

KENNETH C. BALDWIN

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Also admitted in Massachusetts
and New York

August 11, 2021

Via Electronic Mail

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

Re: **Notice of Exempt Modification – Facility Modification
33 (a/k/a 86) Boardman Road, New Milford, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains an existing wireless telecommunications facility at the above-referenced property address (the “Property”). The facility consists of antennas and remote radio heads attached to a tower and related equipment on the ground, near the base of the tower. The tower was approved by the Siting Council in July of 2004 (Docket No. 285). Cellco’s use of the tower was approved by the Siting Council in January of 2006 (EM-VER-017-020-096-068-060104). A copy of Siting Council’s Docket No. 285 Decision and Order and 2006 approval of the Cellco installation are included in Attachment 1.

Cellco now intends to modify its facility by removing nine (9) existing antennas and installing three (3) new Samsung MT6407-77A antennas; and six (6) MX06FRO660-03 antennas. Cellco will also remove nine (9) existing remote radio heads (“RRHs”) and install six (6) new RRHs all on Cellco’s existing antenna mounting system. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRHs specifications are included in Attachment 2.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to New Milford’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.
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Page 2

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

1. The proposed modifications will not result in an increase in the height of the existing tower. Cellco's replacement antennas will be installed on Cellco's existing antenna mounts.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas and RRHs will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative general power density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts with certain modifications can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

A copy of the parcel map and Property owner information is included in Attachment 5. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 6.

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

Melanie A. Bachman, Esq.
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Page 3

Sincerely,

A handwritten signature in black ink, appearing to read "Kenneth C. Baldwin". The signature is fluid and cursive, with a long horizontal stroke at the end.

Kenneth C. Baldwin

Enclosures

Copy to:

Pete Bass, New Milford Mayor

Lauran Regan, New Milford Town Planner/Zoning Enforcement Officer/Land Use
Supervisor

Quarry Stone and Gravel LLC, Property Owner

Karla Hanna

ATTACHMENT 1

DOCKET NO. 285 - Sprint Spectrum, L.P. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a wireless telecommunications facility at 33 Boardman Road, New Milford, Connecticut.	}	Connecticut
	}	Siting
	}	Council
		July 13, 2004

Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Sprint Spectrum, L.P. for the construction, maintenance and operation of a wireless telecommunications facility at 33 Boardman Road, New Milford, Connecticut.

The facility shall be constructed, operated, and maintained substantially as specified in the Council's record in this matter, and subject to the following conditions:

1. The tower shall be constructed as a monopole, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of Sprint Spectrum L.P., Nextel Communications, Inc., and other entities, both public and private, but such tower shall not exceed a height of 150 feet above ground level. The height at the top of the antennas shall not exceed a height of 153 feet above ground level.

2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of New Milford, and all parties and intervenors as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction. The D&M shall include:
 - a. a final site plan(s) of site development to include specifications for the tower, tower foundation, antennas, equipment building, access road, utility line, and landscaping; and

- b. construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. Prior to submission of the D&M plan to the Council, the Certificate Holder shall discuss the appropriateness and feasibility of stealth tower designs for this site with the Town. The Town and Certificate Holder shall agree upon the final tower design.

4. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case

modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

5. Upon the establishment of any new State or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.

6. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.

7. The Certificate Holder shall provide reasonable space on the tower for no compensation for any municipal antennas, provided such antennas are compatible with the structural integrity of the tower.

8. If the facility does not initially provide wireless services within one year of completion of construction or ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.

9. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antennas become obsolete and cease to function.

10. Unless otherwise approved by the Council, this Decision and Order shall be void if the facility authorized herein is not operational within one year of the effective date of this Decision and Order or within one year after all appeals to this Decision and Order have been resolved. Any request for extension of this

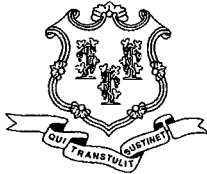
period shall be filed with the Council no later than sixty days prior to expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list. Any proposed modifications to this Decision and Order shall likewise be so served.

Pursuant to General Statutes § 16-50p, we hereby direct that a copy of the Findings of Fact, Opinion, and Decision and Order be served on each person listed below, and notice of issuance shall be published in the Hartford Courant, the New Milford Spectrum, and the New Milford Times.

By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors to this proceeding are:

<u>Applicant</u> Sprint Spectrum, L.P.	<u>Its Representative</u> Thomas J. Regan, Esquire Brown Rudnick Berlack Isreals LLP CityPlace I, 38 th Floor 185 Asylum Street Hartford, CT 06103-3402
<u>Intervenor</u> Nextel Communications, Inc.	<u>Its Representative</u> Julie Donaldson Kohler Hurwitz & Sagarin P.O. Box 112 Milford, CT 06460



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@po.state.ct.us

www.ct.gov/csc

January 26, 2006

Kenneth C. Baldwin, Esq.
Robinson & Cole LLP
280 Trumbull Avenue
Hartford, CT 06103-3597

RE: **EM-VER-017-020-096-068-060104** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify existing telecommunications facilities located at 371 Terryville Avenue, Bristol; 12 Nepaug Road, Burlington; 399 Chestnut Land Road, New Milford; 33 Boardman Road, New Milford; and 136 Bulls Bridge Road, Kent, Connecticut.

Dear Attorney Baldwin:

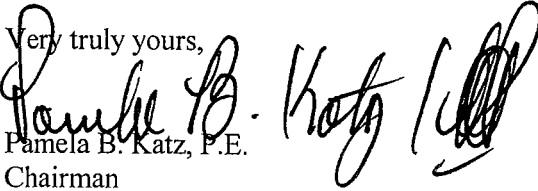
At a public meeting held on January 25, 2006, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated January 4, 2006, including the placement of all necessary equipment and shelters within the tower compounds. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to existing facility sites that would not increase tower heights, extend the boundaries of the tower sites, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power densities measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to any of these facilities will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Pamela B. Katz, P.E.
Chairman

PBK/laf

c: See attached List

List Attachment:

- c: The Honorable William T. Stortz, Mayor, City of Bristol
- Alan Weiner, Planner/Dev. Coordinator, City of Bristol
- The Honorable Theodore C. Scheidel, Jr., First Selectman, Town of Burlington
- Robert J. Coates, Planning and Zoning Chairman, Town of Burlington
- The Honorable Ruth S. Epstein, First Selectman, Town of Kent
- Judith Wick, Zoning Enforcement Officer, Town of Kent
- The Honorable Patricia A. Murphy, Mayor, Town of New Milford
- Christopher B. Fisher, Esq., Cuddy & Feder LLP
- Michele G. Briggs, New Cingular Wireless PCS, LLC
- Thomas F. Flynn III, Sprint Nextel Corporation
- Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP

ATTACHMENT 2



WIRELESS COMMUNICATIONS FACILITY

**NEW MILFORD W CT
33 AKA 86 BOARDMAN ROAD
NEW MILFORD, CT 06776**

DRAWING INDEX

- T-1 TITLE SHEET
- C-1 COMPOUND PLAN, TOWER ELEVATION, EQUIPMENT CONFIGURATION PLANS & ELEVATIONS.
- B-1 RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS.
- N-1 NOTES & SPECIFICATIONS

SITE DIRECTIONS

**START: 20 ALEXANDER DRIVE
WALLINGFORD, CONNECTICUT 06492**

**END: 33 AKA 86 BOARDMAN ROAD
NEW MILFORD, CT 06776**

- | | |
|---|---------|
| 1. HEAD SOUTH TOWARDS ALEXANDER DRIVE | 279 FT |
| 2. SLIGHT RIGHT TOWARDS ALEXANDER DRIVE | 289 FT |
| 3. TURN RIGHT TOWARDS ALEXANDER DRIVE | 157 FT |
| 4. TURN RIGHT ONTO ALEXANDER DRIVE | 0.3 MI |
| 5. TURN RIGHT ONTO BARNES INDUSTRIAL RD S. | 0.1 MI |
| 6. TURN RIGHT ONTO CT-68 W | 0.4 MI |
| 7. TURN RIGHT ONTO N. COLONY RD | 0.3 MI |
| 8. TURN RIGHT ONTO CT-15 N | 0.5 MI |
| 9. CONTINUE ONTO CT-15 N | 3.1 MI |
| 10. TAKE EXIT 68 W TO 1-691 W | 7.9 MI |
| 11. TAKE EXIT 1 TO I-84 W | 1.0 MI |
| 12. CONTINUE ON I-84 W TO EXIT 15 | 17.5 MI |
| 13. TAKE EXIT 15 TOWARD SOUTHBURY | 0.3 MI |
| 14. TURN RIGHT ONTO US-6 E | 1.4 MI |
| 15. TURN LEFT ONTO CT-67 W | 6.7 MI |
| 16. TURN LEFT TO STAY ON CT-67 W | 367 FT |
| 17. CONTINUE STRAIGHT ONTO CHURCH ST | 381 FT |
| 18. CONTINUE ONTO WELLS BRIDGE RD | 1.3 MI |
| 19. TURN LEFT ONTO CT-67 W | 5.3 MI |
| 20. TURN SLIGHTLY LEFT ONTO US-202 W/BRIDGE ST | 0.5 MI |
| 21. TURN RIGHT ONTO US-7 N | 2.3 MI |
| 22. TURN RIGHT ONTO BOARDMAN RD (DESTINATION WILL BE ON THE LEFT) | 0.2 MI |



LOCATION MAP
SCALE: 1" = 2000'

SITE INFORMATION

VZ SITE NAME: NEW MILFORD W CT
VZ PROJ FUZE I.D.: 16244606
VZ LOCATION CODE: 467734
VZ PROJECT CODE: 20202198988
LOCATION: 33 AKA 86 BOARDMAN ROAD
NEW MILFORD, CT 06776

PROJECT SCOPE: REFER TO NOTES ON C-1 FOR SCOPE OF WORK.

MAP/BLOCK/LOT: 47/73

ZONING DISTRICT: I (INDUSTRIAL ZONE) / R-40 (RESIDENTIAL ZONE)

LATITUDE: 41° 35' 57.8796" N (41.599411° N)

LONGITUDE: 73° 26' 14.9208" W (73.437478° W)

SITE COORDINATES AND GROUND ELEVATION OBTAINED FROM GOOGLE EARTH.

GROUND ELEVATION: 579± AMSL

PROPERTY OWNER: QUARRY STONE AND GRAVEL LLC
O&G INDUSTRIES
112 WALL STREET
TORRINGTON, CT 06790

APPLICANT: CELCO PARTNERSHIP
d/b/a VERIZON WIRELESS
20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

LEGAL/REGULATORY COUNSEL: ROBINSON & COLE, LLP
KENNETH C. BALDWIN, ESQ.
280 TRUMBULL STREET
HARTFORD, CT 06103

ENGINEER CONTACT: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385
(860) 663-1697

VERIZON SMART TOOL PROJECT #: 10082846; 10019472

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492



567 VAUXHALL STREET EXTENSION - SUITE 311
WATERFORD, CT 06385 PHONE: (860) 663-1697
WWW.ALLPOINTSTECH.COM FAX: (860) 663-0939

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
0	12/16/20	FOR REVIEW: JRM
1	08/04/21	FOR REVIEW: JRM
2	08/05/21	FOR FILING: JRM
3		
4		
5		
6		



DESIGN PROFESSIONALS OF RECORD

PROF: MICHAEL S. TRODDEN P.E.
COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
ADD: 567 VAUXHALL STREET EXT. SUITE 311
WATERFORD, CT 06385

OWNER: QUARRY STONE AND GRAVEL LLC, O&G INDUSTRIES
ADDRESS: 112 WALL STREET TORRINGTON, CT 06790

NEW MILFORD W CT

SITE: 33 AKA 86 BOARDMAN ROAD
ADDRESS: NEW MILFORD, CT 06776

APT FILING NUMBER: CT141_11730

DRAWN BY: CSH

DATE: 12/16/20 CHECKED BY: JRM

VZ PROJECT CODE: 20202198988

VZ LOCATION CODE: 467734

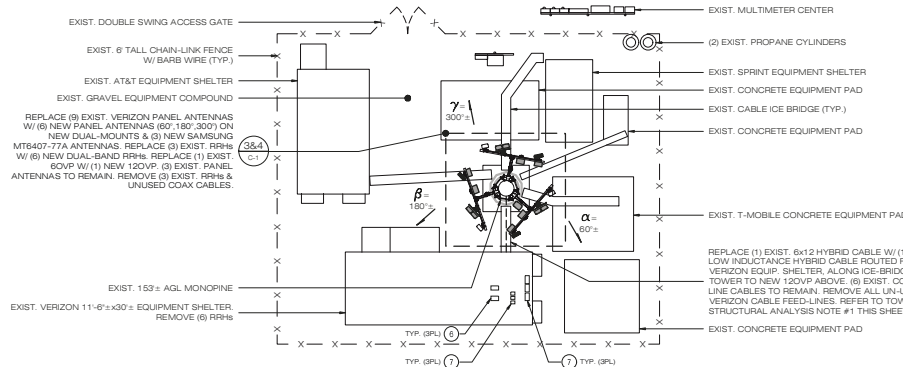
VZ FUZE ID: 16244606

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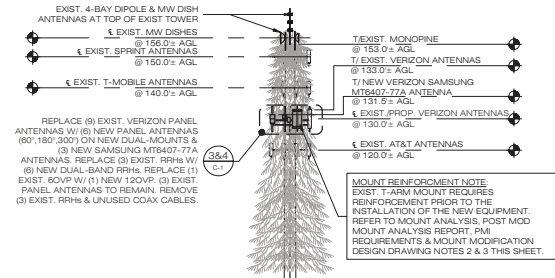
TITLE SHEET

SHEET NUMBER:

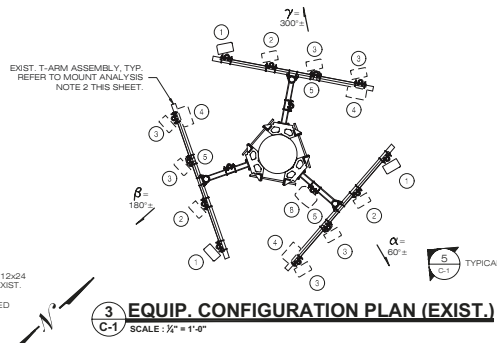
T-1



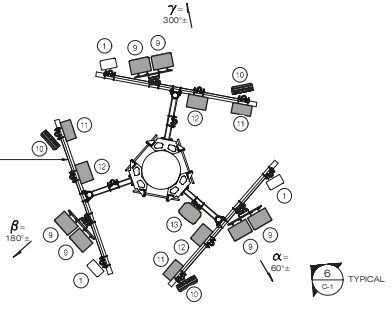
1 COMPOUND PLAN
C-1 SCALE: 1" = 10'-0"



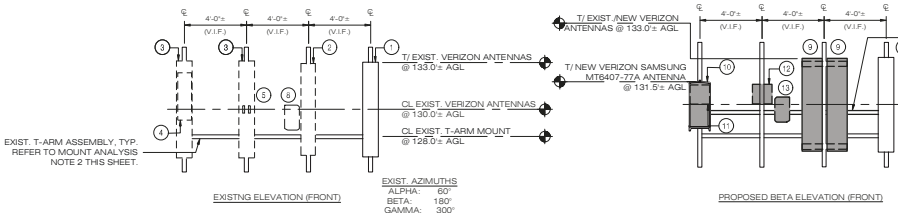
2 TOWER ELEVATION
C-1 SCALE: 1" = 15'-0"



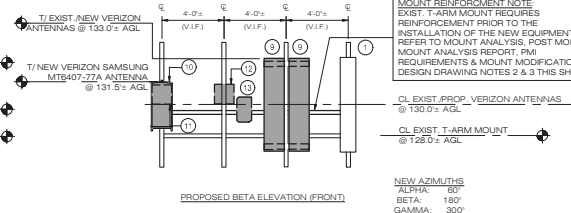
3 EQUIP. CONFIGURATION PLAN (EXIST.)
C-1 SCALE: 1/2" = 1'-0"



4 EQUIP. CONFIGURATION PLAN (NEW)
C-1 SCALE: 1/2" = 1'-0"



5 EQUIP. MOUNTING CONFIG. (EXIST.)
C-1 SCALE: 1/2" = 1'-0"



6 EQUIP. MOUNTING CONFIG. (NEW)
C-1 SCALE: 1/2" = 1'-0"

GENERAL ABBREVIATION LIST:

ABP	ABOVE BASE PLATE
AGL	ABOVE GROUND LEVEL
AMSL	ABOVE MEAN SEA LEVEL
AWSS	ADVANCED WIRELESS SERVICE
HGD	HOT DIP GALVANIZED
OVP	OVER VOLTAGE PROTECTION
PRH	REMOTE RADIO HEAD
V.I.F.	VERIFY IN FIELD
W.P.	WORK POINT
A.F.R.	ABOVE FINISH ROOF

