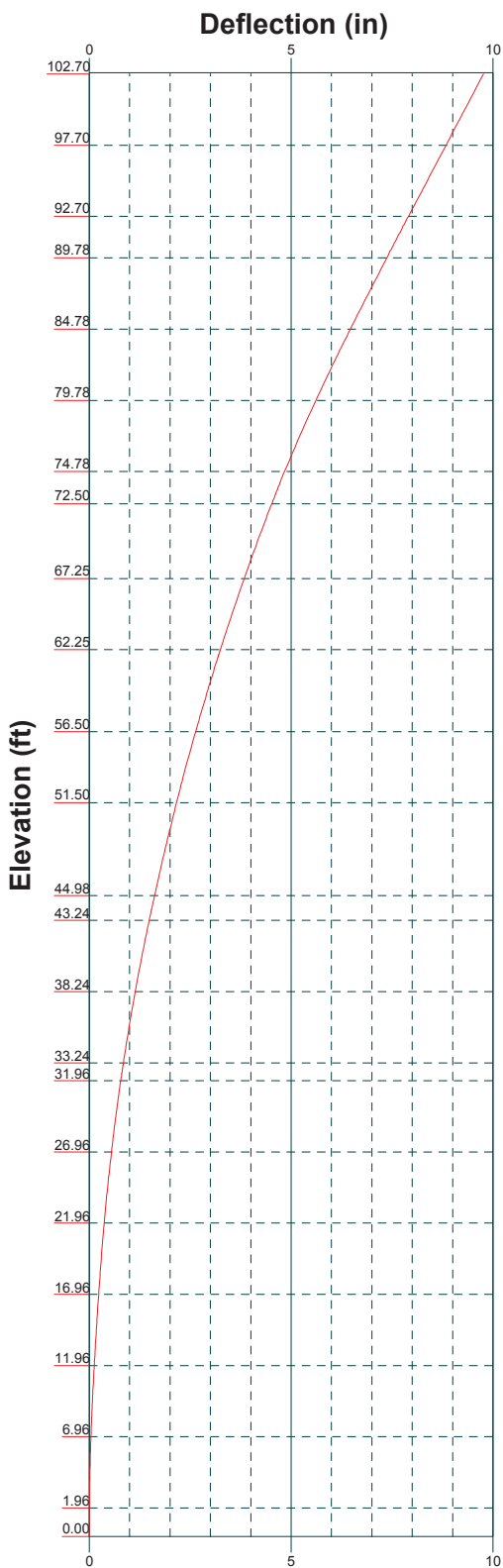
ALL REACTIONS ARE FACTORED



Maser Consulting
 2000 Midlantic Drive, Suite 100
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 Phone: 856 797-0412
 FAX: 856 722-1120

Job: **18963019A**
 Project: **CT2112**
 Client: AT&T
 Code: TIA-222-G
 Path: maserconsulting.com/Projects/2018/18963019A/18963019A/Structural/Tower Analysis/TOWER/CT2112.dwg

Drawn by: _____
 Date: 10/18/18
 App'd: _____
 Scale: NTS
 Dwg No. E-1

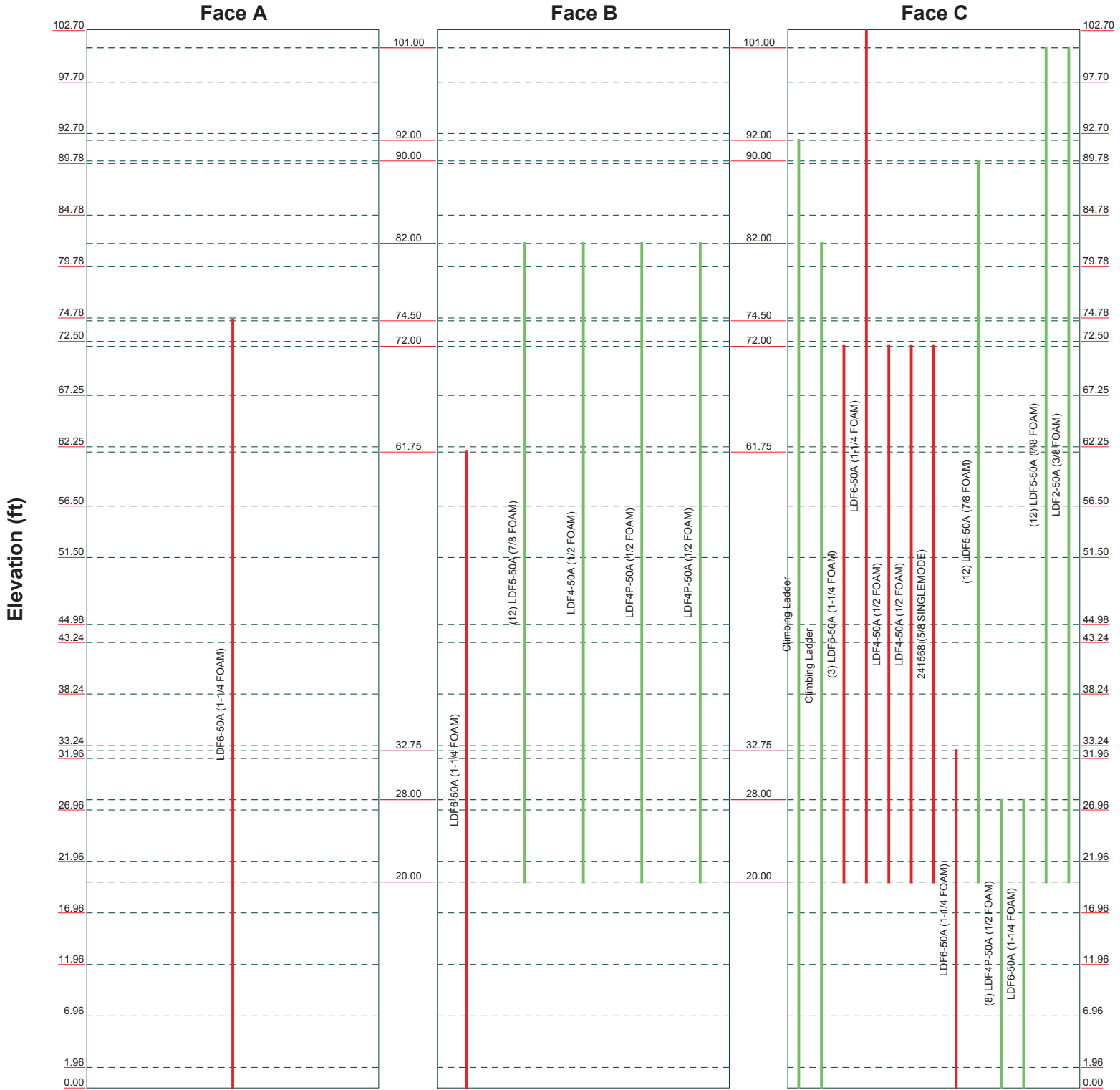


Maser Consulting		
2000 Midlantic Drive, Suite 100		
Mt. Laurel, NJ		
Phone: 856 797-0412		
FAX: 856 722-1120		
Job: 18963019A		
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Client: AT&T	Drawn by:	App'd:
Code: TIA-222-G	Date: 10/19/18	Scale: NTS
Path:	Dwg No. E-5	

Feed Line Distribution Chart

0' - 102'8-13/32"

— Round
 — Flat
 — App In Face
 — App Out Face
 — Truss Leg



Maser Consulting
 2000 Midlantic Drive, Suite 100
 Mt. Laurel, NJ
 Phone: 856 797-0412
 FAX: 856 722-1120

Job: 18963019A		
Project: CT2112		
Client: AT&T	Drawn by:	App'd:
Code: TIA-222-G	Date: 10/19/18	Scale: NTS
Path:	Dwg No. E-7	

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job	17902175A	Page	1 of 55
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Tower Input Data

There is a pole section.

This tower is designed using the TIA-222-G standard.

The following design criteria apply:

ASCE 7-10 Wind Data is used (wind speeds converted to nominal values).

Basic wind speed of 97 mph.

Structure Class II.

Exposure Category C.

Topographic Category 1.

Crest Height 0.00 ft.

Nominal ice thickness of 0.7500 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 50 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

Weld together tower sections have flange connections..

Connections use galvanized A325 bolts, nuts and locking devices. Installation per TIA/EIA-222 and AISC Specifications..

Tower members are "hot dipped" galvanized in accordance with ASTM A123 and ASTM A153 Standards..

Welds are fabricated with ER-70S-6 electrodes..

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

Pressures are calculated at each section.

Stress ratio used in pole design is 1.

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

Options

<ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity Leg Bolts Are At Top Of Section Secondary Horizontal Braces Leg Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric 	<ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks Use Azimuth Dish Coefficients √ Project Wind Area of Appurt. Autocalc Torque Arm Areas Add IBC .6D+W Combination Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder 	<ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules Calculate Redundant Bracing Forces Ignore Redundant Members in FEA SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque Include Angle Block Shear Check Use TIA-222-G Bracing Resist. Exemption Use TIA-222-G Tension Splice Exemption <li style="text-align: center;">Poles √ Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets
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Tapered Pole Section Geometry

<p>tnxTower</p> <p>Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120</p>	Job	17902175A	Page	2 of 55
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Section	Elevation ft	Section Length ft	Splice Length ft	Number of Sides	Top Diameter in	Bottom Diameter in	Wall Thickness in	Bend Radius in	Pole Grade
L1	102.70-97.70	5.00	0.00	Round	13.0000	13.0000	0.2500		A53-B-35 (35 ksi)
L2	97.70-92.70	5.00	0.00	Round	13.0000	13.0000	0.2500		A53-B-35 (35 ksi)
L3	92.70-89.78	2.92	0.00	Round	13.0000	13.0000	0.2500		A53-B-35 (35 ksi)
L4	89.78-84.78	5.00	0.00	18	13.0000	14.5393	0.2500	1.0000	A572-65 (65 ksi)
L5	84.78-79.78	5.00	0.00	18	14.5393	16.0787	0.2500	1.0000	A572-65 (65 ksi)
L6	79.78-74.78	5.00	0.00	18	16.0787	17.6180	0.2500	1.0000	A572-65 (65 ksi)
L7	74.78-72.50	2.28	0.00	18	17.6180	18.3200	0.2500	1.0000	A572-65 (65 ksi)
L8	72.50-67.25	5.25	0.00	18	18.3200	19.9363	0.6125	2.4500	A572-65 (65 ksi)
L9	67.25-62.25	5.00	0.00	18	19.9363	21.4756	0.5750	2.3000	A572-65 (65 ksi)
L10	62.25-61.75	0.50	0.00	18	21.4756	21.6295	0.5750	2.3000	A572-65 (65 ksi)
L11	61.75-56.50	5.25	0.00	18	21.6295	23.2459	0.6750	2.4000	A572-65 (65 ksi)
L12	56.50-51.50	5.00	0.00	18	23.2459	24.7852	0.6375	2.5500	A572-65 (65 ksi)
L13	51.50-44.98	6.52	3.26	18	24.7852	26.7925	0.6250	2.5000	A572-65 (65 ksi)
L14	44.98-43.24	5.00	0.00	18	24.5389	26.6475	0.6625	2.6500	A572-65 (65 ksi)
L15	43.24-38.24	5.00	0.00	18	26.6475	28.1725	0.6500	2.6000	A572-65 (65 ksi)
L16	38.24-33.24	5.00	0.00	18	28.1725	29.6974	0.6250	2.5000	A572-65 (65 ksi)
L17	33.24-31.96	1.28	0.00	16	29.6974	30.0878	0.6250	2.5000	A572-65 (65 ksi)
L18	31.96-26.96	5.00	0.00	16	30.0878	31.6128	0.6875	2.7500	A572-65 (65 ksi)
L19	26.96-21.96	5.00	0.00	16	31.6128	33.1377	0.6625	2.6500	A572-65 (65 ksi)
L20	21.96-16.96	5.00	0.00	16	33.1377	34.6627	0.6500	2.6000	A572-65 (65 ksi)
L21	16.96-11.96	5.00	0.00	16	34.6627	36.1876	6.2500	2.5000	A572-65 (65 ksi)
L22	11.96-6.96	5.00	0.00	16	36.1876	37.7126	0.6125	2.4500	A572-65 (65 ksi)
L23	6.96-1.96	5.00	0.00	16	37.7126	39.2375	0.6000	2.4000	A572-65 (65 ksi)
L24	1.96-0.00	1.96		16	39.2375	40.0000	0.6000	2.4000	A572-65 (65 ksi)

Tapered Pole Properties

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L1	13.0000	10.0138	203.5623	4.5087	6.5000	31.3173	407.1246	5.0039	0.0000	0
L2	13.0000	10.0138	203.5623	4.5087	6.5000	31.3173	407.1246	5.0039	0.0000	0
L2	13.0000	10.0138	203.5623	4.5087	6.5000	31.3173	407.1246	5.0039	0.0000	0

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	<p>Client</p> <p>T-Mobile</p>	<p>Designed by</p>

Section	Tip Dia. in	Area in ²	I in ⁴	r in	C in	I/C in ³	J in ⁴	It/Q in ²	w in	w/t
L3	13.0000	10.0138	203.5623	4.5087	6.5000	31.3173	407.1246	5.0039	0.0000	0
	13.0000	10.0138	203.5623	4.5087	6.5000	31.3173	407.1246	5.0039	0.0000	0
	13.0000	10.0138	203.5623	4.5087	6.5000	31.3173	407.1246	5.0039	0.0000	0
L4	13.2005	10.1171	207.7854	4.5263	6.6040	31.4636	415.8441	5.0595	1.8480	7.392
	14.7636	11.3386	292.4942	5.0727	7.3860	39.6014	585.3733	5.6704	2.1189	8.476
L5	14.7636	11.3386	292.4942	5.0727	7.3860	39.6014	585.3733	5.6704	2.1189	8.476
	16.3267	12.5601	397.5760	5.6192	8.1680	48.6749	795.6751	6.2812	2.3899	9.559
L6	16.3267	12.5601	397.5760	5.6192	8.1680	48.6749	795.6751	6.2812	2.3899	9.559
	17.8898	13.7815	525.2110	6.1656	8.9499	58.6832	1051.1131	6.8921	2.6608	10.643
L7	17.8898	13.7815	525.2110	6.1656	8.9499	58.6832	1051.1131	6.8921	2.6608	10.643
	18.6026	14.3385	591.5056	6.4148	9.3066	63.5579	1183.7895	7.1706	2.7843	11.137
L8	18.6026	34.4247	1363.7106	6.2862	9.3066	146.5322	2729.2156	17.2156	2.1463	3.504
	20.2438	37.5669	1772.2626	6.8599	10.1276	174.9926	3546.8571	18.7870	2.4308	3.969
L9	20.2438	35.3353	1673.4616	6.8733	10.1276	165.2371	3349.1253	17.6710	2.4968	4.342
	21.8069	38.1446	2105.1763	7.4197	10.9096	192.9654	4213.1227	19.0759	2.7677	4.813
L10	21.8069	38.1446	2105.1763	7.4197	10.9096	192.9654	4213.1227	19.0759	2.7677	4.813
	21.9632	38.4255	2152.0235	7.4743	10.9878	195.8560	4306.8787	19.2164	2.7948	4.861
L11	21.9632	44.8940	2490.4628	7.4388	10.9878	226.6574	4984.2025	22.4512	2.7244	4.036
	23.6045	48.3570	3112.3955	8.0127	11.8089	263.5632	6228.8863	24.1831	3.0089	4.458
L12	23.6045	45.7464	2954.1602	8.0260	11.8089	259.1635	5912.2076	22.8775	2.9693	4.658
	25.1676	48.8611	3599.5804	8.5724	12.5909	285.8879	7203.8972	24.4352	3.2402	5.083
L13	25.1676	47.9278	3534.4836	8.5769	12.5909	280.7177	7073.6179	23.9685	3.2622	5.22
	27.2058	51.9098	4490.6694	9.2895	13.6106	329.9394	8987.2478	25.9598	3.6155	5.785
L14	26.3135	50.2066	3616.0470	8.4761	12.4657	290.0789	7236.8521	25.1081	3.1528	4.759
	27.0586	54.6406	4661.2073	9.2247	13.5369	344.3327	9328.5480	27.3255	3.5240	5.319
L15	27.0586	53.6354	4579.8630	9.2291	13.5369	338.3236	9165.7524	26.8228	3.5460	5.455
	28.6071	56.7817	5434.0217	9.7705	14.3116	379.6927	10875.1937	28.3962	3.8144	5.868
L16	28.6071	54.6474	5239.2722	9.7794	14.3116	366.0849	10485.4384	27.3289	3.8584	6.173
	30.1555	57.6724	6158.3880	10.3207	15.0863	408.2112	12324.8793	28.8417	4.1267	6.603
L17	30.2792	57.9631	6189.1031	10.3498	15.1457	408.6383	12471.9168	28.6597	4.6660	7.466
	30.6773	58.7415	6441.7982	10.4888	15.3448	419.8039	12981.1331	29.0446	4.7437	7.59
L18	30.6773	64.4785	7040.9788	10.4665	15.3448	458.8518	14188.5665	31.8812	4.6193	6.719
	32.2321	67.8230	8194.4444	11.0094	16.1225	508.2605	16512.9627	33.5349	4.9228	7.16
L19	32.2321	65.4096	7915.6306	11.0183	16.1225	490.9671	15951.1134	32.3416	4.9726	7.506
	33.7869	68.6323	9144.2151	11.5612	16.9002	541.0705	18426.8847	33.9350	5.2760	7.964
L20	33.7869	67.3632	8982.0465	11.5656	16.9002	531.4749	18100.0922	33.3076	5.3009	8.155
	35.3418	70.5253	10307.2243	12.1085	17.6780	583.0545	20770.5126	34.8711	5.6044	8.622
L21	35.3418	566.4782	57772.6888	10.1149	17.6780	3268.0600	116420.126	280.0937	3.4154	0.546
	36.8966	596.8809	67582.7731	10.6578	18.4557	3661.8964	136188.831	295.1262	3.7188	0.595
L22	36.8966	69.5093	11113.4661	12.6647	18.4557	602.1706	22395.2035	34.3687	5.9825	9.767
	38.4514	72.4890	12604.8122	13.2076	19.2334	655.3597	25400.4766	35.8420	6.2859	10.263
L23	38.4514	71.0335	12360.0560	13.2121	19.2334	642.6341	24907.2583	35.1223	6.3108	10.518
	40.0062	73.9522	13947.0819	13.7549	20.0111	696.9664	28105.3396	36.5655	6.6143	11.024
L24	40.0062	73.9522	13947.0819	13.7549	20.0111	696.9664	28105.3396	36.5655	6.6143	11.024
	40.7836	75.4116	14789.2095	14.0264	20.4000	724.9613	29802.3457	37.2871	6.7660	11.277

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _f	Adjust. Factor A _r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L1				1	1	1			
102.70-97.70									
L2 97.70-92.70				1	1	1			
L3 92.70-89.78				1	1	1			
L4 89.78-84.78				1	1	1			
L5 84.78-79.78				1	1	1			
L6 79.78-74.78				1	1	1			
L7 74.78-72.50				1	1	1			

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Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
L8 72.50-67.25				1	1	1			
L9 67.25-62.25				1	1	1			
L10 62.25-61.75				1	1	1			
L11 61.75-56.50				1	1	1			
L12 56.50-51.50				1	1	1			
L13 51.50-44.98				1	1	1			
L14 44.98-43.24				1	1	1			
L15 43.24-38.24				1	1	1			
L16 38.24-33.24				1	1	1			
L17 33.24-31.96				1	1	1			
L18 31.96-26.96				1	1	1			
L19 26.96-21.96				1	1	1			
L20 21.96-16.96				1	1	1			
L21 16.96-11.96				1	1	1			
L22 11.96-6.96				1	1	1			
L23 6.96-1.96				1	1	1			
L24 1.96-0.00				1	1	1			

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Sector	Component Type	Placement	Total Number	Number Per Row	Start/End Position	Width or Diameter	Perimeter	Weight
			ft				in	in	plf
LDF6-50A (1-1/4 FOAM)	C	Surface Ar (CaAa)	72.00 - 20.00	3	1	0.000	1.5500		0.66
LDF6-50A (1-1/4 FOAM)	C	Surface Ar (CaAa)	102.70 - 20.00	1	1	0.000	1.5500		0.66
LDF4-50A (1/2 FOAM)	C	Surface Ar (CaAa)	72.00 - 20.00	1	1	0.000	0.6300		0.15
LDF4-50A (1/2 FOAM)	C	Surface Ar (CaAa)	72.00 - 20.00	1	1	0.000	0.6300		0.15
241568 (5/8 SINGLEMODE)	C	Surface Ar (CaAa)	72.00 - 20.00	1	1	0.000	0.6300		0.19
LDF6-50A (1-1/4 FOAM)	C	Surface Af (CaAa)	32.75 - 0.00	1	1	0.000	1.5500	4.8670	0.66
LDF6-50A (1-1/4 FOAM)	B	Surface Af (CaAa)	61.75 - 0.00	1	1	0.000	1.5500	4.8670	0.66
LDF6-50A (1-1/4 FOAM)	A	Surface Af (CaAa)	74.50 - 0.00	1	1	0.000	1.5500	4.8670	0.66

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Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Component Type	Placement ft	Total Number	C _{AA}		Weight plf
						In Face	Out Face	
Climbing Ladder	C	No	CaAa (Out Of Face)	92.00 - 0.00	1	No Ice	0.29	7.90
						1/2" Ice	0.55	10.60
						1" Ice	0.81	13.30
Climbing Ladder	C	No	CaAa (Out Of Face)	82.00 - 0.00	1	No Ice	0.29	7.90
						1/2" Ice	0.55	10.60
						1" Ice	0.81	13.30
LDF5-50A (7/8 FOAM)	B	No	Inside Pole	82.00 - 20.00	12	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33
LDF4-50A (1/2 FOAM)	B	No	Inside Pole	82.00 - 20.00	1	No Ice	0.00	0.15
						1/2" Ice	0.00	0.15
						1" Ice	0.00	0.15
LDF4P-50A (1/2 FOAM)	B	No	Inside Pole	82.00 - 20.00	1	No Ice	0.00	0.15
						1/2" Ice	0.00	0.15
						1" Ice	0.00	0.15
LDF4P-50A (1/2 FOAM)	B	No	Inside Pole	82.00 - 20.00	1	No Ice	0.00	0.15
						1/2" Ice	0.00	0.15
						1" Ice	0.00	0.15
LDF5-50A (7/8 FOAM)	C	No	Inside Pole	90.00 - 20.00	12	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33
LDF4P-50A (1/2 FOAM)	C	No	Inside Pole	28.00 - 0.00	8	No Ice	0.00	0.15
						1/2" Ice	0.00	0.15
						1" Ice	0.00	0.15
LDF6-50A (1-1/4 FOAM)	C	No	Inside Pole	28.00 - 0.00	1	No Ice	0.00	0.66
						1/2" Ice	0.00	0.66
						1" Ice	0.00	0.66
LDF5-50A (7/8 FOAM)	C	No	Inside Pole	101.00 - 20.00	12	No Ice	0.00	0.33
						1/2" Ice	0.00	0.33
						1" Ice	0.00	0.33
LDF2-50A (3/8 FOAM)	C	No	Inside Pole	101.00 - 20.00	1	No Ice	0.00	0.08
						1/2" Ice	0.00	0.08
						1" Ice	0.00	0.08

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L1	102.70-97.70	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.775	0.000	16.63
L2	97.70-92.70	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.775	0.000	23.50
L3	92.70-89.78	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.453	0.644	32.13
L4	89.78-84.78	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00
		C	0.000	0.000	0.775	1.450	82.80
L5	84.78-79.78	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	9.79
		C	0.000	0.000	0.775	2.094	100.34
L6	79.78-74.78	A	0.000	0.000	0.000	0.000	0.00

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Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
		B	0.000	0.000	0.000	0.000	22.05
		C	0.000	0.000	0.775	2.900	122.30
L7	74.78-72.50	A	0.000	0.000	0.517	0.000	1.32
		B	0.000	0.000	0.000	0.000	10.05
		C	0.000	0.000	0.353	1.322	55.77
L8	72.50-67.25	A	0.000	0.000	1.356	0.000	3.46
		B	0.000	0.000	0.000	0.000	23.15
		C	0.000	0.000	2.448	3.045	140.15
L9	67.25-62.25	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	0.000	0.000	22.05
		C	0.000	0.000	2.495	2.900	134.65
L10	62.25-61.75	A	0.000	0.000	0.129	0.000	0.33
		B	0.000	0.000	0.000	0.000	2.21
		C	0.000	0.000	0.250	0.290	13.47
L11	61.75-56.50	A	0.000	0.000	1.356	0.000	3.46
		B	0.000	0.000	1.356	0.000	26.62
		C	0.000	0.000	2.620	3.045	141.38
L12	56.50-51.50	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	25.35
		C	0.000	0.000	2.495	2.900	134.65
L13	51.50-44.98	A	0.000	0.000	1.684	0.000	4.30
		B	0.000	0.000	1.684	0.000	33.06
		C	0.000	0.000	3.253	3.782	175.58
L14	44.98-43.24	A	0.000	0.000	0.449	0.000	1.15
		B	0.000	0.000	0.449	0.000	8.82
		C	0.000	0.000	0.868	1.009	46.86
L15	43.24-38.24	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	25.35
		C	0.000	0.000	2.495	2.900	134.65
L16	38.24-33.24	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	25.35
		C	0.000	0.000	2.495	2.900	134.65
L17	33.24-31.96	A	0.000	0.000	0.331	0.000	0.84
		B	0.000	0.000	0.331	0.000	6.49
		C	0.000	0.000	0.843	0.742	34.99
L18	31.96-26.96	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	25.35
		C	0.000	0.000	3.787	2.900	139.88
L19	26.96-21.96	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	25.35
		C	0.000	0.000	3.787	2.900	147.25
L20	21.96-16.96	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	11.94
		C	0.000	0.000	2.270	2.900	113.41
L21	16.96-11.96	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	3.30
		C	0.000	0.000	1.292	2.900	91.60
L22	11.96-6.96	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	3.30
		C	0.000	0.000	1.292	2.900	91.60
L23	6.96-1.96	A	0.000	0.000	1.292	0.000	3.30
		B	0.000	0.000	1.292	0.000	3.30
		C	0.000	0.000	1.292	2.900	91.60
L24	1.96-0.00	A	0.000	0.000	0.506	0.000	1.29
		B	0.000	0.000	0.506	0.000	1.29
		C	0.000	0.000	0.506	1.137	35.91

Feed Line/Linear Appurtenances Section Areas - With Ice

<p>tnxTower</p> <p>Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120</p>	Job	17902175A	Page	7 of 55
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	Client	T-Mobile	Designed by	

<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face or Leg</i>	<i>Ice Thickness in</i>	<i>A_R ft²</i>	<i>A_F ft²</i>	<i>C_{AA} In Face ft²</i>	<i>C_{AA} Out Face ft²</i>	<i>Weight lb</i>
L1	102.70-97.70	A	1.676	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.451	0.000	49.67
L2	97.70-92.70	A	1.668	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.443	0.000	56.28
L3	92.70-89.78	A	1.661	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	1.422	2.561	71.06
L4	89.78-84.78	A	1.653	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.428	5.748	159.78
L5	84.78-79.78	A	1.643	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.418	8.264	196.47
L6	79.78-74.78	A	1.633	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	2.408	11.392	242.25
L7	74.78-72.50	A	1.625	0.000	0.000	1.167	0.000	15.25
		B		0.000	0.000	0.000	0.000	10.05
		C		0.000	0.000	1.095	5.176	110.17
L8	72.50-67.25	A	1.617	0.000	0.000	3.054	0.000	39.73
		B		0.000	0.000	0.000	0.000	23.15
		C		0.000	0.000	10.289	11.872	417.04
L9	67.25-62.25	A	1.605	0.000	0.000	2.896	0.000	37.43
		B		0.000	0.000	0.000	0.000	22.05
		C		0.000	0.000	10.518	11.243	410.67
L10	62.25-61.75	A	1.598	0.000	0.000	0.289	0.000	3.72
		B		0.000	0.000	0.000	0.000	2.21
		C		0.000	0.000	1.048	1.121	40.90
L11	61.75-56.50	A	1.590	0.000	0.000	3.026	0.000	38.80
		B		0.000	0.000	3.026	0.000	61.96
		C		0.000	0.000	10.967	11.726	427.55
L12	56.50-51.50	A	1.576	0.000	0.000	2.867	0.000	36.48
		B		0.000	0.000	2.867	0.000	58.53
		C		0.000	0.000	10.373	11.093	403.76
L13	51.50-44.98	A	1.558	0.000	0.000	3.716	0.000	46.82
		B		0.000	0.000	3.716	0.000	75.58
		C		0.000	0.000	13.411	14.345	521.01
L14	44.98-43.24	A	1.544	0.000	0.000	0.992	0.000	12.50
		B		0.000	0.000	0.992	0.000	20.17
		C		0.000	0.000	3.579	3.828	139.04
L15	43.24-38.24	A	1.532	0.000	0.000	2.824	0.000	35.07
		B		0.000	0.000	2.824	0.000	57.12
		C		0.000	0.000	10.154	10.866	393.41
L16	38.24-33.24	A	1.512	0.000	0.000	2.804	0.000	34.43
		B		0.000	0.000	2.804	0.000	56.48
		C		0.000	0.000	10.055	10.762	388.76
L17	33.24-31.96	A	1.498	0.000	0.000	0.714	0.000	8.70
		B		0.000	0.000	0.714	0.000	14.35
		C		0.000	0.000	2.997	2.737	104.08
L18	31.96-26.96	A	1.483	0.000	0.000	2.775	0.000	33.52
		B		0.000	0.000	2.775	0.000	55.57
		C		0.000	0.000	12.684	10.611	417.51
L19	26.96-21.96	A	1.456	0.000	0.000	2.747	0.000	32.67
		B		0.000	0.000	2.747	0.000	54.72
		C		0.000	0.000	12.520	10.469	417.76
L20	21.96-16.96	A	1.423	0.000	0.000	2.714	0.000	31.66
		B		0.000	0.000	2.714	0.000	40.31
		C		0.000	0.000	6.481	10.298	280.09