SCOPE OF WORK (ALL) SECTORS

1	EXIST. ANTENNA (TO REMAIN) MODEL: ANDREW LNX-8513DS-A1M
2	EXIST. ANTENNA (TO BE REPLACED) MODEL: ANTEL-EVA-7000-60F
3	EXIST. ANTENNA (TO BE REPLACED) MODEL: ANDREW HBX-6517DS-A2M
4	EXIST. RRH (TO BE REPLACED) MODEL: NOKIA B4 2+60V AVIS RRH
5	EXIST. DIPOLEXER (TO BE REMOVED) MODEL: RFS FD9R60041C-3L
6	EXIST. RRH (TO BE REPLACED) MODEL: NOKIA B13 RRH 4x30-700
7	(3) EXIST. RRHs & (3) EXIST. TWIN TRIPLEXERS (TO BE REMOVED FROM WITHIN EXIST. EQUIP. SHELTER) RRH MODEL: NOKIA B25 RRH 4X30-1900
8	EXIST. 6 OVP (TO BE REPLACED) MODEL: RAYCAP RRFDC3315-PF-48 (V.I.F.)
9	NEW ANTENNA MODEL: JMA M005FR0660-03 MOUNTED ON NEW JMA DUAL MOUNT (PN B1900314-2) & (1) P2.5 STD PIPE (2.875" O.D. x 8'-0" LG)
10	NEW ANTENNA MODEL: SAMSUNG MT6407-77A
11	NEW DUAL BAND RRH MODEL: SAMSUNG B13B5 RRH-BR04C (RF-0114-D2A)
12	NEW DUAL BAND RRH MODEL: SAMSUNG B66B2A RRH-BR049 (RF-0114-D1A)
13	NEW 120VP (ALPHA ONLY) MODEL: RAYCAP RVZOC-6627-PF-48

- NOTES:**
- REFER TO TOWER STRUCTURAL ANALYSIS REPORT PREPARED BY ALL POINTS TECHNOLOGY CORPORATION, P.C. DATED 08/05/21 AVAILABLE UNDER SEPARATE COVER.
 - REFER TO MOUNT ANALYSIS REPORT PREPARED BY MASER CONSULTING, P.A. PROJECT #20777375 MARKED REV. DATED 06/25/21 AVAILABLE UNDER SEPARATE COVER.
 - REFER TO POST MOD MOUNT ANALYSIS REPORT, PMI REQUIREMENTS & MOUNT MODIFICATION DESIGN DRAWINGS PREPARED BY MASER CONSULTING, P.A. PROJECT #2177046, DATED 06/30/21 AVAILABLE UNDER SEPARATE COVER.
 - BASE MAPPING FROM FIELD MEASUREMENTS TAKEN BY ALL-POINTS TECH. CORP., P.C. ON 11/26/20.
 - PROJECT SCOPE INCLUDES THE FOLLOWING:
 - REPLACEMENT OF (9) EXIST. PANEL ANTENNAS w/ (6) NEW PANEL ANTENNAS ON DUAL MOUNTS (JMA PN B1900314) & (3) NEW SAMSUNG MT6407-77A ANTENNAS.
 - REPLACEMENT OF (6) EXIST. RRHs w/ (6) NEW DUAL BAND RRHs.
 - REPLACEMENT OF (1) EXIST. 60VP w/ (1) NEW 120VP (ALPHA ONLY).
 - REPLACEMENT OF (1) EXIST. 6x12 HYBRID FEED LINE CABLE w/ (1) NEW 12x24 LOW INDUCTANCE HYBRID FEED LINE CABLE.
 - REMOVAL OF (6) EXIST. DIPOLEXERS (TOWER).
 - REMOVAL OF (3) EXIST. RRHs & (3) EXIST. TRIPLEXERS LOCATED WITHIN EXIST. VERIZON EQUIP. SHELTER.
 - REMOVAL OF ALL UNUSED VERIZON COAX CABLE FEED-LINES.
 - ALL EXPOSED STEEL AND HARDWARE TO BE HOT DIP GALV. (HDG). PAINT TO MATCH EXIST. (WHERE APPLICABLE).
 - CAP & WEATHERPROOF ALL UN-USED CABLE ENTRY PORTS (WHERE APPLICABLE).
 - MOUNT & GROUND ALL NEW EQUIPMENT IN ACCORDANCE WITH NEC (NFPA-70), NESC AND MANUFACTURERS SPECIFICATION.
 - SECURE ALL NEW ANTENNA CABLES PER MANUFACTURER RECOMMENDATIONS.
 - BOND NEW ANTENNA MOUNTING RIGS TO ANTENNA SECTOR GROUND BAR w/ # 2 AWG. BOW, (WHERE APPLICABLE).
 - CONTRACTOR SHALL INSTALL NEW SIDE-BY-SIDE & DUAL-MOUNT BRACKETS PER ANTENNA MOUNT MANUFACTURER RECOMMENDATIONS, INCLUDING VERIFICATION OF MINIMUM PIPE MAST DIAMETER REQUIRED TO INSTALL NEW MOUNT BRACKETS. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD SHOULD EXIST. PIPE MASTS REQUIRE REPLACEMENT TO SUPPORT THE NEW MOUNT BRACKETS.
 - ANTENNA CONFIGURATIONS SHOWN HEREIN ARE FRONT ELEVATIONS.
 - ANTENNA SPACING DIMENSIONS ARE TO THE CENTER OF THE EXIST. ANTENNA AND PROP. ANTENNA FACE.
 - REFER TO THE FINAL RFDS PROVIDED BY VERIZON FOR THE LATEST INFORMATION REGARDING EQUIPMENT MODELS, REQUIRED CABLEING & DOWN-TILT INFORMATION.
 - COORDINATE ALL LSUB6 COLOR MATCHING (WHERE APPLICABLE) W/ LSUB6 MANUFACTURER INSTALLATION REQUIREMENTS, VERIZON CONSTRUCTION MANAGER & OWNER.
 - PAINT ALL NEW NON SAMSUNG MT6407-77A ANTENNAS & APPURTENANCES TO MATCH EXIST. STRUCTURE (WHERE APPLICABLE) COORDINATE W/ VERIZON CONSTRUCTION MANAGER & BUILDING OWNER.

Cellco Partnership d/b/a



20 ALEXANDER DRIVE
WALLINGFORD, CT 06492

567 VAUXHALL STREET EXTENSION, SUITE 311
WATERFORD, CT 06385 PHONE: (860) 663-1607
WWW.ALLPOINTS-TECH.COM FAX: (860) 663-0935

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ADDRESS: 112 WALL STREET TORRINGTON, CT 06790

NEW MILFORD WC CT

SITE: 33 AKA 86 BOARDMAN ROAD
ADDRESS: NEW MILFORD, CT 06776

APT FILING NUMBER: CT141-11730

DATE: 12/16/20 CHECKED BY: JRM

VZ PROJECT CODE: 20202198988

VZ LOCATION CODE: 467734

VZ FUZE ID: 16244606

SHEET TITLE:
COMPOUND PLAN, TOWER ELEVATION, EQUIP. CONFIGURATION PLANS & ELEVATIONS

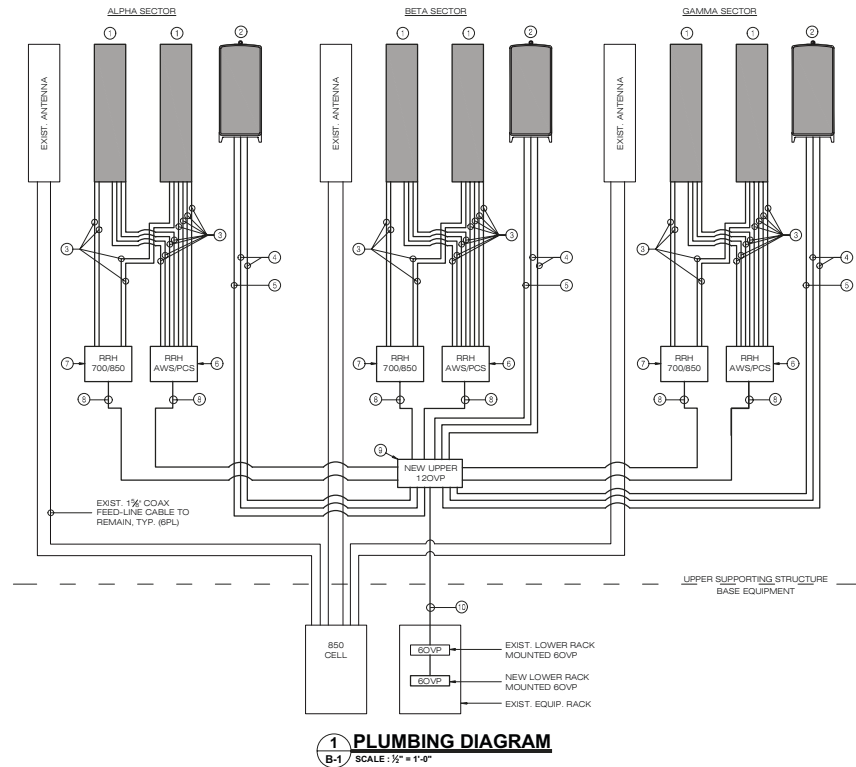
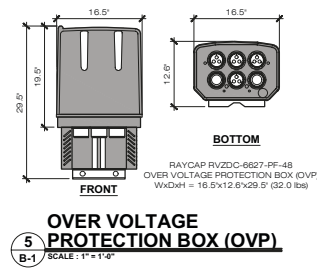
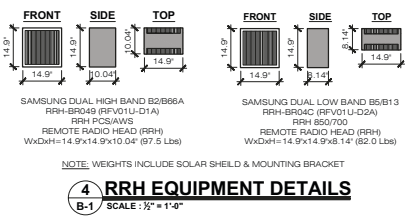
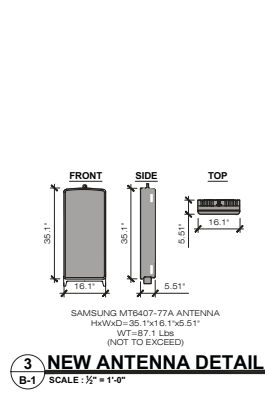
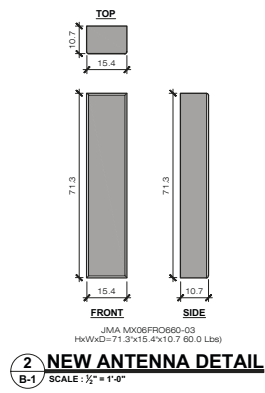
SHEET NUMBER:
C-1

EQUIPMENT DATA									
EQUIPMENT SPECIFICATIONS									
SECTOR	ANTENNA MAKE/MODEL	QTY	AZIMUTH	EQUIPMENT STATUS	HEIGHT (ft)	WIDTH (ft)	DEPTH (ft)	WEIGHT (LBS)	
ALPHA	CDMA: ANDREW LNK-8513DS-A1M	1	60°	ETR	72.7	11.9	7.1	39.2 ⁽²⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	60°	NEW	71.3	15.4	10.7	60.0 ⁽²⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	60°	NEW	71.3	15.4	10.7	60.0 ⁽²⁾	
BETA	SAMSUNG MT6407-77A	1	60°	NEW	35.1 ⁽²⁾	16.1 ⁽²⁾	5.5 ⁽²⁾	87.1 ⁽²⁾⁽³⁾	
	CDMA: ANDREW LNK-8513DS-A1M	1	180°	ETR	72.7	11.9	7.1	39.2 ⁽²⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	180°	NEW	71.3	15.4	10.7	60.0 ⁽²⁾	
GAMMA	700/850/1900/2100 JMA MX06FRO660-03	1	180°	NEW	71.3	15.4	10.7	60.0 ⁽²⁾	
	CDMA: ANDREW LNK-8513DS-A1M	1	300°	ETR	72.7	11.9	7.1	39.2 ⁽²⁾	
	700/850/1900/2100 JMA MX06FRO660-03	1	300°	NEW	71.3	15.4	10.7	60.0 ⁽²⁾	
APPURTENANCE MAKE/MODEL	700/850/1900/2100 JMA MX06FRO660-03	1	300°	NEW	71.3	15.4	10.7	60.0 ⁽²⁾	
	SAMSUNG MT6407-77A	1	300°	NEW	35.1 ⁽²⁾	16.1 ⁽²⁾	5.5 ⁽²⁾	87.1 ⁽²⁾⁽³⁾	
	SAMSUNG B2/B66A RRH-BR049 (RFV01U-D1A)	3	-	NEW	14.9	14.9	10.04	97.5	
	SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A)	3	-	NEW	14.9	14.9	8.14	82.0	
RAYCAP RVZDC-6627-PF-48	3	-	NEW	29.5	16.5	12.6	32.0		

- (1) ETR DENOTES EXIST. TO REMAIN.
 (2) WEIGHT WITHOUT MOUNTING BRACKET.
 (3) ANTENNA DATA BASED ON RFDS DATED 10/27/20
 (4) EQUIPMENT CONFIGURATION INDICATED ABOVE VIEWED FROM BEHIND.
 (5) NOT TO EXCEED

BILL OF MATERIALS				
	QUANTITY	LENGTH	COMMENTS	
①	6		(JMA MX06FRO660-03) MOUNTED W/ NEW JMA DUAL MOUNT (P/N 91900314-2) & (1) P2.5 STD PIPE (2.875" O.D.)	
②	3		SAMSUNG MT6407-77A	
③	36	15 FT	ROUTE FROM RRH TO ANTENNAS	
④	9	15 FT	ROUTE FROM UPPER OVP TO ANTENNAS	
⑤	3	15 FT	PROPRIETARY POWER CABLE FROM UPPER OVP TO ANTENNAS	
⑥	3		SAMSUNG B2/B66 RRH-BR049 (RFV01U-D1A) MOUNTED TO EXIST. PIPE MAST	
⑦	3		SAMSUNG B5/B13 RRH-BR04C (RFV01U-D2A) MOUNTED TO EXIST. PIPE MAST	
⑧	6	15M	PROPRIETARY POWER & FIBER CABLES	
⑨	1		(RVZDC-6627-PF-48)	
⑩	1	180± FT	12x24 LOW INDUCTANCE HYBRID CABLE (1½")	

NOTES:
 1. INFORMATION SHOWN HEREON IS FOR USE BY VERIZON EQUIPMENT OPERATIONS.
 2. INFORMATION IS BASED ON RFDS DATED 10/27/20.
 3. * DENOTES EQUIPMENT DESIGNATED FOR LEASING ONLY (WHERE APPLICABLE)
 4. INSTALL ALARM BOARDS AT ALL OVPS WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING.
 5. INSTALL UP-CONVERTERS LOCATED AT BASE OVPS WHERE REQUIRED. COORDINATE W/ VERIZON EQUIPMENT ENGINEERING AS NECESSARY.
 6. COORDINATE ANTENNA CABLING REQUIREMENTS WITH VERIZON ENGINEERING.



Cellco Partnership d/b/a
verizon
 20 ALEXANDER DRIVE
 WALLINGFORD, CT 06492

ALL-POINTS
 TECHNOLOGY CORPORATION
 567 VAUXHALL STREET EXTENSION, SUITE 311
 WATERFORD, CT 06385 PHONE: (860) 663-9697
 WWW.ALLPOINTS TECH.COM FAX: (860) 663-0939

CONSTRUCTION DOCUMENTS

NO	DATE	REVISION
6	12/16/20	FOR REVIEW: JRM
1	08/04/21	FOR REVIEW: JRM
2	08/09/21	FOR FILING: JRM
3		
4		
5		
6		



DESIGN PROFESSIONALS OF RECORD
 PROF. MICHAEL S. TRODDEN P.E.
 COMP: ALL-POINTS TECHNOLOGY CORPORATION, P.C.
 ADDR: 567 VAUXHALL STREET EXT. SUITE 311 WATERFORD, CT 06385
 OWNER: QUARRY STONE AND GRAVEL LLC, O&G INDUSTRIES
 ADDRESS: 113 WALL STREET TORRINGTON, CT 06790

NEW MILFORD W CT
 SITE: 33 AKA 86 BOARDMAN ROAD
 ADDRESS: NEW MILFORD, CT 06776
 APT FILING NUMBER: CT141_11730
 DRAWN BY: CSH
 DATE: 12/16/20 CHECKED BY: JRM
 VZ PROJECT CODE: 20202198988
 VZ LOCATION CODE: 467734
 VZ FUZE ID: 16244606

SHEET TITLE:
RF BILL OF MATERIALS, MECHANICAL SPECIFICATIONS & EQUIPMENT DETAILS

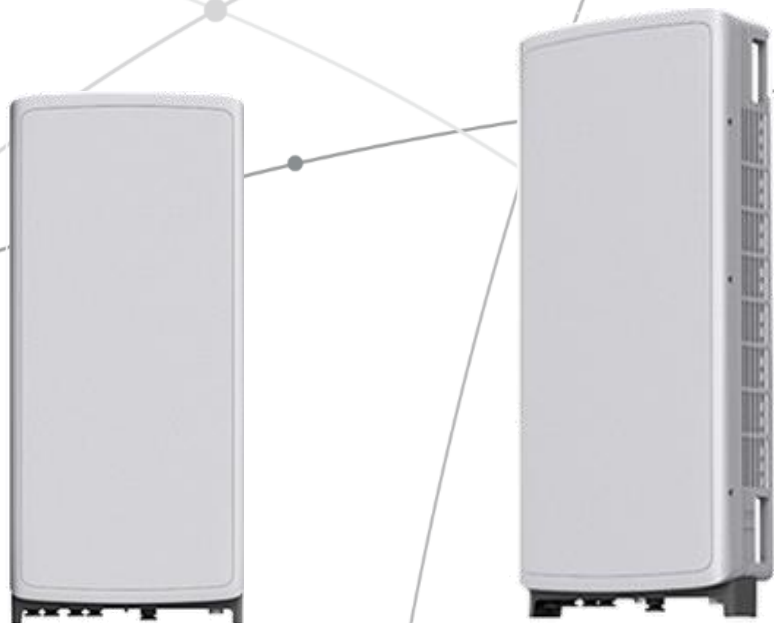
SHEET NUMBER:
B-1

SAMSUNG C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

Samsung C-Band 64T64R Massive MIMO Radio enables mobile operators to increase coverage range, boost data speeds and ultimately offer enriched 5G experiences to users in the U.S..

Model Code : MT6407-77A



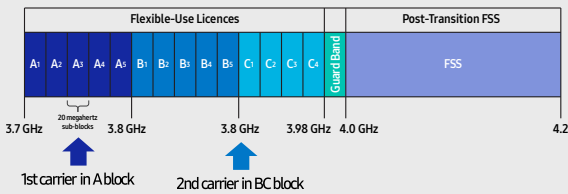
Points of Differentiation

Wide Bandwidth

With capability to support up to 2 CC carrier configuration, Samsung C-Band massive MIMO Radio supports 200 MHz bandwidth in the C-Band spectrum.

Samsung C-Band massive MIMO Radio covers the entire C-Band 280 MHz spectrum, so it can meet the operator's needs in current A block and future B/C blocks

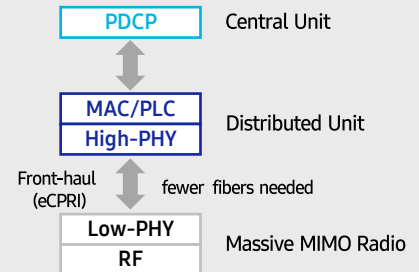
C-Band spectrum supported by Massive MIMO Radio



Future Proof Product

Samsung C-Band 64T64R Massive MIMO radio supports not only CPRI but also eCPRI as front-haul interface.

It enables operators can cut down on OPEX/CAPEX by reducing front-haul bandwidth through low layer split and using ethernet based higher efficient line.

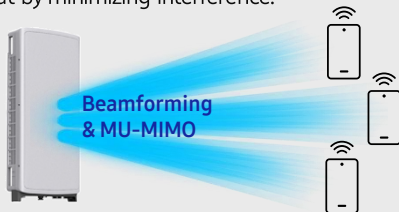


Enhanced Performance

C-Band massive MIMO Radio creates sharp beams and extends networks' coverage on the critical mid-band spectrum using a large number of antenna elements and high output power to boost data speeds.

This helps operators reduce their CAPEX as they now need less products to cover the same area than before.

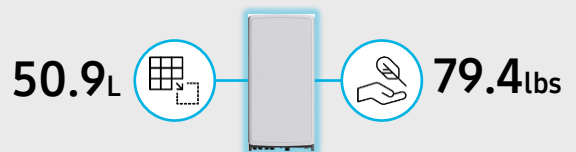
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



Well Matched Design

Samsung C-Band Massive MIMO radio utilizes 64 antennas, supports up to 280MHz bandwidth, and delivers a 200W output power. despite the above advanced performance, the Radio has a compact size of 50.9L and 79.4lbs. This makes it easy to install the Radio.

It is designed to look solid and compact, with a low profile appearance so that, when installed, harmonizes well with the surrounding environment.



Technical Specifications

Item	Specification
Tech	NR
Band	n77
Frequency Band	3700 - 3980 MHz
EIRP	78.5dBm (53.0 dBm+25.5 dBi)
IBW/OBW	280 MHz / 200 MHz
Installation	Pole/Wall
Size/Weight	16.06 x 35.06 x 5.51 inch (50.86L) / 79.4 lbs



SAMSUNG



About Samsung Electronics Co., Ltd.

Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and memory, system LSI, foundry and LED solutions.

129 Samsung-ro, Yeongtong-gu, Suwon-si Gyeonggi-do, Korea

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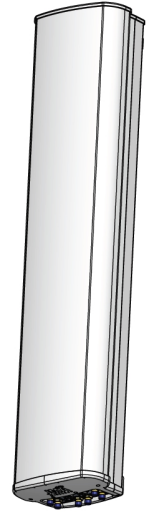
MX06FRO660-03

NWAV™ X-Pol Hex-Port Antenna

X-Pol Hex-Port 6 ft 60° Fast Roll Off antenna with independent tilt on 700 & 850 MHz:

2 ports 698-798, 824-894 MHz and 4 ports 1695-2180 MHz

- Fast Roll Off (FRO™) azimuth beam pattern improves Intra- and Inter-cell SINR
- Compatible with dual band 700/850 MHz radios with independent low band EDT without external diplexers
- Fully integrated (iRETs) with independent RET control for low and high bands for ease of network optimization
- SON-Ready array spacing supports beamforming capabilities
- Suitable for LTE/CDMA/PCS/UMTS/GSM air interface technologies
- Integrated Smart Bias-Ts reduce leasing costs



NWAV™

Fast Roll-Off antennas increase data throughput without compromising coverage

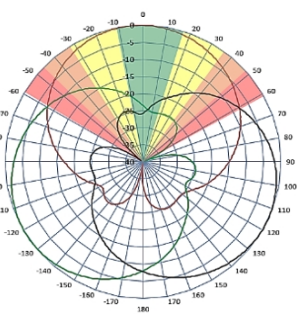
The horizontal beam produced by Fast Roll-Off (FRO) technology increases the Signal to Interference & Noise Ratio (SINR) by eliminating overlap between sectors.

Non-FRO antenna

Large traditional antenna pattern overlap creates harmful interference.

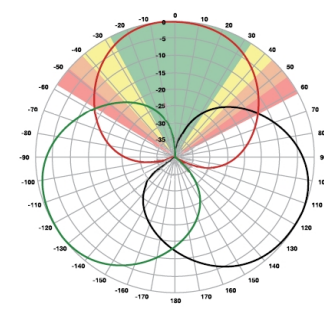
JMA's FRO antenna pattern minimizes overlap, thereby minimizing interference.

JMA FRO antenna



LTE throughput	SINR	Speed (bps/Hz)	Speed increase	CQI
Excellent	>18	>4.5	333+%	8-10
Good	15-18	3.3-4.5	277%	6-7
Fair	10-15	2-3.3	160%	4-6
Poor	<10	<2	0%	1-3

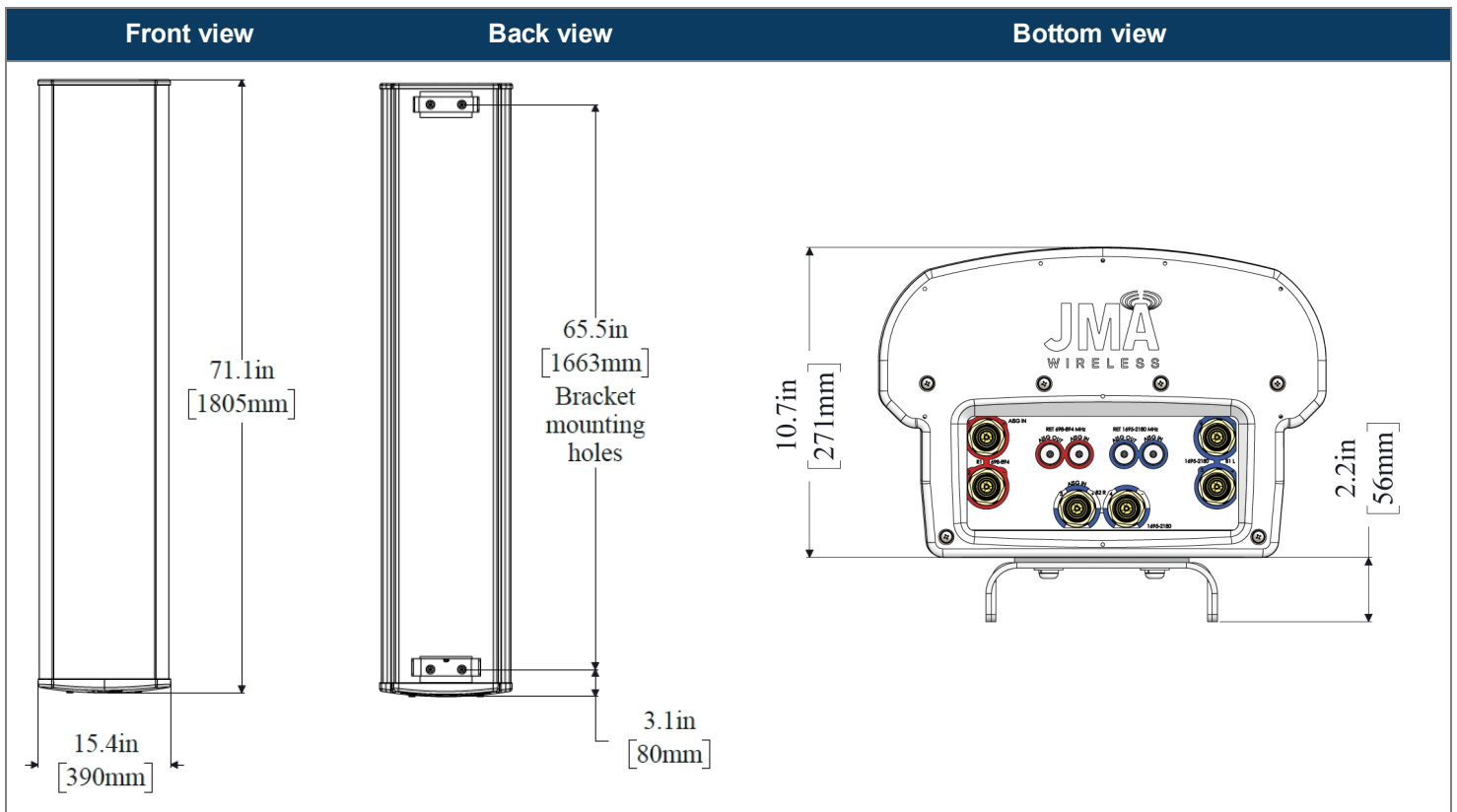
The LTE radio automatically selects the best throughput based on measured SINR.



Electrical specification (minimum/maximum)	Ports 1, 2		Ports 3, 4, 5, 6		
	698-798	824-894	1695-1880	1850-1990	1920-2180
Frequency bands, MHz	698-798	824-894	1695-1880	1850-1990	1920-2180
Polarization	± 45°		± 45°		
Average gain over all tilts, dBi	14.4	14.0	17.6	18.0	18.2
Horizontal beamwidth (HBW), degrees	60.5	53.0	55.0	55.0	55.5
Front-to-back ratio, co-polar power @180°± 30°, dB	>24	>24.0	>25.0	>25.0	>25.0
X-Pol discrimination (CPR) at boresight, dB	>15.0	>14.2	>18	>18	>15
Sector power ratio, percent	<3.5	<3.0	<3.7	<3.8	<3.6
Vertical beamwidth (VBW), degrees ¹	13.1	11.8	6.0	5.5	5.5
Electrical downtilt (EDT) range, degrees	2-14	2-14	0-9		
First upper side lobe (USLS) suppression, dB ¹	≤-15.0	≤-16.5	≤-16.0	≤-16.0	≤-16.0
Cross-polar isolation, port-to-port, dB ¹	25	25	25	25	25
Max VSWR / return loss, dB	1.5:1 / -14.0		1.5:1 / -14.0		
Max passive intermodulation (PIM), 2x20W carrier, dBc	-153		-153		
Max input power per any port, watts	300		250		
Total composite power all ports, watts	1500				

¹ Typical value over frequency and tilt

Mechanical specifications	
Dimensions height/width/depth, inches (mm)	71.3/ 15.4/ 10.7 (1811/ 392/ 273)
Shipping dimensions length/width/height, inches (mm)	82/ 20/ 15 (2083/ 508/ 381)
No. of RF input ports, connector type, and location	6 x 4.3-10 female, bottom
RF connector torque	96 lbf-in (10.85 N·m or 8 lbf-ft)
Net antenna weight, lb (kg)	60 (27.0)
Shipping weight, lb (kg)	90 (41.0)
Antenna mounting and downtilt kit included with antenna	91900318
Net weight of the mounting and downtilt kit, lb (kg)	18 (8.18)
Range of mechanical up/down tilt	-2° to 14°
Rated wind survival speed, mph (km/h)	150 (241)
Frontal, lateral, and rear wind loading @ 150 km/h, lbf (N)	154 (685), 73 (325), 158 (703)
Equivalent flat plate @ 100 mph and Cd=2, sq ft	2.6



Ordering information	
Antenna model	Description
MX06FRO660-03	6F X-Pol HEX FRO 60° independent tilt 700/850 RET, 4.3-10 & SBT
Optional accessories	
AISG cables	M/F cables for AISG connections
PCU-1000 RET controller	Stand-alone controller for RET control and configurations

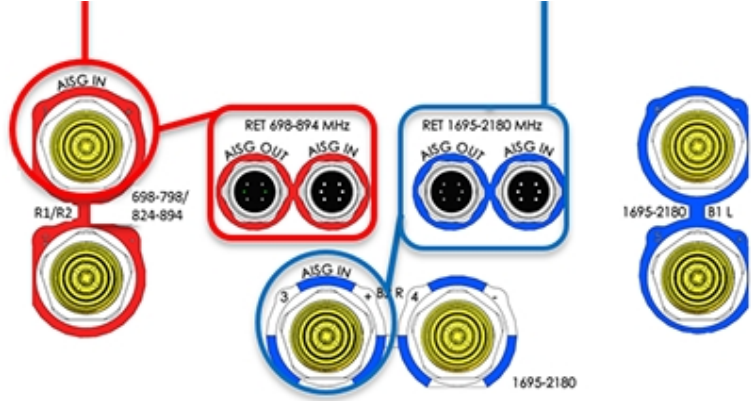
Remote electrical tilt (RET 1000) information	
RET location	Integrated into antenna
RET interface connector type	8-pin AISG connector per IEC 60130-9
RET connector torque	Min 0.5 N·m to max 1.0 N·m (hand pressure & finger tight)
RET interface connector quantity	2 pairs of AISG male/female connectors
RET interface connector location	Bottom of the antenna
Total no. of internal RETs (low bands)	2
Total no. of internal RETs (high bands)	1
RET input operating voltage, vdc	10-30
RET max power consumption, idle state, W	≤ 2.0
RET max power consumption, normal operating conditions, W	≤ 13.0
RET communication protocol	AISG 2.0 / 3GPP

RET and RF connector topology

Each RET device can be controlled either via the designated external AISG connector or RF port as shown below:

RET device	Band	RF port
R1	698-798	1-2
R2	824-894	1-2

RET device	Band	RF port
B1/B2	1695-2180	3-6



Array topology

3 sets of radiating arrays
 R1/R2: 698-894 MHz
 B1: 1695-2180 MHz
 B2: 1695-2180 MHz

Band	RF port
1695-2180	3-4
698-894	1-2
1695-2180	5-6



SAMSUNG

Dual-Band Radio Unit AWS/PCS (B66/B2)

RFV01U-D1A

Samsung's RFV01U-D1A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D1A RU targets dual-band support across Band 66 (AWS) and Band 2 (PCS), making it an ideal product for broad coverage footprints across multiple common mid-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation
- Built-in Broadcast Auxiliary Services (BAS) filter ensures compliant AWS operation without impacting footprint

Key Technical Specifications

Duplex Type: FDD

Operating Frequencies:

B66: DL(2,110-2,180MHz)/UL(1,710-1,780MHz)

B2: DL(1,930-1,990MHz)/UL(1,850-1,910MHz)

Instantaneous Bandwidth:

70MHz(B66) + 60MHz(B2)

RF Chain: 4T4R/2T4R/2T2R

Output Power: Total 320W

DU-RU Interface: CPRI (10Gbps)

Dimensions: 380 x 380 x 255mm (36.8L)

Weight: 38.3kg

Input Power: -48V DC

Operating Temp.: -40 - 55°(w/o solar load)

Cooling: Natural convection

SAMSUNG

Dual-Band Radio Unit 700/850MHz (B13/B5) RFV01U-D2A

Samsung's RFV01U-D2A is a compact remote Radio Unit (RU) designed for deployments that require flexibility in installation and rapid onlining, without compromising on coverage, capacity or operational expenses.



The RFV01U-D2A RU targets dual-band support across Band 13 (700MHz) and Band 5 (850MHz), making it an ideal product for broad coverage footprints across multiple common low-end, long-range frequencies.

The RU handles all Radio Frequency (RF) processing in a single, compact unit, and is designed to interface via CPRI with Samsung's CDU baseband offerings, in both distributed- and central-RAN configurations.

In addition to its minimal footprint and ease of installation, the RU is also designed to reduce cost of ownership through its integrated spectrum analyzer, which allows for remote RF monitoring, greatly reducing the need for on-site maintenance visits.