<p>tnxTower</p> <p>Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120</p>	Job	17902175A	Page	8 of 55
	Project	Town of Newport	Date	16:14:06 10/18/18
	Client	T-Mobile	Designed by	

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A _R ft ²	A _F ft ²	C _{AA} In Face ft ²	C _{AA} Out Face ft ²	Weight lb
L21	16.96-11.96	A	1.381	0.000	0.000	2.673	0.000	30.41
		B		0.000	0.000	2.673	0.000	30.41
		C		0.000	0.000	2.673	10.081	193.28
L22	11.96-6.96	A	1.324	0.000	0.000	2.615	0.000	28.72
		B		0.000	0.000	2.615	0.000	28.72
		C		0.000	0.000	2.615	9.783	188.49
L23	6.96-1.96	A	1.227	0.000	0.000	2.519	0.000	26.01
		B		0.000	0.000	2.519	0.000	26.01
		C		0.000	0.000	2.519	9.283	180.59
L24	1.96-0.00	A	1.055	0.000	0.000	0.920	0.000	8.42
		B		0.000	0.000	0.920	0.000	8.42
		C		0.000	0.000	0.920	3.287	65.36

Feed Line Center of Pressure

Section	Elevation ft	CP _X in	CP _Z in	CP _X Ice in	CP _Z Ice in
L1	102.70-97.70	0.0000	0.2276	0.0000	0.4812
L2	97.70-92.70	0.0000	0.2276	0.0000	0.4803
L3	92.70-89.78	-0.2127	0.3160	-0.4530	0.5868
L4	89.78-84.78	-0.2685	0.3393	-0.5571	0.6240
L5	84.78-79.78	-0.3745	0.3910	-0.7455	0.7055
L6	79.78-74.78	-0.4896	0.4476	-0.9322	0.7867
L7	74.78-72.50	-0.6413	0.3070	-1.0810	0.6167
L8	72.50-67.25	-0.6023	0.5704	-0.8882	1.0867
L9	67.25-62.25	-0.6162	0.6113	-0.9199	1.1821
L10	62.25-61.75	-0.6266	0.6195	-0.9468	1.2132
L11	61.75-56.50	-0.4032	0.4736	-0.7102	1.0409
L12	56.50-51.50	-0.4156	0.4850	-0.7457	1.0872
L13	51.50-44.98	-0.4286	0.4969	-0.7836	1.1364
L14	44.98-43.24	-0.4320	0.5000	-0.7943	1.1505
L15	43.24-38.24	-0.4396	0.5070	-0.8154	1.1770
L16	38.24-33.24	-0.4492	0.5158	-0.8443	1.2140
L17	33.24-31.96	-0.4370	0.6436	-0.8251	1.3420
L18	31.96-26.96	-0.4328	0.7235	-0.8206	1.4293
L19	26.96-21.96	-0.4414	0.7358	-0.8444	1.4671
L20	21.96-16.96	-0.4804	0.4791	-0.9999	1.0246
L21	16.96-11.96	-0.5096	0.2942	-1.1271	0.6508
L22	11.96-6.96	-0.5162	0.2980	-1.1365	0.6562
L23	6.96-1.96	-0.5224	0.3016	-1.1302	0.6525
L24	1.96-0.00	-0.5269	0.3042	-1.0854	0.6266

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L1	4	LDF6-50A (1-1/4 FOAM)	97.70 - 102.70	1.0000	1.0000
L2	4	LDF6-50A (1-1/4 FOAM)	92.70 - 97.70	1.0000	1.0000
L3	4	LDF6-50A (1-1/4 FOAM)	89.78 - 92.70	1.0000	1.0000
L4	4	LDF6-50A (1-1/4 FOAM)	84.78 - 89.78	1.0000	1.0000

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
L5	4	LDF6-50A (1-1/4 FOAM)	79.78 - 84.78	1.0000	1.0000
L6	4	LDF6-50A (1-1/4 FOAM)	74.78 - 79.78	1.0000	1.0000
L7	4	LDF6-50A (1-1/4 FOAM)	72.50 - 74.78	1.0000	1.0000
L7	10	LDF6-50A (1-1/4 FOAM)	72.50 - 74.50	1.0000	1.0000
L8	3	LDF6-50A (1-1/4 FOAM)	67.25 - 72.00	1.0000	1.0000
L8	4	LDF6-50A (1-1/4 FOAM)	67.25 - 72.50	1.0000	1.0000
L8	5	LDF4-50A (1/2 FOAM)	67.25 - 72.00	1.0000	1.0000
L8	6	LDF4-50A (1/2 FOAM)	67.25 - 72.00	1.0000	1.0000
L8	7	241568 (5/8 SINGLEMODE)	67.25 - 72.00	1.0000	1.0000
L8	10	LDF6-50A (1-1/4 FOAM)	67.25 - 72.50	1.0000	1.0000
L9	3	LDF6-50A (1-1/4 FOAM)	62.25 - 67.25	1.0000	1.0000
L9	4	LDF6-50A (1-1/4 FOAM)	62.25 - 67.25	1.0000	1.0000
L9	5	LDF4-50A (1/2 FOAM)	62.25 - 67.25	1.0000	1.0000
L9	6	LDF4-50A (1/2 FOAM)	62.25 - 67.25	1.0000	1.0000
L9	7	241568 (5/8 SINGLEMODE)	62.25 - 67.25	1.0000	1.0000
L9	10	LDF6-50A (1-1/4 FOAM)	62.25 - 67.25	1.0000	1.0000
L10	3	LDF6-50A (1-1/4 FOAM)	61.75 - 62.25	1.0000	1.0000
L10	4	LDF6-50A (1-1/4 FOAM)	61.75 - 62.25	1.0000	1.0000
L10	5	LDF4-50A (1/2 FOAM)	61.75 - 62.25	1.0000	1.0000
L10	6	LDF4-50A (1/2 FOAM)	61.75 - 62.25	1.0000	1.0000
L10	7	241568 (5/8 SINGLEMODE)	61.75 - 62.25	1.0000	1.0000
L10	10	LDF6-50A (1-1/4 FOAM)	61.75 - 62.25	1.0000	1.0000
L11	3	LDF6-50A (1-1/4 FOAM)	56.50 - 61.75	1.0000	1.0000
L11	4	LDF6-50A (1-1/4 FOAM)	56.50 - 61.75	1.0000	1.0000
L11	5	LDF4-50A (1/2 FOAM)	56.50 - 61.75	1.0000	1.0000
L11	6	LDF4-50A (1/2 FOAM)	56.50 - 61.75	1.0000	1.0000
L11	7	241568 (5/8 SINGLEMODE)	56.50 - 61.75	1.0000	1.0000
L11	9	LDF6-50A (1-1/4 FOAM)	56.50 - 61.75	1.0000	1.0000
L11	10	LDF6-50A (1-1/4 FOAM)	56.50 - 61.75	1.0000	1.0000
L12	3	LDF6-50A (1-1/4 FOAM)	51.50 - 56.50	1.0000	1.0000
L12	4	LDF6-50A (1-1/4 FOAM)	51.50 - 56.50	1.0000	1.0000
L12	5	LDF4-50A (1/2 FOAM)	51.50 - 56.50	1.0000	1.0000
L12	6	LDF4-50A (1/2 FOAM)	51.50 - 56.50	1.0000	1.0000
L12	7	241568 (5/8 SINGLEMODE)	51.50 - 56.50	1.0000	1.0000
L12	9	LDF6-50A (1-1/4 FOAM)	51.50 - 56.50	1.0000	1.0000
L12	10	LDF6-50A (1-1/4 FOAM)	51.50 - 56.50	1.0000	1.0000
L13	3	LDF6-50A (1-1/4 FOAM)	44.98 - 51.50	1.0000	1.0000
L13	4	LDF6-50A (1-1/4 FOAM)	44.98 - 51.50	1.0000	1.0000
L13	5	LDF4-50A (1/2 FOAM)	44.98 - 51.50	1.0000	1.0000
L13	6	LDF4-50A (1/2 FOAM)	44.98 - 51.50	1.0000	1.0000
L13	7	241568 (5/8 SINGLEMODE)	44.98 - 51.50	1.0000	1.0000
L13	9	LDF6-50A (1-1/4 FOAM)	44.98 - 51.50	1.0000	1.0000
L13	10	LDF6-50A (1-1/4 FOAM)	44.98 - 51.50	1.0000	1.0000
L15	3	LDF6-50A (1-1/4 FOAM)	38.24 - 43.24	1.0000	1.0000
L15	4	LDF6-50A (1-1/4 FOAM)	38.24 - 43.24	1.0000	1.0000
L15	5	LDF4-50A (1/2 FOAM)	38.24 - 43.24	1.0000	1.0000
L15	6	LDF4-50A (1/2 FOAM)	38.24 - 43.24	1.0000	1.0000
L15	7	241568 (5/8 SINGLEMODE)	38.24 - 43.24	1.0000	1.0000
L15	9	LDF6-50A (1-1/4 FOAM)	38.24 - 43.24	1.0000	1.0000
L15	10	LDF6-50A (1-1/4 FOAM)	38.24 - 43.24	1.0000	1.0000
L16	3	LDF6-50A (1-1/4 FOAM)	33.24 - 38.24	1.0000	1.0000
L16	4	LDF6-50A (1-1/4 FOAM)	33.24 - 38.24	1.0000	1.0000
L16	5	LDF4-50A (1/2 FOAM)	33.24 - 38.24	1.0000	1.0000
L16	6	LDF4-50A (1/2 FOAM)	33.24 - 38.24	1.0000	1.0000
L16	7	241568 (5/8 SINGLEMODE)	33.24 - 38.24	1.0000	1.0000
L16	9	LDF6-50A (1-1/4 FOAM)	33.24 - 38.24	1.0000	1.0000
L16	10	LDF6-50A (1-1/4 FOAM)	33.24 - 38.24	1.0000	1.0000
L17	3	LDF6-50A (1-1/4 FOAM)	31.96 - 33.24	1.0000	1.0000
L17	4	LDF6-50A (1-1/4 FOAM)	31.96 - 33.24	1.0000	1.0000
L17	5	LDF4-50A (1/2 FOAM)	31.96 - 33.24	1.0000	1.0000
L17	6	LDF4-50A (1/2 FOAM)	31.96 - 33.24	1.0000	1.0000
L17	7	241568 (5/8 SINGLEMODE)	31.96 - 33.24	1.0000	1.0000

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job 17902175A	Page 10 of 55
	Project Town of Newport	Date 16:14:06 10/18/18
	Client T-Mobile	Designed by

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
L17	8	LDF6-50A (1-1/4 FOAM)	31.96 - 32.75	1.0000	1.0000
L17	9	LDF6-50A (1-1/4 FOAM)	31.96 - 33.24	1.0000	1.0000
L17	10	LDF6-50A (1-1/4 FOAM)	31.96 - 33.24	1.0000	1.0000
L18	3	LDF6-50A (1-1/4 FOAM)	26.96 - 31.96	1.0000	1.0000
L18	4	LDF6-50A (1-1/4 FOAM)	26.96 - 31.96	1.0000	1.0000
L18	5	LDF4-50A (1/2 FOAM)	26.96 - 31.96	1.0000	1.0000
L18	6	LDF4-50A (1/2 FOAM)	26.96 - 31.96	1.0000	1.0000
L18	7	241568 (5/8 SINGLEMODE)	26.96 - 31.96	1.0000	1.0000
L18	8	LDF6-50A (1-1/4 FOAM)	26.96 - 31.96	1.0000	1.0000
L18	9	LDF6-50A (1-1/4 FOAM)	26.96 - 31.96	1.0000	1.0000
L18	10	LDF6-50A (1-1/4 FOAM)	26.96 - 31.96	1.0000	1.0000
L19	3	LDF6-50A (1-1/4 FOAM)	21.96 - 26.96	1.0000	1.0000
L19	4	LDF6-50A (1-1/4 FOAM)	21.96 - 26.96	1.0000	1.0000
L19	5	LDF4-50A (1/2 FOAM)	21.96 - 26.96	1.0000	1.0000
L19	6	LDF4-50A (1/2 FOAM)	21.96 - 26.96	1.0000	1.0000
L19	7	241568 (5/8 SINGLEMODE)	21.96 - 26.96	1.0000	1.0000
L19	8	LDF6-50A (1-1/4 FOAM)	21.96 - 26.96	1.0000	1.0000
L19	9	LDF6-50A (1-1/4 FOAM)	21.96 - 26.96	1.0000	1.0000
L19	10	LDF6-50A (1-1/4 FOAM)	21.96 - 26.96	1.0000	1.0000
L20	3	LDF6-50A (1-1/4 FOAM)	20.00 - 21.96	1.0000	1.0000
L20	4	LDF6-50A (1-1/4 FOAM)	20.00 - 21.96	1.0000	1.0000
L20	5	LDF4-50A (1/2 FOAM)	20.00 - 21.96	1.0000	1.0000
L20	6	LDF4-50A (1/2 FOAM)	20.00 - 21.96	1.0000	1.0000
L20	7	241568 (5/8 SINGLEMODE)	20.00 - 21.96	1.0000	1.0000
L20	8	LDF6-50A (1-1/4 FOAM)	16.96 - 21.96	1.0000	1.0000
L20	9	LDF6-50A (1-1/4 FOAM)	16.96 - 21.96	1.0000	1.0000
L20	10	LDF6-50A (1-1/4 FOAM)	16.96 - 21.96	1.0000	1.0000
L21	8	LDF6-50A (1-1/4 FOAM)	11.96 - 16.96	1.0000	1.0000
L21	9	LDF6-50A (1-1/4 FOAM)	11.96 - 16.96	1.0000	1.0000
L21	10	LDF6-50A (1-1/4 FOAM)	11.96 - 16.96	1.0000	1.0000
L22	8	LDF6-50A (1-1/4 FOAM)	6.96 - 11.96	1.0000	1.0000
L22	9	LDF6-50A (1-1/4 FOAM)	6.96 - 11.96	1.0000	1.0000
L22	10	LDF6-50A (1-1/4 FOAM)	6.96 - 11.96	1.0000	1.0000
L23	8	LDF6-50A (1-1/4 FOAM)	1.96 - 6.96	1.0000	1.0000
L23	9	LDF6-50A (1-1/4 FOAM)	1.96 - 6.96	1.0000	1.0000
L23	10	LDF6-50A (1-1/4 FOAM)	1.96 - 6.96	1.0000	1.0000
L24	8	LDF6-50A (1-1/4 FOAM)	0.00 - 1.96	1.0000	1.0000
L24	9	LDF6-50A (1-1/4 FOAM)	0.00 - 1.96	1.0000	1.0000
L24	10	LDF6-50A (1-1/4 FOAM)	0.00 - 1.96	1.0000	1.0000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C _A A _A Front ft ²	C _A A _A Side ft ²	Weight lb	
5' Sector Frame T-arm	A	From Leg	0.00	0.0000	101.00	No Ice	2.72	2.72	50.00
			0.00			1/2" Ice	4.91	4.91	89.00
			0.00			1" Ice	7.10	7.10	128.00
5' Sector Frame T-arm	B	From Leg	0.00	0.0000	101.00	No Ice	2.72	2.72	50.00
			0.00			1/2" Ice	4.91	4.91	89.00
			0.00			1" Ice	7.10	7.10	128.00

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	Client	T-Mobile	Designed by	

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
5' Sector Frame T-arm	C	From Leg	0.00	0.00	0.0000	101.00	No Ice	2.72	50.00
			0.00	0.00			1/2" Ice	4.91	89.00
			0.00	0.00			1" Ice	7.10	128.00
7770 (AT&T)	A	From Leg	4.00	0.00	0.0000	90.00	No Ice	5.51	35.00
			0.00	0.00			1/2" Ice	5.87	67.63
			0.00	0.00			1" Ice	6.23	105.06
7770 (AT&T)	B	From Leg	4.00	0.00	0.0000	90.00	No Ice	5.51	35.00
			0.00	0.00			1/2" Ice	5.87	67.63
			0.00	0.00			1" Ice	6.23	105.06
7770 (AT&T)	C	From Leg	4.00	0.00	0.0000	90.00	No Ice	5.51	35.00
			0.00	0.00			1/2" Ice	5.87	67.63
			0.00	0.00			1" Ice	6.23	105.06
AM-X-CD-16-65-OOT-RET (AT&T)	A	From Face	4.00	0.00	0.0000	90.00	No Ice	8.02	48.50
			0.00	0.00			1/2" Ice	8.48	95.00
			0.00	0.00			1" Ice	8.94	147.50
AM-X-CD-16-65-OOT-RET (AT&T)	B	From Leg	4.00	0.00	0.0000	90.00	No Ice	8.02	48.50
			0.00	0.00			1/2" Ice	8.48	95.00
			0.00	0.00			1" Ice	8.94	147.50
AM-X-CD-16-65-OOT-RET (AT&T)	C	From Leg	4.00	0.00	0.0000	90.00	No Ice	8.02	48.50
			0.00	0.00			1/2" Ice	8.48	95.00
			0.00	0.00			1" Ice	8.94	147.50
800-10965 (AT&T)	A	From Leg	4.00	0.00	0.0000	90.00	No Ice	14.16	137.80
			0.00	0.00			1/2" Ice	14.84	235.43
			0.00	0.00			1" Ice	15.50	342.19
800-10965 (AT&T)	B	From Leg	4.00	0.00	0.0000	90.00	No Ice	14.16	137.80
			0.00	0.00			1/2" Ice	14.84	235.43
			0.00	0.00			1" Ice	15.50	342.19
800-10965 (AT&T)	C	From Leg	4.00	0.00	0.0000	90.00	No Ice	14.16	137.80
			0.00	0.00			1/2" Ice	14.84	235.43
			0.00	0.00			1" Ice	15.50	342.19
QS66512-2 (AT&T)	A	From Leg	4.00	0.00	0.0000	90.00	No Ice	8.13	111.00
			0.00	0.00			1/2" Ice	8.59	168.20
			0.00	0.00			1" Ice	9.05	231.66
QS66512-2 (AT&T)	B	From Leg	4.00	0.00	0.0000	90.00	No Ice	8.13	111.00
			0.00	0.00			1/2" Ice	8.59	168.20
			0.00	0.00			1" Ice	9.05	231.66
QS66512-2 (AT&T)	C	From Leg	4.00	0.00	0.0000	90.00	No Ice	8.13	111.00
			0.00	0.00			1/2" Ice	8.59	168.20
			0.00	0.00			1" Ice	9.05	231.66
RRUS 32 (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice	2.72	52.90
			0.00	0.00			1/2" Ice	2.94	73.90
			0.00	0.00			1" Ice	3.17	98.09
RRUS 32 (AT&T)	B	From Leg	3.00	0.00	0.0000	9.00 - 90.00	No Ice	2.72	52.90
			0.00	0.00			1/2" Ice	2.94	73.90
			0.00	0.00			1" Ice	3.17	98.09
RRUS 32 (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice	2.72	52.90
			0.00	0.00			1/2" Ice	2.94	73.90
			0.00	0.00			1" Ice	3.17	98.09
RRUSB14 + 4478 B5 Shielded (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice	0.02	107.40
			0.00	0.00			1/2" Ice	0.15	114.91
			0.00	0.00			1" Ice	0.25	124.47
RRUSB14 + 4478 B5 Shielded (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice	0.02	107.40
			0.00	0.00			1/2" Ice	0.15	114.91
			0.00	0.00			1" Ice	0.25	124.47
RRUSB14 + 4478 B5 Shielded (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice	0.02	107.40
			0.00	0.00			1/2" Ice	0.15	114.91
			0.00	0.00			1" Ice	0.25	124.47

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
RRUS 32 B2 (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice 2.72	1.67	52.90
			0.00	0.00			1/2" Ice 2.94	1.86	73.90
			0.00	0.00			1" Ice 3.17	2.05	98.09
RRUS 32 B2 (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 2.72	1.67	52.90
			0.00	0.00			1/2" Ice 2.94	1.86	73.90
			0.00	0.00			1" Ice 3.17	2.05	98.09
RRUS 32 B2 (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 2.72	1.67	52.90
			0.00	0.00			1/2" Ice 2.94	1.86	73.90
			0.00	0.00			1" Ice 3.17	2.05	98.09
RRUS 4426 B66 (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice 1.65	0.68	46.00
			0.00	0.00			1/2" Ice 1.81	0.79	58.47
			0.00	0.00			1" Ice 1.98	0.92	73.32
RRUS 4426 B66 (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 1.65	0.68	46.00
			0.00	0.00			1/2" Ice 1.81	0.79	58.47
			0.00	0.00			1" Ice 1.98	0.92	73.32
RRUS 4426 B66 (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 1.65	0.68	46.00
			0.00	0.00			1/2" Ice 1.81	0.79	58.47
			0.00	0.00			1" Ice 1.98	0.92	73.32
RRUS11 B12 (Partial Shielded by 11.9" Antenna) (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.88	1.18	50.70
			0.00	0.00			1/2" Ice 1.02	1.33	60.68
			0.00	0.00			1" Ice 1.16	1.48	72.93
RRUS11 B12 (Partial Shielded by 11.9" Antenna) (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.88	1.18	50.70
			0.00	0.00			1/2" Ice 1.02	1.33	60.68
			0.00	0.00			1" Ice 1.16	1.48	72.93
RRUS11 B12 (Partial Shielded by 11.9" Antenna) (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.88	1.18	50.70
			0.00	0.00			1/2" Ice 1.02	1.33	60.68
			0.00	0.00			1" Ice 1.16	1.48	72.93
DC6-48-06-18-8F (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice 1.20	1.20	32.00
			0.00	0.00			1/2" Ice 1.88	1.88	53.81
			0.00	0.00			1" Ice 2.09	2.09	78.48
DC6-48-06-18-8F (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 1.20	1.20	32.00
			0.00	0.00			1/2" Ice 1.88	1.88	53.81
			0.00	0.00			1" Ice 2.09	2.09	78.48
DC6-48-06-18-8F (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 1.20	1.20	32.00
			0.00	0.00			1/2" Ice 1.88	1.88	53.81
			0.00	0.00			1" Ice 2.09	2.09	78.48
(2) LGP 17201 (Front Shielded by Antenna) (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00 - 90.00	No Ice 0.02	0.41	20.00
			0.00	0.00			1/2" Ice 0.12	0.50	22.16
			0.00	0.00			1" Ice 0.20	0.59	25.56
(2) LGP 17201 (Front Shielded by Antenna) (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.02	0.41	20.00
			0.00	0.00			1/2" Ice 0.12	0.50	22.16
			0.00	0.00			1" Ice 0.20	0.59	25.56
(2) LGP 17201 (Front Shielded by Antenna) (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.02	0.41	20.00
			0.00	0.00			1/2" Ice 0.12	0.50	22.16
			0.00	0.00			1" Ice 0.20	0.59	25.56
(2) DBC0061F1V51-2 Twin Unit (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.43	0.41	18.30
			0.00	0.00			1/2" Ice 0.51	0.50	23.58
			0.00	0.00			1" Ice 0.61	0.59	30.39
(2) DBC0061F1V51-2 Twin Unit (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.43	0.41	18.30
			0.00	0.00			1/2" Ice 0.51	0.50	23.58
			0.00	0.00			1" Ice 0.61	0.59	30.39
(2) DBC0061F1V51-2 Twin Unit (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.43	0.41	18.30
			0.00	0.00			1/2" Ice 0.51	0.50	23.58
			0.00	0.00			1" Ice 0.61	0.59	30.39
(2) TPX070821 (AT&T)	A	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.47	0.10	7.50
			0.00	0.00			1/2" Ice 0.56	0.15	10.95
			0.00	0.00			1" Ice 0.66	0.20	15.73

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Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	CAAA Front	CAAA Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
(2) TPX070821 (AT&T)	B	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.47	0.10	7.50
			0.00	0.00			1/2" Ice 0.56	0.15	10.95
			0.00	0.00			1" Ice 0.66	0.20	15.73
(2) TPX070821 (AT&T)	C	From Leg	3.00	0.00	0.0000	90.00	No Ice 0.47	0.10	7.50
			0.00	0.00			1/2" Ice 0.56	0.15	10.95
			0.00	0.00			1" Ice 0.66	0.20	15.73
Rohn 14' Rotable Platform (AT&T)	C	None			0.0000	90.00	No Ice 41.00	41.00	2500.00
							1/2" Ice 56.00	56.00	3000.00
							1" Ice 71.00	71.00	3500.00
MGD3-900TX (Verizon)	A	From Leg	4.00	0.00	0.0000	82.00	No Ice 4.78	3.60	20.00
			0.00	0.00			1/2" Ice 5.24	4.04	47.16
			0.00	0.00			1" Ice 5.70	4.49	79.89
MGD3-900TX (Verizon)	B	From Leg	4.00	0.00	0.0000	82.00	No Ice 4.78	3.60	20.00
			0.00	0.00			1/2" Ice 5.24	4.04	47.16
			0.00	0.00			1" Ice 5.70	4.49	79.89
MGD3-900TX (Verizon)	C	From Leg	4.00	0.00	0.0000	82.00	No Ice 4.78	3.60	20.00
			0.00	0.00			1/2" Ice 5.24	4.04	47.16
			0.00	0.00			1" Ice 5.70	4.49	79.89
BXA-171063-12BF-EDIN-X (Verizon)	A	From Leg	4.00	0.00	0.0000	82.00	No Ice 4.80	3.63	12.80
			0.00	0.00			1/2" Ice 5.25	4.06	40.29
			0.00	0.00			1" Ice 5.71	4.51	73.33
BXA-171063-12BF-EDIN-X (Verizon)	B	From Leg	4.00	0.00	0.0000	82.00	No Ice 4.80	3.63	12.80
			0.00	0.00			1/2" Ice 5.25	4.06	40.29
			0.00	0.00			1" Ice 5.71	4.51	73.33
BXA-171063-12BF-EDIN-X (Verizon)	C	From Leg	4.00	0.00	0.0000	82.00	No Ice 4.80	3.63	12.80
			0.00	0.00			1/2" Ice 5.25	4.06	40.29
			0.00	0.00			1" Ice 5.71	4.51	73.33
(2) BXA-70063-6CF-EDIN-X (Verizon)	A	From Leg	4.00	0.00	0.0000	82.00	No Ice 14.41	5.72	38.00
			0.00	0.00			1/2" Ice 14.92	6.17	120.76
			0.00	0.00			1" Ice 15.44	6.63	210.38
(2) BXA-70063-6CF-EDIN-X (Verizon)	B	From Leg	4.00	0.00	0.0000	82.00	No Ice 14.41	5.72	38.00
			0.00	0.00			1/2" Ice 14.92	6.17	120.76
			0.00	0.00			1" Ice 15.44	6.63	210.38
(2) BXA-70063-6CF-EDIN-X (Verizon)	C	From Leg	4.00	0.00	0.0000	82.00	No Ice 14.41	5.72	38.00
			0.00	0.00			1/2" Ice 14.92	6.17	120.76
			0.00	0.00			1" Ice 15.44	6.63	210.38
(2) RRH2x40-07L (Verizon)	A	From Leg	4.00	0.00	0.0000	82.00	No Ice 2.10	2.10	50.00
			0.00	0.00			1/2" Ice 2.29	2.29	72.49
			0.00	0.00			1" Ice 2.48	2.48	98.09
(2) RRH2x40-07L (Verizon)	B	From Leg	4.00	0.00	0.0000	82.00	No Ice 2.10	2.10	50.00
			0.00	0.00			1/2" Ice 2.29	2.29	72.49
			0.00	0.00			1" Ice 2.48	2.48	98.09
(2) RRH2x40-07L (Verizon)	C	From Leg	4.00	0.00	0.0000	82.00	No Ice 2.10	2.10	50.00
			0.00	0.00			1/2" Ice 2.29	2.29	72.49
			0.00	0.00			1" Ice 2.48	2.48	98.09
(2) RRH 1900 MHz	A	From Leg	1.00	0.00	0.0000	73.00 - 75.00	No Ice 2.58	2.54	60.00
			0.00	0.00			1/2" Ice 2.79	2.75	86.47
			0.00	0.00			1" Ice 3.01	2.97	116.36
(2) RRH 1900 MHz	B	From Leg	1.00	0.00	0.0000	7.00 - 75.00	No Ice 2.58	2.54	60.00
			0.00	0.00			1/2" Ice 2.79	2.75	86.47
			0.00	0.00			1" Ice 3.01	2.97	116.36
(2) RRH 1900 MHz	C	From Leg	1.00	0.00	0.0000	75.00	No Ice 2.58	2.54	60.00
			0.00	0.00			1/2" Ice 2.79	2.75	86.47
			0.00	0.00			1" Ice 3.01	2.97	116.36
RRH 800 MHz	A	From Leg	1.00	0.00	0.0000	73.00	No Ice 2.40	2.25	64.00
			0.00	0.00			1/2" Ice 2.61	2.46	86.12
			0.00	0.00			1" Ice 2.83	2.68	111.30