Features and Benefits

- Dual-band support for broad frequency coverage
- Minimal footprint reduces site costs
- Rapid, easy installation
- Flexibly deployable in any location
- Remote RF monitoring capability
- Convection cooled, silent operation

Key Technical Specifications

Duplex Type: FDD
Operating Frequencies:
B13: DL(746-756MHz)/UL(777-787MHz)
B5: DL(869-894MHz)/UL(824-849MHz)
Instantaneous Bandwidth: 10MHz(B13) + 25MHz(B5)
RF Chain: 4T4R/2T4R/2T2R
Output Power: Total 320W
DU-RU Interface: CPRI (10Gbps)
Dimensions: 380 x 380 x 207mm (29.9L)
Weight: 31.9kg
Input Power: -48V DC
Operating Temp.: -40 - 55°(w/o solar load)
Cooling: Natural convection

ATTACHMENT 3

	General	Power	Density					
Site Name: New Miflrod W								
Tower Height: Verizon @ 130ft								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*Sprint	1	438	150	850	0.0076	0.5667	0.13%	
*Sprint	2	438	150	850	0.0152	0.5667	0.27%	
*Sprint	5	623	150	1900	0.0540	1.0000	0.54%	
*Sprint	2	1556	150	1900	0.0540	1.0000	0.54%	
*Sprint	8	640	150	2510	0.0888	1.0000	0.89%	
*AT&T-UMTS	2	414	120	850	0.0229	0.5667	0.40%	
*AT&T-LTE	4	1005	120	2300	0.1112	1.0000	1.11%	
*AT&T-PCS-LTE	4	736	120	700	0.0815	0.4667	1.75%	
*AT&T-LTE	2	885	120	850	0.0490	0.5667	0.86%	
*AT&T-WCS-LTE	4	1181	120	2100	0.1307	1.0000	1.31%	
*AT&T-PCS-LTE	2	664	120	850	0.0367	0.5667	0.65%	
*AT&T-LTE	2	1167	120	700	0.0646	0.4667	1.38%	
*AT&T-AWS-LTE	4	1309	120	1900	0.1449	1.0000	1.45%	
*T-Mobile	2	2334	140	2100	0.0935	1.0000	0.93%	
*T-Mobile	2	6413	140	2500	0.2569	1.0000	2.57%	
*T-Mobile	2	6413	140	2500	0.2569	1.0000	2.57%	
*T-Mobile	2	592	140	600	0.0237	0.4000	0.59%	
*T-Mobile	1	1578	140	600	0.0316	0.4000	0.79%	
*T-Mobile	2	649	140	700	0.0260	0.4667	0.56%	
*T-Mobile	4	1102	140	1900	0.0883	1.0000	0.88%	
*T-Mobile	2	2204	140	1900	0.0883	1.0000	0.88%	
VZW 700	4	581	130	0.0049	751	0.5007	0.99%	
VZW CDMA	2	438	130	0.0019	877.26	0.5848	0.32%	
VZW Cellular	4	581	130	0.0049	874	0.5827	0.85%	
VZW PCS	4	905	130	0.0077	1975	1.0000	0.77%	
VZW AWS	4	2991	130	0.0255	2120	1.0000	2.55%	
VZW CBAND	4	6531	130	0.0556	3730.08	1.0000	5.56%	
								32.10%
* Source: Siting Council								

ATTACHMENT 4



STRUCTURAL ANALYSIS REPORT
153-ft MONOPOLE TOWER
NEW MILFORD, CONNECTICUT

Prepared for
Verizon Wireless

Verizon Site Ref.
467734; New Milford W CT

Site Address: 86 Boardman Road, New Milford, Connecticut 06776

APT Filing No. CT141_11730

August 5, 2021



**STRUCTURAL ANALYSIS REPORT
153-ft MONOPOLE TOWER
NEW MILFORD, CONNECTICUT
prepared for
Verizon Wireless**

EXECUTIVE SUMMARY:

All-Points Technology Corporation, P.C. (APT) performed a structural analysis of an existing 153-foot tapered steel monopole tower structure to support a proposed Verizon equipment modification.

The proposed Verizon antenna and appurtenance modification consists of the replacement of nine (9) existing panel antennas with six (6) new panel antennas and three (3) Samsung MT6407-77A antennas, the replacement of nine (9) existing remote radio heads (RRHs) with six (6) new RRHs and one (1) existing 6OVP with one (1) new 12OVP. Equipment will be fed by six (6) existing 1-5/8" lines and one (1) new 12x24 low-inductance (LI) hybrid line.

The existing 10' T-arms at 128' require reinforcements prior to the installation of the new equipment, as referenced below.

Our analysis indicates the subject tower and base foundation meet the requirements of the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code, and ANSI/TIA-222-G with the proposed equipment changes.

INTRODUCTION:

A structural analysis of this communications tower was performed by APT for Verizon Wireless. The tower is located at 86 Boardman Road in New Milford, Connecticut.

The following information was utilized in the preparation of this analysis:

- Structural Analysis Report prepared by Centek Engineering, Centek Project No. 14001.060, dated 12/1/2014.
- Structural Analysis Report prepared by Centek Engineering, Centek Project No. 20074.50, dated 07/08/20.
- RFDS sheet provided by Verizon Wireless, dated 10/27/2020.
- Antenna Mount Analysis Report prepared by GPD Engineering, Project #2021740.467734.01, dated 6/25/2021.
- Post-Mod Antenna Mount Analysis Report, PMI Requirements and Mount Modification drawings, prepared by GPD Engineering, Project #2021740.467734.02, dated 6/30/2021.
- Construction Drawings prepared by All-Points Technology Corporation, P.C. (APT), APT Filing No. CT141_11730, marked Rev 2, dated 08/05/21.

The tower is a 153-foot, 18-sided tapered steel monopole tower manufactured by Engineered Endeavors, Inc. (EEI). The pole features pine branches above the 80' elevation.

The analysis was conducted using the following antenna inventory (proposed equipment shown in **bold** text):

Carrier	Antenna and Appurtenance Make/Model	Elevation (AGL) ²	Status	Mount Type	Coax/Feed-Line ³
Motorola	2' HP dish, 3' HP dish	156'	E	(2) 5' x 4-1/2" pipe mount	(2) 7/8"
Town	Motorola BA40-41-DIN	154'	E	Valmont Uni-Tri bracket, (1) 5' x 4-1/2" pipe mounts	7/8"
Sprint	(3) Commscope DT465B-2XR & (3) RFS APXVSP18-C-A20 panels, (3) TD-RRH8x20-25 RRHs, (6) FD-RRH-2x50-800 RRHs, (3) ALU RRH4x40-1900 RRHs	150'	E	(3) 10' T-arm sector mounts	(9) 1-5/8", (4) 1-1/4" hybrid
T-Mobile	(3) RFS APXVAARR24_43-U-NA20, (3) RFS APX16DWV-16DWVS & (3) Ericsson Air6449 B41 panels, (3) Radio 4424 RRHs, (3) Radio 4415 RRHs, (3) Radio 4449 RRHs, (3) TMA 8" x 10"	140'	E	(3) 10' T-arm sector mounts (Reinforced)	(2) 6x12 hybrid
Verizon Wireless	(3) Andrew LNX-8513DS-A1M, (6) JMA Wireless MX06FRO660-03 & (3) Samsung MT6407-77A panels, (3) Samsung B66a/B2a RRH-BRO49 (RFV01U-D1A) RRHs, (3) Samsung B13/B5 RRH-BRO4C (RFV01UD2A) RRHs, (1) Raycap DB-C1-12C-24AB-0Z OVP	130'	E P P P P P P	(3) 10' T-arm sector mounts (To be Reinforced)	(6) 1-5/8", (1) 12x24 LI hybrid
AT&T	(3) Powerwave 7770.00, (2) Kathrein 800-10965, (1) Kathrein 800-10966 & (6) cci HPA-65R-BUJ-H6 panels, (3) Powerwave LGP21401 TMAs, (3) Ericsson RRUS-11 RRHs, (6) Ericsson RRUS-32 RRHs, (3) Radio 4426 RRHs, (3) Radio 4478 RRHs, (3) Raycap DC6-48-60-18-8F "squid" D-boxes	120'	E	(3) 10' T-arm sector mounts	(12) 1-5/8", (1) Fiber, (2) DC power

Notes:

1. E = Existing to Remain; ERL = Existing to be Relocated; P = Proposed.
2. Elevations refer to AGL.
3. All feed lines run inside the pole.

STRUCTURAL ANALYSIS:

Methodology:

This structural analysis has been prepared in accordance with the ANSI TIA-222-G standard entitled "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures," American Institute of Steel Construction (AISC) Manual of Steel Construction, and the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code.

Antenna, appurtenance and mount assembly loads were evaluated utilizing the ANSI TIA-222-G standard.

- o Load Case 1: 115 mph (3-second gust), 0" ice
- o Load Case 2: 50mph (3-second gust) w/ 0.75" ice thickness required

- o Load Case 3: 60mph (3-second gust) (Service Load)
- o Structure Class: II
- o Exposure Category: C
- o Topographic Category: 1

Splice and Anchor Bolts:

Connection bolts were evaluated under the reduced design criteria. All splice and anchor bolts were found to be adequately sized to support the proposed equipment.

Analysis Results:

The following table summarizes the capacity of the monopole based on combined axial and bending stresses:

Elevation	Capacity
134.83'-154'	17%
89.16'-134.83'	72%
44.54'-89.16'	65%
1'-44.54'	67%
Base Plate	72%

Base Foundation:

Evaluation of the existing base foundation was evaluated utilizing documents provided to APT and was found to be adequately sized for the proposed and future loads.

Factored base reactions imposed with the proposed equipment were calculated as follows:

Load Effect	Calculated Reactions
Compression	77.2 k
Total Shear	55.2 k
Overtopping Moment	6468 ft-k

CONCLUSIONS AND SUGGESTIONS:

In conclusion, our analysis indicates the 153-ft monopole tower structure and foundation located at 86 Boardman Road in New Milford, Connecticut meets the requirements of the 2015 International Building Code (IBC), as amended by the 2018 Connecticut State Building Code, and the ANSI/TIA-222-G with Verizon's proposed equipment changes and mount modifications.

Sincerely,
All-Points Technology Corp. P.C.



Robert E. Adair, P.E.
Principal



Prepared by:
All-Points Technology Corp. P.C.



Ali M. Adair
Project Scientist

LIMITATIONS:

This report is based on the following:

1. Tower/structure is properly installed and maintained.
2. All members and components are in a non-deteriorated condition.
3. All required members are in place.
4. All bolts are in place and are properly tightened.
5. Tower/structure is in plumb condition.
6. All tower members were properly designed, detailed, fabricated, and installed and have been properly maintained since erection.
7. Material yield stress values as follows:
 - Monopole: 65 ksi
 - Base plate: 60 ksi
 - Anchor bolts: 75 ksi

All-Points Technology Corporation, P.C. (APT) is not responsible for any modifications completed prior to or hereafter which APT is not or was not directly involved. Modifications include but are not limited to:

1. Replacing or reinforcing bracing members.
2. Reinforcing members in any manner.
3. Adding or relocating antennas.
4. Installing antenna mounts or waveguide cables.
5. Extending tower.

APT hereby states that this document represents the entire report and that it assumes no liability for any factual changes that may occur after the date of this report. All representations, recommendations, and conclusions are based upon the information contained and set forth herein. If you are aware of any information which conflicts with that which is contained herein, or you are aware of any defects arising from original design, material, fabrication, or erection deficiencies, you should disregard this report and immediately contact APT. APT disclaims all liability for any representation, recommendation, or conclusion not expressly stated herein.

Appendix A

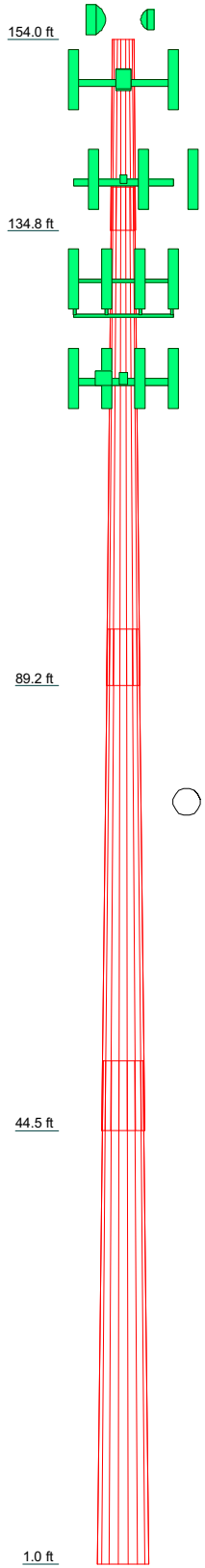
Tower Schematic

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
5'x4 1/2" Pipe Mount (Motorola)	156	B2/B66A RRHBR049 (RFV01U-D1A) (Verizon Wireless)	130
5'x4 1/2" Pipe Mount (Motorola)	156	B2/B66A RRHBR049 (RFV01U-D1A) (Verizon Wireless)	130
2' HP dish	156	B5/B13 RRHBR04C (RFV01UD2A) (Verizon Wireless)	130
3' HP dish	156	B5/B13 RRHBR04C (RFV01UD2A) (Verizon Wireless)	130
Valmont Uni-Tri bracket (Town)	154	B5/B13 RRHBR04C (RFV01UD2A) (Verizon Wireless)	130
BA40-41-DIN (Town)	154	DT465B-2XR (Sprint)	150
5'x4 1/2" Pipe Mount (Town)	154	APXVSP18-C-A20 (Sprint)	150
DT465B-2XR (Sprint)	150	APXVSP18-C-A20 (Sprint)	150
APXVSP18-C-A20 (Sprint)	150	TD-RRH8x20-25 (Sprint)	150
APXVSP18-C-A20 (Sprint)	150	TD-RRH8x20-25 (Sprint)	150
TD-RRH8x20-25 (Sprint)	150	TD-RRH8x20-25 (Sprint)	150
TD-RRH8x20-25 (Sprint)	150	ALU RRH4x40-1900 (Sprint)	150
ALU RRH4x40-1900 (Sprint)	150	ALU RRH4x40-1900 (Sprint)	150
ALU RRH4x40-1900 (Sprint)	150	(2) FD-RRH-2x50-800 (Sprint)	150
(2) FD-RRH-2x50-800 (Sprint)	150	(2) FD-RRH-2x50-800 (Sprint)	150
(2) FD-RRH-2x50-800 (Sprint)	150	EEL 10' T-Arm (Sprint)	150
EEL 10' T-Arm (Sprint)	150	EEL 10' T-Arm (Sprint)	150
EEL 10' T-Arm (Sprint)	150	EEL 10' T-Arm (Sprint)	150
EEL 10' T-Arm (Sprint)	150	(2) HPA-65R-BUJ-H6 (ATI)	120
Pine branches large (EEI)	150	800-10965 (ATI)	120
DT465B-2XR (Sprint)	150	800-10965 (ATI)	120
DT465B-2XR (Sprint)	150	800-10965 (ATI)	120
APXVAARR 24_43 (T-Mobile)	140	LGP2140X TMA (ATI)	120
APXVAARR 24_43 (T-Mobile)	140	LGP2140X TMA (ATI)	120
APXVAARR 24_43 (T-Mobile)	140	LGP2140X TMA (ATI)	120
AIR 6449 B41 (T-Mobile)	140	Ericsson RRUS-11 (ATI)	120
AIR 6449 B41 (T-Mobile)	140	Ericsson RRUS-11 (ATI)	120
AIR 6449 B41 (T-Mobile)	140	Ericsson RRUS-11 (ATI)	120
Radio 4424 B25 (T-Mobile)	140	(2) Ericsson RRUS-32 (ATI)	120
Radio 4424 B25 (T-Mobile)	140	(2) Ericsson RRUS-32 (ATI)	120
Radio 4415 (T-Mobile)	140	Radio 4426 (ATI)	120
Radio 4415 (T-Mobile)	140	Radio 4426 (ATI)	120
Radio 4415 (T-Mobile)	140	Radio 4426 (ATI)	120
Radio 4449 (T-Mobile)	140	(2) Radio 4478 (ATI)	120
Radio 4449 (T-Mobile)	140	(2) Radio 4478 (ATI)	120
Radio 4449 (T-Mobile)	140	(2) Radio 4478 (ATI)	120
TMA 8" x 10" (T-Mobile)	140	Raycap DC6-48-60-18-8F squid (ATI)	120
TMA 8" x 10" (T-Mobile)	140	Raycap DC6-48-60-18-8F squid (ATI)	120
TMA 8" x 10" (T-Mobile)	140	Raycap DC6-48-60-18-8F squid (ATI)	120
EEL 10' T-Arm (T-Mobile)	140	EEL 10' T-Arm (ATI)	120
EEL 10' T-Arm (T-Mobile)	140	EEL 10' T-Arm (ATI)	120
EEL 10' T-Arm (T-Mobile)	140	EEL 10' T-Arm (ATI)	120
Monopole Sector Stabilizer (T-Mobile)	140	7770.00 (ATI)	120
APX16DWV-16DWVS (T-Mobile)	140	(2) HPA-65R-BUJ-H6 (ATI)	120
Pine branches large (EEI)	140	(2) HPA-65R-BUJ-H6 (ATI)	120
APX16DWV-16DWVS (T-Mobile)	140	Pine branches large (EEI)	120
APX16DWV-16DWVS (T-Mobile)	140	7770.00 (ATI)	120
(2) JMA MX06FRO660-03 (Verizon Wireless)	130	7770.00 (ATI)	120
(2) JMA MX06FRO660-03 (Verizon Wireless)	130	Pine branches large (EEI)	110
MT6407-77A (Verizon Wireless)	130	Pine branches large (EEI)	100
MT6407-77A (Verizon Wireless)	130	Pine branches large (EEI)	90
MT6407-77A (Verizon Wireless)	130	Pine branches large (EEI)	80
B2/B66A RRHBR049 (RFV01U-D1A) (Verizon Wireless)	130		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			



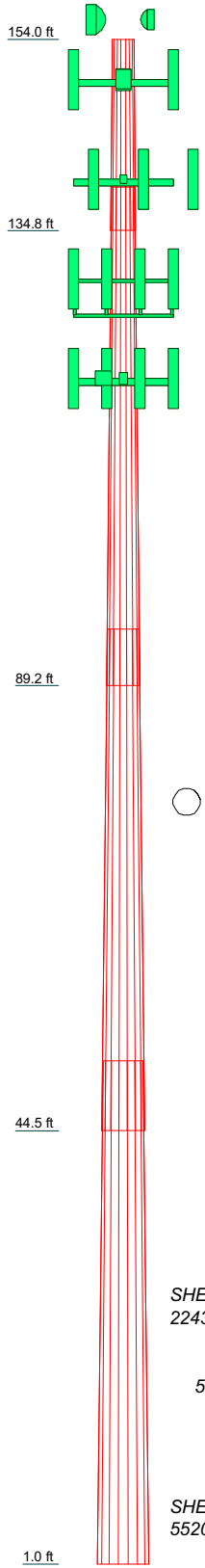
Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	19.17	18	0.1875	4.33	25.2500	30.0300		1065.7
2	50.00	18	0.3130	5.67	28.5753	40.9100		5819.6
3	50.29	18	0.5000	6.92	38.8652	51.2800	A572-65	12107.6
4	50.46	18	0.5630	48.5745	61.0000			16637.6
								35630.5

All-Points Technology Corp. Job: **153' Monopole Tower**
 567 Vauxhall St. Ext. Suite 311 Project: **CT141_11730 New Milford**
 Waterford, CT 06385 Client: **VzW Site #467734; New Milford West** Drawn by: **M. Larson** App'd:
 Phone: (860) 663-1697 Code: **TIA-222-G** Date: **08/05/21** Scale: **NTS**
 FAX: (860) 663-0935 Path: Dwg No. **E-1**

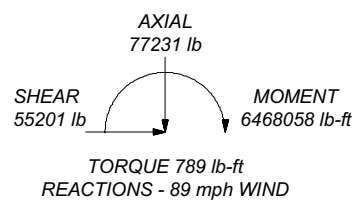
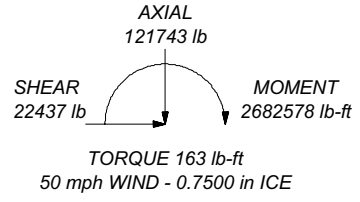
MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A572-65	65 ksi	80 ksi			

Section	Length (ft)	Number of Sides	Thickness (in)	Socket Length (ft)	Top Dia (in)	Bot Dia (in)	Grade	Weight (lb)
1	19.17	18	0.1875	4.33	25.2500	30.0300		1065.7
2	50.00	18	0.3130	5.67	28.5753	40.9100		5819.6
3	50.29	18	0.5000	6.92	38.8652	51.2800	A572-65	12107.6
4	50.46	18	0.5630	48.5745	61.0000			16637.6
								35630.5



ALL REACTIONS ARE FACTORED



All-Points Technology Corp.		Job: 153' Monopole Tower	
567 Vauxhall St. Ext. Suite 311		Project: CT141_11730 New Milford	
Waterford, CT 06385		Client: VzW Site #467734; New Milford West	Drawn by: M. Larson
Phone: (860) 663-1697		Code: TIA-222-G	Date: 08/05/21
FAX: (860) 663-0935		Path:	Scale: NTS
			Dwg No. E-1

Appendix B

Calculations

tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job 153' Monopole Tower	Page 1 of 9
	Project CT141_11730 New Milford	Date 13:54:51 08/05/21
	Client VzW Site #467734; New Milford West	Designed by M. Larson

Tower Input Data

The tower is a monopole.
 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 89 mph.
 Ultimate wind speed of 115 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.
 A non-linear (P-delta) analysis was used.
 Pressures are calculated at each section.
 Stress ratio used in pole design is 1.

Monopole Base Plate Data

Base Plate Data	
Base plate is square	
Base plate is grouted	
Anchor bolt grade	A615-75
Anchor bolt size	2.2500 in
Number of bolts	28
Embedment length	84.0000 in
f_c	4 ksi
Grout space	2.0000 in
Base plate grade	A572-60
Base plate thickness	3.0000 in
Bolt circle diameter	68.0000 in
Outer diameter	74.0000 in
Inner diameter	61.0000 in
Base plate type	Plain Plate

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		$C_d A_d$ ft ² /ft	Weight plf
7/8 (Town)	B	No	Yes	Inside Pole	154.00 - 5.00	3	No Ice	0.00	0.54
							1/2" Ice	0.00	0.54
							1" Ice	0.00	0.54
1-1/4" Hybrid fiber-power cable (Sprint)	B	No	Yes	Inside Pole	150.00 - 5.00	4	No Ice	0.00	1.30
							1/2" Ice	0.00	1.30
							1" Ice	0.00	1.30
1 5/8 (Sprint)	B	No	Yes	Inside Pole	150.00 - 5.00	9	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04

tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job	153' Monopole Tower	Page	2 of 9
	Project	CT141_11730 New Milford	Date	13:54:51 08/05/21
	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number		C _{AA} ft ² /ft	Weight plf
6x12 hybrid (T-Mobile)	B	No	Yes	Inside Pole	140.00 - 5.00	2	No Ice	0.00	1.88
							1/2" Ice	0.00	1.88
							1" Ice	0.00	1.88
1 5/8 (Verizon Wireless)	B	No	Yes	Inside Pole	130.00 - 5.00	6	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
12x24 LI (Verizon Wireless)	B	No	Yes	Inside Pole	130.00 - 5.00	1	No Ice	0.00	3.04
							1/2" Ice	0.00	3.04
							1" Ice	0.00	3.04
1 5/8 (AT&T)	B	No	Yes	Inside Pole	120.00 - 5.00	12	No Ice	0.00	1.04
							1/2" Ice	0.00	1.04
							1" Ice	0.00	1.04
5/16" Fiberoptic cable (AT&T)	C	No	Yes	Inside Pole	120.00 - 5.00	1	No Ice	0.00	0.25
							1/2" Ice	0.00	0.25
							1" Ice	0.00	0.25
3/4" power (AT&T)	C	No	Yes	Inside Pole	120.00 - 5.00	2	No Ice	0.00	0.58
							1/2" Ice	0.00	0.58
							1" Ice	0.00	0.58
3/8" safety cable	A	No	Yes	CaAa (Out Of Face)	154.00 - 5.00	1	No Ice	0.04	0.22
							1/2" Ice	0.14	0.83
							1" Ice	0.24	1.98

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C _{AA} Front ft ²	C _{AA} Side ft ²	Weight lb
5'x4 1/2" Pipe Mount (Motorola)	B	From Face	0.00	0.0000	156.00	No Ice	1.54	1.54	53.90
			0.00			1/2" Ice	2.08	2.08	69.94
			2.00			1" Ice	2.40	2.40	89.65
5'x4 1/2" Pipe Mount (Motorola)	C	From Face	0.00	0.0000	156.00	No Ice	1.54	1.54	53.90
			0.00			1/2" Ice	2.08	2.08	69.94
			2.00			1" Ice	2.40	2.40	89.65
BA40-41-DIN (Town)	A	From Leg	1.00	0.0000	154.00	No Ice	0.15	0.15	36.00
			0.00			1/2" Ice	0.22	0.22	38.07
			5.00			1" Ice	0.30	0.30	41.13
5'x4 1/2" Pipe Mount (Town)	A	From Leg	1.00	0.0000	154.00	No Ice	1.54	1.54	53.90
			0.00			1/2" Ice	2.08	2.08	69.94
			2.00			1" Ice	2.40	2.40	89.65
Valmont Uni-Tri bracket (Town)	A	None		0.0000	154.00	No Ice	1.75	1.75	29.00
						1/2" Ice	1.94	1.94	30.60
						1" Ice	2.13	2.13	32.30
DT465B-2XR (Sprint)	A	From Face	4.00	0.0000	150.00	No Ice	9.11	5.98	60.00
			0.00			1/2" Ice	9.58	6.44	118.08
			0.00			1" Ice	10.05	6.91	182.45
DT465B-2XR (Sprint)	B	From Face	4.00	0.0000	150.00	No Ice	9.11	5.98	60.00
			0.00			1/2" Ice	9.58	6.44	118.08
			0.00			1" Ice	10.05	6.91	182.45
DT465B-2XR (Sprint)	C	From Face	4.00	0.0000	150.00	No Ice	9.11	5.98	60.00
			0.00			1/2" Ice	9.58	6.44	118.08
			0.00			1" Ice	10.05	6.91	182.45
APXVSP18-C-A20 (Sprint)	A	From Face	4.00	0.0000	150.00	No Ice	8.02	5.28	107.00
			0.00			1/2" Ice	8.48	5.74	156.52
			0.00			1" Ice	8.94	6.20	212.12

tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job	153' Monopole Tower	Page	3 of 9
	Project	CT141_11730 New Milford	Date	13:54:51 08/05/21
	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
APXVSPPI8-C-A20 (Sprint)	B	From Face	4.00	0.0000	150.00	No Ice	8.02	5.28	107.00
			0.00			1/2" Ice	8.48	5.74	156.52
			0.00			1" Ice	8.94	6.20	212.12
APXVSPPI8-C-A20 (Sprint)	C	From Face	4.00	0.0000	150.00	No Ice	8.02	5.28	107.00
			0.00			1/2" Ice	8.48	5.74	156.52
			0.00			1" Ice	8.94	6.20	212.12
TD-RRH8x20-25 (Sprint)	A	From Face	3.50	0.0000	150.00	No Ice	4.05	1.53	75.00
			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
TD-RRH8x20-25 (Sprint)	B	From Face	3.50	0.0000	150.00	No Ice	4.05	1.53	75.00
			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
TD-RRH8x20-25 (Sprint)	C	From Face	3.50	0.0000	150.00	No Ice	4.05	1.53	75.00
			0.00			1/2" Ice	4.30	1.71	102.14
			0.00			1" Ice	4.56	1.90	132.80
ALU RRH4x40-1900 (Sprint)	A	From Face	3.50	0.0000	150.00	No Ice	3.26	2.49	90.00
			0.00			1/2" Ice	3.48	2.70	121.27
			0.00			1" Ice	3.72	2.91	156.18
ALU RRH4x40-1900 (Sprint)	B	From Face	3.50	0.0000	150.00	No Ice	3.26	2.49	90.00
			0.00			1/2" Ice	3.48	2.70	121.27
			0.00			1" Ice	3.72	2.91	156.18
ALU RRH4x40-1900 (Sprint)	C	From Face	3.50	0.0000	150.00	No Ice	3.26	2.49	90.00
			0.00			1/2" Ice	3.48	2.70	121.27
			0.00			1" Ice	3.72	2.91	156.18
(2) FD-RRH-2x50-800 (Sprint)	A	From Face	3.50	0.0000	150.00	No Ice	2.13	1.79	53.00
			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
(2) FD-RRH-2x50-800 (Sprint)	B	From Face	3.50	0.0000	150.00	No Ice	2.13	1.79	53.00
			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
(2) FD-RRH-2x50-800 (Sprint)	C	From Face	3.50	0.0000	150.00	No Ice	2.13	1.79	53.00
			0.00			1/2" Ice	2.32	1.96	74.30
			0.00			1" Ice	2.51	2.14	98.61
EEI 10' T-Arm (Sprint)	A	None		0.0000	150.00	No Ice	10.54	10.54	336.00
						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
EEI 10' T-Arm (Sprint)	B	None		0.0000	150.00	No Ice	10.54	10.54	336.00
						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
EEI 10' T-Arm (Sprint)	C	None		0.0000	150.00	No Ice	10.54	10.54	336.00
						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
APX16DWV-16DWVS (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice	6.08	2.00	25.00
			6.00			1/2" Ice	6.44	2.33	56.34
			0.00			1" Ice	6.80	2.66	92.36
APX16DWV-16DWVS (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice	6.08	2.00	25.00
			6.00			1/2" Ice	6.44	2.33	56.34
			0.00			1" Ice	6.80	2.66	92.36
APX16DWV-16DWVS (T-Mobile)	C	From Face	3.00	0.0000	140.00	No Ice	6.08	2.00	25.00
			6.00			1/2" Ice	6.44	2.33	56.34
			0.00			1" Ice	6.80	2.66	92.36
APXVAARR 24_43 (T-Mobile)	A	From Face	3.00	0.0000	140.00	No Ice	20.24	8.89	75.00
			-6.00			1/2" Ice	20.89	9.49	187.59
			0.00			1" Ice	21.54	10.09	308.72
APXVAARR 24_43 (T-Mobile)	B	From Face	3.00	0.0000	140.00	No Ice	20.24	8.89	75.00
			-6.00			1/2" Ice	20.89	9.49	187.59
			0.00			1" Ice	21.54	10.09	308.72

tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job	153' Monopole Tower	Page	4 of 9
	Project	CT141_11730 New Milford	Date	13:54:51 08/05/21
	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
APXVAARR 24_43 (T-Mobile)	C	From Face	3.00	0.0000		140.00	No Ice 20.24	8.89	75.00
			-6.00				1/2" Ice 20.89	9.49	187.59
			0.00				1" Ice 21.54	10.09	308.72
AIR 6449 B41 (T-Mobile)	A	From Face	3.00	0.0000		140.00	No Ice 5.68	2.49	128.00
			-2.00				1/2" Ice 5.98	2.72	167.12
			0.00				1" Ice 6.29	2.95	210.46
AIR 6449 B41 (T-Mobile)	B	From Face	3.00	0.0000		140.00	No Ice 5.68	2.49	128.00
			-2.00				1/2" Ice 5.98	2.72	167.12
			0.00				1" Ice 6.29	2.95	210.46
AIR 6449 B41 (T-Mobile)	C	From Face	3.00	0.0000		140.00	No Ice 5.68	2.49	128.00
			-2.00				1/2" Ice 5.98	2.72	167.12
			0.00				1" Ice 6.29	2.95	210.46
Radio 4424 B25 (T-Mobile)	A	From Face	3.00	0.0000		140.00	No Ice 1.86	1.32	93.00
			-6.00				1/2" Ice 2.03	1.47	110.87
			0.00				1" Ice 2.20	1.62	131.50
Radio 4424 B25 (T-Mobile)	B	From Face	3.00	0.0000		140.00	No Ice 1.86	1.32	93.00
			-6.00				1/2" Ice 2.03	1.47	110.87
			0.00				1" Ice 2.20	1.62	131.50
Radio 4424 B25 (T-Mobile)	C	From Face	3.00	0.0000		140.00	No Ice 1.86	1.32	93.00
			-6.00				1/2" Ice 2.03	1.47	110.87
			0.00				1" Ice 2.20	1.62	131.50
Radio 4415 (T-Mobile)	A	From Face	3.00	0.0000		140.00	No Ice 1.64	0.68	50.00
			6.00				1/2" Ice 1.80	0.79	62.41
			0.00				1" Ice 1.97	0.91	77.18
Radio 4415 (T-Mobile)	B	From Face	3.00	0.0000		140.00	No Ice 1.64	0.68	50.00
			6.00				1/2" Ice 1.80	0.79	62.41
			0.00				1" Ice 1.97	0.91	77.18
Radio 4415 (T-Mobile)	C	From Face	3.00	0.0000		140.00	No Ice 1.64	0.68	50.00
			6.00				1/2" Ice 1.80	0.79	62.41
			0.00				1" Ice 1.97	0.91	77.18
Radio 4449 (T-Mobile)	A	From Face	3.00	0.0000		140.00	No Ice 1.65	1.16	80.00
			-6.00				1/2" Ice 1.81	1.30	96.16
			0.00				1" Ice 1.98	1.45	114.95
Radio 4449 (T-Mobile)	B	From Face	3.00	0.0000		140.00	No Ice 1.65	1.16	80.00
			-6.00				1/2" Ice 1.81	1.30	96.16
			0.00				1" Ice 1.98	1.45	114.95
Radio 4449 (T-Mobile)	C	From Face	3.00	0.0000		140.00	No Ice 1.65	1.16	80.00
			-6.00				1/2" Ice 1.81	1.30	96.16
			0.00				1" Ice 1.98	1.45	114.95
TMA 8" x 10" (T-Mobile)	A	From Face	3.00	0.0000		140.00	No Ice 0.67	0.26	12.00
			0.00				1/2" Ice 0.77	0.33	17.06
			0.00				1" Ice 0.88	0.41	23.67
TMA 8" x 10" (T-Mobile)	B	From Face	3.00	0.0000		140.00	No Ice 0.67	0.26	12.00
			0.00				1/2" Ice 0.77	0.33	17.06
			0.00				1" Ice 0.88	0.41	23.67
TMA 8" x 10" (T-Mobile)	C	From Face	3.00	0.0000		140.00	No Ice 0.67	0.26	12.00
			0.00				1/2" Ice 0.77	0.33	17.06
			0.00				1" Ice 0.88	0.41	23.67
EEI 10' T-Arm (T-Mobile)	A	None		0.0000		140.00	No Ice 10.54	10.54	336.00
							1/2" Ice 14.45	14.45	412.00
							1" Ice 18.36	18.36	488.00
EEI 10' T-Arm (T-Mobile)	B	None		0.0000		140.00	No Ice 10.54	10.54	336.00
							1/2" Ice 14.45	14.45	412.00
							1" Ice 18.36	18.36	488.00
EEI 10' T-Arm (T-Mobile)	C	None		0.0000		140.00	No Ice 10.54	10.54	336.00
							1/2" Ice 14.45	14.45	412.00
							1" Ice 18.36	18.36	488.00

tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job	153' Monopole Tower	Page	5 of 9
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	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Lateral Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
Monopole Sector Stabilizer (T-Mobile)	A	None			0.0000	140.00	No Ice 9.00 1/2" Ice 11.50 1" Ice 14.00	9.00 11.50 14.00	35.00 42.50 50.00
LNX-8513DS-A1M (Verizon Wireless)	A	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 14.30 1/2" Ice 14.88 1" Ice 15.47	11.70 12.26 12.82	75.00 177.00 287.01
LNX-8513DS-A1M (Verizon Wireless)	B	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 14.30 1/2" Ice 14.88 1" Ice 15.47	11.70 12.26 12.82	75.00 177.00 287.01
LNX-8513DS-A1M (Verizon Wireless)	C	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 14.30 1/2" Ice 14.88 1" Ice 15.47	11.70 12.26 12.82	75.00 177.00 287.01
(2) JMA MX06FRO660-03 (Verizon Wireless)	A	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 9.87 1/2" Ice 10.34 1" Ice 10.82	7.34 7.78 8.24	65.00 133.84 209.18
(2) JMA MX06FRO660-03 (Verizon Wireless)	B	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 9.87 1/2" Ice 10.34 1" Ice 10.82	7.34 7.78 8.24	65.00 133.84 209.18
(2) JMA MX06FRO660-03 (Verizon Wireless)	C	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 9.87 1/2" Ice 10.34 1" Ice 10.82	7.34 7.78 8.24	65.00 133.84 209.18
MT6407-77A (Verizon Wireless)	A	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 4.69 1/2" Ice 4.98 1" Ice 5.28	1.84 2.06 2.29	90.00 119.24 152.35
MT6407-77A (Verizon Wireless)	B	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 4.69 1/2" Ice 4.98 1" Ice 5.28	1.84 2.06 2.29	90.00 119.24 152.35
MT6407-77A (Verizon Wireless)	C	From Face	4.00 0.00 0.00		0.0000	130.00	No Ice 4.69 1/2" Ice 4.98 1" Ice 5.28	1.84 2.06 2.29	90.00 119.24 152.35
B2/B66A RRHBRO49 (RFV01U-D1A) (Verizon Wireless)	A	From Face	3.50 0.00 0.00		0.0000	130.00	No Ice 1.88 1/2" Ice 2.05 1" Ice 2.22	1.25 1.39 1.54	85.00 103.34 124.47
B2/B66A RRHBRO49 (RFV01U-D1A) (Verizon Wireless)	B	From Face	3.50 0.00 0.00		0.0000	130.00	No Ice 1.88 1/2" Ice 2.05 1" Ice 2.22	1.25 1.39 1.54	85.00 103.34 124.47
B2/B66A RRHBRO49 (RFV01U-D1A) (Verizon Wireless)	C	From Face	3.50 0.00 0.00		0.0000	130.00	No Ice 1.88 1/2" Ice 2.05 1" Ice 2.22	1.25 1.39 1.54	85.00 103.34 124.47
B5/B13 RRHBR04C (RFV01UD2A) (Verizon Wireless)	A	From Face	3.50 0.00 0.00		0.0000	130.00	No Ice 1.88 1/2" Ice 2.05 1" Ice 2.22	1.01 1.14 1.28	100.00 116.43 135.53
B5/B13 RRHBR04C (RFV01UD2A) (Verizon Wireless)	B	From Face	3.50 0.00 0.00		0.0000	130.00	No Ice 1.88 1/2" Ice 2.05 1" Ice 2.22	1.01 1.14 1.28	100.00 116.43 135.53
B5/B13 RRHBR04C (RFV01UD2A) (Verizon Wireless)	C	From Face	3.50 0.00 0.00		0.0000	130.00	No Ice 1.88 1/2" Ice 2.05 1" Ice 2.22	1.01 1.14 1.28	100.00 116.43 135.53
DB-C1-12X-24AB-0Z D-box (Verizon Wireless)	A	None			0.0000	130.00	No Ice 4.06 1/2" Ice 4.32 1" Ice 4.58	3.10 3.34 3.58	38.00 74.49 114.97
EEl 10' T-Arm w/ Reinforcements (Verizon Wireless)	A	None			0.0000	128.00	No Ice 13.50 1/2" Ice 17.00 1" Ice 20.50	13.50 17.00 20.50	500.00 650.00 800.00
EEl 10' T-Arm w/ Reinforcements (Verizon Wireless)	C	None			0.0000	128.00	No Ice 13.50 1/2" Ice 17.00 1" Ice 20.50	13.50 17.00 20.50	500.00 650.00 800.00

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	Project	CT141_11730 New Milford	Date	13:54:51 08/05/21
	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
					°	ft	ft ²	ft ²	lb
EEI 10' T-Arm w/ Reinforcements (Verizon Wireless)	C	None			0.0000	128.00	No Ice 13.50 1/2" Ice 17.00 1" Ice 20.50	No Ice 13.50 1/2" Ice 17.00 1" Ice 20.50	500.00 650.00 800.00
7770.00 (AT&T)	A	From Face	3.00 -2.00 0.00		0.0000	120.00	No Ice 5.51 1/2" Ice 5.87 1" Ice 6.23	2.93 3.27 3.63	35.00 67.63 105.06
7770.00 (AT&T)	B	From Face	3.00 -2.00 0.00		0.0000	120.00	No Ice 5.51 1/2" Ice 5.87 1" Ice 6.23	2.93 3.27 3.63	35.00 67.63 105.06
7770.00 (AT&T)	C	From Face	3.00 -2.00 0.00		0.0000	120.00	No Ice 5.51 1/2" Ice 5.87 1" Ice 6.23	2.93 3.27 3.63	35.00 67.63 105.06
(2) HPA-65R-BUU-H6 (AT&T)	A	From Face	3.00 0.00 0.00		0.0000	120.00	No Ice 9.66 1/2" Ice 10.13 1" Ice 10.61	6.45 6.91 7.38	55.00 117.99 187.38
(2) HPA-65R-BUU-H6 (AT&T)	B	From Face	3.00 0.00 0.00		0.0000	120.00	No Ice 9.66 1/2" Ice 10.13 1" Ice 10.61	6.45 6.91 7.38	55.00 117.99 187.38
(2) HPA-65R-BUU-H6 (AT&T)	C	From Face	3.00 0.00 0.00		0.0000	120.00	No Ice 9.66 1/2" Ice 10.13 1" Ice 10.61	6.45 6.91 7.38	55.00 117.99 187.38
800-10965 (AT&T)	A	From Face	3.00 2.00 0.00		0.0000	120.00	No Ice 13.81 1/2" Ice 14.35 1" Ice 14.89	5.83 6.32 6.82	45.00 121.53 205.11
800-10965 (AT&T)	B	From Face	3.00 2.00 0.00		0.0000	120.00	No Ice 13.81 1/2" Ice 14.35 1" Ice 14.89	5.83 6.32 6.82	45.00 121.53 205.11
800-10966 (AT&T)	C	From Face	3.00 2.00 0.00		0.0000	120.00	No Ice 17.36 1/2" Ice 17.99 1" Ice 18.63	7.50 8.09 8.69	125.00 217.18 317.51
LGP2140X TMA (AT&T)	A	From Face	3.00 0.00 0.00		0.0000	120.00	No Ice 1.08 1/2" Ice 1.21 1" Ice 1.35	0.36 0.45 0.56	20.00 27.13 36.14
LGP2140X TMA (AT&T)	B	From Face	3.00 0.00 0.00		0.0000	120.00	No Ice 1.08 1/2" Ice 1.21 1" Ice 1.35	0.36 0.45 0.56	20.00 27.13 36.14
LGP2140X TMA (AT&T)	C	From Face	3.00 0.00 0.00		0.0000	120.00	No Ice 1.08 1/2" Ice 1.21 1" Ice 1.35	0.36 0.45 0.56	20.00 27.13 36.14
Ericsson RRUS-11 (AT&T)	A	From Face	1.00 2.00 0.00		0.0000	120.00	No Ice 2.79 1/2" Ice 3.00 1" Ice 3.21	1.02 1.16 1.30	55.00 75.86 99.77
Ericsson RRUS-11 (AT&T)	B	From Face	1.00 2.00 0.00		0.0000	120.00	No Ice 2.79 1/2" Ice 3.00 1" Ice 3.21	1.02 1.16 1.30	55.00 75.86 99.77
Ericsson RRUS-11 (AT&T)	C	From Face	1.00 2.00 0.00		0.0000	120.00	No Ice 2.79 1/2" Ice 3.00 1" Ice 3.21	1.02 1.16 1.30	55.00 75.86 99.77
(2) Ericsson RRUS-32 (AT&T)	A	From Face	1.00 2.00 0.00		0.0000	120.00	No Ice 3.31 1/2" Ice 3.56 1" Ice 3.81	2.42 2.64 2.86	80.00 107.93 139.47
(2) Ericsson RRUS-32 (AT&T)	B	From Face	1.00 2.00 0.00		0.0000	120.00	No Ice 3.31 1/2" Ice 3.56 1" Ice 3.81	2.42 2.64 2.86	80.00 107.93 139.47
(2) Ericsson RRUS-32 (AT&T)	C	From Face	1.00 2.00 0.00		0.0000	120.00	No Ice 3.31 1/2" Ice 3.56 1" Ice 3.81	2.42 2.64 2.86	80.00 107.93 139.47

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	Project	CT141_11730 New Milford	Date	13:54:51 08/05/21
	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			Horz	Vert					
			ft	ft	°	ft	ft ²	ft ²	lb
Radio 4426 (AT&T)	A	From Face	1.00	0.0000	120.00	No Ice	1.63	0.72	50.00
			2.00			1/2" Ice	1.79	0.84	62.72
			0.00			1" Ice	1.95	0.96	77.82
Radio 4426 (AT&T)	B	From Face	1.00	0.0000	120.00	No Ice	1.63	0.72	50.00
			2.00			1/2" Ice	1.79	0.84	62.72
			0.00			1" Ice	1.95	0.96	77.82
Radio 4426 (AT&T)	C	From Face	1.00	0.0000	120.00	No Ice	1.63	0.72	50.00
			2.00			1/2" Ice	1.79	0.84	62.72
			0.00			1" Ice	1.95	0.96	77.82
(2) Radio 4478 (AT&T)	A	From Face	1.00	0.0000	120.00	No Ice	1.86	1.06	65.00
			2.00			1/2" Ice	2.03	1.20	80.96
			0.00			1" Ice	2.20	1.34	99.56
(2) Radio 4478 (AT&T)	B	From Face	1.00	0.0000	120.00	No Ice	1.86	1.06	65.00
			2.00			1/2" Ice	2.03	1.20	80.96
			0.00			1" Ice	2.20	1.34	99.56
(2) Radio 4478 (AT&T)	C	From Face	1.00	0.0000	120.00	No Ice	1.86	1.06	65.00
			2.00			1/2" Ice	2.03	1.20	80.96
			0.00			1" Ice	2.20	1.34	99.56
Raycap DC6-48-60-18-8F squid (AT&T)	A	From Face	0.50	0.0000	120.00	No Ice	0.74	0.74	30.00
			0.00			1/2" Ice	1.20	1.20	44.34
			0.00			1" Ice	1.37	1.37	60.93
Raycap DC6-48-60-18-8F squid (AT&T)	B	From Face	0.50	0.0000	120.00	No Ice	0.74	0.74	30.00
			0.00			1/2" Ice	1.20	1.20	44.34
			0.00			1" Ice	1.37	1.37	60.93
Raycap DC6-48-60-18-8F squid (AT&T)	C	From Face	0.50	0.0000	120.00	No Ice	0.74	0.74	30.00
			0.00			1/2" Ice	1.20	1.20	44.34
			0.00			1" Ice	1.37	1.37	60.93
EEI 10' T-Arm (AT&T)	A	None		0.0000	120.00	No Ice	10.54	10.54	336.00
						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
EEI 10' T-Arm (AT&T)	B	None		0.0000	120.00	No Ice	10.54	10.54	336.00
						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
EEI 10' T-Arm (AT&T)	C	None		0.0000	120.00	No Ice	10.54	10.54	336.00
						1/2" Ice	14.45	14.45	412.00
						1" Ice	18.36	18.36	488.00
Pine branches large (EEI)	C	None		0.0000	150.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	140.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	130.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	120.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	110.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	100.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00
Pine branches large (EEI)	C	None		0.0000	90.00	No Ice	90.00	90.00	1500.00
						1/2" Ice	130.00	130.00	1900.00
						1" Ice	170.00	170.00	2300.00

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	Project	CT141_11730 New Milford	Date	13:54:51 08/05/21
	Client	VzW Site #467734; New Milford West	Designed by	M. Larson

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	C _{AA} Front	C _{AA} Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	lb
Pine branches large (EEI)	C	None		0.0000	80.00	No Ice 1/2" Ice 1" Ice	90.00 130.00 170.00	1500.00 1900.00 2300.00

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight	
				ft ft ft	°	°	ft	ft	ft ²	lb	
2' HP dish	B	Paraboloid w/Shroud (HP)	From Leg	1.00 0.00 0.00	Worst		156.00	2.00	No Ice 1/2" Ice 1" Ice	3.14 3.41 3.68	50.00 67.50 85.00
3' HP dish	C	Paraboloid w/Shroud (HP)	From Leg	1.00 0.00 0.00	Worst		156.00	3.00	No Ice 1/2" Ice 1" Ice	7.07 7.47 7.86	75.00 113.33 153.33

Solution Summary

Maximum Tower Deflections - Service Wind

Section No.	Elevation	Horz. Deflection	Gov. Load Comb.	Tilt	Twist
	ft	in		°	°
L1	154 - 134.83	24.209	45	1.3554	0.0012
L2	139.16 - 89.16	20.020	45	1.3296	0.0008
L3	94.83 - 44.54	9.105	45	0.9246	0.0003
L4	51.46 - 1	2.610	45	0.4747	0.0001

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load Comb.	Deflection	Tilt	Twist	Radius of Curvature
ft			in	°	°	ft
156.00	2' HP dish	45	24.209	1.3554	0.0012	38712
154.00	BA40-41-DIN	45	24.209	1.3554	0.0012	38712
150.00	DT465B-2XR	45	23.072	1.3520	0.0011	38712
140.00	APX16DWV-16DWVS	45	20.254	1.3326	0.0008	14043
130.00	LNx-8513DS-A1M	45	17.519	1.2805	0.0006	9747
128.00	EEI 10' T-Arm w/ Reinforcements	45	16.985	1.2662	0.0006	9236
120.00	7770.00	45	14.907	1.1983	0.0005	7635
110.00	Pine branches large (EEI)	45	12.452	1.0958	0.0004	6274
100.00	Pine branches large (EEI)	45	10.189	0.9834	0.0003	5325
90.00	Pine branches large (EEI)	45	8.151	0.8708	0.0003	4907
80.00	Pine branches large (EEI)	45	6.357	0.7628	0.0002	4842

tnxTower All-Points Technology Corp. 567 Vauxhall St. Ext. Suite 311 Waterford, CT 06385 Phone: (860) 663-1697 FAX: (860) 663-0935	Job 153' Monopole Tower	Page 9 of 9
	Project CT141_11730 New Milford	Date 13:54:51 08/05/21
	Client VzW Site #467734; New Milford West	Designed by M. Larson

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
L1	154 - 134.83	95.659	14	5.3593	0.0050
L2	139.16 - 89.16	79.115	14	5.2579	0.0032
L3	94.83 - 44.54	35.996	14	3.6571	0.0011
L4	51.46 - 1	10.318	14	1.8770	0.0004

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
156.00	2' HP dish	14	95.659	5.3593	0.0050	9974
154.00	BA40-41-DIN	14	95.659	5.3593	0.0050	9974
150.00	DT465B-2XR	14	91.166	5.3463	0.0045	9974
140.00	APX16DWV-16DWVS	14	80.037	5.2696	0.0033	3616
130.00	LNx-8513DS-A1M	14	69.235	5.0640	0.0024	2503
128.00	EEl 10' T-Arm w/ Reinforcements	14	67.129	5.0073	0.0023	2371
120.00	7770.00	14	58.918	4.7389	0.0018	1956
110.00	Pine branches large (EEl)	14	49.221	4.3341	0.0015	1605
100.00	Pine branches large (EEl)	14	40.279	3.8895	0.0012	1359
90.00	Pine branches large (EEl)	14	32.223	3.4441	0.0010	1250
80.00	Pine branches large (EEl)	14	25.131	3.0170	0.0008	1231

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	ϕP_{allow} lb	% Capacity	Pass Fail	
L1	154 - 134.83	Pole	TP30.03x25.25x0.1875	1	-9434.55	1101640.00	17.2	Pass	
L2	134.83 - 89.16	Pole	TP40.91x28.5753x0.313	2	-30767.60	2710570.00	71.5	Pass	
L3	89.16 - 44.54	Pole	TP51.28x38.8852x0.5	3	-50855.70	5786180.00	64.9	Pass	
L4	44.54 - 1	Pole	TP61x48.5745x0.563	4	-77189.70	7877160.00	67.2	Pass	
							Summary		
							Pole (L2)	71.5	Pass
							Base Plate	71.7	Pass
							RATING =	71.7	Pass

All-Points Technology Corp., P.C.