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<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert</i> <i>ft ft ft</i>	<i>Azimuth Adjustment</i> <i>°</i>	<i>Placement</i> <i>ft</i>	<i>CAAA Front</i> <i>ft²</i>	<i>CAAA Side</i> <i>ft²</i>	<i>Weight</i> <i>lb</i>
RRH 800 MHz	B	From Leg	1.00 0.00 0.00	0.0000	73.00	No Ice 2.40 1/2" Ice 2.61 1" Ice 2.83	2.25 2.46 2.68	64.00 86.12 111.30
RRH 800 MHz	C	From Leg	1.00 0.00 0.00	0.0000	73.00	No Ice 2.40 1/2" Ice 2.61 1" Ice 2.83	2.25 2.46 2.68	64.00 86.12 111.30
Rohn 14' Rotable Platform (Verizon)	C	None		0.0000	82.00	No Ice 41.00 1/2" Ice 56.00 1" Ice 71.00	41.00 56.00 71.00	2500.00 3000.00 3500.00
APXVTM14-CI20	A	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 6.34 1/2" Ice 6.72 1" Ice 7.10	3.61 3.97 4.33	56.20 95.73 140.32
APXVTM14-CI20	B	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 6.34 1/2" Ice 6.72 1" Ice 7.10	3.61 3.97 4.33	56.20 95.73 140.32
APXVTM14-CI20	C	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 6.34 1/2" Ice 6.72 1" Ice 7.10	3.61 3.97 4.33	56.20 95.73 140.32
APXVSPP18-C	A	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 8.02 1/2" Ice 8.48 1" Ice 8.94	5.28 5.74 6.20	57.00 106.52 162.12
APXVSPP18-C	B	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 8.02 1/2" Ice 8.48 1" Ice 8.94	5.28 5.74 6.20	57.00 106.52 162.12
APXVSPP18-C	C	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 8.02 1/2" Ice 8.48 1" Ice 8.94	5.28 5.74 6.20	57.00 106.52 162.12
RRH8x20-25	A	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 4.72 1/2" Ice 5.01 1" Ice 5.32	1.70 1.92 2.14	70.00 97.14 127.80
RRH8x20-25	B	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 4.72 1/2" Ice 5.01 1" Ice 5.32	1.70 1.92 2.14	70.00 97.14 127.80
RRH8x20-25	C	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 4.72 1/2" Ice 5.01 1" Ice 5.32	1.70 1.92 2.14	70.00 97.14 127.80
Junction Box	C	From Leg	4.00 0.00 0.00	0.0000	72.00	No Ice 0.97 1/2" Ice 1.11 1" Ice 1.25	0.97 1.11 1.25	15.00 25.00 35.00
14' T Arm round	A	From Leg	2.00 0.00 0.00	0.0000	72.00	No Ice 3.50 1/2" Ice 5.25 1" Ice 7.88	1.60 2.40 3.60	336.00 412.00 488.00
14' T Arm round	B	From Leg	2.00 0.00 0.00	0.0000	72.00	No Ice 3.50 1/2" Ice 5.25 1" Ice 7.88	1.60 2.40 3.60	336.00 412.00 488.00
14' T Arm round	C	From Leg	2.00 0.00 0.00	0.0000	72.00	No Ice 3.50 1/2" Ice 5.25 1" Ice 7.88	1.60 2.40 3.60	336.00 412.00 488.00
14' T Arm round	A	From Leg	1.00 0.00 0.00	0.0000	28.00	No Ice 3.50 1/2" Ice 5.25 1" Ice 7.88	1.60 2.40 3.60	336.00 412.00 488.00
5' Sector Frame T-arm	A	From Leg	1.00 0.00 0.00	0.0000	28.00	No Ice 2.72 1/2" Ice 4.91 1" Ice 7.10	2.72 4.91 7.10	50.00 89.00 128.00
5' Sector Frame T-arm	A	From Leg	1.00 0.00 0.00	0.0000	28.00	No Ice 2.72 1/2" Ice 4.91 1" Ice 7.10	2.72 4.91 7.10	50.00 89.00 128.00

tnxTower

Maser Consulting
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 Phone: 856 797-0412
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Client	T-Mobile	Designed by	

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L1 102.70-97.70	100.20	1.266	29	5.417	A	0.000	5.417	5.417	100.00	0.000	0.000
					B	0.000	5.417		100.00	0.000	0.000
					C	0.000	5.417		100.00	0.775	0.000
L2 97.70-92.70	95.20	1.253	29	5.417	A	0.000	5.417	5.417	100.00	0.000	0.000
					B	0.000	5.417		100.00	0.000	0.000
					C	0.000	5.417		100.00	0.775	0.000
L3 92.70-89.78	91.24	1.241	28	3.163	A	0.000	3.163	3.163	100.00	0.000	0.000
					B	0.000	3.163		100.00	0.000	0.000
					C	0.000	3.163		100.00	0.453	0.644
L4 89.78-84.78	87.23	1.23	28	5.826	A	0.000	5.826	5.826	100.00	0.000	0.000
					B	0.000	5.826		100.00	0.000	0.000
					C	0.000	5.826		100.00	0.775	1.450
L5 84.78-79.78	82.24	1.215	28	6.477	A	0.000	6.477	6.477	100.00	0.000	0.000
					B	0.000	6.477		100.00	0.000	0.000
					C	0.000	6.477		100.00	0.775	2.094
L6 79.78-74.78	77.24	1.199	27	7.128	A	0.000	7.128	7.128	100.00	0.000	0.000
					B	0.000	7.128		100.00	0.000	0.000
					C	0.000	7.128		100.00	0.775	2.900
L7 74.78-72.50	73.63	1.187	27	3.467	A	0.000	3.467	3.467	100.00	0.517	0.000
					B	0.000	3.467		100.00	0.000	0.000
					C	0.000	3.467		100.00	0.353	1.322
L8 72.50-67.25	69.84	1.173	27	8.498	A	0.000	8.498	8.498	100.00	1.356	0.000
					B	0.000	8.498		100.00	0.000	0.000
					C	0.000	8.498		100.00	2.448	3.045
L9 67.25-62.25	64.72	1.155	26	8.761	A	0.000	8.761	8.761	100.00	1.292	0.000
					B	0.000	8.761		100.00	0.000	0.000
					C	0.000	8.761		100.00	2.495	2.900
L10 62.25-61.75	62.00	1.144	26	0.912	A	0.000	0.912	0.912	100.00	0.129	0.000
					B	0.000	0.912		100.00	0.000	0.000
					C	0.000	0.912		100.00	0.250	0.290
L11 61.75-56.50	59.09	1.133	26	9.968	A	0.000	9.968	9.968	100.00	1.356	0.000
					B	0.000	9.968		100.00	1.356	0.000
					C	0.000	9.968		100.00	2.620	3.045
L12 56.50-51.50	53.97	1.112	25	10.161	A	0.000	10.161	10.161	100.00	1.292	0.000
					B	0.000	10.161		100.00	1.292	0.000
					C	0.000	10.161		100.00	2.495	2.900
L13 51.50-44.98	48.20	1.085	25	14.228	A	0.000	14.228	14.228	100.00	1.684	0.000
					B	0.000	14.228		100.00	1.684	0.000
					C	0.000	14.228		100.00	3.253	3.782
L14 44.98-43.24	44.11	1.065	24	3.869	A	0.000	3.869	3.869	100.00	0.449	0.000
					B	0.000	3.869		100.00	0.449	0.000
					C	0.000	3.869		100.00	0.868	1.009
L15 43.24-38.24	40.72	1.047	24	11.597	A	0.000	11.597	11.597	100.00	1.292	0.000
					B	0.000	11.597		100.00	1.292	0.000
					C	0.000	11.597		100.00	2.495	2.900
L16 38.24-33.24	35.72	1.019	23	12.242	A	0.000	12.242	12.242	100.00	1.292	0.000
					B	0.000	12.242		100.00	1.292	0.000
					C	0.000	12.242		100.00	2.495	2.900
L17 33.24-31.96	32.60	1	23	3.251	A	0.000	3.251	3.251	100.00	0.331	0.000
					B	0.000	3.251		100.00	0.331	0.000
					C	0.000	3.251		100.00	0.843	0.742
L18 31.96-26.96	29.44	0.978	22	13.106	A	0.000	13.106	13.106	100.00	1.292	0.000
					B	0.000	13.106		100.00	1.292	0.000
					C	0.000	13.106		100.00	3.787	2.900
L19 26.96-21.96	24.44	0.941	22	13.754	A	0.000	13.754	13.754	100.00	1.292	0.000
					B	0.000	13.754		100.00	1.292	0.000
					C	0.000	13.754		100.00	3.787	2.900
L20 21.96-16.96	19.44	0.897	21	14.402	A	0.000	14.402	14.402	100.00	1.292	0.000
					B	0.000	14.402		100.00	1.292	0.000
					C	0.000	14.402		100.00	2.270	2.900

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	Client	T-Mobile	Designed by	

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L21 16.96-11.96	14.44	0.85	19	15.050	A	0.000	15.050	15.050	100.00	1.292	0.000
					B	0.000	15.050		100.00	1.292	0.000
					C	0.000	15.050		100.00	1.292	2.900
L22 11.96-6.96	9.44	0.85	19	15.697	A	0.000	15.697	15.697	100.00	1.292	0.000
					B	0.000	15.697		100.00	1.292	0.000
					C	0.000	15.697		100.00	1.292	2.900
L23 6.96-1.96	4.44	0.85	19	16.345	A	0.000	16.345	16.345	100.00	1.292	0.000
					B	0.000	16.345		100.00	1.292	0.000
					C	0.000	16.345		100.00	1.292	2.900
L24 1.96-0.00	0.98	0.85	19	6.598	A	0.000	6.598	6.598	100.00	0.506	0.000
					B	0.000	6.598		100.00	0.506	0.000
					C	0.000	6.598		100.00	0.506	1.137

Tower Pressure - With Ice

$G_H = 1.100$

Section Elevation ft	z ft	K _Z	q _z psf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L1 102.70-97.70	100.20	1.266	8	1.6762	6.814	A	0.000	6.814	6.814	100.00	0.000	0.000
						B	0.000	6.814		100.00	0.000	0.000
						C	0.000	6.814		100.00	2.451	0.000
L2 97.70-92.70	95.20	1.253	8	1.6676	6.806	A	0.000	6.806	6.806	100.00	0.000	0.000
						B	0.000	6.806		100.00	0.000	0.000
						C	0.000	6.806		100.00	2.443	0.000
L3 92.70-89.78	91.24	1.241	8	1.6606	3.971	A	0.000	3.971	3.971	100.00	0.000	0.000
						B	0.000	3.971		100.00	0.000	0.000
						C	0.000	3.971		100.00	1.422	2.561
L4 89.78-84.78	87.23	1.23	7	1.6531	7.203	A	0.000	7.203	7.203	100.00	0.000	0.000
						B	0.000	7.203		100.00	0.000	0.000
						C	0.000	7.203		100.00	2.428	5.748
L5 84.78-79.78	82.24	1.215	7	1.6434	7.847	A	0.000	7.847	7.847	100.00	0.000	0.000
						B	0.000	7.847		100.00	0.000	0.000
						C	0.000	7.847		100.00	2.418	8.264
L6 79.78-74.78	77.24	1.199	7	1.6331	8.489	A	0.000	8.489	8.489	100.00	0.000	0.000
						B	0.000	8.489		100.00	0.000	0.000
						C	0.000	8.489		100.00	2.408	11.392
L7 74.78-72.50	73.63	1.187	7	1.6253	4.084	A	0.000	4.084	4.084	100.00	1.167	0.000
						B	0.000	4.084		100.00	0.000	0.000
						C	0.000	4.084		100.00	1.095	5.176
L8 72.50-67.25	69.84	1.173	7	1.6168	9.912	A	0.000	9.912	9.912	100.00	3.054	0.000
						B	0.000	9.912		100.00	0.000	0.000
						C	0.000	9.912		100.00	10.289	11.872
L9 67.25-62.25	64.72	1.155	7	1.6045	10.098	A	0.000	10.098	10.098	100.00	2.896	0.000
						B	0.000	10.098		100.00	0.000	0.000
						C	0.000	10.098		100.00	10.518	11.243
L10 62.25-61.75	62.00	1.144	7	1.5976	1.045	A	0.000	1.045	1.045	100.00	0.289	0.000
						B	0.000	1.045		100.00	0.000	0.000
						C	0.000	1.045		100.00	1.048	1.121
L11 61.75-56.50	59.09	1.133	7	1.5900	11.359	A	0.000	11.359	11.359	100.00	3.026	0.000
						B	0.000	11.359		100.00	3.026	0.000
						C	0.000	11.359		100.00	10.967	11.726
L12 56.50-51.50	53.97	1.112	7	1.5756	11.474	A	0.000	11.474	11.474	100.00	2.867	0.000
						B	0.000	11.474		100.00	2.867	0.000

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	Client T-Mobile	Designed by

Section Elevation ft	z ft	K _Z	q _z psf	t _z in	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L13 51.50-44.98	48.20	1.085	7	1.5579	15.921	C	0.000	11.474		100.00	10.373	11.093
						A	0.000	15.921	15.921	100.00	3.716	0.000
						B	0.000	15.921		100.00	3.716	0.000
						C	0.000	15.921		100.00	13.411	14.345
L14 44.98-43.24	44.11	1.065	6	1.5442	4.321	A	0.000	4.321	4.321	100.00	0.992	0.000
						B	0.000	4.321		100.00	0.992	0.000
						C	0.000	4.321		100.00	3.579	3.828
L15 43.24-38.24	40.72	1.047	6	1.5319	12.874	A	0.000	12.874	12.874	100.00	2.824	0.000
						B	0.000	12.874		100.00	2.824	0.000
						C	0.000	12.874		100.00	10.154	10.866
L16 38.24-33.24	35.72	1.019	6	1.5119	13.502	A	0.000	13.502	13.502	100.00	2.804	0.000
						B	0.000	13.502		100.00	2.804	0.000
						C	0.000	13.502		100.00	10.055	10.762
L17 33.24-31.96	32.60	1	6	1.4982	3.571	A	0.000	3.571	3.571	100.00	0.714	0.000
						B	0.000	3.571		100.00	0.714	0.000
						C	0.000	3.571		100.00	2.997	2.737
L18 31.96-26.96	29.44	0.978	6	1.4830	14.342	A	0.000	14.342	14.342	100.00	2.775	0.000
						B	0.000	14.342		100.00	2.775	0.000
						C	0.000	14.342		100.00	12.684	10.611
L19 26.96-21.96	24.44	0.941	6	1.4556	14.967	A	0.000	14.967	14.967	100.00	2.747	0.000
						B	0.000	14.967		100.00	2.747	0.000
						C	0.000	14.967		100.00	12.520	10.469
L20 21.96-16.96	19.44	0.897	5	1.4227	15.587	A	0.000	15.587	15.587	100.00	2.714	0.000
						B	0.000	15.587		100.00	2.714	0.000
						C	0.000	15.587		100.00	6.481	10.298
L21 16.96-11.96	14.44	0.85	5	1.3810	16.201	A	0.000	16.201	16.201	100.00	2.673	0.000
						B	0.000	16.201		100.00	2.673	0.000
						C	0.000	16.201		100.00	2.673	10.081
L22 11.96-6.96	9.44	0.85	5	1.3236	16.800	A	0.000	16.800	16.800	100.00	2.615	0.000
						B	0.000	16.800		100.00	2.615	0.000
						C	0.000	16.800		100.00	2.615	9.783
L23 6.96-1.96	4.44	0.85	5	1.2275	17.368	A	0.000	17.368	17.368	100.00	2.519	0.000
						B	0.000	17.368		100.00	2.519	0.000
						C	0.000	17.368		100.00	2.519	9.283
L24 1.96-0.00	0.98	0.85	5	1.0549	6.942	A	0.000	6.942	6.942	100.00	0.920	0.000
						B	0.000	6.942		100.00	0.920	0.000
						C	0.000	6.942		100.00	0.920	3.287

Tower Pressure - Service

$G_H = 1.100$

Section Elevation ft	z ft	K _Z	q _z psf	A _G ft ²	F a c e	A _F ft ²	A _R ft ²	A _{leg} ft ²	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
L1	100.20	1.266	10	5.417	A	0.000	5.417	5.417	100.00	0.000	0.000
102.70-97.70					B	0.000	5.417		100.00	0.000	0.000
					C	0.000	5.417		100.00	0.775	0.000
L2 97.70-92.70	95.20	1.253	10	5.417	A	0.000	5.417	5.417	100.00	0.000	0.000
					B	0.000	5.417		100.00	0.000	0.000
					C	0.000	5.417		100.00	0.775	0.000
L3 92.70-89.78	91.24	1.241	10	3.163	A	0.000	3.163	3.163	100.00	0.000	0.000
					B	0.000	3.163		100.00	0.000	0.000
					C	0.000	3.163		100.00	0.453	0.644

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	Client	T-Mobile	Designed by	

Section Elevation <i>ft</i>	<i>z</i> <i>ft</i>	<i>K_Z</i>	<i>q_z</i> <i>psf</i>	<i>A_G</i> <i>ft²</i>	<i>F_a</i> <i>c</i> <i>e</i>	<i>A_F</i> <i>ft²</i>	<i>A_R</i> <i>ft²</i>	<i>A_{leg}</i> <i>ft²</i>	<i>Leg</i> <i>%</i>	<i>C_{AA}</i> <i>In</i> <i>Face</i> <i>ft²</i>	<i>C_{AA}</i> <i>Out</i> <i>Face</i> <i>ft²</i>
L4 89.78-84.78	87.23	1.23	10	5.826	A	0.000	5.826	5.826	100.00	0.000	0.000
					B	0.000	5.826		100.00	0.000	0.000
					C	0.000	5.826		100.00	0.775	1.450
L5 84.78-79.78	82.24	1.215	10	6.477	A	0.000	6.477	6.477	100.00	0.000	0.000
					B	0.000	6.477		100.00	0.000	0.000
					C	0.000	6.477		100.00	0.775	2.094
L6 79.78-74.78	77.24	1.199	9	7.128	A	0.000	7.128	7.128	100.00	0.000	0.000
					B	0.000	7.128		100.00	0.000	0.000
					C	0.000	7.128		100.00	0.775	2.900
L7 74.78-72.50	73.63	1.187	9	3.467	A	0.000	3.467	3.467	100.00	0.517	0.000
					B	0.000	3.467		100.00	0.000	0.000
					C	0.000	3.467		100.00	0.353	1.322
L8 72.50-67.25	69.84	1.173	9	8.498	A	0.000	8.498	8.498	100.00	1.356	0.000
					B	0.000	8.498		100.00	0.000	0.000
					C	0.000	8.498		100.00	2.448	3.045
L9 67.25-62.25	64.72	1.155	9	8.761	A	0.000	8.761	8.761	100.00	1.292	0.000
					B	0.000	8.761		100.00	0.000	0.000
					C	0.000	8.761		100.00	2.495	2.900
L10 62.25-61.75	62.00	1.144	9	0.912	A	0.000	0.912	0.912	100.00	0.129	0.000
					B	0.000	0.912		100.00	0.000	0.000
					C	0.000	0.912		100.00	0.250	0.290
L11 61.75-56.50	59.09	1.133	9	9.968	A	0.000	9.968	9.968	100.00	1.356	0.000
					B	0.000	9.968		100.00	1.356	0.000
					C	0.000	9.968		100.00	2.620	3.045
L12 56.50-51.50	53.97	1.112	9	10.161	A	0.000	10.161	10.161	100.00	1.292	0.000
					B	0.000	10.161		100.00	1.292	0.000
					C	0.000	10.161		100.00	2.495	2.900
L13 51.50-44.98	48.20	1.085	9	14.228	A	0.000	14.228	14.228	100.00	1.684	0.000
					B	0.000	14.228		100.00	1.684	0.000
					C	0.000	14.228		100.00	3.253	3.782
L14 44.98-43.24	44.11	1.065	8	3.869	A	0.000	3.869	3.869	100.00	0.449	0.000
					B	0.000	3.869		100.00	0.449	0.000
					C	0.000	3.869		100.00	0.868	1.009
L15 43.24-38.24	40.72	1.047	8	11.597	A	0.000	11.597	11.597	100.00	1.292	0.000
					B	0.000	11.597		100.00	1.292	0.000
					C	0.000	11.597		100.00	2.495	2.900
L16 38.24-33.24	35.72	1.019	8	12.242	A	0.000	12.242	12.242	100.00	1.292	0.000
					B	0.000	12.242		100.00	1.292	0.000
					C	0.000	12.242		100.00	2.495	2.900
L17 33.24-31.96	32.60	1	8	3.251	A	0.000	3.251	3.251	100.00	0.331	0.000
					B	0.000	3.251		100.00	0.331	0.000
					C	0.000	3.251		100.00	0.843	0.742
L18 31.96-26.96	29.44	0.978	8	13.106	A	0.000	13.106	13.106	100.00	1.292	0.000
					B	0.000	13.106		100.00	1.292	0.000
					C	0.000	13.106		100.00	3.787	2.900
L19 26.96-21.96	24.44	0.941	7	13.754	A	0.000	13.754	13.754	100.00	1.292	0.000
					B	0.000	13.754		100.00	1.292	0.000
					C	0.000	13.754		100.00	3.787	2.900
L20 21.96-16.96	19.44	0.897	7	14.402	A	0.000	14.402	14.402	100.00	1.292	0.000
					B	0.000	14.402		100.00	1.292	0.000
					C	0.000	14.402		100.00	2.270	2.900
L21 16.96-11.96	14.44	0.85	7	15.050	A	0.000	15.050	15.050	100.00	1.292	0.000
					B	0.000	15.050		100.00	1.292	0.000
					C	0.000	15.050		100.00	1.292	2.900
L22 11.96-6.96	9.44	0.85	7	15.697	A	0.000	15.697	15.697	100.00	1.292	0.000
					B	0.000	15.697		100.00	1.292	0.000
					C	0.000	15.697		100.00	1.292	2.900
L23 6.96-1.96	4.44	0.85	7	16.345	A	0.000	16.345	16.345	100.00	1.292	0.000
					B	0.000	16.345		100.00	1.292	0.000
					C	0.000	16.345		100.00	1.292	2.900

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Section Elevation	z	K _Z	q _z	A _G	F _a	A _F	A _R	A _{leg}	Leg %	C _{AA} _{In} Face	C _{AA} _{Out} Face
ft	ft		psf	ft ²	c	ft ²	ft ²	ft ²		ft ²	ft ²
L24 1.96-0.00	0.98	0.85	7	6.598	A	0.000	6.598	6.598	100.00	0.506	0.000
					B	0.000	6.598		100.00	0.506	0.000
					C	0.000	6.598		100.00	0.506	1.137

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F _a	e	C _F	q _z	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb	c			psf			ft ²	lb	plf	
L1 102.70-97.70	16.63	170.37	A	1	0.6	29	1	1	5.417	103.58	20.72	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L2 97.70-92.70	23.50	170.37	A	1	0.6	29	1	1	5.417	102.47	20.49	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L3 92.70-89.78	32.13	99.50	A	1	0.725	28	1	1	3.163	91.81	31.44	C
			B	1	0.725		1	1	3.163			
			C	1	0.725		1	1	3.163			
L4 89.78-84.78	82.80	182.52	A	1	1.2	28	1	1	5.826	261.28	52.26	C
			B	1	1.2		1	1	5.826			
			C	1	1.2		1	1	5.826			
L5 84.78-79.78	110.13	203.31	A	1	1.2	28	1	1	6.477	301.64	60.33	C
			B	1	1.2		1	1	6.477			
			C	1	1.2		1	1	6.477			
L6 79.78-74.78	144.35	224.09	A	1	1.2	27	1	1	7.128	345.59	69.12	C
			B	1	1.2		1	1	7.128			
			C	1	1.2		1	1	7.128			
L7 74.78-72.50	67.14	109.08	A	1	1.2	27	1	1	3.467	163.76	71.82	C
			B	1	1.2		1	1	3.467			
			C	1	1.2		1	1	3.467			
L8 72.50-67.25	166.76	643.05	A	1	1.2	27	1	1	8.498	434.64	82.79	B
			B	1	1.2		1	1	8.498			
			C	1	1.2		1	1	8.498			
L9 67.25-62.25	160.00	625.09	A	1	1.2	26	1	1	8.761	434.94	86.99	B
			B	1	1.2		1	1	8.761			
			C	1	1.2		1	1	8.761			
L10 62.25-61.75	16.00	65.14	A	1	1.2	26	1	1	0.912	44.34	88.68	B
			B	1	1.2		1	1	0.912			
			C	1	1.2		1	1	0.912			
L11 61.75-56.50	171.47	832.95	A	1	1.2	26	1	1	9.968	474.36	90.35	B
			B	1	1.2		1	1	9.968			
			C	1	1.2		1	1	9.968			
L12 56.50-51.50	163.30	804.82	A	1	1.2	25	1	1	10.161	465.64	93.13	B
			B	1	1.2		1	1	10.161			
			C	1	1.2		1	1	10.161			
L13 51.50-44.98	212.94	1107.51	A	1	1.2	25	1	1	14.228	624.97	95.85	B
			B	1	1.2		1	1	14.228			
			C	1	1.2		1	1	14.228			
L14 44.98-43.24	56.83	891.93	A	1	1.2	24	1	1	3.869	166.03	95.42	B
			B	1	1.2		1	1	3.869			
			C	1	1.2		1	1	3.869			
L15 43.24-38.24	163.30	939.32	A	1	1.2	24	1	1	11.597	484.26	96.85	B
			B	1	1.2		1	1	11.597			
			C	1	1.2		1	1	11.597			
L16 38.24-33.24	163.30	955.50	A	1	1.2	23	1	1	12.242	490.94	98.19	B
			B	1	1.2		1	1	12.242			

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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L17 33.24-31.96	42.33	254.16	C	1	0.84		1	1	12.242			
			A	1	1.2	23	1	1	3.251	126.82	99.08	B
			B	1	1.2		1	1	3.251			
			C	1	0.953		1	1	3.251			
L18 31.96-26.96	168.53	1125.49	A	1	1.2	22	1	1	13.106	496.89	99.38	B
			B	1	1.2		1	1	13.106			
			C	1	0.94		1	1	13.106			
L19 26.96-21.96	175.90	1140.29	A	1	1.2	22	1	1	13.754	496.21	99.24	B
			B	1	1.2		1	1	13.754			
			C	1	0.92		1	1	13.754			
L20 21.96-16.96	128.66	1173.02	A	1	0.966	21	1	1	14.402	379.34	75.87	B
			B	1	0.966		1	1	14.402			
			C	1	0.903		1	1	14.402			
L21 16.96-11.96	98.20	9896.67	A	1	0.886	19	1	1	15.050	347.43	69.49	C
			B	1	0.886		1	1	15.050			
			C	1	0.886		1	1	15.050			
L22 11.96-6.96	98.20	1207.98	A	1	0.871	19	1	1	15.697	354.71	70.94	C
			B	1	0.871		1	1	15.697			
			C	1	0.871		1	1	15.697			
L23 6.96-1.96	98.20	1233.39	A	1	0.858	19	1	1	16.345	361.99	72.40	C
			B	1	0.858		1	1	16.345			
			C	1	0.858		1	1	16.345			
L24 1.96-0.00	38.49	498.09	A	1	0.848	19	1	1	6.598	144.04	73.49	C
			B	1	0.848		1	1	6.598			
			C	1	0.848		1	1	6.598			
Sum Weight:	2599.10	24553.64						OTM	352.36 kip-ft	7697.67		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	16.63	170.37	A	1	0.6	29	1	1	5.417	103.58	20.72	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L2 97.70-92.70	23.50	170.37	A	1	0.6	29	1	1	5.417	102.47	20.49	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L3 92.70-89.78	32.13	99.50	A	1	0.725	28	1	1	3.163	91.81	31.44	C
			B	1	0.725		1	1	3.163			
			C	1	0.725		1	1	3.163			
L4 89.78-84.78	82.80	182.52	A	1	1.2	28	1	1	5.826	261.28	52.26	C
			B	1	1.2		1	1	5.826			
			C	1	1.2		1	1	5.826			
L5 84.78-79.78	110.13	203.31	A	1	1.2	28	1	1	6.477	301.64	60.33	C
			B	1	1.2		1	1	6.477			
			C	1	1.2		1	1	6.477			
L6 79.78-74.78	144.35	224.09	A	1	1.2	27	1	1	7.128	345.59	69.12	C
			B	1	1.2		1	1	7.128			
			C	1	1.2		1	1	7.128			
L7 74.78-72.50	67.14	109.08	A	1	1.2	27	1	1	3.467	163.76	71.82	C
			B	1	1.2		1	1	3.467			

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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L8 72.50-67.25	166.76	643.05	C	1	1.2		1	1	3.467			
			A	1	1.2	27	1	1	8.498	434.64	82.79	C
			B	1	1.2		1	1	8.498			
			C	1	1.2		1	1	8.498			
L9 67.25-62.25	160.00	625.09	A	1	1.2	26	1	1	8.761	434.94	86.99	C
			B	1	1.2		1	1	8.761			
			C	1	1.2		1	1	8.761			
L10 62.25-61.75	16.00	65.14	A	1	1.2	26	1	1	0.912	44.34	88.68	C
			B	1	1.2		1	1	0.912			
			C	1	1.2		1	1	0.912			
L11 61.75-56.50	171.47	832.95	A	1	1.2	26	1	1	9.968	474.36	90.35	C
			B	1	1.2		1	1	9.968			
			C	1	1.2		1	1	9.968			
L12 56.50-51.50	163.30	804.82	A	1	1.2	25	1	1	10.161	465.64	93.13	C
			B	1	1.2		1	1	10.161			
			C	1	1.2		1	1	10.161			
L13 51.50-44.98	212.94	1107.51	A	1	1.2	25	1	1	14.228	624.97	95.85	C
			B	1	1.2		1	1	14.228			
			C	1	1.2		1	1	14.228			
L14 44.98-43.24	56.83	891.93	A	1	1.2	24	1	1	3.869	166.03	95.42	C
			B	1	1.2		1	1	3.869			
			C	1	1.2		1	1	3.869			
L15 43.24-38.24	163.30	939.32	A	1	1.2	24	1	1	11.597	484.26	96.85	C
			B	1	1.2		1	1	11.597			
			C	1	1.2		1	1	11.597			
L16 38.24-33.24	163.30	955.50	A	1	0.84	23	1	1	12.242	490.94	98.19	C
			B	1	1.2		1	1	12.242			
			C	1	1.2		1	1	12.242			
L17 33.24-31.96	42.33	254.16	A	1	0.953	23	1	1	3.251	126.82	99.08	C
			B	1	1.2		1	1	3.251			
			C	1	1.2		1	1	3.251			
L18 31.96-26.96	168.53	1125.49	A	1	0.94	22	1	1	13.106	496.89	99.38	C
			B	1	1.2		1	1	13.106			
			C	1	1.2		1	1	13.106			
L19 26.96-21.96	175.90	1140.29	A	1	0.92	22	1	1	13.754	496.21	99.24	C
			B	1	1.2		1	1	13.754			
			C	1	1.2		1	1	13.754			
L20 21.96-16.96	128.66	1173.02	A	1	0.903	21	1	1	14.402	379.34	75.87	C
			B	1	0.966		1	1	14.402			
			C	1	0.966		1	1	14.402			
L21 16.96-11.96	98.20	9896.67	A	1	0.886	19	1	1	15.050	347.43	69.49	C
			B	1	0.886		1	1	15.050			
			C	1	0.886		1	1	15.050			
L22 11.96-6.96	98.20	1207.98	A	1	0.871	19	1	1	15.697	354.71	70.94	C
			B	1	0.871		1	1	15.697			
			C	1	0.871		1	1	15.697			
L23 6.96-1.96	98.20	1233.39	A	1	0.858	19	1	1	16.345	361.99	72.40	C
			B	1	0.858		1	1	16.345			
			C	1	0.858		1	1	16.345			
L24 1.96-0.00	38.49	498.09	A	1	0.848	19	1	1	6.598	144.04	73.49	C
			B	1	0.848		1	1	6.598			
			C	1	0.848		1	1	6.598			
Sum Weight:	2599.10	24553.64						OTM	352.36 kip-ft	7697.67		

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Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	16.63	170.37	A	1	0.6	29	1	1	5.417	103.58	20.72	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L2 97.70-92.70	23.50	170.37	A	1	0.6	29	1	1	5.417	102.47	20.49	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L3 92.70-89.78	32.13	99.50	A	1	0.725	28	1	1	3.163	91.81	31.44	C
			B	1	0.725		1	1	3.163			
			C	1	0.725		1	1	3.163			
L4 89.78-84.78	82.80	182.52	A	1	1.2	28	1	1	5.826	261.28	52.26	C
			B	1	1.2		1	1	5.826			
			C	1	1.2		1	1	5.826			
L5 84.78-79.78	110.13	203.31	A	1	1.2	28	1	1	6.477	301.64	60.33	C
			B	1	1.2		1	1	6.477			
			C	1	1.2		1	1	6.477			
L6 79.78-74.78	144.35	224.09	A	1	1.2	27	1	1	7.128	345.59	69.12	C
			B	1	1.2		1	1	7.128			
			C	1	1.2		1	1	7.128			
L7 74.78-72.50	67.14	109.08	A	1	1.2	27	1	1	3.467	172.55	75.68	A
			B	1	1.2		1	1	3.467			
			C	1	1.2		1	1	3.467			
L8 72.50-67.25	166.76	643.05	A	1	1.2	27	1	1	8.498	461.16	87.84	C
			B	1	1.2		1	1	8.498			
			C	1	1.2		1	1	8.498			
L9 67.25-62.25	160.00	625.09	A	1	1.2	26	1	1	8.761	462.41	92.48	C
			B	1	1.2		1	1	8.761			
			C	1	1.2		1	1	8.761			
L10 62.25-61.75	16.00	65.14	A	1	1.2	26	1	1	0.912	47.06	94.13	C
			B	1	1.2		1	1	0.912			
			C	1	1.2		1	1	0.912			
L11 61.75-56.50	171.47	832.95	A	1	1.2	26	1	1	9.968	502.65	95.74	C
			B	1	1.2		1	1	9.968			
			C	1	1.2		1	1	9.968			
L12 56.50-51.50	163.30	804.82	A	1	1.2	25	1	1	10.161	492.08	98.42	C
			B	1	1.2		1	1	10.161			
			C	1	1.2		1	1	10.161			
L13 51.50-44.98	212.94	1107.51	A	1	1.2	25	1	1	14.228	658.64	101.02	C
			B	1	1.2		1	1	14.228			
			C	1	1.2		1	1	14.228			
L14 44.98-43.24	56.83	891.93	A	1	1.2	24	1	1	3.869	174.85	100.49	C
			B	1	1.2		1	1	3.869			
			C	1	1.2		1	1	3.869			
L15 43.24-38.24	163.30	939.32	A	1	1.2	24	1	1	11.597	509.17	101.83	C
			B	1	1.2		1	1	11.597			
			C	1	1.2		1	1	11.597			
L16 38.24-33.24	163.30	955.50	A	1	1.2	23	1	1	12.242	515.18	103.04	C
			B	1	1.2		1	1	12.242			
			C	1	1.2		1	1	12.242			
L17 33.24-31.96	42.33	254.16	A	1	1.2	23	1	1	3.251	135.83	106.12	C
			B	1	1.2		1	1	3.251			
			C	1	1.2		1	1	3.251			
L18 31.96-26.96	168.53	1125.49	A	1	1.2	22	1	1	13.106	538.30	107.66	C
			B	1	1.2		1	1	13.106			
			C	1	1.2		1	1	13.106			
L19 26.96-21.96	175.90	1140.29	A	1	1.2	22	1	1	13.754	536.02	107.20	C
			B	1	1.2		1	1	13.754			
			C	1	1.2		1	1	13.754			

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job	17902175A	Page	24 of 55
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	Client	T-Mobile	Designed by	

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L20 21.96-16.96	128.66	1173.02	A	1	1.2	21	1	1	14.402	494.12	98.82	C
			B	1	1.2		1	1	14.402			
			C	1	1.2		1	1	14.402			
L21 16.96-11.96	98.20	9896.67	A	1	0.96	19	1	1	15.050	371.06	74.21	C
			B	1	0.96		1	1	15.050			
			C	1	0.96		1	1	15.050			
L22 11.96-6.96	98.20	1207.98	A	1	0.942	19	1	1	15.697	378.34	75.67	C
			B	1	0.942		1	1	15.697			
			C	1	0.942		1	1	15.697			
L23 6.96-1.96	98.20	1233.39	A	1	0.925	19	1	1	16.345	385.61	77.12	C
			B	1	0.925		1	1	16.345			
			C	1	0.925		1	1	16.345			
L24 1.96-0.00	38.49	498.09	A	1	0.914	19	1	1	6.598	153.30	78.21	C
			B	1	0.914		1	1	6.598			
			C	1	0.914		1	1	6.598			
Sum Weight:	2599.10	24553.64						OTM	369.19 kip-ft	8194.71		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	49.67	320.65	A	1	1.2	8	1	1	6.814	69.24	13.85	C
			B	1	1.2		1	1	6.814			
			C	1	1.2		1	1	6.814			
L2 97.70-92.70	56.28	319.80	A	1	1.2	8	1	1	6.806	68.42	13.68	C
			B	1	1.2		1	1	6.806			
			C	1	1.2		1	1	6.806			
L3 92.70-89.78	71.06	186.35	A	1	1.2	8	1	1	3.971	64.83	22.20	B
			B	1	1.2		1	1	3.971			
			C	1	1.2		1	1	3.971			
L4 89.78-84.78	159.78	339.88	A	1	1.2	7	1	1	7.203	125.12	25.02	B
			B	1	1.2		1	1	7.203			
			C	1	1.2		1	1	7.203			
L5 84.78-79.78	206.26	375.25	A	1	1.2	7	1	1	7.847	150.24	30.05	B
			B	1	1.2		1	1	7.847			
			C	1	1.2		1	1	7.847			
L6 79.78-74.78	264.30	410.37	A	1	1.2	7	1	1	8.489	179.50	35.90	B
			B	1	1.2		1	1	8.489			
			C	1	1.2		1	1	8.489			
L7 74.78-72.50	135.47	198.71	A	1	1.2	7	1	1	4.084	90.50	39.69	B
			B	1	1.2		1	1	4.084			
			C	1	1.2		1	1	4.084			
L8 72.50-67.25	479.92	860.40	A	1	1.2	7	1	1	9.912	255.02	48.58	B
			B	1	1.2		1	1	9.912			
			C	1	1.2		1	1	9.912			
L9 67.25-62.25	470.16	846.02	A	1	1.2	7	1	1	10.098	248.23	49.65	B
			B	1	1.2		1	1	10.098			
			C	1	1.2		1	1	10.098			
L10 62.25-61.75	46.83	87.96	A	1	1.2	7	1	1	1.045	24.87	49.73	B
			B	1	1.2		1	1	1.045			
			C	1	1.2		1	1	1.045			

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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L11 61.75-56.50	528.30	1080.52	A	1	1.2	7	1	1	11.359	261.30	49.77	B
			B	1	1.2		1	1	11.359			
			C	1	1.2		1	1	11.359			
L12 56.50-51.50	498.78	1053.68	A	1	1.2	7	1	1	11.474	248.82	49.76	B
			B	1	1.2		1	1	11.474			
			C	1	1.2		1	1	11.474			
L13 51.50-44.98	643.42	1450.38	A	1	1.2	7	1	1	15.921	323.33	49.59	B
			B	1	1.2		1	1	15.921			
			C	1	1.2		1	1	15.921			
L14 44.98-43.24	171.71	984.21	A	1	1.2	6	1	1	4.321	85.31	49.03	B
			B	1	1.2		1	1	4.321			
			C	1	1.2		1	1	4.321			
L15 43.24-38.24	485.60	1212.94	A	1	1.2	6	1	1	12.874	242.86	48.57	B
			B	1	1.2		1	1	12.874			
			C	1	1.2		1	1	12.874			
L16 38.24-33.24	479.67	1239.60	A	1	1.2	6	1	1	13.502	239.90	47.98	B
			B	1	1.2		1	1	13.502			
			C	1	1.2		1	1	13.502			
L17 33.24-31.96	127.13	328.83	A	1	1.2	6	1	1	3.571	62.80	49.06	B
			B	1	1.2		1	1	3.571			
			C	1	1.2		1	1	3.571			
L18 31.96-26.96	506.61	1422.91	A	1	1.2	6	1	1	14.342	246.44	49.29	B
			B	1	1.2		1	1	14.342			
			C	1	1.2		1	1	14.342			
L19 26.96-21.96	505.16	1445.75	A	1	1.2	6	1	1	14.967	239.46	47.89	B
			B	1	1.2		1	1	14.967			
			C	1	1.2		1	1	14.967			
L20 21.96-16.96	352.06	1484.73	A	1	1.2	5	1	1	15.587	209.35	41.87	B
			B	1	1.2		1	1	15.587			
			C	1	1.2		1	1	15.587			
L21 16.96-11.96	254.10	10211.96	A	1	1.2	5	1	1	16.201	189.26	37.85	C
			B	1	1.2		1	1	16.201			
			C	1	1.2		1	1	16.201			
L22 11.96-6.96	245.93	1522.20	A	1	1.2	5	1	1	16.800	190.44	38.09	C
			B	1	1.2		1	1	16.800			
			C	1	1.2		1	1	16.800			
L23 6.96-1.96	232.60	1535.68	A	1	1.2	5	1	1	17.368	189.44	37.89	C
			B	1	1.2		1	1	17.368			
			C	1	1.2		1	1	17.368			
L24 1.96-0.00	82.20	602.42	A	1	1.2	5	1	1	6.942	71.75	36.61	C
			B	1	1.2		1	1	6.942			
			C	1	1.2		1	1	6.942			
Sum Weight:	7052.99	29521.18						OTM	189.93 kip-ft	4076.43		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	49.67	320.65	A	1	1.2	8	1	1	6.814	69.24	13.85	C
			B	1	1.2		1	1	6.814			
			C	1	1.2		1	1	6.814			

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job	17902175A	Page	26 of 55
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Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L2 97.70-92.70	56.28	319.80	A	1	1.2	8	1	1	6.806	68.42	13.68	C
			B	1	1.2		1	1	6.806			
			C	1	1.2		1	1	6.806			
L3 92.70-89.78	71.06	186.35	A	1	1.2	8	1	1	3.971	64.83	22.20	C
			B	1	1.2		1	1	3.971			
			C	1	1.2		1	1	3.971			
L4 89.78-84.78	159.78	339.88	A	1	1.2	7	1	1	7.203	125.12	25.02	C
			B	1	1.2		1	1	7.203			
			C	1	1.2		1	1	7.203			
L5 84.78-79.78	206.26	375.25	A	1	1.2	7	1	1	7.847	150.24	30.05	C
			B	1	1.2		1	1	7.847			
			C	1	1.2		1	1	7.847			
L6 79.78-74.78	264.30	410.37	A	1	1.2	7	1	1	8.489	179.50	35.90	C
			B	1	1.2		1	1	8.489			
			C	1	1.2		1	1	8.489			
L7 74.78-72.50	135.47	198.71	A	1	1.2	7	1	1	4.084	90.50	39.69	C
			B	1	1.2		1	1	4.084			
			C	1	1.2		1	1	4.084			
L8 72.50-67.25	479.92	860.40	A	1	1.2	7	1	1	9.912	255.02	48.58	C
			B	1	1.2		1	1	9.912			
			C	1	1.2		1	1	9.912			
L9 67.25-62.25	470.16	846.02	A	1	1.2	7	1	1	10.098	248.23	49.65	C
			B	1	1.2		1	1	10.098			
			C	1	1.2		1	1	10.098			
L10 62.25-61.75	46.83	87.96	A	1	1.2	7	1	1	1.045	24.87	49.73	C
			B	1	1.2		1	1	1.045			
			C	1	1.2		1	1	1.045			
L11 61.75-56.50	528.30	1080.52	A	1	1.2	7	1	1	11.359	261.30	49.77	C
			B	1	1.2		1	1	11.359			
			C	1	1.2		1	1	11.359			
L12 56.50-51.50	498.78	1053.68	A	1	1.2	7	1	1	11.474	248.82	49.76	C
			B	1	1.2		1	1	11.474			
			C	1	1.2		1	1	11.474			
L13 51.50-44.98	643.42	1450.38	A	1	1.2	7	1	1	15.921	323.33	49.59	C
			B	1	1.2		1	1	15.921			
			C	1	1.2		1	1	15.921			
L14 44.98-43.24	171.71	984.21	A	1	1.2	6	1	1	4.321	85.31	49.03	C
			B	1	1.2		1	1	4.321			
			C	1	1.2		1	1	4.321			
L15 43.24-38.24	485.60	1212.94	A	1	1.2	6	1	1	12.874	242.86	48.57	C
			B	1	1.2		1	1	12.874			
			C	1	1.2		1	1	12.874			
L16 38.24-33.24	479.67	1239.60	A	1	1.2	6	1	1	13.502	239.90	47.98	C
			B	1	1.2		1	1	13.502			
			C	1	1.2		1	1	13.502			
L17 33.24-31.96	127.13	328.83	A	1	1.2	6	1	1	3.571	62.80	49.06	C
			B	1	1.2		1	1	3.571			
			C	1	1.2		1	1	3.571			
L18 31.96-26.96	506.61	1422.91	A	1	1.2	6	1	1	14.342	246.44	49.29	C
			B	1	1.2		1	1	14.342			
			C	1	1.2		1	1	14.342			
L19 26.96-21.96	505.16	1445.75	A	1	1.2	6	1	1	14.967	239.46	47.89	C
			B	1	1.2		1	1	14.967			
			C	1	1.2		1	1	14.967			
L20 21.96-16.96	352.06	1484.73	A	1	1.2	5	1	1	15.587	209.35	41.87	C
			B	1	1.2		1	1	15.587			
			C	1	1.2		1	1	15.587			
L21 16.96-11.96	254.10	10211.96	A	1	1.2	5	1	1	16.201	189.26	37.85	A
			B	1	1.2		1	1	16.201			
			C	1	1.2		1	1	16.201			

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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L22 11.96-6.96	245.93	1522.20	A	1	1.2	5	1	1	16.800	190.44	38.09	A
			B	1	1.2		1	1	16.800			
			C	1	1.2		1	1	16.800			
L23 6.96-1.96	232.60	1535.68	A	1	1.2	5	1	1	17.368	189.44	37.89	A
			B	1	1.2		1	1	17.368			
			C	1	1.2		1	1	17.368			
L24 1.96-0.00	82.20	602.42	A	1	1.2	5	1	1	6.942	71.75	36.61	A
			B	1	1.2		1	1	6.942			
			C	1	1.2		1	1	6.942			
Sum Weight:	7052.99	29521.18						OTM	189.93 kip-ft	4076.43		

Tower Forces - With Ice - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	49.67	320.65	A	1	1.2	8	1	1	6.814	69.24	13.85	C
			B	1	1.2		1	1	6.814			
			C	1	1.2		1	1	6.814			
L2 97.70-92.70	56.28	319.80	A	1	1.2	8	1	1	6.806	68.42	13.68	C
			B	1	1.2		1	1	6.806			
			C	1	1.2		1	1	6.806			
L3 92.70-89.78	71.06	186.35	A	1	1.2	8	1	1	3.971	68.61	23.50	C
			B	1	1.2		1	1	3.971			
			C	1	1.2		1	1	3.971			
L4 89.78-84.78	159.78	339.88	A	1	1.2	7	1	1	7.203	131.54	26.31	C
			B	1	1.2		1	1	7.203			
			C	1	1.2		1	1	7.203			
L5 84.78-79.78	206.26	375.25	A	1	1.2	7	1	1	7.847	156.58	31.32	C
			B	1	1.2		1	1	7.847			
			C	1	1.2		1	1	7.847			
L6 79.78-74.78	264.30	410.37	A	1	1.2	7	1	1	8.489	185.75	37.15	C
			B	1	1.2		1	1	8.489			
			C	1	1.2		1	1	8.489			
L7 74.78-72.50	135.47	198.71	A	1	1.2	7	1	1	4.084	90.92	39.88	A
			B	1	1.2		1	1	4.084			
			C	1	1.2		1	1	4.084			
L8 72.50-67.25	479.92	860.40	A	1	1.2	7	1	1	9.912	272.18	51.84	C
			B	1	1.2		1	1	9.912			
			C	1	1.2		1	1	9.912			
L9 67.25-62.25	470.16	846.02	A	1	1.2	7	1	1	10.098	267.43	53.49	C
			B	1	1.2		1	1	10.098			
			C	1	1.2		1	1	10.098			
L10 62.25-61.75	46.83	87.96	A	1	1.2	7	1	1	1.045	26.78	53.55	C
			B	1	1.2		1	1	1.045			
			C	1	1.2		1	1	1.045			
L11 61.75-56.50	528.30	1080.52	A	1	1.2	7	1	1	11.359	281.24	53.57	C
			B	1	1.2		1	1	11.359			
			C	1	1.2		1	1	11.359			
L12 56.50-51.50	498.78	1053.68	A	1	1.2	7	1	1	11.474	267.60	53.52	C
			B	1	1.2		1	1	11.474			
			C	1	1.2		1	1	11.474			

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	Client T-Mobile	Designed by

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L13 51.50-44.98	643.42	1450.38	A	1	1.2	7	1	1	15.921	347.46	53.29	C
			B	1	1.2		1	1	15.921			
			C	1	1.2		1	1	15.921			
L14 44.98-43.24	171.71	984.21	A	1	1.2	6	1	1	4.321	91.63	52.66	C
			B	1	1.2		1	1	4.321			
			C	1	1.2		1	1	4.321			
L15 43.24-38.24	485.60	1212.94	A	1	1.2	6	1	1	12.874	260.97	52.19	C
			B	1	1.2		1	1	12.874			
			C	1	1.2		1	1	12.874			
L16 38.24-33.24	479.67	1239.60	A	1	1.2	6	1	1	13.502	257.70	51.54	C
			B	1	1.2		1	1	13.502			
			C	1	1.2		1	1	13.502			
L17 33.24-31.96	127.13	328.83	A	1	1.2	6	1	1	3.571	68.82	53.76	C
			B	1	1.2		1	1	3.571			
			C	1	1.2		1	1	3.571			
L18 31.96-26.96	506.61	1422.91	A	1	1.2	6	1	1	14.342	273.17	54.63	C
			B	1	1.2		1	1	14.342			
			C	1	1.2		1	1	14.342			
L19 26.96-21.96	505.16	1445.75	A	1	1.2	6	1	1	14.967	265.44	53.09	C
			B	1	1.2		1	1	14.967			
			C	1	1.2		1	1	14.967			
L20 21.96-16.96	352.06	1484.73	A	1	1.2	5	1	1	15.587	217.09	43.42	C
			B	1	1.2		1	1	15.587			
			C	1	1.2		1	1	15.587			
L21 16.96-11.96	254.10	10211.96	A	1	1.2	5	1	1	16.201	185.10	37.02	C
			B	1	1.2		1	1	16.201			
			C	1	1.2		1	1	16.201			
L22 11.96-6.96	245.93	1522.20	A	1	1.2	5	1	1	16.800	186.95	37.39	C
			B	1	1.2		1	1	16.800			
			C	1	1.2		1	1	16.800			
L23 6.96-1.96	232.60	1535.68	A	1	1.2	5	1	1	17.368	187.07	37.41	C
			B	1	1.2		1	1	17.368			
			C	1	1.2		1	1	17.368			
L24 1.96-0.00	82.20	602.42	A	1	1.2	5	1	1	6.942	71.61	36.53	C
			B	1	1.2		1	1	6.942			
			C	1	1.2		1	1	6.942			
Sum Weight:	7052.99	29521.18						OTM	201.10 kip-ft	4299.28		

Tower Forces - Service - Wind Normal To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	16.63	170.37	A	1	0.6	10	1	1	5.417	35.46	7.09	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L2 97.70-92.70	23.50	170.37	A	1	0.6	10	1	1	5.417	35.08	7.02	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L3 92.70-89.78	32.13	99.50	A	1	0.725	10	1	1	3.163	31.43	10.76	C
			B	1	0.725		1	1	3.163			
			C	1	0.725		1	1	3.163			

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	Client	T-Mobile	Designed by	

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L4 89.78-84.78	82.80	182.52	A	1	1.2	10	1	1	5.826	89.45	17.89	C
			B	1	1.2		1	1	5.826			
			C	1	1.2		1	1	5.826			
L5 84.78-79.78	110.13	203.31	A	1	1.2	10	1	1	6.477	103.26	20.65	C
			B	1	1.2		1	1	6.477			
			C	1	1.2		1	1	6.477			
L6 79.78-74.78	144.35	224.09	A	1	1.2	9	1	1	7.128	118.31	23.66	C
			B	1	1.2		1	1	7.128			
			C	1	1.2		1	1	7.128			
L7 74.78-72.50	67.14	109.08	A	1	1.2	9	1	1	3.467	56.06	24.59	C
			B	1	1.2		1	1	3.467			
			C	1	1.2		1	1	3.467			
L8 72.50-67.25	166.76	643.05	A	1	1.2	9	1	1	8.498	148.79	28.34	B
			B	1	1.2		1	1	8.498			
			C	1	1.2		1	1	8.498			
L9 67.25-62.25	160.00	625.09	A	1	1.2	9	1	1	8.761	148.90	29.78	B
			B	1	1.2		1	1	8.761			
			C	1	1.2		1	1	8.761			
L10 62.25-61.75	16.00	65.14	A	1	1.2	9	1	1	0.912	15.18	30.36	B
			B	1	1.2		1	1	0.912			
			C	1	1.2		1	1	0.912			
L11 61.75-56.50	171.47	832.95	A	1	1.2	9	1	1	9.968	162.39	30.93	B
			B	1	1.2		1	1	9.968			
			C	1	1.2		1	1	9.968			
L12 56.50-51.50	163.30	804.82	A	1	1.2	9	1	1	10.161	159.41	31.88	B
			B	1	1.2		1	1	10.161			
			C	1	1.2		1	1	10.161			
L13 51.50-44.98	212.94	1107.51	A	1	1.2	9	1	1	14.228	213.95	32.81	B
			B	1	1.2		1	1	14.228			
			C	1	1.2		1	1	14.228			
L14 44.98-43.24	56.83	891.93	A	1	1.2	8	1	1	3.869	56.84	32.67	B
			B	1	1.2		1	1	3.869			
			C	1	1.2		1	1	3.869			
L15 43.24-38.24	163.30	939.32	A	1	1.2	8	1	1	11.597	165.78	33.16	B
			B	1	1.2		1	1	11.597			
			C	1	1.2		1	1	11.597			
L16 38.24-33.24	163.30	955.50	A	1	1.2	8	1	1	12.242	168.07	33.61	B
			B	1	1.2		1	1	12.242			
			C	1	0.84		1	1	12.242			
L17 33.24-31.96	42.33	254.16	A	1	1.2	8	1	1	3.251	43.41	33.92	B
			B	1	1.2		1	1	3.251			
			C	1	0.953		1	1	3.251			
L18 31.96-26.96	168.53	1125.49	A	1	1.2	8	1	1	13.106	170.11	34.02	B
			B	1	1.2		1	1	13.106			
			C	1	0.94		1	1	13.106			
L19 26.96-21.96	175.90	1140.29	A	1	1.2	7	1	1	13.754	169.87	33.97	B
			B	1	1.2		1	1	13.754			
			C	1	0.92		1	1	13.754			
L20 21.96-16.96	128.66	1173.02	A	1	0.966	7	1	1	14.402	129.86	25.97	B
			B	1	0.966		1	1	14.402			
			C	1	0.903		1	1	14.402			
L21 16.96-11.96	98.20	9896.67	A	1	0.886	7	1	1	15.050	118.94	23.79	C
			B	1	0.886		1	1	15.050			
			C	1	0.886		1	1	15.050			
L22 11.96-6.96	98.20	1207.98	A	1	0.871	7	1	1	15.697	121.43	24.29	C
			B	1	0.871		1	1	15.697			
			C	1	0.871		1	1	15.697			
L23 6.96-1.96	98.20	1233.39	A	1	0.858	7	1	1	16.345	123.92	24.78	C
			B	1	0.858		1	1	16.345			
			C	1	0.858		1	1	16.345			

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	Client	T-Mobile	Designed by	

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L24 1.96-0.00	38.49	498.09	A	1	0.848	7	1	1	6.598	49.31	25.16	C
			B	1	0.848		1	1	6.598			
			C	1	0.848		1	1	6.598			
Sum Weight:	2599.10	24553.64						OTM	120.62 kip-ft	2635.20		