567 Vauxhall St. Ext., Suite 311
 Waterford, CT 06385
 (860) 663-1697

Client: **Verizon Wireless**
 Job: **New Milford West**
 Calculated By: **A. Adair**

Site No.: **New Milford W CT**
 Job No.: **CT141_11730**
 Date: **8/5/2021**

Program assumes:

Mat is square in plan view.
 Water table is below bottom of mat.
 Unit weight of concrete = 150 pcf
 Unit weight of soil = 100 pcf

Information to be provided:

Pier is round or square in plan dimension ("R" or "S")	Shape =	R
OTM = Overturning Moment to be resisted	OTM =	6468 ft-kips
P = Download reaction	P =	74.2 kips
H = Height from ground surface to top of mat (if buried)	H =	2.5 ft.
P _M = Projection of pier above mat	P _M =	3.5 ft.
y = Thickness of mat	y =	4.00 ft.
x = Width of mat	x =	32.00 ft.
d = Diameter of round pier	d =	7.5 ft.
Mass of tower and appurtenances (below)		

Results:

<u>Component</u>	<u>Mass</u>	<u>Moment Arm</u>	<u>Moment Resist.</u>
Pier	20.9 kips	16 ft.	334.0 ft-kips
Overburden	242.2 kips	16 ft.	3874.7 ft-kips
Mat	553.0 kips	16 ft.	8847.4 ft-kips
Tower Dead Load	kips	16 ft.	0.0 ft-kips
Antenna Dead Load	kips	16 ft.	0.0 ft-kips

Overturning Moment Resistance : 13056.04 ft-kips
 Factor of Safety = 2.02
 Concrete Quantity = 161.5 c.y.

SATISFACTORY



GPD Engineering And Architecture Professional Corporation
520 South Main Street, Suite 2531
Akron, OH 44311

Maser Consulting Contact:
Peter.albano@colliersengineering.com
(856)371-9457

Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10082846
GPD Project #: 2021740.467734.02
Maser Project #: 20777375

June 30, 2021

Site Information

Site ID: 467734-VZW / New Milford West
Site Name: New Milford W CT
Carrier Name: Verizon Wireless
Address: 86 BOARDMAN ROAD
NEW MILFORD, CONNECTICUT 6776, LITCHFIELD COUNTY
Latitude: 41.599411°
Longitude: -73.437478°

Structure Information

Tower Type: 150-Ft Monopole
Mount Type: 10.00-Ft T-Arm

FUZE ID # 16244606

Analysis Results

T-Arm: 51.7% Pass

***Contractor PMI Requirements:

Included at the end of this MA report

Available & Submitted via portal at <https://pmi.vzwsmart.com>

Contractor - Please Review Specific Site PMI Requirements Upon Award

Requirements also Noted on Mount Modification Drawings

Requirements may also be Noted on A & E drawings

Report Prepared by: Eric Nieto

Respectfully Submitted by:



Christopher J. Scheks, P.E.
Connecticut #: 0030026

6/30/2021

Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

This analysis is inclusive of the mount structure only and does not address the structural capacity of the supporting structure. This mounting frame was not analyzed as an anchor attachment point for fall protection. All climbing activities are required to have a fall protection plan completed by a competent person.

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 324472, dated 10/27/2020
Mount Mapping Report	Structural Components Site #: 20777375, dated 5/20/2021
Previous Mount Analysis Report	GPD Project #: 2021740.467734.01, dated 6/25/2021
Proposed Mount Modification Design	GPD Project #: 2021740.467734.02 Rev. 0, dated 6/30/2021

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} :	114 mph
	Ice Wind Speed (3-sec. Gust):	40 mph
Desi	gn Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
Topo	graphic Category:	1
Topo	graphic Feature Considered:	N/A
Topo	graphic Method:	N/A
	Ground Elevation Factor, K_e :	0.979
Seismic Parameters:	Ss:	0.197
S	1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, L_v :	250 lbs.
	Maintenance Live Load, L_m :	250 lbs.*
Analysis Software:	*Reduced as allowed per ANSI/TIA-222-H 16.9 RISA-3D (V17.0.2)	

Final Loading Configuration:

The following equipment has been considered for the analysis of the mounts:

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
128.00	130.00	6	JMA Wireless	MX06FRO660-03	Added
		3	Samsung	MT6407-77A	
		1	RFS	DB-C1-12C-24AB-0Z	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		3	Andrew	LNx-8513DS-AIM	Retained

The recent mount mapping reported existing OVP units. It is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required unless replacing an existing OVP.

Model Number	Ports	AKA
DB-B1-6C-12AB-0Z	6	OVP-6
RVZDC-6627-PF-48	12	OVP-12

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to GPD and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation and field observations. Any deviation from the loading locations specified in this report shall be communicated to GPD to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping and reported in the Mount Mapping Report are assumed to be corrected and documented as part of the PMI process and are not considered in the mount analysis.

The mount analysis and the mount mapping are not a condition assessment of the mount. Proper maintenance and condition assessments are still required post analysis.

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped by GPD, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. GPD is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - HSS (Rectangular) ASTM 500 (Gr. B-46)
 - Pipe ASTM A53 (Gr. B-35)
 - Threaded Rod ASTM A307
 - Bolts ASTM A325
8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

Discrepancies between in-field conditions and the assumptions listed above may render this analysis invalid unless explicitly approved by GPD.

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	22.3 %	Pass
Face Horizontal	14.7 %	Pass
Mount Pipe (P2STD)	26.2 %	Pass
Mount Pipe (P2.5STD)	40.6 %	Pass
Reinforcement Standoff	36.5 %	Pass
Reinforcement Face	32.2 %	Pass
Mount Connection	51.7 %	Pass

Structure Rating – (Controlling Utilization of all Components)	51.7%*
---	---------------

*The mount has been found structurally adequate for all steel and external connection capacities. Serviceability in accordance with TIA-222-H Section 4.9.11.3 has not been considered.

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

ANSI/ASSP rigging plan review services compliant with the requirements of ANSI/TIA 322 are available for a Construction Class IV site or other, if required. Separate review fees will apply.

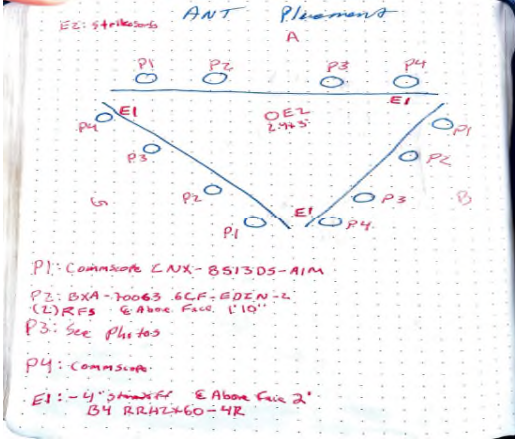
Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
- 4. Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption Wind Speed Letter



	Antenna Mount Mapping Form (PATENT PENDING)			FCC #
				N/A
Tower Owner:	Unknown	Mapping Date:	5/20/2021	
Site Name:	New Milford West	Tower Type:	Other	
Site Number or ID:	20777375	Tower Height (Ft.):	150	
Mapping Contractor:	TEP	Mount Elevation (Ft.):	130	

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Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	2.4"Øx0.154"x5'-0"	44.00	3.50	C1	2.4"Øx0.154"x5'-0"	44.00	3.50
A2	2.4"Øx0.154"x5'-0"	44.00	27.50	C2	2.4"Øx0.154"x5'-0"	44.00	27.50
A3	2.4"Øx0.154"x6'-0"	46.00	74.50	C3	2.4"Øx0.154"x6'-0"	46.00	74.50
A4	2.4"Øx0.154"x5'-0"	44.50	116.50	C4	2.4"Øx0.154"x5'-0"	44.50	116.50
A5				C5			
A6				C6			
B1	2.4"Øx0.154"x5'-0"	44.00	3.50	D1			
B2	2.4"Øx0.154"x5'-0"	44.00	27.50	D2			
B3	2.4"Øx0.154"x6'-0"	46.00	74.50	D3			
B4	2.4"Øx0.154"x5'-0"	44.50	116.50	D4			
B5				D5			
B6				D6			

Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. : 0.00

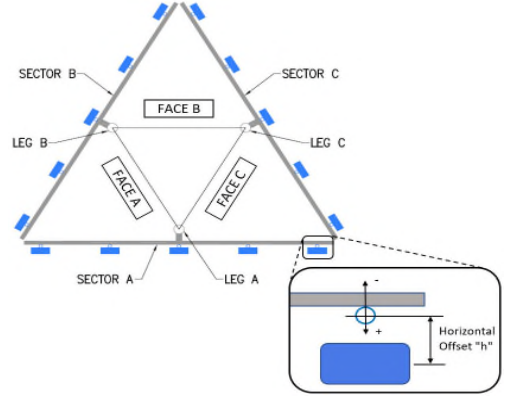
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.): 60

Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.): 126

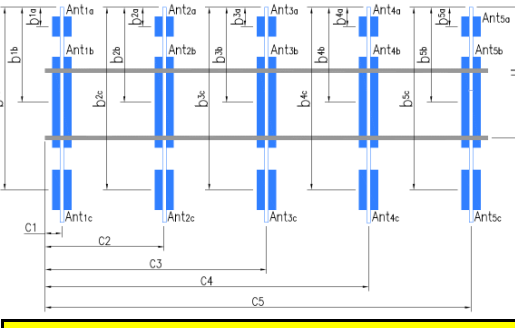
Please enter additional information or comments below.

Coax: (12) 1 5/8" FH, (1) 1 1/2"Ø Hybrid

Tower Face Width at Mount Elev. (ft.): _____ Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.): 23.5



Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]				Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b _{1a} , b _{2a} , b _{3a} , b _{1b} ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	
Sector A										
Ant _{1a}										
Ant _{1b}	LNX-8513DS-AIM	11.90	7.10	72.70	1) 1 5/8" F	132	20.00	4.00	10.00	26-28
Ant _{1c}										
Ant _{2a}	RFS Diplexor	6.25	1.00	4.75		131.667	24.00	2.00		38
Ant _{2b}	BXA-70063 6CF-EDIN-	11.30	6.00	71.00	1) 1 5/8" F	130.917	33.00	6.50	20.00	29-31
Ant _{2c}	RFS Diplexor					131.667	24.00	-2.00		39
Ant _{3a}										
Ant _{3b}	HBXX-6517DS-A2M	12.00	6.50	75.00	1) 1 5/8" F	131.333	30.00	5.50	20.00	32-34
Ant _{3c}										
Ant _{4a}										
Ant _{4b}	HBXX-6517DS-A2M	12.00	6.50	75.00	1) 1 5/8" F	132.042	20.00	5.50	10.00	35-36
Ant _{4c}	B4 RRH2x60-4R	10.60	5.70	36.60		132.042	20.00			40-42
Ant _{5a}										
Ant _{5b}										
Ant _{5c}										
Ant on Standoff	RRFDC-3315-PF-48	15.70	10.30	28.90	1) 1 1/2"Ø					88-90
Ant on Standoff										
Ant on Tower										
Ant on Tower										



Antenna Layout (Looking Out From Tower)

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
2. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.
3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.
4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.
5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.
6. Please measure and report the size and length of all existing antenna mounting pipes.
7. Please measure and report the antenna information for all sectors.
8. Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

Standard Conditions

1. Obvious safety and structural issues/deficiencies noticed at the time of the mount mapping are to be reported in this mapping. However, this mount mapping is not a condition assessment of the mount.



Antenna Mount Mapping Form (PATENT PENDING)

FCC #
N/A

Tower Owner:	Unknown	Mapping Date:	5/20/2021
Site Name:	New Milford West	Tower Type:	Other
Site Number or ID:	20777375	Tower Height (Ft.):	150
Mapping Contractor:	TEP	Mount Elevation (Ft.):	130

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Please Insert Sketches of the Antenna Mount

New Milford West Kennedy
 Bill
 5-20-21
 Combo: 5000

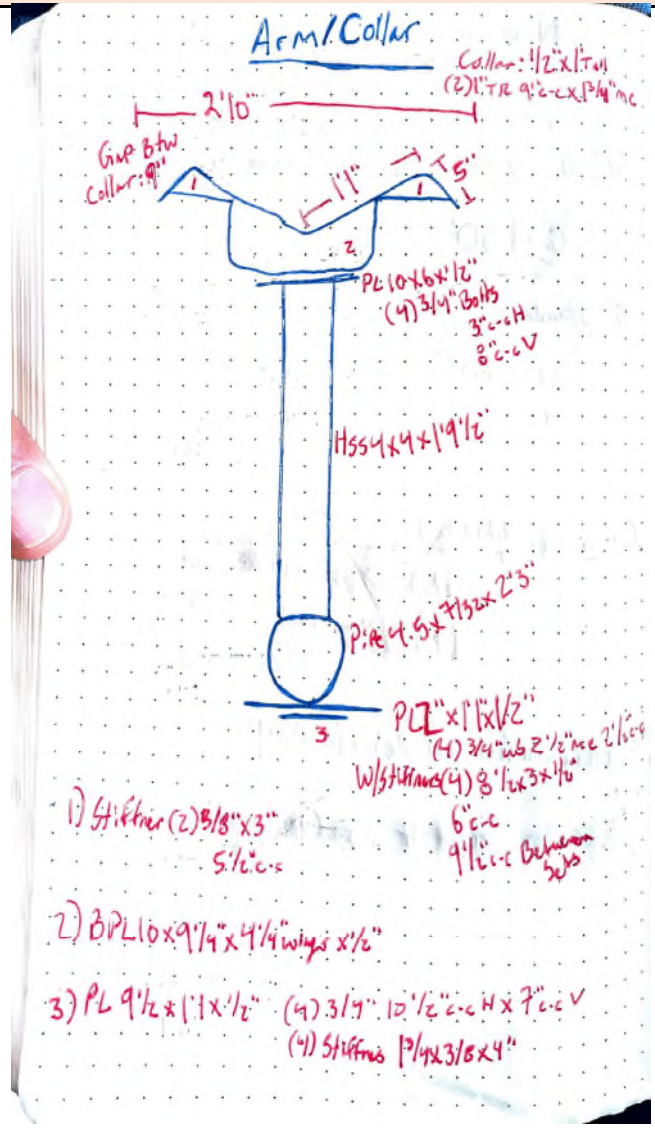
VZw MT Mapping

MT E: 130°
 MT Standoff: 3'1"
 A fix Az: @ 60°

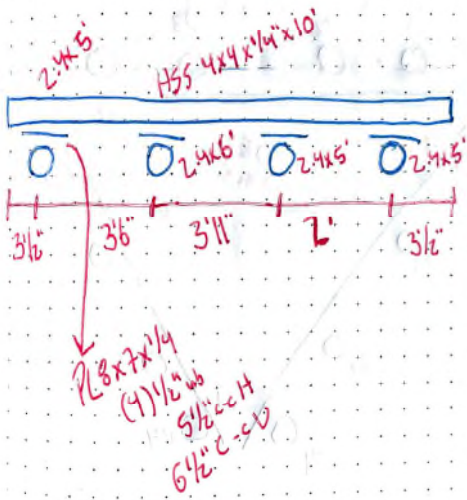
Coxi (All inside)

(12) 2" Ø FH (1) Per. Ant
 (1) 1 1/2" Ø FH

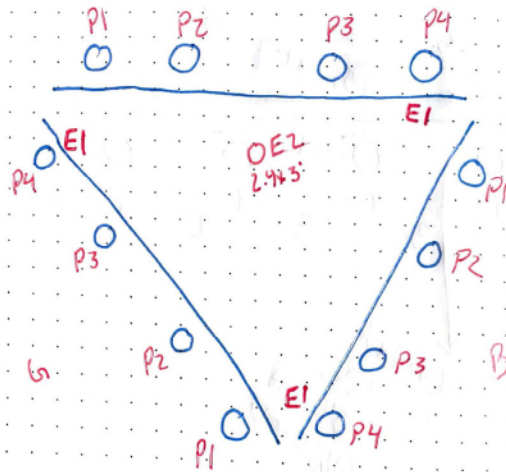
Separation from MT Below (Att): 9'2"
 Separation from Mt alone (Tumble): 1'2"