Tower Forces - Service - Wind 60 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	16.63	170.37	A	1	0.6	10	1	1	5.417	35.46	7.09	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L2 97.70-92.70	23.50	170.37	A	1	0.6	10	1	1	5.417	35.08	7.02	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L3 92.70-89.78	32.13	99.50	A	1	0.725	10	1	1	3.163	31.43	10.76	C
			B	1	0.725		1	1	3.163			
			C	1	0.725		1	1	3.163			
L4 89.78-84.78	82.80	182.52	A	1	1.2	10	1	1	5.826	89.45	17.89	C
			B	1	1.2		1	1	5.826			
			C	1	1.2		1	1	5.826			
L5 84.78-79.78	110.13	203.31	A	1	1.2	10	1	1	6.477	103.26	20.65	C
			B	1	1.2		1	1	6.477			
			C	1	1.2		1	1	6.477			
L6 79.78-74.78	144.35	224.09	A	1	1.2	9	1	1	7.128	118.31	23.66	C
			B	1	1.2		1	1	7.128			
			C	1	1.2		1	1	7.128			
L7 74.78-72.50	67.14	109.08	A	1	1.2	9	1	1	3.467	56.06	24.59	C
			B	1	1.2		1	1	3.467			
			C	1	1.2		1	1	3.467			
L8 72.50-67.25	166.76	643.05	A	1	1.2	9	1	1	8.498	148.79	28.34	C
			B	1	1.2		1	1	8.498			
			C	1	1.2		1	1	8.498			
L9 67.25-62.25	160.00	625.09	A	1	1.2	9	1	1	8.761	148.90	29.78	C
			B	1	1.2		1	1	8.761			
			C	1	1.2		1	1	8.761			
L10 62.25-61.75	16.00	65.14	A	1	1.2	9	1	1	0.912	15.18	30.36	C
			B	1	1.2		1	1	0.912			
			C	1	1.2		1	1	0.912			
L11 61.75-56.50	171.47	832.95	A	1	1.2	9	1	1	9.968	162.39	30.93	C
			B	1	1.2		1	1	9.968			
			C	1	1.2		1	1	9.968			
L12 56.50-51.50	163.30	804.82	A	1	1.2	9	1	1	10.161	159.41	31.88	C
			B	1	1.2		1	1	10.161			
			C	1	1.2		1	1	10.161			
L13 51.50-44.98	212.94	1107.51	A	1	1.2	9	1	1	14.228	213.95	32.81	C
			B	1	1.2		1	1	14.228			
			C	1	1.2		1	1	14.228			
L14 44.98-43.24	56.83	891.93	A	1	1.2	8	1	1	3.869	56.84	32.67	C
			B	1	1.2		1	1	3.869			
			C	1	1.2		1	1	3.869			

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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L15 43.24-38.24	163.30	939.32	A	1	1.2	8	1	1	11.597	165.78	33.16	C
			B	1	1.2		1	1	11.597			
			C	1	1.2		1	1	11.597			
L16 38.24-33.24	163.30	955.50	A	1	0.84	8	1	1	12.242	168.07	33.61	C
			B	1	1.2		1	1	12.242			
			C	1	1.2		1	1	12.242			
L17 33.24-31.96	42.33	254.16	A	1	0.953	8	1	1	3.251	43.41	33.92	C
			B	1	1.2		1	1	3.251			
			C	1	1.2		1	1	3.251			
L18 31.96-26.96	168.53	1125.49	A	1	0.94	8	1	1	13.106	170.11	34.02	C
			B	1	1.2		1	1	13.106			
			C	1	1.2		1	1	13.106			
L19 26.96-21.96	175.90	1140.29	A	1	0.92	7	1	1	13.754	169.87	33.97	C
			B	1	1.2		1	1	13.754			
			C	1	1.2		1	1	13.754			
L20 21.96-16.96	128.66	1173.02	A	1	0.903	7	1	1	14.402	129.86	25.97	C
			B	1	0.966		1	1	14.402			
			C	1	0.966		1	1	14.402			
L21 16.96-11.96	98.20	9896.67	A	1	0.886	7	1	1	15.050	118.94	23.79	C
			B	1	0.886		1	1	15.050			
			C	1	0.886		1	1	15.050			
L22 11.96-6.96	98.20	1207.98	A	1	0.871	7	1	1	15.697	121.43	24.29	C
			B	1	0.871		1	1	15.697			
			C	1	0.871		1	1	15.697			
L23 6.96-1.96	98.20	1233.39	A	1	0.858	7	1	1	16.345	123.92	24.78	C
			B	1	0.858		1	1	16.345			
			C	1	0.858		1	1	16.345			
L24 1.96-0.00	38.49	498.09	A	1	0.848	7	1	1	6.598	49.31	25.16	C
			B	1	0.848		1	1	6.598			
			C	1	0.848		1	1	6.598			
Sum Weight:	2599.10	24553.64						OTM	120.62 kip-ft	2635.20		

Tower Forces - Service - Wind 90 To Face

Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L1 102.70-97.70	16.63	170.37	A	1	0.6	10	1	1	5.417	35.46	7.09	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L2 97.70-92.70	23.50	170.37	A	1	0.6	10	1	1	5.417	35.08	7.02	C
			B	1	0.6		1	1	5.417			
			C	1	0.6		1	1	5.417			
L3 92.70-89.78	32.13	99.50	A	1	0.725	10	1	1	3.163	31.43	10.76	C
			B	1	0.725		1	1	3.163			
			C	1	0.725		1	1	3.163			
L4 89.78-84.78	82.80	182.52	A	1	1.2	10	1	1	5.826	89.45	17.89	C
			B	1	1.2		1	1	5.826			
			C	1	1.2		1	1	5.826			
L5 84.78-79.78	110.13	203.31	A	1	1.2	10	1	1	6.477	103.26	20.65	C
			B	1	1.2		1	1	6.477			
			C	1	1.2		1	1	6.477			

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Section Elevation ft	Add Weight lb	Self Weight lb	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
L6 79.78-74.78	144.35	224.09	A	1	1.2	9	1	1	7.128	118.31	23.66	C
			B	1	1.2		1	1	7.128			
			C	1	1.2		1	1	7.128			
L7 74.78-72.50	67.14	109.08	A	1	1.2	9	1	1	3.467	59.07	25.91	A
			B	1	1.2		1	1	3.467			
			C	1	1.2		1	1	3.467			
L8 72.50-67.25	166.76	643.05	A	1	1.2	9	1	1	8.498	157.87	30.07	C
			B	1	1.2		1	1	8.498			
			C	1	1.2		1	1	8.498			
L9 67.25-62.25	160.00	625.09	A	1	1.2	9	1	1	8.761	158.30	31.66	C
			B	1	1.2		1	1	8.761			
			C	1	1.2		1	1	8.761			
L10 62.25-61.75	16.00	65.14	A	1	1.2	9	1	1	0.912	16.11	32.22	C
			B	1	1.2		1	1	0.912			
			C	1	1.2		1	1	0.912			
L11 61.75-56.50	171.47	832.95	A	1	1.2	9	1	1	9.968	172.08	32.78	C
			B	1	1.2		1	1	9.968			
			C	1	1.2		1	1	9.968			
L12 56.50-51.50	163.30	804.82	A	1	1.2	9	1	1	10.161	168.46	33.69	C
			B	1	1.2		1	1	10.161			
			C	1	1.2		1	1	10.161			
L13 51.50-44.98	212.94	1107.51	A	1	1.2	9	1	1	14.228	225.48	34.58	C
			B	1	1.2		1	1	14.228			
			C	1	1.2		1	1	14.228			
L14 44.98-43.24	56.83	891.93	A	1	1.2	8	1	1	3.869	59.86	34.40	C
			B	1	1.2		1	1	3.869			
			C	1	1.2		1	1	3.869			
L15 43.24-38.24	163.30	939.32	A	1	1.2	8	1	1	11.597	174.31	34.86	C
			B	1	1.2		1	1	11.597			
			C	1	1.2		1	1	11.597			
L16 38.24-33.24	163.30	955.50	A	1	1.2	8	1	1	12.242	176.37	35.27	C
			B	1	1.2		1	1	12.242			
			C	1	1.2		1	1	12.242			
L17 33.24-31.96	42.33	254.16	A	1	1.2	8	1	1	3.251	46.50	36.33	C
			B	1	1.2		1	1	3.251			
			C	1	1.2		1	1	3.251			
L18 31.96-26.96	168.53	1125.49	A	1	1.2	8	1	1	13.106	184.28	36.86	C
			B	1	1.2		1	1	13.106			
			C	1	1.2		1	1	13.106			
L19 26.96-21.96	175.90	1140.29	A	1	1.2	7	1	1	13.754	183.50	36.70	C
			B	1	1.2		1	1	13.754			
			C	1	1.2		1	1	13.754			
L20 21.96-16.96	128.66	1173.02	A	1	1.2	7	1	1	14.402	169.16	33.83	C
			B	1	1.2		1	1	14.402			
			C	1	1.2		1	1	14.402			
L21 16.96-11.96	98.20	9896.67	A	1	0.96	7	1	1	15.050	127.03	25.41	C
			B	1	0.96		1	1	15.050			
			C	1	0.96		1	1	15.050			
L22 11.96-6.96	98.20	1207.98	A	1	0.942	7	1	1	15.697	129.52	25.90	C
			B	1	0.942		1	1	15.697			
			C	1	0.942		1	1	15.697			
L23 6.96-1.96	98.20	1233.39	A	1	0.925	7	1	1	16.345	132.01	26.40	C
			B	1	0.925		1	1	16.345			
			C	1	0.925		1	1	16.345			
L24 1.96-0.00	38.49	498.09	A	1	0.914	7	1	1	6.598	52.48	26.78	C
			B	1	0.914		1	1	6.598			
			C	1	0.914		1	1	6.598			
Sum Weight:	2599.10	24553.64						OTM	126.39 kip-ft	2805.36		

<p>tnxTower</p> <p>Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120</p>	<p>Job</p> <p>17902175A</p>	<p>Page</p> <p>33 of 55</p>
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	<p>Client</p> <p>T-Mobile</p>	<p>Designed by</p>

Discrete Appurtenance Pressures - No Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
5' Sector Frame T-arm	0.0000	50.00	0.00	-0.54	101.00	1.268	29	2.72	2.72
5' Sector Frame T-arm	120.0000	50.00	0.47	0.27	101.00	1.268	29	2.72	2.72
5' Sector Frame T-arm	240.0000	50.00	-0.47	0.27	101.00	1.268	29	2.72	2.72
7770	0.0000	35.00	0.00	-4.54	90.00	1.238	28	5.51	2.93
7770	120.0000	35.00	3.93	2.27	90.00	1.238	28	5.51	2.93
7770	240.0000	35.00	-3.93	2.27	90.00	1.238	28	5.51	2.93
AM-X-CD-16-65-OOT-RET	300.0000	48.50	-3.93	-2.27	90.00	1.238	28	8.02	4.64
AM-X-CD-16-65-OOT-RET	120.0000	48.50	3.93	2.27	90.00	1.238	28	8.02	4.64
AM-X-CD-16-65-OOT-RET	240.0000	48.50	-3.93	2.27	90.00	1.238	28	8.02	4.64
800-10965	0.0000	137.80	0.00	-4.54	90.00	1.238	28	14.16	7.73
800-10965	120.0000	137.80	3.93	2.27	90.00	1.238	28	14.16	7.73
800-10965	240.0000	137.80	-3.93	2.27	90.00	1.238	28	14.16	7.73
QS66512-2	0.0000	111.00	0.00	-4.54	90.00	1.238	28	8.13	6.80
QS66512-2	120.0000	111.00	3.93	2.27	90.00	1.238	28	8.13	6.80
QS66512-2	240.0000	111.00	-3.93	2.27	90.00	1.238	28	8.13	6.80
RRUS 32	0.0000	52.90	0.00	-3.54	90.00	1.238	28	2.72	1.67
RRUS 32	120.0000	52.90	3.50	2.02	49.50	1.091	25	2.72	1.67
RRUS 32	240.0000	52.90	-3.07	1.77	90.00	1.238	28	2.72	1.67
RRUSB14 + 4478 B5 Shielded	0.0000	107.40	0.00	-3.54	90.00	1.238	28	0.02	1.66
RRUSB14 + 4478 B5 Shielded	120.0000	107.40	3.07	1.77	90.00	1.238	28	0.02	1.66
RRUSB14 + 4478 B5 Shielded	240.0000	107.40	-3.07	1.77	90.00	1.238	28	0.02	1.66
RRUS 32 B2	0.0000	52.90	0.00	-3.54	90.00	1.238	28	2.72	1.67
RRUS 32 B2	120.0000	52.90	3.07	1.77	90.00	1.238	28	2.72	1.67
RRUS 32 B2	240.0000	52.90	-3.07	1.77	90.00	1.238	28	2.72	1.67
RRUS 4426 B66	0.0000	46.00	0.00	-3.54	90.00	1.238	28	1.65	0.68
RRUS 4426 B66	120.0000	46.00	3.07	1.77	90.00	1.238	28	1.65	0.68
RRUS 4426 B66	240.0000	46.00	-3.07	1.77	90.00	1.238	28	1.65	0.68
RRUS11 B12 (Partiall Shielded by 11.9" Antenna)	0.0000	50.70	0.00	-3.54	90.00	1.238	28	0.88	1.18
RRUS11 B12 (Partiall Shielded by 11.9" Antenna)	120.0000	50.70	3.07	1.77	90.00	1.238	28	0.88	1.18
RRUS11 B12 (Partiall Shielded by 11.9" Antenna)	240.0000	50.70	-3.07	1.77	90.00	1.238	28	0.88	1.18
DC6-48-06-18-8F	0.0000	32.00	0.00	-3.54	90.00	1.238	28	1.20	1.20
DC6-48-06-18-8F	120.0000	32.00	3.07	1.77	90.00	1.238	28	1.20	1.20
DC6-48-06-18-8F	240.0000	32.00	-3.07	1.77	90.00	1.238	28	1.20	1.20
LGP 17201 (Front Shielded by Antenna)	0.0000	40.00	0.00	-4.04	49.50	1.091	25	0.03	0.81
LGP 17201 (Front Shielded by Antenna)	120.0000	40.00	3.07	1.77	90.00	1.238	28	0.03	0.81
LGP 17201 (Front Shielded by Antenna)	240.0000	40.00	-3.07	1.77	90.00	1.238	28	0.03	0.81
DBC0061F1V51-2 Twin Unit	0.0000	36.60	0.00	-3.54	90.00	1.238	28	0.86	0.83

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Client	T-Mobile	Designed by	

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
DBC0061F1V51-2 Twin Unit	120.0000	36.60	3.07	1.77	90.00	1.238	28	0.86	0.83
DBC0061F1V51-2 Twin Unit	240.0000	36.60	-3.07	1.77	90.00	1.238	28	0.86	0.83
TPX070821	0.0000	15.00	0.00	-3.54	90.00	1.238	28	0.94	0.20
TPX070821	120.0000	15.00	3.07	1.77	90.00	1.238	28	0.94	0.20
TPX070821	240.0000	15.00	-3.07	1.77	90.00	1.238	28	0.94	0.20
Rohn 14' Rotable Platform	0.0000	2500.00	0.00	0.00	90.00	1.238	28	41.00	41.00
MGD3-900TX	0.0000	20.00	0.00	-4.64	82.00	1.214	28	4.78	3.60
MGD3-900TX	120.0000	20.00	4.02	2.32	82.00	1.214	28	4.78	3.60
MGD3-900TX	240.0000	20.00	-4.02	2.32	82.00	1.214	28	4.78	3.60
BXA-171063-12BF-EDI N-X	0.0000	12.80	0.00	-4.64	82.00	1.214	28	4.80	3.63
BXA-171063-12BF-EDI N-X	120.0000	12.80	4.02	2.32	82.00	1.214	28	4.80	3.63
BXA-171063-12BF-EDI N-X	240.0000	12.80	-4.02	2.32	82.00	1.214	28	4.80	3.63
BXA-70063-6CF-EDIN-X	0.0000	76.00	0.00	-4.64	82.00	1.214	28	28.82	11.44
BXA-70063-6CF-EDIN-X	120.0000	76.00	4.02	2.32	82.00	1.214	28	28.82	11.44
BXA-70063-6CF-EDIN-X	240.0000	76.00	-4.02	2.32	82.00	1.214	28	28.82	11.44
RRH2x40-07L	0.0000	100.00	0.00	-4.64	82.00	1.214	28	4.20	4.20
RRH2x40-07L	120.0000	100.00	4.02	2.32	82.00	1.214	28	4.20	4.20
RRH2x40-07L	240.0000	100.00	-4.02	2.32	82.00	1.214	28	4.20	4.20
RRH 1900 MHz	0.0000	120.00	0.00	-1.74	74.00	1.188	27	5.17	5.08
RRH 1900 MHz	120.0000	120.00	1.86	1.08	41.00	1.049	24	5.17	5.08
RRH 1900 MHz	240.0000	120.00	-1.50	0.87	75.00	1.191	27	5.17	5.08
RRH 800 MHz	0.0000	64.00	0.00	-1.76	73.00	1.184	27	2.40	2.25
RRH 800 MHz	120.0000	64.00	1.52	0.88	73.00	1.184	27	2.40	2.25
RRH 800 MHz	240.0000	64.00	-1.52	0.88	73.00	1.184	27	2.40	2.25
Rohn 14' Rotable Platform	0.0000	2500.00	0.00	0.00	82.00	1.214	28	41.00	41.00
APXVTM14-CI20	0.0000	56.20	0.00	-4.77	72.00	1.181	27	6.34	3.61
APXVTM14-CI20	120.0000	56.20	4.13	2.38	72.00	1.181	27	6.34	3.61
APXVTM14-CI20	240.0000	56.20	-4.13	2.38	72.00	1.181	27	6.34	3.61
APXVSPP18-C	0.0000	57.00	0.00	-4.77	72.00	1.181	27	8.02	5.28
APXVSPP18-C	120.0000	57.00	4.13	2.38	72.00	1.181	27	8.02	5.28
APXVSPP18-C	240.0000	57.00	-4.13	2.38	72.00	1.181	27	8.02	5.28
RRH8x20-25	0.0000	70.00	0.00	-4.77	72.00	1.181	27	4.72	1.70
RRH8x20-25	120.0000	70.00	4.13	2.38	72.00	1.181	27	4.72	1.70
RRH8x20-25	240.0000	70.00	-4.13	2.38	72.00	1.181	27	4.72	1.70
Junction Box	240.0000	15.00	-4.13	2.38	72.00	1.181	27	0.97	0.97
14' T Arm round	0.0000	336.00	0.00	-2.77	72.00	1.181	27	3.50	1.60
14' T Arm round	120.0000	336.00	2.40	1.38	72.00	1.181	27	3.50	1.60
14' T Arm round	240.0000	336.00	-2.40	1.38	72.00	1.181	27	3.50	1.60
14' T Arm round	0.0000	336.00	0.00	-2.30	28.00	0.968	22	3.50	1.60
5' Sector Frame T-arm	0.0000	50.00	0.00	-2.30	28.00	0.968	22	2.72	2.72
5' Sector Frame T-arm	0.0000	50.00	0.00	-2.30	28.00	0.968	22	2.72	2.72
20' Omni	0.0000	40.00	0.00	-2.30	42.00	1.054	24	6.00	6.00
10' Omni	0.0000	30.00	0.00	-2.30	36.00	1.021	23	2.00	2.00
10' Omni	0.0000	30.00	0.00	-2.30	36.00	1.021	23	2.00	2.00
10' Omni	0.0000	30.00	0.00	-2.30	34.00	1.008	23	2.00	2.00
10' Omni	0.0000	30.00	0.00	-2.30	34.00	1.008	23	2.00	2.00
10' Omni	0.0000	30.00	0.00	-1.30	34.00	1.008	23	2.00	2.00
GPS	0.0000	24.87	0.00	-2.30	30.00	0.982	22	0.26	0.31
Sum Weight:		10849.27							

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job 17902175A	Page 35 of 55
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	Client T-Mobile	Designed by

Discrete Appurtenance Pressures - With Ice $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²	t _z in
5' Sector Frame T-arm	0.0000	180.85	0.00	-0.54	101.00	1.268	8	10.07	10.07	1.6775
5' Sector Frame T-arm	120.0000	180.85	0.47	0.27	101.00	1.268	8	10.07	10.07	1.6775
5' Sector Frame T-arm	240.0000	180.85	-0.47	0.27	101.00	1.268	8	10.07	10.07	1.6775
7770	0.0000	164.33	0.00	-4.54	90.00	1.238	8	6.73	4.10	1.6583
7770	120.0000	164.33	3.93	2.27	90.00	1.238	8	6.73	4.10	1.6583
7770	240.0000	164.33	-3.93	2.27	90.00	1.238	8	6.73	4.10	1.6583
AM-X-CD-16-65-OOT-RET	300.0000	229.00	-3.93	-2.27	90.00	1.238	8	9.57	6.15	1.6583
AM-X-CD-16-65-OOT-RET	120.0000	229.00	3.93	2.27	90.00	1.238	8	9.57	6.15	1.6583
AM-X-CD-16-65-OOT-RET	240.0000	229.00	-3.93	2.27	90.00	1.238	8	9.57	6.15	1.6583
800-10965	0.0000	503.38	0.00	-4.54	90.00	1.238	8	16.34	11.55	1.6583
800-10965	120.0000	503.38	3.93	2.27	90.00	1.238	8	16.34	11.55	1.6583
800-10965	240.0000	503.38	-3.93	2.27	90.00	1.238	8	16.34	11.55	1.6583
QS66512-2	0.0000	328.09	0.00	-4.54	90.00	1.238	8	9.68	8.33	1.6583
QS66512-2	120.0000	328.09	3.93	2.27	90.00	1.238	8	9.68	8.33	1.6583
QS66512-2	240.0000	328.09	-3.93	2.27	90.00	1.238	8	9.68	8.33	1.6583
RRUS 32	0.0000	136.75	0.00	-3.54	90.00	1.238	8	3.49	2.32	1.6583
RRUS 32	120.0000	131.09	3.50	2.02	49.50	1.091	7	3.44	2.28	1.5621
RRUS 32	240.0000	136.75	-3.07	1.77	90.00	1.238	8	3.49	2.32	1.6583
RRUSB14 + 4478 B5 Shielded	0.0000	141.57	0.00	-3.54	90.00	1.238	8	0.39	2.23	1.6583
RRUSB14 + 4478 B5 Shielded	120.0000	141.57	3.07	1.77	90.00	1.238	8	0.39	2.23	1.6583
RRUSB14 + 4478 B5 Shielded	240.0000	141.57	-3.07	1.77	90.00	1.238	8	0.39	2.23	1.6583
RRUS 32 B2	0.0000	136.75	0.00	-3.54	90.00	1.238	8	3.49	2.32	1.6583
RRUS 32 B2	120.0000	136.75	3.07	1.77	90.00	1.238	8	3.49	2.32	1.6583
RRUS 32 B2	240.0000	136.75	-3.07	1.77	90.00	1.238	8	3.49	2.32	1.6583
RRUS 4426 B66	0.0000	98.06	0.00	-3.54	90.00	1.238	8	2.21	1.09	1.6583
RRUS 4426 B66	120.0000	98.06	3.07	1.77	90.00	1.238	8	2.21	1.09	1.6583
RRUS 4426 B66	240.0000	98.06	-3.07	1.77	90.00	1.238	8	2.21	1.09	1.6583
RRUS11 B12 (Partial Shielded by 11.9" Antenna)	0.0000	94.05	0.00	-3.54	90.00	1.238	8	1.37	1.71	1.6583
RRUS11 B12 (Partial Shielded by 11.9" Antenna)	120.0000	94.05	3.07	1.77	90.00	1.238	8	1.37	1.71	1.6583
RRUS11 B12 (Partial Shielded by 11.9" Antenna)	240.0000	94.05	-3.07	1.77	90.00	1.238	8	1.37	1.71	1.6583
DC6-48-06-18-8F	0.0000	116.98	0.00	-3.54	90.00	1.238	8	2.39	2.39	1.6583
DC6-48-06-18-8F	120.0000	116.98	3.07	1.77	90.00	1.238	8	2.39	2.39	1.6583
DC6-48-06-18-8F	240.0000	116.98	-3.07	1.77	90.00	1.238	8	2.39	2.39	1.6583
LGP 17201 (Front Shielded by Antenna)	0.0000	63.81	0.00	-4.04	49.50	1.091	7	0.59	1.43	1.5621
LGP 17201 (Front Shielded by Antenna)	120.0000	65.99	3.07	1.77	90.00	1.238	8	0.63	1.48	1.6583
LGP 17201 (Front Shielded by Antenna)	240.0000	65.99	-3.07	1.77	90.00	1.238	8	0.63	1.48	1.6583
DBC0061F1V51-2 Twin Unit	0.0000	85.79	0.00	-3.54	90.00	1.238	8	1.48	1.44	1.6583
DBC0061F1V51-2 Twin Unit	120.0000	85.79	3.07	1.77	90.00	1.238	8	1.48	1.44	1.6583

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job 17902175A	Page 37 of 55
	Project Town of Newport	Date 16:14:06 10/18/18
	Client T-Mobile	Designed by

Discrete Appurtenance Pressures - Service $G_H = 1.100$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
5' Sector Frame T-arm	0.0000	50.00	0.00	-0.54	101.00	1.268	10	2.72	2.72
5' Sector Frame T-arm	120.0000	50.00	0.47	0.27	101.00	1.268	10	2.72	2.72
5' Sector Frame T-arm	240.0000	50.00	-0.47	0.27	101.00	1.268	10	2.72	2.72
7770	0.0000	35.00	0.00	-4.54	90.00	1.238	10	5.51	2.93
7770	120.0000	35.00	3.93	2.27	90.00	1.238	10	5.51	2.93
7770	240.0000	35.00	-3.93	2.27	90.00	1.238	10	5.51	2.93
AM-X-CD-16-65-OOT-RET	300.0000	48.50	-3.93	-2.27	90.00	1.238	10	8.02	4.64
AM-X-CD-16-65-OOT-RET	120.0000	48.50	3.93	2.27	90.00	1.238	10	8.02	4.64
AM-X-CD-16-65-OOT-RET	240.0000	48.50	-3.93	2.27	90.00	1.238	10	8.02	4.64
800-10965	0.0000	137.80	0.00	-4.54	90.00	1.238	10	14.16	7.73
800-10965	120.0000	137.80	3.93	2.27	90.00	1.238	10	14.16	7.73
800-10965	240.0000	137.80	-3.93	2.27	90.00	1.238	10	14.16	7.73
QS66512-2	0.0000	111.00	0.00	-4.54	90.00	1.238	10	8.13	6.80
QS66512-2	120.0000	111.00	3.93	2.27	90.00	1.238	10	8.13	6.80
QS66512-2	240.0000	111.00	-3.93	2.27	90.00	1.238	10	8.13	6.80
RRUS 32	0.0000	52.90	0.00	-3.54	90.00	1.238	10	2.72	1.67
RRUS 32	120.0000	52.90	3.50	2.02	49.50	1.091	9	2.72	1.67
RRUS 32	240.0000	52.90	-3.07	1.77	90.00	1.238	10	2.72	1.67
RRUSB14 + 4478 B5 Shielded	0.0000	107.40	0.00	-3.54	90.00	1.238	10	0.02	1.66
RRUSB14 + 4478 B5 Shielded	120.0000	107.40	3.07	1.77	90.00	1.238	10	0.02	1.66
RRUSB14 + 4478 B5 Shielded	240.0000	107.40	-3.07	1.77	90.00	1.238	10	0.02	1.66
RRUS 32 B2	0.0000	52.90	0.00	-3.54	90.00	1.238	10	2.72	1.67
RRUS 32 B2	120.0000	52.90	3.07	1.77	90.00	1.238	10	2.72	1.67
RRUS 32 B2	240.0000	52.90	-3.07	1.77	90.00	1.238	10	2.72	1.67
RRUS 4426 B66	0.0000	46.00	0.00	-3.54	90.00	1.238	10	1.65	0.68
RRUS 4426 B66	120.0000	46.00	3.07	1.77	90.00	1.238	10	1.65	0.68
RRUS 4426 B66	240.0000	46.00	-3.07	1.77	90.00	1.238	10	1.65	0.68
RRUS11 B12 (Partial Shielded by 11.9" Antenna)	0.0000	50.70	0.00	-3.54	90.00	1.238	10	0.88	1.18
RRUS11 B12 (Partial Shielded by 11.9" Antenna)	120.0000	50.70	3.07	1.77	90.00	1.238	10	0.88	1.18
RRUS11 B12 (Partial Shielded by 11.9" Antenna)	240.0000	50.70	-3.07	1.77	90.00	1.238	10	0.88	1.18
DC6-48-06-18-8F	0.0000	32.00	0.00	-3.54	90.00	1.238	10	1.20	1.20
DC6-48-06-18-8F	120.0000	32.00	3.07	1.77	90.00	1.238	10	1.20	1.20
DC6-48-06-18-8F	240.0000	32.00	-3.07	1.77	90.00	1.238	10	1.20	1.20
LGP 17201 (Front Shielded by Antenna)	0.0000	40.00	0.00	-4.04	49.50	1.091	9	0.03	0.81
LGP 17201 (Front Shielded by Antenna)	120.0000	40.00	3.07	1.77	90.00	1.238	10	0.03	0.81
LGP 17201 (Front Shielded by Antenna)	240.0000	40.00	-3.07	1.77	90.00	1.238	10	0.03	0.81
DBC0061F1V51-2 Twin Unit	0.0000	36.60	0.00	-3.54	90.00	1.238	10	0.86	0.83
DBC0061F1V51-2 Twin Unit	120.0000	36.60	3.07	1.77	90.00	1.238	10	0.86	0.83
DBC0061F1V51-2 Twin Unit	240.0000	36.60	-3.07	1.77	90.00	1.238	10	0.86	0.83
TPX070821	0.0000	15.00	0.00	-3.54	90.00	1.238	10	0.94	0.20

tnxTower Maser Consulting 2000 Midlantic Drive, Suite 100 Mt. Laurel, NJ Phone: 856 797-0412 FAX: 856 722-1120	Job	17902175A	Page	38 of 55
	Project	Town of Newport	Date	16:14:06 10/18/18
	Client	T-Mobile	Designed by	

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²
TPX070821	120.0000	15.00	3.07	1.77	90.00	1.238	10	0.94	0.20
TPX070821	240.0000	15.00	-3.07	1.77	90.00	1.238	10	0.94	0.20
Rohn 14' Rotable Platform	0.0000	2500.00	0.00	0.00	90.00	1.238	10	41.00	41.00
MGD3-900TX	0.0000	20.00	0.00	-4.64	82.00	1.214	10	4.78	3.60
MGD3-900TX	120.0000	20.00	4.02	2.32	82.00	1.214	10	4.78	3.60
MGD3-900TX	240.0000	20.00	-4.02	2.32	82.00	1.214	10	4.78	3.60
BXA-171063-12BF-EDI N-X	0.0000	12.80	0.00	-4.64	82.00	1.214	10	4.80	3.63
BXA-171063-12BF-EDI N-X	120.0000	12.80	4.02	2.32	82.00	1.214	10	4.80	3.63
BXA-171063-12BF-EDI N-X	240.0000	12.80	-4.02	2.32	82.00	1.214	10	4.80	3.63
BXA-70063-6CF-EDIN-X	0.0000	76.00	0.00	-4.64	82.00	1.214	10	28.82	11.44
BXA-70063-6CF-EDIN-X	120.0000	76.00	4.02	2.32	82.00	1.214	10	28.82	11.44
BXA-70063-6CF-EDIN-X	240.0000	76.00	-4.02	2.32	82.00	1.214	10	28.82	11.44
RRH2x40-07L	0.0000	100.00	0.00	-4.64	82.00	1.214	10	4.20	4.20
RRH2x40-07L	120.0000	100.00	4.02	2.32	82.00	1.214	10	4.20	4.20
RRH2x40-07L	240.0000	100.00	-4.02	2.32	82.00	1.214	10	4.20	4.20
RRH 1900 MHz	0.0000	120.00	0.00	-1.74	74.00	1.188	9	5.17	5.08
RRH 1900 MHz	120.0000	120.00	1.86	1.08	41.00	1.049	8	5.17	5.08
RRH 1900 MHz	240.0000	120.00	-1.50	0.87	75.00	1.191	9	5.17	5.08
RRH 800 MHz	0.0000	64.00	0.00	-1.76	73.00	1.184	9	2.40	2.25
RRH 800 MHz	120.0000	64.00	1.52	0.88	73.00	1.184	9	2.40	2.25
RRH 800 MHz	240.0000	64.00	-1.52	0.88	73.00	1.184	9	2.40	2.25
Rohn 14' Rotable Platform	0.0000	2500.00	0.00	0.00	82.00	1.214	10	41.00	41.00
APXVTM14-CI20	0.0000	56.20	0.00	-4.77	72.00	1.181	9	6.34	3.61
APXVTM14-CI20	120.0000	56.20	4.13	2.38	72.00	1.181	9	6.34	3.61
APXVTM14-CI20	240.0000	56.20	-4.13	2.38	72.00	1.181	9	6.34	3.61
APXVSPP18-C	0.0000	57.00	0.00	-4.77	72.00	1.181	9	8.02	5.28
APXVSPP18-C	120.0000	57.00	4.13	2.38	72.00	1.181	9	8.02	5.28
APXVSPP18-C	240.0000	57.00	-4.13	2.38	72.00	1.181	9	8.02	5.28
RRH8x20-25	0.0000	70.00	0.00	-4.77	72.00	1.181	9	4.72	1.70
RRH8x20-25	120.0000	70.00	4.13	2.38	72.00	1.181	9	4.72	1.70
RRH8x20-25	240.0000	70.00	-4.13	2.38	72.00	1.181	9	4.72	1.70
Junction Box	240.0000	15.00	-4.13	2.38	72.00	1.181	9	0.97	0.97
14' T Arm round	0.0000	336.00	0.00	-2.77	72.00	1.181	9	3.50	1.60
14' T Arm round	120.0000	336.00	2.40	1.38	72.00	1.181	9	3.50	1.60
14' T Arm round	240.0000	336.00	-2.40	1.38	72.00	1.181	9	3.50	1.60
14' T Arm round	0.0000	336.00	0.00	-2.30	28.00	0.968	8	3.50	1.60
5' Sector Frame T-arm	0.0000	50.00	0.00	-2.30	28.00	0.968	8	2.72	2.72
5' Sector Frame T-arm	0.0000	50.00	0.00	-2.30	28.00	0.968	8	2.72	2.72
20' Omni	0.0000	40.00	0.00	-2.30	42.00	1.054	8	6.00	6.00
10' Omni	0.0000	30.00	0.00	-2.30	36.00	1.021	8	2.00	2.00
10' Omni	0.0000	30.00	0.00	-2.30	36.00	1.021	8	2.00	2.00
10' Omni	0.0000	30.00	0.00	-2.30	34.00	1.008	8	2.00	2.00
10' Omni	0.0000	30.00	0.00	-2.30	34.00	1.008	8	2.00	2.00
10' Omni	0.0000	30.00	0.00	-1.30	34.00	1.008	8	2.00	2.00
GPS	0.0000	24.87	0.00	-2.30	30.00	0.982	8	0.26	0.31
Sum Weight:		10849.27							

Dish Pressures - No Ice

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Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	
72.00	2' dish	180.0000	15.00	0.00	4.77	1.181	3.14		27
72.00	2' dish	0.0000	15.00	0.00	-4.77	1.181	3.14		27
72.00	2' dish	0.0000	15.00	0.00	-4.77	1.181	3.14		27
	Sum		45.00						
	Weight:								

Dish Pressures - With Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
72.00	2' dish	180.0000	86.78	0.00	4.77	1.181	4.01	7	1.6217
72.00	2' dish	0.0000	86.78	0.00	-4.77	1.181	4.01	7	1.6217
72.00	2' dish	0.0000	86.78	0.00	-4.77	1.181	4.01	7	1.6217
	Sum		260.33						
	Weight:								

Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	
72.00	2' dish	180.0000	15.00	0.00	4.77	1.181	3.14		9
72.00	2' dish	0.0000	15.00	0.00	-4.77	1.181	3.14		9
72.00	2' dish	0.0000	15.00	0.00	-4.77	1.181	3.14		9
	Sum		45.00						
	Weight:								

Force Totals

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M _x kip-ft	Sum of Overturning Moments, M _z kip-ft	Sum of Torques kip-ft
Leg Weight	24553.64					
Bracing Weight	0.00					
Total Member Self-Weight	24553.64			-0.40	1.50	
Total Weight	38047.01			-0.40	1.50	
Wind 0 deg - No Ice		-35.51	-17057.63	-1130.12	4.25	-1.75
Wind 30 deg - No Ice		8893.03	-15370.52	-996.96	-576.59	-1.99
Wind 60 deg - No Ice		15469.51	-8871.47	-577.80	-1008.81	-1.62
Wind 90 deg - No Ice		18371.39	35.51	2.34	-1182.87	-0.71
Wind 120 deg - No Ice		15505.01	8932.97	581.75	-1011.55	0.16
Wind 150 deg - No Ice		8926.95	15358.26	995.65	-579.47	1.05
Wind 180 deg - No Ice		35.51	17057.63	1129.31	-1.24	1.75
Wind 210 deg - No Ice		-8893.03	15370.52	996.15	579.60	1.99
Wind 240 deg - No Ice		-15469.51	8871.47	576.99	1011.82	1.62
Wind 270 deg - No Ice		-18371.39	-35.51	-3.15	1185.88	0.71
Wind 300 deg - No Ice		-15505.01	-8932.97	-582.56	1014.56	-0.16
Wind 330 deg - No Ice		-8926.95	-15358.26	-996.46	582.48	-1.05
Member Ice	4967.54					
Total Weight Ice	62383.67			0.57	3.66	

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Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M_x kip-ft	Sum of Overturning Moments, M_z kip-ft	Sum of Torques kip-ft
Wind 0 deg - Ice		-11.91	-8154.34	-519.03	4.60	-1.36
Wind 30 deg - Ice		4031.67	-7010.51	-447.82	-255.36	-1.28
Wind 60 deg - Ice		7374.57	-4259.81	-268.22	-464.01	-0.63
Wind 90 deg - Ice		8744.72	11.91	1.51	-547.73	0.22
Wind 120 deg - Ice		7338.00	4252.45	269.23	-461.91	0.71
Wind 150 deg - Ice		4018.22	6963.40	445.87	-254.66	1.06
Wind 180 deg - Ice		11.91	8154.34	520.17	2.72	1.36
Wind 210 deg - Ice		-4031.67	7010.51	448.96	262.67	1.28
Wind 240 deg - Ice		-7374.57	4259.81	269.35	471.33	0.63
Wind 270 deg - Ice		-8744.72	-11.91	-0.37	555.05	-0.22
Wind 300 deg - Ice		-7338.00	-4252.45	-268.09	469.23	-0.71
Wind 330 deg - Ice		-4018.22	-6963.40	-444.74	261.98	-1.06
Total Weight	38047.01			-0.40	1.50	
Wind 0 deg - Service		-12.15	-5839.47	-388.12	1.11	-0.18
Wind 30 deg - Service		3044.42	-5261.90	-342.53	-197.74	-0.45
Wind 60 deg - Service		5295.79	-3037.04	-199.04	-345.70	-0.60
Wind 90 deg - Service		6289.21	12.15	-0.43	-405.29	-0.59
Wind 120 deg - Service		5307.95	3058.09	197.92	-346.64	-0.42
Wind 150 deg - Service		3056.03	5257.71	339.61	-198.72	-0.14
Wind 180 deg - Service		12.15	5839.47	385.37	-0.77	0.18
Wind 210 deg - Service		-3044.42	5261.90	339.78	198.07	0.45
Wind 240 deg - Service		-5295.79	3037.04	196.29	346.04	0.60
Wind 270 deg - Service		-6289.21	-12.15	-2.32	405.63	0.59
Wind 300 deg - Service		-5307.95	-3058.09	-200.67	346.98	0.42
Wind 330 deg - Service		-3056.03	-5257.71	-342.36	199.06	0.14

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.6 Wind 0 deg - No Ice
3	0.9 Dead+1.6 Wind 0 deg - No Ice
4	1.2 Dead+1.6 Wind 30 deg - No Ice
5	0.9 Dead+1.6 Wind 30 deg - No Ice
6	1.2 Dead+1.6 Wind 60 deg - No Ice
7	0.9 Dead+1.6 Wind 60 deg - No Ice
8	1.2 Dead+1.6 Wind 90 deg - No Ice
9	0.9 Dead+1.6 Wind 90 deg - No Ice
10	1.2 Dead+1.6 Wind 120 deg - No Ice
11	0.9 Dead+1.6 Wind 120 deg - No Ice
12	1.2 Dead+1.6 Wind 150 deg - No Ice
13	0.9 Dead+1.6 Wind 150 deg - No Ice
14	1.2 Dead+1.6 Wind 180 deg - No Ice
15	0.9 Dead+1.6 Wind 180 deg - No Ice
16	1.2 Dead+1.6 Wind 210 deg - No Ice
17	0.9 Dead+1.6 Wind 210 deg - No Ice
18	1.2 Dead+1.6 Wind 240 deg - No Ice
19	0.9 Dead+1.6 Wind 240 deg - No Ice
20	1.2 Dead+1.6 Wind 270 deg - No Ice
21	0.9 Dead+1.6 Wind 270 deg - No Ice
22	1.2 Dead+1.6 Wind 300 deg - No Ice
23	0.9 Dead+1.6 Wind 300 deg - No Ice
24	1.2 Dead+1.6 Wind 330 deg - No Ice
25	0.9 Dead+1.6 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp

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Comb. No.	Description
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L1	102.7 - 97.7	Pole	Max Tension	48	0.00	0.00	0.00
			Max. Compression	26	-980.26	0.00	-0.02
			Max. Mx	20	-368.85	1.53	-0.00
			Max. My	14	-369.76	0.00	-1.53
			Max. Vy	20	-506.25	1.53	-0.00
			Max. Vx	14	505.58	0.00	-1.53
			Max. Torque	24			-0.00
L2	97.7 - 92.7	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-1395.11	0.01	-0.05
			Max. Mx	20	-589.29	4.51	-0.00
			Max. My	14	-590.52	0.00	-4.51
			Max. Vy	20	-686.36	4.51	-0.00
			Max. Vx	14	685.30	0.00	-4.51
			Max. Torque	24			-0.00
L3	92.7 - 89.78	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-13029.12	1.42	-0.62
			Max. Mx	20	-5923.15	8.63	-0.16
			Max. My	14	-5947.03	0.36	-8.35
			Max. Vy	20	-7453.00	8.63	-0.16
			Max. Vx	14	7292.36	0.36	-8.35
			Max. Torque	24			1.04
L4	89.78 - 84.78	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-13595.02	1.47	-0.68
			Max. Mx	20	-6236.21	46.97	0.03
			Max. My	14	-6260.26	0.18	-45.88
			Max. Vy	20	-7885.31	46.97	0.03
			Max. Vx	14	7721.61	0.18	-45.88
			Max. Torque	24			1.07
L5	84.78 - 79.78	Pole	Max Tension	1	0.00	0.00	0.00

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L6	79.78 - 74.78	Pole	Max. Compression	26	-22662.66	1.56	-0.76
			Max. Mx	20	-10024.73	99.98	0.23
			Max. My	14	-10057.31	0.01	-98.05
			Max. Vy	20	-13942.73	99.98	0.23
			Max. Vx	14	13770.60	0.01	-98.05
			Max. Torque	24			1.12
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-23808.90	2.19	-1.11
			Max. Mx	20	-10686.80	171.24	0.33
			Max. My	14	-10717.89	0.05	-168.31
L7	74.78 - 72.5	Pole	Max. Vy	20	-14684.57	171.24	0.33
			Max. Vx	14	14508.56	0.05	-168.31
			Max. Torque	24			1.53
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-24952.21	2.24	-0.62
			Max. Mx	20	-11279.25	205.38	0.62
			Max. My	14	-11309.79	-0.03	-201.83
			Max. Vy	20	-15385.96	205.38	0.62
			Max. Vx	14	15211.22	-0.03	-201.83
			Max. Torque	24			1.53
L8	72.5 - 67.25	Pole	Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-30697.16	2.58	-0.61
			Max. Mx	20	-14119.94	300.55	0.79
			Max. My	14	-14158.57	-0.14	-295.68
			Max. Vy	20	-18740.09	300.55	0.79
			Max. Vx	14	18447.34	-0.14	-295.68
			Max. Torque	16			-1.73
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-32207.96	2.70	-0.92
			Max. Mx	20	-15130.12	396.08	0.96
L9	67.25 - 62.25	Pole	Max. My	14	-15172.21	-0.32	-389.48
			Max. Vy	20	-19477.11	396.08	0.96
			Max. Vx	14	19065.18	-0.32	-389.48
			Max. Torque	16			-1.75
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-32362.74	2.71	-0.95
			Max. Mx	20	-15239.40	405.84	0.98
			Max. My	14	-15281.58	-0.33	-399.03
			Max. Vy	20	-19548.07	405.84	0.98
			Max. Vx	14	19124.38	-0.33	-399.03
L10	62.25 - 61.75	Pole	Max. Torque	16			-1.75
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-34211.92	2.82	-1.28
			Max. Mx	20	-16508.92	510.60	1.16
			Max. My	14	-16553.79	-0.52	-501.27
			Max. Vy	20	-20358.72	510.60	1.16
			Max. Vx	14	19811.98	-0.52	-501.27
			Max. Torque	2			1.78
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-35995.61	2.92	-1.61
L11	61.75 - 56.5	Pole	Max. Mx	20	-17745.75	614.33	1.33
			Max. My	14	-17791.56	-0.70	-602.01
			Max. Vy	20	-21136.34	614.33	1.33
			Max. Vx	14	20474.90	-0.70	-602.01
			Max. Torque	2			1.86
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37185.82	2.99	-1.83
			Max. Mx	20	-18576.66	684.06	1.45
			Max. My	14	-18622.34	-0.82	-669.48
			Max. Vy	20	-21642.45	684.06	1.45
L12	56.5 - 51.5	Pole	Max. Vx	14	20909.45	-0.82	-669.48
			Max. Torque	2			1.86
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-37185.82	2.99	-1.83
			Max. Mx	20	-18576.66	684.06	1.45
L13	51.5 - 44.98	Pole	Max. My	14	-18622.34	-0.82	-669.48
			Max. Vy	20	-21642.45	684.06	1.45
			Max. Vx	14	20909.45	-0.82	-669.48
			Max. Torque	2			1.86
			Max Tension	1	0.00	0.00	0.00

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L14	44.98 - 43.24	Pole	Max. Torque	2			1.91
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-39958.64	3.05	-2.18
			Max. Mx	20	-20580.14	794.46	1.62
			Max. My	14	-20626.91	-1.03	-775.97
			Max. Vy	20	-22501.91	794.46	1.62
			Max. Vx	14	21653.35	-1.03	-775.97
L15	43.24 - 38.24	Pole	Max. Torque	2			1.97
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-41915.32	3.15	-2.53
			Max. Mx	20	-22001.71	908.89	1.80
			Max. My	14	-22045.68	-1.22	-885.91
			Max. Vy	20	-23275.97	908.89	1.80
			Max. Vx	2	-22320.21	3.59	884.67
L16	38.24 - 33.24	Pole	Max. Torque	2			2.05
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-43895.97	3.25	-2.88
			Max. Mx	20	-23441.75	1027.22	1.98
			Max. My	14	-23485.74	-1.41	-998.78
			Max. Vy	20	-24055.53	1027.22	1.98
			Max. Vx	2	-22814.95	3.92	997.37
L17	33.24 - 31.96	Pole	Max. Torque	2			2.14
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-44420.86	3.28	-2.98
			Max. Mx	20	-23819.78	1058.15	2.02
			Max. My	14	-23863.44	-1.46	-1028.09
			Max. Vy	20	-24263.39	1058.15	2.02
			Max. Vx	2	-22959.69	4.00	1026.62
L18	31.96 - 26.96	Pole	Max. Torque	2			2.16
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-48413.44	3.39	0.57
			Max. Mx	20	-26233.16	1188.87	3.93
			Max. My	2	-26273.12	4.34	1151.85
			Max. Vy	20	-26041.44	1188.87	3.93
			Max. Vx	2	-24546.36	4.34	1151.85
L19	26.96 - 21.96	Pole	Max. Torque	4			2.97
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-50665.19	3.51	0.15
			Max. Mx	20	-27913.88	1321.10	4.10
			Max. My	2	-27949.25	4.69	1275.76
			Max. Vy	20	-26843.06	1321.10	4.10
			Max. Vx	2	-25079.05	4.69	1275.76
L20	21.96 - 16.96	Pole	Max. Torque	4			2.99
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-52799.92	3.64	-0.11
			Max. Mx	20	-29582.02	1457.14	4.29
			Max. My	2	-29610.11	5.05	1402.28
			Max. Vy	20	-27567.61	1457.14	4.29
			Max. Vx	2	-25586.96	5.05	1402.28
L21	16.96 - 11.96	Pole	Max. Torque	4			3.02
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-65302.54	3.77	-0.27
			Max. Mx	20	-41612.69	1596.74	4.50
			Max. My	2	-41638.68	5.41	1531.70
			Max. Vy	20	-28253.48	1596.74	4.50
			Max. Vx	2	-26228.76	5.41	1531.70
L22	11.96 - 6.96	Pole	Max. Torque	4			3.05
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-67363.95	3.92	-0.42
			Max. Mx	20	-43282.01	1739.29	4.70
			Max. My	2	-43298.33	5.79	1663.87

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
L23	6.96 - 1.96	Pole	Max. Vy	20	-28749.92	1739.29	4.70
			Max. Vx	2	-26690.80	5.79	1663.87
			Max. Torque	4			3.08
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-69398.55	4.14	-0.55
			Max. Mx	20	-44977.31	1884.27	4.91
			Max. My	2	-44982.63	6.21	1798.27
			Max. Vy	20	-29220.79	1884.27	4.91
L24	1.96 - 0	Pole	Max. Vx	2	-27130.30	6.21	1798.27
			Max. Torque	4			3.16
			Max Tension	1	0.00	0.00	0.00
			Max. Compression	26	-70190.48	4.23	-0.60
			Max. Mx	20	-45649.20	1941.75	4.99
			Max. My	2	-45651.33	6.37	1851.55
			Max. Vy	20	-29423.11	1941.75	4.99
			Max. Vx	2	-27319.76	6.37	1851.55
		Max. Torque	4			3.20	

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Pole	Max. Vert	36	70190.48	8744.72	11.91
	Max. H _x	21	34250.86	29394.23	56.81
	Max. H _z	2	45667.81	56.81	27292.21
	Max. M _x	2	1851.55	56.81	27292.21
	Max. M _z	8	1938.02	-29394.23	-56.81
	Max. Torsion	4	3.20	-14228.85	24592.83
	Min. Vert	5	34250.86	-14228.85	24592.83
	Min. H _x	8	45667.81	-29394.23	-56.81
	Min. H _z	14	45667.81	-56.81	-27292.21
	Min. M _x	14	-1850.59	-56.81	-27292.21
	Min. M _z	20	-1941.75	29394.23	56.81
	Min. Torsion	16	-3.20	14228.85	-24592.83

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	38056.51	-0.00	0.00	-0.40	1.52	0.00
1.2 Dead+1.6 Wind 0 deg - No Ice	45667.81	-56.81	-27292.21	-1851.55	6.37	-2.80
0.9 Dead+1.6 Wind 0 deg - No Ice	34250.86	-56.81	-27292.21	-1840.07	5.86	-2.80
1.2 Dead+1.6 Wind 30 deg - No Ice	45667.81	14228.85	-24592.83	-1632.97	-945.17	-3.20
0.9 Dead+1.6 Wind 30 deg - No Ice	34250.86	14228.85	-24592.83	-1622.93	-939.88	-3.19
1.2 Dead+1.6 Wind 60 deg - No Ice	45667.81	24751.21	-14194.35	-946.28	-1653.16	-2.60
0.9 Dead+1.6 Wind 60 deg - No Ice	34250.86	24751.21	-14194.35	-940.43	-1643.57	-2.60

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	<p style="text-align: center;">Project</p> <p style="text-align: center;">Town of Newport</p>	<p style="text-align: center;">Date</p> <p style="text-align: center;">16:14:06 10/18/18</p>
	<p style="text-align: center;">Client</p> <p style="text-align: center;">T-Mobile</p>	<p style="text-align: center;">Designed by</p>

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Ice						
1.2 Dead+1.6 Wind 90 deg - No Ice	45667.81	29394.23	56.81	4.03	-1938.02	-1.15
0.9 Dead+1.6 Wind 90 deg - No Ice	34250.86	29394.23	56.81	4.12	-1926.76	-1.15
1.2 Dead+1.6 Wind 120 deg - No Ice	45667.81	24808.02	14292.75	953.14	-1657.66	0.23
0.9 Dead+1.6 Wind 120 deg - No Ice	34250.86	24808.02	14292.75	947.46	-1648.04	0.24
1.2 Dead+1.6 Wind 150 deg - No Ice	45667.81	14283.12	24573.22	1631.20	-949.91	1.66
0.9 Dead+1.6 Wind 150 deg - No Ice	34250.86	14283.12	24573.22	1621.39	-944.58	1.66
1.2 Dead+1.6 Wind 180 deg - No Ice	45667.81	56.81	27292.21	1850.59	-2.65	2.80
0.9 Dead+1.6 Wind 180 deg - No Ice	34250.86	56.81	27292.21	1839.34	-3.10	2.80
1.2 Dead+1.6 Wind 210 deg - No Ice	45667.81	-14228.85	24592.83	1632.01	948.89	3.20
0.9 Dead+1.6 Wind 210 deg - No Ice	34250.86	-14228.85	24592.83	1622.21	942.65	3.19
1.2 Dead+1.6 Wind 240 deg - No Ice	45667.81	-24751.21	14194.35	945.33	1656.89	2.60
0.9 Dead+1.6 Wind 240 deg - No Ice	34250.86	-24751.21	14194.35	939.71	1646.34	2.60
1.2 Dead+1.6 Wind 270 deg - No Ice	45667.81	-29394.23	-56.81	-4.99	1941.75	1.15
0.9 Dead+1.6 Wind 270 deg - No Ice	34250.86	-29394.23	-56.81	-4.84	1929.54	1.15
1.2 Dead+1.6 Wind 300 deg - No Ice	45667.81	-24808.02	-14292.75	-954.10	1661.39	-0.23
0.9 Dead+1.6 Wind 300 deg - No Ice	34250.86	-24808.02	-14292.75	-948.19	1650.81	-0.24
1.2 Dead+1.6 Wind 330 deg - No Ice	45667.81	-14283.12	-24573.22	-1632.17	953.64	-1.66
0.9 Dead+1.6 Wind 330 deg - No Ice	34250.86	-14283.12	-24573.22	-1622.12	947.35	-1.66
1.2 Dead+1.0 Ice+1.0 Temp	70190.48	-0.01	0.01	0.60	4.23	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	70190.48	-11.91	-8154.34	-544.18	5.29	-1.37
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	70190.48	4031.67	-7010.51	-469.55	-267.33	-1.28
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	70190.48	7374.57	-4259.81	-281.06	-485.86	-0.65
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	70190.48	8744.72	11.91	1.61	-573.46	0.21
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	70190.48	7338.00	4252.45	282.19	-483.70	0.71
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	70190.48	4018.22	6963.40	467.59	-266.63	1.06
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	70190.48	11.91	8154.34	545.42	3.31	1.37
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	70190.48	-4031.67	7010.51	470.79	275.93	1.28
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	70190.48	-7374.57	4259.81	282.29	494.47	0.65
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	70190.48	-8744.72	-11.91	-0.37	582.06	-0.21
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	70190.48	-7338.00	-4252.45	-280.95	492.30	-0.71
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	70190.48	-4018.22	-6963.40	-466.36	275.23	-1.06

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Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	38056.51	-12.15	-5839.47	-395.02	2.51	-0.18
Dead+Wind 30 deg - Service	38056.51	3044.42	-5261.90	-348.44	-200.35	-0.45
Dead+Wind 60 deg - Service	38056.51	5295.79	-3037.04	-202.04	-351.29	-0.60
Dead+Wind 90 deg - Service	38056.51	6289.21	12.15	0.56	-412.04	-0.59
Dead+Wind 120 deg - Service	38056.51	5307.95	3058.09	202.91	-352.26	-0.42
Dead+Wind 150 deg - Service	38056.51	3056.03	5257.71	347.46	-201.36	-0.14
Dead+Wind 180 deg - Service	38056.51	12.15	5839.47	394.22	0.59	0.18
Dead+Wind 210 deg - Service	38056.51	-3044.42	5261.90	347.64	203.45	0.45
Dead+Wind 240 deg - Service	38056.51	-5295.79	3037.04	201.24	354.39	0.60
Dead+Wind 270 deg - Service	38056.51	-6289.21	-12.15	-1.36	415.14	0.59
Dead+Wind 300 deg - Service	38056.51	-5307.95	-3058.09	-203.71	355.35	0.42
Dead+Wind 330 deg - Service	38056.51	-3056.03	-5257.71	-348.27	204.46	0.14

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	0.00	-38056.51	0.00	0.00	38056.51	-0.00	0.000%
2	-56.81	-45667.81	-27292.21	56.81	45667.81	27292.21	0.000%
3	-56.81	-34250.86	-27292.21	56.81	34250.86	27292.21	0.000%
4	14228.85	-45667.81	-24592.83	-14228.85	45667.81	24592.83	0.000%
5	14228.85	-34250.86	-24592.83	-14228.85	34250.86	24592.83	0.000%
6	24751.21	-45667.81	-14194.35	-24751.21	45667.81	14194.35	0.000%
7	24751.21	-34250.86	-14194.35	-24751.21	34250.86	14194.35	0.000%
8	29394.23	-45667.81	56.81	-29394.23	45667.81	-56.81	0.000%
9	29394.23	-34250.86	56.81	-29394.23	34250.86	-56.81	0.000%
10	24808.02	-45667.81	14292.75	-24808.02	45667.81	-14292.75	0.000%
11	24808.02	-34250.86	14292.75	-24808.02	34250.86	-14292.75	0.000%
12	14283.12	-45667.81	24573.22	-14283.12	45667.81	-24573.22	0.000%
13	14283.12	-34250.86	24573.22	-14283.12	34250.86	-24573.22	0.000%
14	56.81	-45667.81	27292.21	-56.81	45667.81	-27292.21	0.000%
15	56.81	-34250.86	27292.21	-56.81	34250.86	-27292.21	0.000%
16	-14228.85	-45667.81	24592.83	14228.85	45667.81	-24592.83	0.000%
17	-14228.85	-34250.86	24592.83	14228.85	34250.86	-24592.83	0.000%
18	-24751.21	-45667.81	14194.35	24751.21	45667.81	-14194.35	0.000%
19	-24751.21	-34250.86	14194.35	24751.21	34250.86	-14194.35	0.000%
20	-29394.23	-45667.81	-56.81	29394.23	45667.81	56.81	0.000%
21	-29394.23	-34250.86	-56.81	29394.23	34250.86	56.81	0.000%
22	-24808.02	-45667.81	-14292.75	24808.02	45667.81	14292.75	0.000%
23	-24808.02	-34250.86	-14292.75	24808.02	34250.86	14292.75	0.000%
24	-14283.12	-45667.81	-24573.22	14283.12	45667.81	24573.22	0.000%
25	-14283.12	-34250.86	-24573.22	14283.12	34250.86	24573.22	0.000%
26	0.00	-70190.48	0.00	0.01	70190.48	-0.01	0.000%
27	-11.91	-70190.48	-8154.34	11.91	70190.48	8154.34	0.000%
28	4031.67	-70190.48	-7010.51	-4031.67	70190.48	7010.51	0.000%
29	7374.57	-70190.48	-4259.81	-7374.57	70190.48	4259.81	0.000%
30	8744.72	-70190.48	11.91	-8744.72	70190.48	-11.91	0.000%
31	7338.00	-70190.48	4252.45	-7338.00	70190.48	-4252.45	0.000%
32	4018.22	-70190.48	6963.40	-4018.22	70190.48	-6963.40	0.000%
33	11.91	-70190.48	8154.34	-11.91	70190.48	-8154.34	0.000%
34	-4031.67	-70190.48	7010.51	4031.67	70190.48	-7010.51	0.000%
35	-7374.57	-70190.48	4259.81	7374.57	70190.48	-4259.81	0.000%
36	-8744.72	-70190.48	-11.91	8744.72	70190.48	11.91	0.000%
37	-7338.00	-70190.48	-4252.45	7338.00	70190.48	4252.45	0.000%
38	-4018.22	-70190.48	-6963.40	4018.22	70190.48	6963.40	0.000%
39	-12.15	-38056.51	-5839.47	12.15	38056.51	5839.47	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
40	3044.42	-38056.51	-5261.90	-3044.42	38056.51	5261.90	0.000%
41	5295.79	-38056.51	-3037.04	-5295.79	38056.51	3037.04	0.000%
42	6289.21	-38056.51	12.15	-6289.21	38056.51	-12.15	0.000%
43	5307.95	-38056.51	3058.09	-5307.95	38056.51	-3058.09	0.000%
44	3056.03	-38056.51	5257.71	-3056.03	38056.51	-5257.71	0.000%
45	12.15	-38056.51	5839.47	-12.15	38056.51	-5839.47	0.000%
46	-3044.42	-38056.51	5261.90	3044.42	38056.51	-5261.90	0.000%
47	-5295.79	-38056.51	3037.04	5295.79	38056.51	-3037.04	0.000%
48	-6289.21	-38056.51	-12.15	6289.21	38056.51	12.15	0.000%
49	-5307.95	-38056.51	-3058.09	5307.95	38056.51	3058.09	0.000%
50	-3056.03	-38056.51	-5257.71	3056.03	38056.51	5257.71	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001
2	Yes	5	0.00000001	0.00002931
3	Yes	5	0.00000001	0.00001384
4	Yes	6	0.00000001	0.00000446
5	Yes	5	0.00000001	0.00006074
6	Yes	6	0.00000001	0.00000530
7	Yes	5	0.00000001	0.00007229
8	Yes	5	0.00000001	0.00000645
9	Yes	5	0.00000001	0.00000290
10	Yes	6	0.00000001	0.00000517
11	Yes	5	0.00000001	0.00007037
12	Yes	6	0.00000001	0.00000458
13	Yes	5	0.00000001	0.00006245
14	Yes	5	0.00000001	0.00002752
15	Yes	5	0.00000001	0.00001300
16	Yes	6	0.00000001	0.00000546
17	Yes	5	0.00000001	0.00007447
18	Yes	6	0.00000001	0.00000464
19	Yes	5	0.00000001	0.00006302
20	Yes	5	0.00000001	0.00000753
21	Yes	5	0.00000001	0.00000342
22	Yes	6	0.00000001	0.00000484
23	Yes	5	0.00000001	0.00006582
24	Yes	6	0.00000001	0.00000534
25	Yes	5	0.00000001	0.00007275
26	Yes	4	0.00000001	0.00002160
27	Yes	6	0.00000001	0.00001466
28	Yes	6	0.00000001	0.00001536
29	Yes	6	0.00000001	0.00001581
30	Yes	6	0.00000001	0.00001505
31	Yes	6	0.00000001	0.00001600
32	Yes	6	0.00000001	0.00001550
33	Yes	6	0.00000001	0.00001486
34	Yes	6	0.00000001	0.00001601
35	Yes	6	0.00000001	0.00001638
36	Yes	6	0.00000001	0.00001553
37	Yes	6	0.00000001	0.00001621
38	Yes	6	0.00000001	0.00001578
39	Yes	4	0.00000001	0.00003132
40	Yes	4	0.00000001	0.00005668

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41	Yes	4	0.00000001	0.00007971
42	Yes	4	0.00000001	0.00002959
43	Yes	4	0.00000001	0.00006247
44	Yes	4	0.00000001	0.00005942
45	Yes	4	0.00000001	0.00003093
46	Yes	4	0.00000001	0.00008084
47	Yes	4	0.00000001	0.00005889
48	Yes	4	0.00000001	0.00003040
49	Yes	4	0.00000001	0.00006825
50	Yes	4	0.00000001	0.00006888

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	102.7 - 97.7	9.766	48	0.8879	0.0052
L2	97.7 - 92.7	8.836	48	0.8871	0.0052
L3	92.7 - 89.78	7.909	48	0.8828	0.0052
L4	89.78 - 84.78	7.371	48	0.8777	0.0052
L5	84.78 - 79.78	6.466	48	0.8436	0.0037
L6	79.78 - 74.78	5.613	48	0.7816	0.0027
L7	74.78 - 72.5	4.839	48	0.6922	0.0022
L8	72.5 - 67.25	4.520	48	0.6452	0.0020
L9	67.25 - 62.25	3.838	48	0.5936	0.0016
L10	62.25 - 61.75	3.246	48	0.5373	0.0013
L11	61.75 - 56.5	3.190	48	0.5317	0.0013
L12	56.5 - 51.5	2.634	48	0.4793	0.0011
L13	51.5 - 44.98	2.159	48	0.4270	0.0009
L14	48.24 - 43.24	1.879	48	0.3928	0.0008
L15	43.24 - 38.24	1.484	48	0.3570	0.0007
L16	38.24 - 33.24	1.137	48	0.3053	0.0007
L17	33.24 - 31.96	0.845	48	0.2536	0.0006
L18	31.96 - 26.96	0.778	48	0.2410	0.0006
L19	26.96 - 21.96	0.550	48	0.1962	0.0005
L20	21.96 - 16.96	0.368	48	0.1514	0.0003
L21	16.96 - 11.96	0.232	48	0.1076	0.0002
L22	11.96 - 6.96	0.123	48	0.1002	0.0002
L23	6.96 - 1.96	0.041	48	0.0573	0.0001
L24	1.96 - 0	0.003	48	0.0154	0.0000

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
101.00	5' Sector Frame T-arm	48	9.449	0.8879	0.0052	119122
90.00	7770	48	7.411	0.8784	0.0052	16500
84.94	RRUS 32	48	6.494	0.8451	0.0037	5998
82.00	MGD3-900TX	48	5.984	0.8122	0.0030	4478
79.88	RRUS 32	48	5.628	0.7830	0.0027	3795
75.00	(2) RRH 1900 MHz	48	4.871	0.6968	0.0023	3201
74.81	RRUS 32	48	4.844	0.6929	0.0022	3224
74.00	(2) RRH 1900 MHz	48	4.728	0.6753	0.0021	3376
73.00	(2) RRH 1900 MHz	48	4.588	0.6544	0.0020	3668
72.00	2' dish	48	4.452	0.6372	0.0019	4044

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<i>Elevation</i>	<i>Appurtenance</i>	<i>Gov. Load Comb.</i>	<i>Deflection in</i>	<i>Tilt °</i>	<i>Twist °</i>	<i>Radius of Curvature ft</i>
69.77	(2) RRH 1900 MHz	48	4.157	0.6129	0.0017	4958
69.75	RRUS 32	48	4.155	0.6127	0.0017	4965
64.69	RRUS 32	48	3.527	0.5665	0.0014	5334
64.54	(2) RRH 1900 MHz	48	3.510	0.5648	0.0014	5325
59.63	RRUS 32	48	2.958	0.5095	0.0012	5577
59.31	(2) RRH 1900 MHz	48	2.924	0.5064	0.0012	5602
54.56	RRUS 32	48	2.443	0.4599	0.0010	5451
54.08	(2) RRH 1900 MHz	48	2.397	0.4548	0.0010	5435
49.50	RRUS 32	48	1.985	0.4050	0.0009	6535
48.85	(2) RRH 1900 MHz	48	1.930	0.3984	0.0008	6811
44.44	RRUS 32	48	1.574	0.3660	0.0008	6479
43.62	(2) RRH 1900 MHz	48	1.512	0.3600	0.0008	6208
39.38	RRUS 32	48	1.211	0.3179	0.0007	5568
38.38	(2) RRH 1900 MHz	48	1.146	0.3068	0.0007	5538
34.31	RRUS 32	48	0.903	0.2643	0.0006	5700
33.15	(2) RRH 1900 MHz	48	0.840	0.2527	0.0006	5835
29.25	RRUS 32	48	0.649	0.2160	0.0005	6356
28.00	14' T Arm round	48	0.593	0.2051	0.0005	6420
27.92	(2) RRH 1900 MHz	48	0.590	0.2044	0.0005	6420
24.19	RRUS 32	48	0.443	0.1724	0.0004	6192
22.69	(2) RRH 1900 MHz	48	0.391	0.1586	0.0004	6288
19.13	RRUS 32	48	0.286	0.1226	0.0003	8446
17.46	(2) RRH 1900 MHz	48	0.244	0.1100	0.0002	10544
14.06	RRUS 32	48	0.167	0.1037	0.0002	13071
12.23	(2) RRH 1900 MHz	48	0.129	0.1011	0.0002	11685
9.00	RRUS 32	48	0.070	0.0779	0.0002	8011
7.00	(2) RRH 1900 MHz	48	0.042	0.0577	0.0001	6777

Maximum Tower Deflections - Design Wind

<i>Section No.</i>	<i>Elevation ft</i>	<i>Horz. Deflection in</i>	<i>Gov. Load Comb.</i>	<i>Tilt °</i>	<i>Twist °</i>
L1	102.7 - 97.7	45.606	20	4.1393	0.0303
L2	97.7 - 92.7	41.276	20	4.1358	0.0303
L3	92.7 - 89.78	36.958	20	4.1152	0.0303
L4	89.78 - 84.78	34.450	20	4.0920	0.0299
L5	84.78 - 79.78	30.234	20	3.9385	0.0228
L6	79.78 - 74.78	26.251	20	3.6523	0.0175
L7	74.78 - 72.5	22.637	20	3.2358	0.0132
L8	72.5 - 67.25	21.144	20	3.0172	0.0114
L9	67.25 - 62.25	17.957	20	2.7768	0.0094
L10	62.25 - 61.75	15.187	20	2.5143	0.0077
L11	61.75 - 56.5	14.925	20	2.4877	0.0076
L12	56.5 - 51.5	12.324	20	2.2430	0.0064
L13	51.5 - 44.98	10.104	20	1.9984	0.0054
L14	48.24 - 43.24	8.795	20	1.8384	0.0048
L15	43.24 - 38.24	6.943	20	1.6710	0.0043
L16	38.24 - 33.24	5.320	20	1.4286	0.0036
L17	33.24 - 31.96	3.952	20	1.1866	0.0030
L18	31.96 - 26.96	3.642	20	1.1277	0.0029
L19	26.96 - 21.96	2.571	20	0.9180	0.0024
L20	21.96 - 16.96	1.720	20	0.7084	0.0017
L21	16.96 - 11.96	1.086	20	0.5033	0.0012
L22	11.96 - 6.96	0.578	20	0.4686	0.0011
L23	6.96 - 1.96	0.192	20	0.2683	0.0006

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L24	1.96 - 0	0.015	20	0.0721	0.0002

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
101.00	5' Sector Frame T-arm	20	44.134	4.1394	0.0303	25672
90.00	7770	20	34.638	4.0951	0.0300	3733
84.94	RRUS 32	20	30.364	3.9455	0.0231	1323
82.00	MGD3-900TX	20	27.982	3.7944	0.0195	977
79.88	RRUS 32	20	26.324	3.6588	0.0176	824
75.00	(2) RRH 1900 MHz	20	22.786	3.2575	0.0134	692
74.81	RRUS 32	20	22.659	3.2390	0.0132	697
74.00	(2) RRH 1900 MHz	20	22.116	3.1571	0.0125	729
73.00	(2) RRH 1900 MHz	20	21.465	3.0601	0.0118	792
72.00	2' dish	20	20.827	2.9799	0.0113	873
69.77	(2) RRH 1900 MHz	20	19.449	2.8668	0.0103	1070
69.75	RRUS 32	20	19.437	2.8661	0.0103	1071
64.69	RRUS 32	20	16.504	2.6505	0.0086	1147
64.54	(2) RRH 1900 MHz	20	16.422	2.6422	0.0085	1145
59.63	RRUS 32	20	13.840	2.3841	0.0071	1197
59.31	(2) RRH 1900 MHz	20	13.682	2.3695	0.0070	1203
54.56	RRUS 32	20	11.433	2.1521	0.0060	1169
54.08	(2) RRH 1900 MHz	20	11.216	2.1285	0.0059	1165
49.50	RRUS 32	20	9.290	1.8955	0.0050	1400
48.85	(2) RRH 1900 MHz	20	9.032	1.8646	0.0049	1459
44.44	RRUS 32	20	7.367	1.7128	0.0044	1387
43.62	(2) RRH 1900 MHz	20	7.074	1.6849	0.0043	1329
39.38	RRUS 32	20	5.667	1.4877	0.0038	1191
38.38	(2) RRH 1900 MHz	20	5.364	1.4361	0.0036	1185
34.31	RRUS 32	20	4.224	1.2367	0.0031	1219
33.15	(2) RRH 1900 MHz	20	3.931	1.1826	0.0030	1248
29.25	RRUS 32	20	3.034	1.0107	0.0026	1359
28.00	14' T Arm round	20	2.776	0.9596	0.0025	1372
27.92	(2) RRH 1900 MHz	20	2.760	0.9565	0.0025	1372
24.19	RRUS 32	20	2.071	0.8068	0.0020	1323
22.69	(2) RRH 1900 MHz	20	1.830	0.7423	0.0018	1344
19.13	RRUS 32	20	1.340	0.5736	0.0013	1805
17.46	(2) RRH 1900 MHz	20	1.143	0.5148	0.0012	2253
14.06	RRUS 32	20	0.779	0.4853	0.0011	2794
12.23	(2) RRH 1900 MHz	20	0.603	0.4732	0.0011	2497
9.00	RRUS 32	20	0.329	0.3643	0.0008	1712
7.00	(2) RRH 1900 MHz	20	0.195	0.2701	0.0006	1449

Compression Checks

Pole Design Data

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
L1	102.7 - 97.7 (1)	TP13x13x0.25	5.00	0.00	0.0	10.0138	-369.51	315436.00	0.001
L2	97.7 - 92.7 (2)	TP13x13x0.25	5.00	0.00	0.0	10.0138	-589.75	315436.00	0.002
L3	92.7 - 89.78 (3)	TP13x13x0.25	2.92	0.00	0.0	10.0138	-5923.15	315436.00	0.019
L4	89.78 - 84.78 (4)	TP14.5393x13x0.25	5.00	0.00	0.0	11.3386	-6236.21	842398.00	0.007
L5	84.78 - 79.78 (5)	TP16.0787x14.5393x0.25	5.00	0.00	0.0	12.5601	-10024.70	933151.00	0.011
L6	79.78 - 74.78 (6)	TP17.618x16.0787x0.25	5.00	0.00	0.0	13.7815	-10686.80	1023900.00	0.010
L7	74.78 - 72.5 (7)	TP18.32x17.618x0.25	2.28	0.00	0.0	14.3385	-11279.30	1065280.00	0.011
L8	72.5 - 67.25 (8)	TP19.9363x18.32x0.6125	5.25	0.00	0.0	37.5669	-14119.90	2791030.00	0.005
L9	67.25 - 62.25 (9)	TP21.4756x19.9363x0.575	5.00	0.00	0.0	38.1446	-15130.10	2833960.00	0.005
L10	62.25 - 61.75 (10)	TP21.6295x21.4756x0.575	0.50	0.00	0.0	38.4255	-15239.40	2854820.00	0.005
L11	61.75 - 56.5 (11)	TP23.2459x21.6295x0.675	5.25	0.00	0.0	48.3570	-16508.90	3592690.00	0.005
L12	56.5 - 51.5 (12)	TP24.7852x23.2459x0.6375	5.00	0.00	0.0	48.8611	-17745.80	3630130.00	0.005
L13	51.5 - 44.98 (13)	TP26.7925x24.7852x0.625	6.52	0.00	0.0	49.9188	-18576.70	3708720.00	0.005
L14	44.98 - 43.24 (14)	TP26.6475x24.5389x0.6625	5.00	0.00	0.0	53.0976	-20131.90	3944880.00	0.005
L15	43.24 - 38.24 (15)	TP28.1725x26.6475x0.65	5.00	0.00	0.0	56.7817	-22001.70	4218590.00	0.005
L16	38.24 - 33.24 (16)	TP29.6974x28.1725x0.625	5.00	0.00	0.0	57.6724	-23441.80	4284770.00	0.005
L17	33.24 - 31.96 (17)	TP30.0878x29.6974x0.625	1.28	0.00	0.0	58.7415	-23819.80	4364200.00	0.005
L18	31.96 - 26.96 (18)	TP31.6128x30.0878x0.6875	5.00	0.00	0.0	67.8231	-26233.20	5038910.00	0.005
L19	26.96 - 21.96 (19)	TP33.1377x31.6128x0.6625	5.00	0.00	0.0	68.6323	-27913.90	5099040.00	0.005
L20	21.96 - 16.96 (20)	TP34.6627x33.1377x0.65	5.00	0.00	0.0	70.5253	-29582.00	5239680.00	0.006
L21	16.96 - 11.96 (21)	TP36.1876x34.6627x0.625	5.00	0.00	0.0	566.478	-29593.50	42086500.00	0.001
L22	11.96 - 6.96 (22)	TP37.7126x36.1876x0.6125	5.00	0.00	0.0	71.8930	-42962.30	5341290.00	0.008
L23	6.96 - 1.96 (23)	TP39.2375x37.7126x0.6	5.00	0.00	0.0	71.0335	-43301.90	5277440.00	0.008
L24	1.96 - 0 (24)	TP40x39.2375x0.6	1.96	0.00	0.0	73.9522	-45005.50	5494280.00	0.008

Pole Bending Design Data

Section No.	Elevation ft	Size	M _{ux} kip-ft	φM _{ux} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M _{uy} kip-ft	φM _{uy} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
L1	102.7 - 97.7 (1)	TP13x13x0.25	1.53	106.69	0.014	0.00	106.69	0.000
L2	97.7 - 92.7 (2)	TP13x13x0.25	4.51	106.69	0.042	0.00	106.69	0.000
L3	92.7 - 89.78 (3)	TP13x13x0.25	8.63	106.69	0.081	0.00	106.69	0.000
L4	89.78 - 84.78 (4)	TP14.5393x13x0.25	46.97	245.18	0.192	0.00	245.18	0.000
L5	84.78 - 79.78 (5)	TP16.0787x14.5393x0.25	99.98	301.36	0.332	0.00	301.36	0.000
L6	79.78 - 74.78 (6)	TP17.618x16.0787x0.25	171.24	363.32	0.471	0.00	363.32	0.000
L7	74.78 - 72.5 (7)	TP18.32x17.618x0.25	205.38	393.50	0.522	0.00	393.50	0.000

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Section No.	Elevation ft	Size	M_{ux} kip-ft	ϕM_{rx} kip-ft	Ratio $\frac{M_{ux}}{\phi M_{rx}}$	M_{uy} kip-ft	ϕM_{ry} kip-ft	Ratio $\frac{M_{uy}}{\phi M_{ry}}$
L8	72.5 - 67.25 (8)	TP19.9363x18.32x0.6125	300.55	1083.43	0.277	0.00	1083.43	0.000
L9	67.25 - 62.25 (9)	TP21.4756x19.9363x0.575	396.08	1194.70	0.332	0.00	1194.70	0.000
L10	62.25 - 61.75 (10)	TP21.6295x21.4756x0.575	405.84	1212.59	0.335	0.00	1212.59	0.000
L11	61.75 - 56.5 (11)	TP23.2459x21.6295x0.675	510.60	1631.78	0.313	0.00	1631.78	0.000
L12	56.5 - 51.5 (12)	TP24.7852x23.2459x0.6375	614.33	1770.00	0.347	0.00	1770.00	0.000
L13	51.5 - 44.98 (13)	TP26.7925x24.7852x0.625	684.07	1887.29	0.362	0.00	1887.29	0.000
L14	44.98 - 43.24 (14)	TP26.6475x24.5389x0.6625	755.55	2011.69	0.376	0.00	2011.69	0.000
L15	43.24 - 38.24 (15)	TP28.1725x26.6475x0.65	908.89	2350.78	0.387	0.00	2350.78	0.000
L16	38.24 - 33.24 (16)	TP29.6974x28.1725x0.625	1027.22	2527.34	0.406	0.00	2527.34	0.000
L17	33.24 - 31.96 (17)	TP30.0878x29.6974x0.625	1058.15	2599.11	0.407	0.00	2599.11	0.000
L18	31.96 - 26.96 (18)	TP31.6128x30.0878x0.6875	1188.88	3146.77	0.378	0.00	3146.77	0.000
L19	26.96 - 21.96 (19)	TP33.1377x31.6128x0.6625	1321.10	3349.90	0.394	0.00	3349.90	0.000
L20	21.96 - 16.96 (20)	TP34.6627x33.1377x0.65	1457.14	3609.83	0.404	0.00	3609.83	0.000
L21	16.96 - 11.96 (21)	TP36.1876x34.6627x0.625	1457.14	20233.42	0.072	0.00	20233.42	0.000
L22	11.96 - 6.96 (22)	TP37.7126x36.1876x0.6125	1710.59	3990.52	0.429	0.00	3990.52	0.000
L23	6.96 - 1.96 (23)	TP39.2375x37.7126x0.6	1739.30	3978.71	0.437	0.00	3978.71	0.000
L24	1.96 - 0 (24)	TP40x39.2375x0.6	1884.28	4315.09	0.437	0.00	4315.09	0.000

Pole Shear Design Data

Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L1	102.7 - 97.7 (1)	TP13x13x0.25	505.77	157718.00	0.003	0.00	164.42	0.000
L2	97.7 - 92.7 (2)	TP13x13x0.25	685.97	157718.00	0.004	0.00	164.42	0.000
L3	92.7 - 89.78 (3)	TP13x13x0.25	7453.11	157718.00	0.047	0.43	164.42	0.003
L4	89.78 - 84.78 (4)	TP14.5393x13x0.25	7885.42	421199.00	0.019	0.45	490.96	0.001
L5	84.78 - 79.78 (5)	TP16.0787x14.5393x0.25	13942.80	466575.00	0.030	0.48	603.46	0.001
L6	79.78 - 74.78 (6)	TP17.618x16.0787x0.25	14684.60	511949.00	0.029	0.66	727.53	0.001
L7	74.78 - 72.5 (7)	TP18.32x17.618x0.25	15386.00	532641.00	0.029	0.48	787.97	0.001
L8	72.5 - 67.25 (8)	TP19.9363x18.32x0.6125	18740.10	1395520.00	0.013	0.61	2169.50	0.000
L9	67.25 - 62.25 (9)	TP21.4756x19.9363x0.575	19477.20	1416980.00	0.014	0.48	2392.32	0.000
L10	62.25 - 61.75 (10)	TP21.6295x21.4756x0.575	19548.10	1427410.00	0.014	0.45	2428.15	0.000
L11	61.75 - 56.5 (11)	TP23.2459x21.6295x0.675	20358.80	1796340.00	0.011	0.35	3267.56	0.000
L12	56.5 - 51.5 (12)	TP24.7852x23.2459x0.6375	21136.40	1815070.00	0.012	0.24	3544.33	0.000
L13	51.5 - 44.98 (13)	TP26.7925x24.7852x0.625	21642.50	1854360.00	0.012	0.17	3779.19	0.000

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Section No.	Elevation ft	Size	Actual V_u lb	ϕV_n lb	Ratio $\frac{V_u}{\phi V_n}$	Actual T_u kip-ft	ϕT_n kip-ft	Ratio $\frac{T_u}{\phi T_n}$
L14	44.98 - 43.24 (14)	TP26.6475x24.5389x0.6625	22502.00	2029760.00	0.011	0.06	4028.30	0.000
L15	43.24 - 38.24 (15)	TP28.1725x26.6475x0.65	23276.00	2109300.00	0.011	0.10	4707.29	0.000
L16	38.24 - 33.24 (16)	TP29.6974x28.1725x0.625	24055.60	2142380.00	0.011	0.22	5060.86	0.000
L17	33.24 - 31.96 (17)	TP30.0878x29.6974x0.625	24263.40	2182100.00	0.011	0.25	5239.68	0.000
L18	31.96 - 26.96 (18)	TP31.6128x30.0878x0.6875	26041.50	2519460.00	0.010	1.75	6343.72	0.000
L19	26.96 - 21.96 (19)	TP33.1377x31.6128x0.6625	26843.10	2549520.00	0.011	1.59	6753.23	0.000
L20	21.96 - 16.96 (20)	TP34.6627x33.1377x0.65	27567.70	2619840.00	0.011	1.47	7277.25	0.000
L21	16.96 - 11.96 (21)	TP36.1876x34.6627x0.625	27696.60	21269100.00	0.001	1.45	40789.50	0.000
L22	11.96 - 6.96 (22)	TP37.7126x36.1876x0.6125	28750.00	2692780.00	0.011	1.28	8044.68	0.000
L23	6.96 - 1.96 (23)	TP39.2375x37.7126x0.6	28842.80	2660400.00	0.011	1.27	8020.87	0.000
L24	1.96 - 0 (24)	TP40x39.2375x0.6	29423.20	2801350.00	0.011	1.19	8699.00	0.000

Pole Interaction Design Data

Section No.	Elevation ft	Ratio P_u ϕP_n	Ratio M_{ux} ϕM_{nx}	Ratio M_{uy} ϕM_{ny}	Ratio V_u ϕV_n	Ratio T_u ϕT_n	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
L1	102.7 - 97.7 (1)	0.001	0.014	0.000	0.003	0.000	0.015	1.000	4.8.2 ✓
L2	97.7 - 92.7 (2)	0.002	0.042	0.000	0.004	0.000	0.044	1.000	4.8.2 ✓
L3	92.7 - 89.78 (3)	0.019	0.081	0.000	0.047	0.003	0.102	1.000	4.8.2 ✓
L4	89.78 - 84.78 (4)	0.007	0.192	0.000	0.019	0.001	0.199	1.000	4.8.2 ✓
L5	84.78 - 79.78 (5)	0.011	0.332	0.000	0.030	0.001	0.343	1.000	4.8.2 ✓
L6	79.78 - 74.78 (6)	0.010	0.471	0.000	0.029	0.001	0.483	1.000	4.8.2 ✓
L7	74.78 - 72.5 (7)	0.011	0.522	0.000	0.029	0.001	0.533	1.000	4.8.2 ✓
L8	72.5 - 67.25 (8)	0.005	0.277	0.000	0.013	0.000	0.283	1.000	4.8.2 ✓
L9	67.25 - 62.25 (9)	0.005	0.332	0.000	0.014	0.000	0.337	1.000	4.8.2 ✓
L10	62.25 - 61.75 (10)	0.005	0.335	0.000	0.014	0.000	0.340	1.000	4.8.2 ✓
L11	61.75 - 56.5 (11)	0.005	0.313	0.000	0.011	0.000	0.318	1.000	4.8.2 ✓
L12	56.5 - 51.5 (12)	0.005	0.347	0.000	0.012	0.000	0.352	1.000	4.8.2 ✓
L13	51.5 - 44.98	0.005	0.362	0.000	0.012	0.000	0.368	1.000	4.8.2 ✓

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	Project Town of Newport	Date 16:14:06 10/18/18
	Client T-Mobile	Designed by

Section No.	Elevation ft	Ratio P_u	Ratio M_{ux}	Ratio M_{uy}	Ratio V_u	Ratio T_u	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
		ϕP_n	ϕM_{nx}	ϕM_{ny}	ϕV_n	ϕT_n			
	(13)						✓		
L14	44.98 - 43.24 (14)	0.005	0.376	0.000	0.011	0.000	0.381	1.000	4.8.2 ✓
L15	43.24 - 38.24 (15)	0.005	0.387	0.000	0.011	0.000	0.392	1.000	4.8.2 ✓
L16	38.24 - 33.24 (16)	0.005	0.406	0.000	0.011	0.000	0.412	1.000	4.8.2 ✓
L17	33.24 - 31.96 (17)	0.005	0.407	0.000	0.011	0.000	0.413	1.000	4.8.2 ✓
L18	31.96 - 26.96 (18)	0.005	0.378	0.000	0.010	0.000	0.383	1.000	4.8.2 ✓
L19	26.96 - 21.96 (19)	0.005	0.394	0.000	0.011	0.000	0.400	1.000	4.8.2 ✓
L20	21.96 - 16.96 (20)	0.006	0.404	0.000	0.011	0.000	0.409	1.000	4.8.2 ✓
L21	16.96 - 11.96 (21)	0.001	0.072	0.000	0.001	0.000	0.073	1.000	4.8.2 ✓
L22	11.96 - 6.96 (22)	0.008	0.429	0.000	0.011	0.000	0.437	1.000	4.8.2 ✓
L23	6.96 - 1.96 (23)	0.008	0.437	0.000	0.011	0.000	0.445	1.000	4.8.2 ✓
L24	1.96 - 0 (24)	0.008	0.437	0.000	0.011	0.000	0.445	1.000	4.8.2 ✓

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail
L1	102.7 - 97.7	Pole	TP13x13x0.25	1	-369.51	315436.00	1.5	Pass
L2	97.7 - 92.7	Pole	TP13x13x0.25	2	-589.75	315436.00	4.4	Pass
L3	92.7 - 89.78	Pole	TP13x13x0.25	3	-5923.15	315436.00	10.2	Pass
L4	89.78 - 84.78	Pole	TP14.5393x13x0.25	4	-6236.21	842398.00	19.9	Pass
L5	84.78 - 79.78	Pole	TP16.0787x14.5393x0.25	5	-10024.70	933151.00	34.3	Pass
L6	79.78 - 74.78	Pole	TP17.618x16.0787x0.25	6	-10686.80	1023900.00	48.3	Pass
L7	74.78 - 72.5	Pole	TP18.32x17.618x0.25	7	-11279.30	1065280.00	53.3	Pass
L8	72.5 - 67.25	Pole	TP19.9363x18.32x0.6125	8	-14119.90	2791030.00	28.3	Pass
L9	67.25 - 62.25	Pole	TP21.4756x19.9363x0.575	9	-15130.10	2833960.00	33.7	Pass
L10	62.25 - 61.75	Pole	TP21.6295x21.4756x0.575	10	-15239.40	2854820.00	34.0	Pass
L11	61.75 - 56.5	Pole	TP23.2459x21.6295x0.675	11	-16508.90	3592690.00	31.8	Pass
L12	56.5 - 51.5	Pole	TP24.7852x23.2459x0.6375	12	-17745.80	3630130.00	35.2	Pass
L13	51.5 - 44.98	Pole	TP26.7925x24.7852x0.625	13	-18576.70	3708720.00	36.8	Pass
L14	44.98 - 43.24	Pole	TP26.6475x24.5389x0.6625	14	-20131.90	3944880.00	38.1	Pass
L15	43.24 - 38.24	Pole	TP28.1725x26.6475x0.65	15	-22001.70	4218590.00	39.2	Pass
L16	38.24 - 33.24	Pole	TP29.6974x28.1725x0.625	16	-23441.80	4284770.00	41.2	Pass
L17	33.24 - 31.96	Pole	TP30.0878x29.6974x0.625	17	-23819.80	4364200.00	41.3	Pass
L18	31.96 - 26.96	Pole	TP31.6128x30.0878x0.6875	18	-26233.20	5038910.00	38.3	Pass
L19	26.96 - 21.96	Pole	TP33.1377x31.6128x0.6625	19	-27913.90	5099040.00	40.0	Pass
L20	21.96 - 16.96	Pole	TP34.6627x33.1377x0.65	20	-29582.00	5239680.00	40.9	Pass
L21	16.96 - 11.96	Pole	TP36.1876x34.6627x0.625	21	-29593.50	42086500.00	7.3	Pass

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	Client	T-Mobile	Designed by	

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
L22	11.96 - 6.96	Pole	TP37.7126x36.1876x0.6125	22	-42962.30	5341290.00	43.7	Pass	
L23	6.96 - 1.96	Pole	TP39.2375x37.7126x0.6	23	-43301.90	5277440.00	44.5	Pass	
L24	1.96 - 0	Pole	TP40x39.2375x0.6	24	-45005.50	5494280.00	44.5	Pass	
							Summary		
							Pole (L7)	53.3	Pass
							RATING =	53.3	Pass

EXHIBIT 4



Radio Frequency Emissions Analysis Report

AT&T Existing Facility

Site ID: CT2112

FA#: 10071312

Stratford
623 Honeyspot Road
Stratford, CT 06615

January 29, 2019

Centerline Communications Project Number: 950006-169

Site Compliance Summary	
Compliance Status:	COMPLIANT
Site total MPE% of FCC general population allowable limit:	31.17 %



January 29, 2019

AT&T Mobility – New England
Attn: John Benedetto, RF Manager
550 Cochituate Road
Suite 550 – 13&14
Framingham, MA 06040

Emissions Analysis for Site: **CT2112 – Stratford**

Centerline Communications, LLC (“Centerline”) was directed to analyze the proposed AT&T facility located at **623 Honeyspot Road, Stratford, CT**, for the purpose of determining whether the emissions from the Proposed AT&T Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01 and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The number of $\mu\text{W}/\text{cm}^2$ calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

Population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The general population exposure limits for the 700 and 850 MHz Bands are approximately $467 \mu\text{W}/\text{cm}^2$ and $567 \mu\text{W}/\text{cm}^2$ respectively. The general population exposure limit for the 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) bands is $1000 \mu\text{W}/\text{cm}^2$. Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.



Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.



CALCULATIONS

Calculations were performed for the proposed AT&T Wireless antenna facility located at **623 Honeyspot Road, Stratford, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since AT&T is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

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. All power values expressed and analyzed are maximum power levels expected to be used on all radios.

All emissions values for additional carriers were taken from the Connecticut Siting Council (CSC) active MPE database. Values in this database are provided by the individual carriers themselves

For each sector the following channel counts, frequency bands and power levels were utilized as shown in *Table 1*:

Technology	Frequency Band	Channel Count	Transmit Power per Channel (W)
UMTS	850 MHz	2	30
UMTS	1900 MHz (PCS)	2	30
LTE	700 MHz	4	40
LTE	700 MHz (Band 14)	4	40
LTE	850 MHz	2	40
LTE	2100 MHz (AWS)	4	30
5G	850 MHz	2	25
LTE	2300 MHz (WCS)	4	30
LTE	1900 MHz (PCS)	4	40

Table 1: Channel Data Table



The following antennas listed in *Table 2* were used in the modeling for transmission in the 700 MHz, 850 MHz, 1900 MHz (PCS), 2100 MHz (AWS) and 2300 MHz (WCS) frequency bands. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.

Sector	Antenna Number	Antenna Make / Model	Antenna Centerline (ft)
A	1	Powerwave 7770	90
A	2	KMW AM-X-CD-16-65-00T-RET	90
A	3	Kathrein 800-10965	90
A	4	Quintel QS66512-2	90
B	1	Powerwave 7770	90
B	2	KMW AM-X-CD-16-65-00T-RET	90
B	3	Kathrein 800-10965	90
B	4	Quintel QS66512-2	90
C	1	Powerwave 7770	90
C	2	KMW AM-X-CD-16-65-00T-RET	90
C	3	Kathrein 800-10965	90
C	4	Quintel QS66512-2	90

Table 2: Antenna Data

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



RESULTS

Per the calculations completed for the proposed AT&T configurations *Table 3* shows resulting emissions power levels and percentages of the FCC's allowable general population limit.

Antenna ID	Antenna Make / Model	Frequency Bands	Antenna Gain (dBd)	Channel Count	Total TX Power (W)	ERP (W)	MPE %
Antenna A1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	1.41
Antenna A2	KMW AM-X-CD-16-65-00T-RET	700 MHz	13.35	2	80	1,730.17	1.89
Antenna A3	Kathrein 800-10965	700 MHz (Band 14) / 850 MHz / 2100 MHz (AWS)	12.65 / 13.45 / 15.95	10	330	9,072.24	6.60
Antenna A4	Quintel QS66512-2	700 MHz / 2300 MHz (WCS) / 1900 MHz (PCS)	10.85 / 14.85 / 13.85	10	360	8,521.43	4.91
Sector A Composite MPE%							14.81
Antenna B1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	1.41
Antenna B2	KMW AM-X-CD-16-65-00T-RET	700 MHz	13.35	2	80	1,730.17	1.89
Antenna B3	Kathrein 800-10965	700 MHz (Band 14) / 850 MHz / 2100 MHz (AWS)	12.65 / 13.45 / 15.95	10	330	9,072.24	6.60
Antenna B4	Quintel QS66512-2	700 MHz / 2300 MHz (WCS) / 1900 MHz (PCS)	10.85 / 14.85 / 13.85	10	360	8,521.43	4.91
Sector B Composite MPE%							14.81
Antenna C1	Powerwave 7770	850 MHz / 1900 MHz (PCS)	11.4 / 13.4	4	120	2,140.89	1.41
Antenna C2	KMW AM-X-CD-16-65-00T-RET	700 MHz	13.35	2	80	1,730.17	1.89
Antenna C3	Kathrein 800-10965	700 MHz (Band 14) / 850 MHz / 2100 MHz (AWS)	12.65 / 13.45 / 15.95	10	330	9,072.24	6.60
Antenna C4	Quintel QS66512-2	700 MHz / 2300 MHz (WCS) / 1900 MHz (PCS)	10.85 / 14.85 / 13.85	10	360	8,521.43	4.91
Sector C Composite MPE%							14.81

Table 3: AT&T Emissions Levels



The Following table (*table 4*) shows all additional carriers on site and their MPE% as recorded in the CSC active MPE database for this facility along with the newly calculated maximum AT&T MPE contributions per this report. FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. For this site, all three sectors have the same configuration yielding the same results on all three sectors. *Table 5* below shows a summary for each AT&T Sector as well as the composite MPE value for the site.

Site Composite MPE%	
Carrier	MPE%
AT&T – Max Per Sector Value	14.81 %
Verizon Wireless	7.25 %
Clearwire	0.43 %
Sprint	0.40 %
Nextel	2.11 %
MetroPCS	1.91 %
Com-tronics	4.26 %
Site Total MPE %:	31.17 %

Table 4: All Carrier MPE Contributions

AT&T Sector A Total:	14.81 %
AT&T Sector B Total:	14.81 %
AT&T Sector C Total:	14.81 %
Site Total:	31.17 %

Table 5: Site MPE Summary



FCC OET 65 specifies that for carriers utilizing directional antennas that the highest recorded sector value be used for composite site MPE values due to their greatly reduced emissions contributions in the directions of the adjacent sectors. *Table 6* below details a breakdown by frequency band and technology for the MPE power values for the maximum calculated AT&T sector(s). For this site, all three sectors have the same configuration yielding the same results on all three sectors.

AT&T _ Frequency Band / Technology Max Power Values (Per Sector)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density ($\mu\text{W}/\text{cm}^2$)	Frequency (MHz)	Allowable MPE ($\mu\text{W}/\text{cm}^2$)	Calculated % MPE
AT&T 850 MHz UMTS – Antenna 1	2	414.12	90	4.22	850 MHz	567	0.74%
AT&T 1900 MHz (PCS) UMTS – Antenna 1	2	656.33	90	6.69	1900 MHz (PCS)	1000	0.67%
AT&T 700 MHz LTE – Antenna 2	2	865.09	90	8.82	700 MHz	467	1.89%
AT&T 700 MHz (Band 14) LTE – Antenna 3	2	736.31	90	7.50	700 MHz	467	1.61%
AT&T 850 MHz LTE – Antenna 3	2	885.24	90	9.02	850 MHz	567	1.59%
AT&T 2100 MHz (AWS) LTE – Antenna 3	4	1,180.65	90	24.06	2100 MHz (AWS)	1000	2.41%
AT&T 850 MHz 5G – Antenna 3	2	553.27	90	5.64	850 MHz	567	0.99%
AT&T 700 MHz LTE – Antenna 4	2	486.47	90	4.96	700 MHz	467	1.06%
AT&T 2300 MHz (WCS) LTE – Antenna 4	4	916.48	90	18.68	2300 MHz (WCS)	1000	1.87%
AT&T 1900 MHz (PCS) LTE – Antenna 4	4	970.64	90	19.78	1900 MHz (PCS)	1000	1.98%
						Total:	14.81 %

Table 6: AT&T Maximum Sector MPE Power Values



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 AT&T 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:

AT&T Sector	Power Density Value (%)
Sector A:	14.81 %
Sector B:	14.81 %
Sector C:	14.81 %
AT&T Maximum Total (per sector):	14.81 %
Site Total:	31.17 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is **31.17 %** 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.

A handwritten signature in black ink, appearing to read 'Scott Heffernan', is written over a horizontal line.

Scott Heffernan

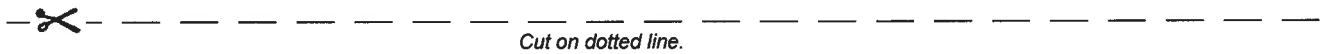
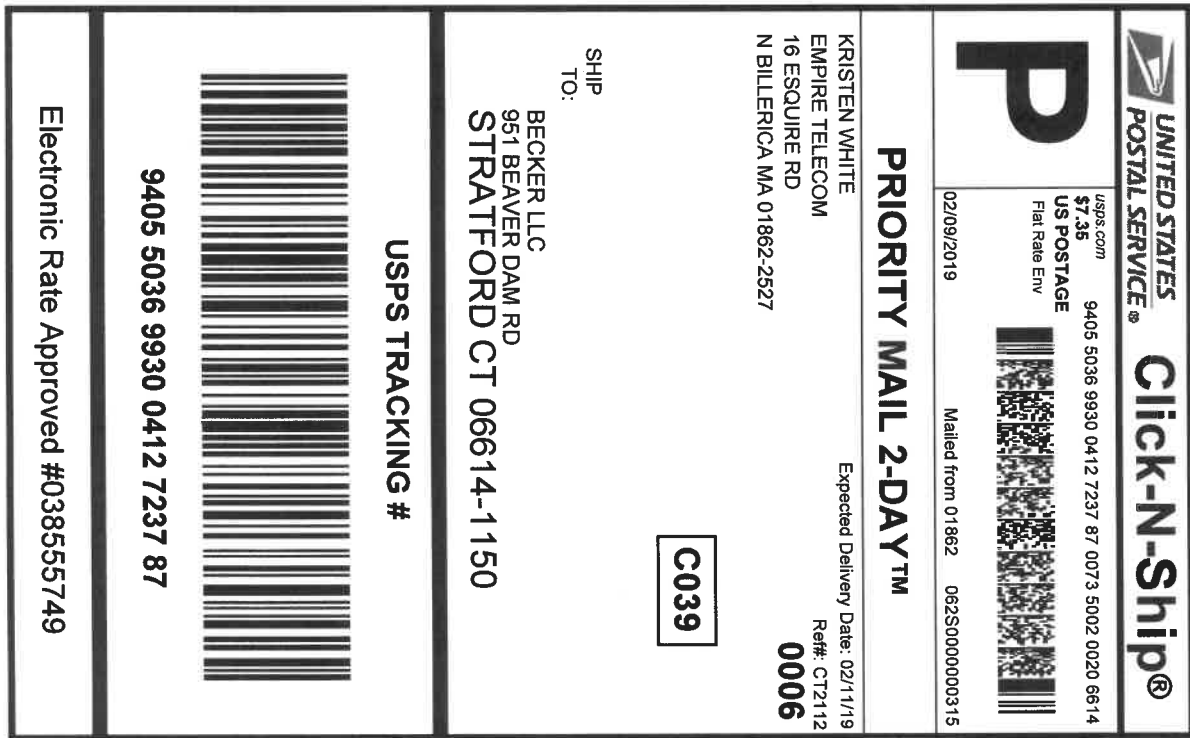
RF Engineering Director

Centerline Communications, LLC

95 Ryan Drive, Suite 1

Raynham, MA 02767

EXHIBIT 5



Cut on dotted line.

Instructions

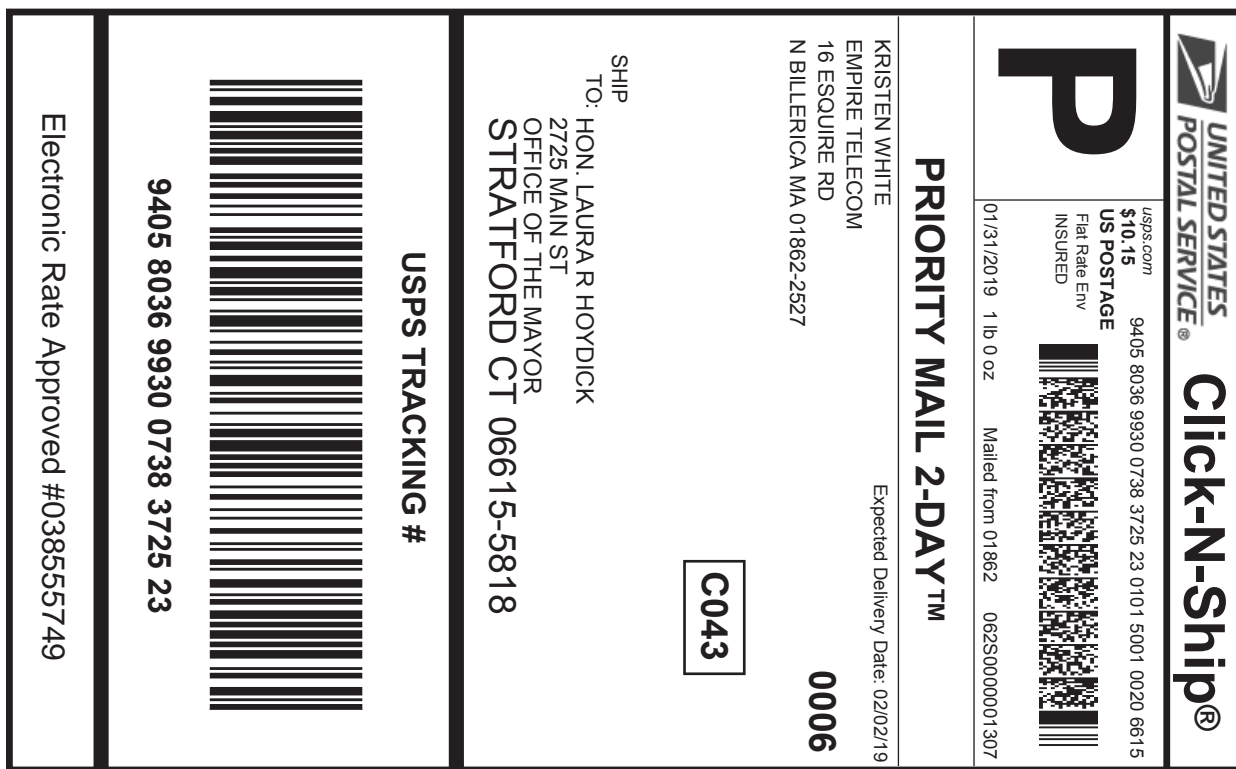
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2. Place your label so it does not wrap around the edge of the package.
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9405 5036 9930 0412 7237 87	
Trans. #:	456333391
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Ship Date:	02/09/2019
Expected Delivery Date:	02/11/2019
Priority Mail® Postage:	\$7.35
Total	\$7.35
From:	KRISTEN WHITE EMPIRE TELECOM 16 ESQUIRE RD N BILLERICA MA 01862-2527
	Ref#: CT2112
To:	BECKER LLC 951 BEAVER DAM RD STRATFORD CT 06614-1150
<small>* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.</small>	



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4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING # / Insurance Number:
9405 8036 9930 0738 3725 23

Trans. #:	455638101	Priority Mail® Postage:	\$7.35
Print Date:	01/31/2019	Insurance Fee	\$2.80
Ship Date:	01/31/2019	Total	\$10.15
Expected Delivery Date:	02/02/2019		
Insured Value:	\$51.00		


From: KRISTEN WHITE
 EMPIRE TELECOM
 16 ESQUIRE RD
 N BILLERICA MA 01862-2527

To: HON. LAURA R HOYDICK
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PRIORITY MAIL 2-DAY™

Expected Delivery Date: 02/02/19

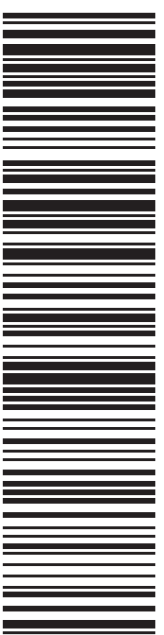
0006

SHIP TO: JOHN RUSATSKY
 2725 MAIN ST
 ZONING OFFICER
 STRATFORD CT 06615-5818

Carrier -- Leave if No Response

C043

USPS TRACKING #



9405 5036 9930 0404 3011 39

Electronic Rate Approved #038555749



Cut on dotted line.

Instructions

1. Each Click-N-Ship® label is unique. Labels are to be used as printed and used only once. DO NOT PHOTO COPY OR ALTER LABEL.
2. Place your label so it does not wrap around the edge of the package.
3. Adhere your label to the package. A self-adhesive label is recommended. If tape or glue is used, DO NOT TAPE OVER BARCODE. Be sure all edges are secure.
4. To mail your package with PC Postage®, you may schedule a Package Pickup online, hand to your letter carrier, take to a Post Office™, or drop in a USPS collection box.
5. Mail your package on the "Ship Date" you selected when creating this label.

Click-N-Ship® Label Record

USPS TRACKING # :
9405 5036 9930 0404 3011 39

Trans. #: 455638101	Priority Mail® Postage: \$7.35
Print Date: 01/31/2019	Total: \$7.35
Ship Date: 01/31/2019	
Expected Delivery Date: 02/02/2019	

From: KRISTEN WHITE
 EMPIRE TELECOM
 16 ESQUIRE RD
 N BILLERICA MA 01862-2527

To: JOHN RUSATSKY
 2725 MAIN ST
 ZONING OFFICER
 STRATFORD CT 06615-5818

* Retail Pricing Priority Mail rates apply. There is no fee for USPS Tracking® service on Priority Mail service with use of this electronic rate shipping label. Refunds for unused postage paid labels can be requested online 30 days from the print date.



Thank you for shipping with the United States Postal Service!
 Check the status of your shipment on the USPS Tracking® page at usps.com

First-Class Package International Service® is temporarily unavailable on Click-N-Ship®. Please select a different Service Type or visit a [Post Office™](#) location to complete your shipment.

Create Label	Preferences	Shipping History	Address Book	SCAN Form
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Account # 161958927

Label Details

Label Number:
[9405803699300738372523](#)

SCAN® Form: 9475703699300302500330

Terms
Acceptance Cutoff: 01/31/2019 4:30 PM
Acceptance Time: 02/11/2019 2:33 PM
Scheduled Date: 02/02/2019 11:59 PM
Delivery Status: [Delivered, Front Desk/Reception/Mail Room](#)
 2019-02-13 09:58:00.0

Label Actions
[USPS Tracking®](#)
[Ship Again](#)

Need help
[File an insurance claim](#)
[Request A Service Refund](#)

Return Address:
 KRISTEN WHITE
 EMPIRE TELECOM
 16 ESQUIRE RD
 N BILLERICA, MA 01862-2527
 ne_sa_deliverable@empiretelecomm.com

Delivery Address:
 HON. LAURA R HOYDICK
 2725 MAIN ST
 OFFICE OF THE MAYOR
 STRATFORD, CT 06615-5818

Package:
 Ship Date: 01/31/19
 Value: \$51.00
 Weight: 1 lbs 0 oz
 From: 01862

Service:
 Priority Mail® 2-Day
 Flat Rate Envelope
 USPS Tracking®
 Insurance

Transaction Number: 455638101

Transaction Type: Label

Payment Method: AMEX-1004

Payment Status: Account Charged

Postage Cost	\$7.35
USPS Tracking®	Free
Insurance	\$2.80
Label Total:	\$10.15
Order Total:	\$17.50

Timestamp	Message
01-31-2019 11:58:58	LABEL REPRINTED
01-31-2019 11:57:19	LABEL PRINTED
01-31-2019 11:57:03	Getting Payment
01-31-2019 11:56:48	Setting Payment

[Back to Shipping History](#)

Feedback

First-Class Package International Service® is temporarily unavailable on Click-N-Ship®. Please select a different Service Type or visit a [Post Office™](#) location to complete your shipment.

Create Label	Preferences	Shipping History	Address Book	SCAN Form
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Account # 161958927

Label Details

Label Number:
[9405503699300404301139](#)

SCAN® Form: 9475703699300302500330

Terms
Acceptance Cutoff: 01/31/2019 4:30 PM
Acceptance Time: 02/11/2019 2:33 PM
Scheduled Date: 02/02/2019 11:59 PM
Delivery Status: [Delivered, Front Desk/Reception/Mail Room](#)
 2019-02-13 09:58:00.0

Label Actions
[USPS Tracking®](#)
[Ship Again](#)

Need help
[File an insurance claim](#)
[Request A Service Refund](#)

Return Address:
 KRISTEN WHITE
 EMPIRE TELECOM
 16 ESQUIRE RD
 N BILLERICA, MA 01862-2527
 ne_sa_deliverable@empiretelecomm.com

Delivery Address:
 JOHN RUSATSKY
 2725 MAIN ST
 ZONING OFFICER
 STRATFORD, CT 06615-5818

Package:
 Ship Date: 01/31/19
 Value: \$50.00
 Weight: 1 lbs 0 oz
 From: 01862

Service:
 Priority Mail® 2-Day
 Flat Rate Envelope
 USPS Tracking®

Transaction Number: 455638101

Transaction Type: Label

Payment Method: AMEX-1004

Payment Status: Account Charged

Postage Cost \$7.35
 USPS Tracking® Free

Label Total: \$7.35

Order Total: \$17.50

Timestamp	Message
01-31-2019 11:58:58	LABEL REPRINTED
01-31-2019 11:57:20	LABEL PRINTED
01-31-2019 11:57:03	Getting Payment
01-31-2019 11:56:48	Setting Payment

[Back to Shipping History](#)

Feedback

First-Class Package International Service® is temporarily unavailable on Click-N-Ship®. Please select a different Service Type or visit a [Post Office™](#) location to complete your shipment.

Create Label	Preferences	Shipping History	Address Book	SCAN Form
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Account # 161958927

Label Details

Label Number:
[9405503699300412723787](#)

Terms
Acceptance Cutoff: 02/09/2019 12:00 PM
Acceptance Time: 02/11/2019 2:36 PM
Scheduled Date: 02/11/2019 11:59 PM
Delivery Status: Delivered, Front Door/Porch
 2019-02-13 11:29:00.0
Label Actions

[USPS Tracking®](#)
[Ship Again](#)

Need help
[File an insurance claim](#)
[Request A Service Refund](#)

Return Address:
 KRISTEN WHITE
 EMPIRE TELECOM
 16 ESQUIRE RD
 N BILLERICA, MA 01862-2527
 ne_sa_deliverable@empiretelecomm.com

Delivery Address:
 BECKER LLC
 951 BEAVER DAM RD
 STRATFORD, CT 06614-1150
 Ref#: CT2112

Package:
 Ship Date: 02/09/19
 Value: \$30.00
 From: 01862

Service:
 Priority Mail® 2-Day
 Flat Rate Envelope
 USPS Tracking®

Transaction Number: 456333391
Transaction Type: Label
Payment Method: AMEX-1004
Payment Status: Account Charged

Postage Cost \$7.35
 USPS Tracking® Free
Label Total: \$7.35
Order Total: \$7.35

Timestamp	Message
02-08-2019 17:16:44	LABEL REPRINTED
02-08-2019 17:16:34	LABEL REPRINTED
02-08-2019 17:15:49	LABEL REPRINTED
02-08-2019 17:15:08	LABEL PRINTED
02-08-2019 17:15:01	Getting Payment
02-08-2019 17:14:42	Setting Payment

[Back to Shipping History](#)

Feedback