Face



ANT Placement
E2: strike 506



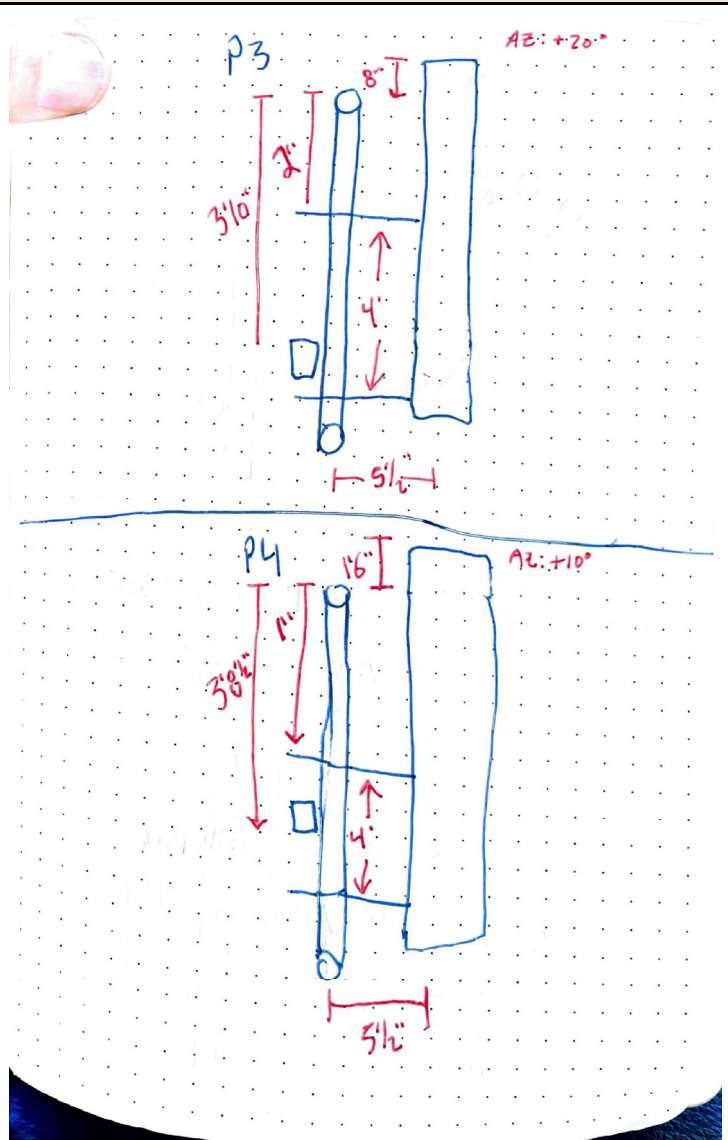
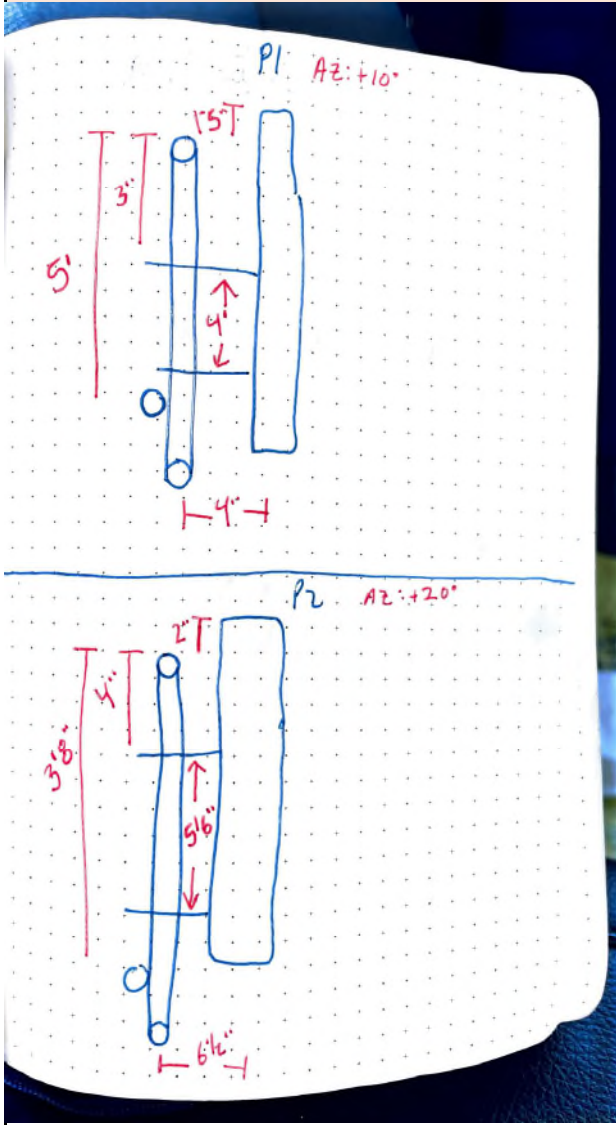
P1: CommScope LNX-8513DS-AIM

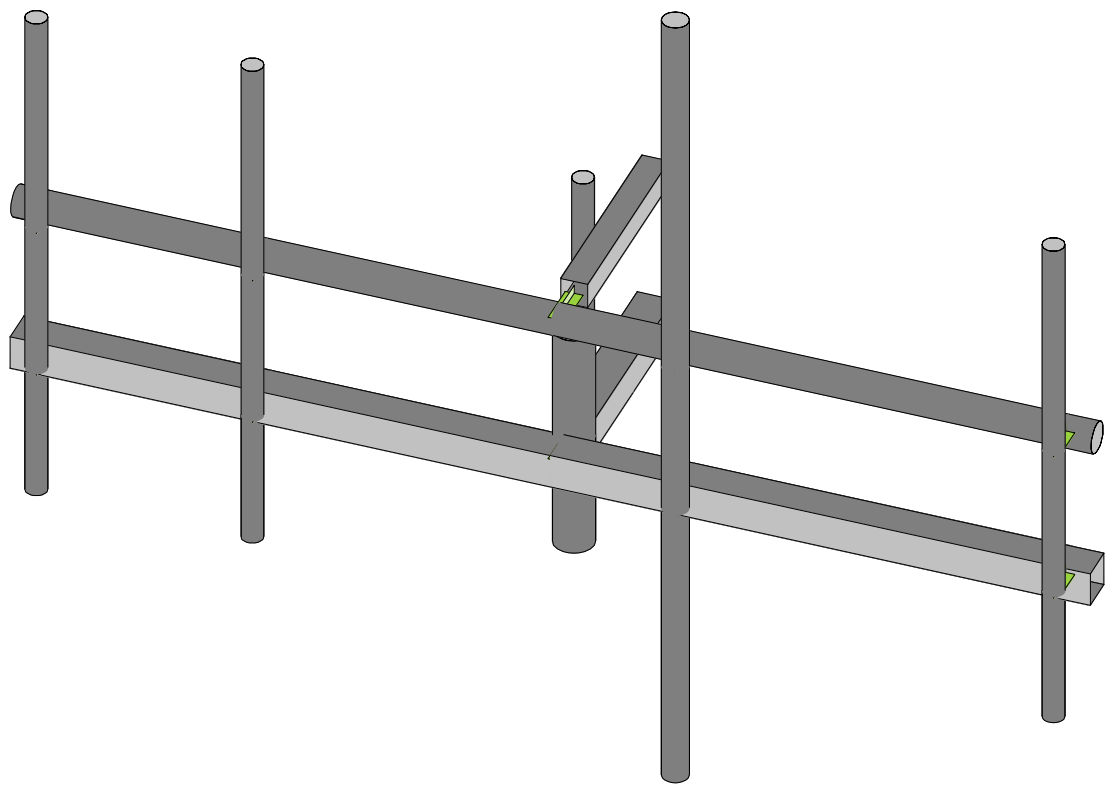
P2: BXA-70063 .6CF-EDIN-2
(2) RFS @ Above Face 1'10"

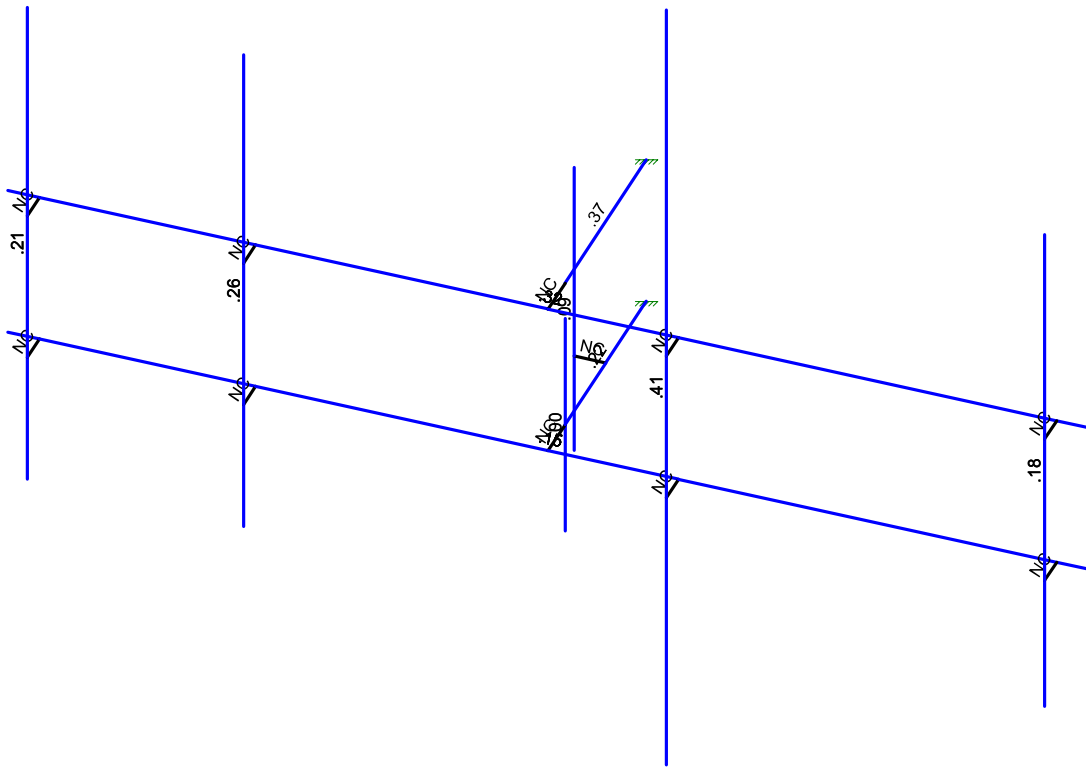
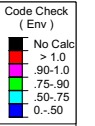
P3: See Photos

P4: CommScope

E1: -4' standoff @ Above Face 2'
BY RRAZ-60-4R



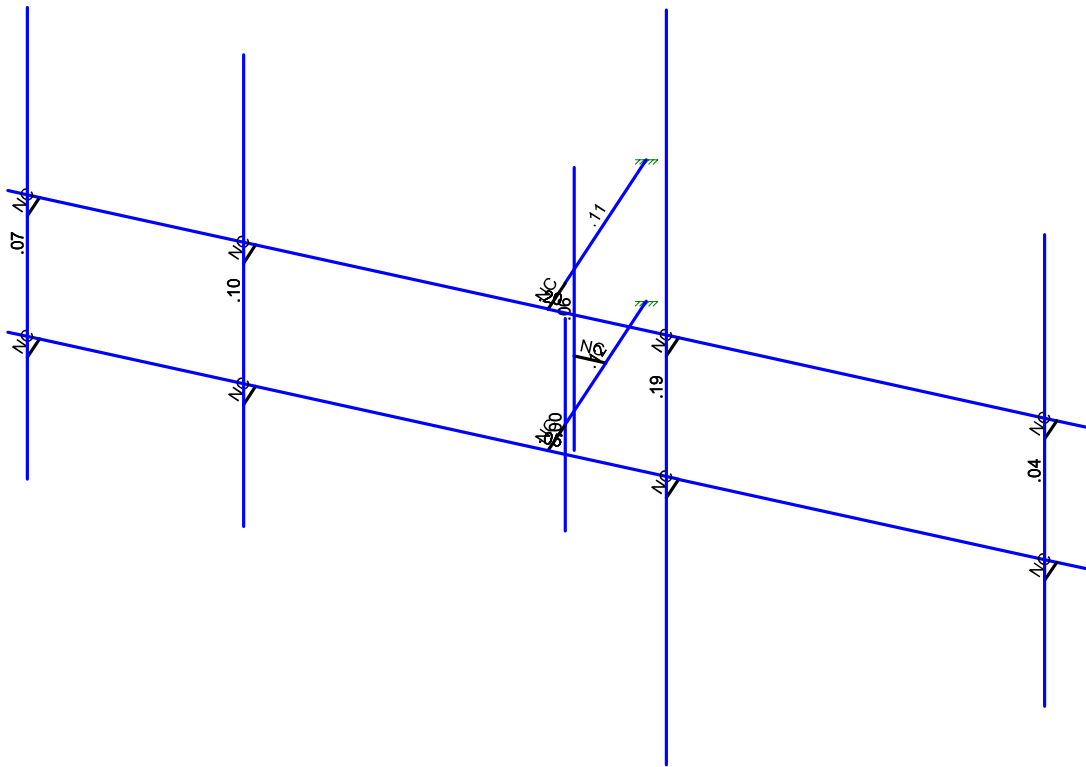






Shear Check
(Env)

Black	No Calc
Red	> 1.0
Purple	.90-1.0
Green	.75-.90
Yellow	.50-.75
Blue	0-.50





Company : GPD
 Designer : enieto
 Job Number : Project No. 10082846
 Model Name : 467734-VZW_MT_LOT_SectorA_H

June 29, 2021
 8:05 PM
 Checked By: _____

Basic Load Cases

	BLC Description	Category	X Gra...	Y Gra...	Z Grav...	Joint	Point	Distrib...	Area(Member)	Surface(Plate/W...
1	Antenna D	None					33			
2	Antenna Di	None					33			
3	Antenna Wo (0 Deg)	None					33			
4	Antenna Wo (30 Deg)	None					33			
5	Antenna Wo (60 Deg)	None					33			
6	Antenna Wo (90 Deg)	None					33			
7	Antenna Wo (120 Deg)	None					33			
8	Antenna Wo (150 Deg)	None					33			
9	Antenna Wo (180 Deg)	None					33			
10	Antenna Wo (210 Deg)	None					33			
11	Antenna Wo (240 Deg)	None					33			
12	Antenna Wo (270 Deg)	None					33			
13	Antenna Wo (300 Deg)	None					33			
14	Antenna Wo (330 Deg)	None					33			
15	Antenna Wi (0 Deg)	None					33			
16	Antenna Wi (30 Deg)	None					33			
17	Antenna Wi (60 Deg)	None					33			
18	Antenna Wi (90 Deg)	None					33			
19	Antenna Wi (120 Deg)	None					33			
20	Antenna Wi (150 Deg)	None					33			
21	Antenna Wi (180 Deg)	None					33			
22	Antenna Wi (210 Deg)	None					33			
23	Antenna Wi (240 Deg)	None					33			
24	Antenna Wi (270 Deg)	None					33			
25	Antenna Wi (300 Deg)	None					33			
26	Antenna Wi (330 Deg)	None					33			
27	Antenna Wm (0 Deg)	None					33			
28	Antenna Wm (30 Deg)	None					33			
29	Antenna Wm (60 Deg)	None					33			
30	Antenna Wm (90 Deg)	None					33			
31	Antenna Wm (120 Deg)	None					33			
32	Antenna Wm (150 Deg)	None					33			
33	Antenna Wm (180 Deg)	None					33			
34	Antenna Wm (210 Deg)	None					33			
35	Antenna Wm (240 Deg)	None					33			
36	Antenna Wm (270 Deg)	None					33			
37	Antenna Wm (300 Deg)	None					33			
38	Antenna Wm (330 Deg)	None					33			
39	Structure D	None		-1						
40	Structure Di	None						10		
41	Structure Wo (0 Deg)	None						20		
42	Structure Wo (30 Deg)	None						20		
43	Structure Wo (60 Deg)	None						20		
44	Structure Wo (90 Deg)	None						20		
45	Structure Wo (120 Deg)	None						20		
46	Structure Wo (150 Deg)	None						20		
47	Structure Wo (180 Deg)	None						20		
48	Structure Wo (210 Deg)	None						20		
49	Structure Wo (240 Deg)	None						20		
50	Structure Wo (270 Deg)	None						20		
51	Structure Wo (300 Deg)	None						20		
52	Structure Wo (330 Deg)	None						20		
53	Structure Wi (0 Deg)	None						20		
54	Structure Wi (30 Deg)	None						20		
55	Structure Wi (60 Deg)	None						20		
56	Structure Wi (90 Deg)	None						20		



Load Combinations (Continued)

Description	S...	PDel...	SRSSB...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...
29	1.2D + 1.5Lm1 + 1.0Wm (120 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	31	1	69	1						
30	1.2D + 1.5Lm1 + 1.0Wm (150 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	32	1	70	1						
31	1.2D + 1.5Lm1 + 1.0Wm (180 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	33	1	71	1						
32	1.2D + 1.5Lm1 + 1.0Wm (210 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	34	1	72	1						
33	1.2D + 1.5Lm1 + 1.0Wm (240 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	35	1	73	1						
34	1.2D + 1.5Lm1 + 1.0Wm (270 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	36	1	74	1						
35	1.2D + 1.5Lm1 + 1.0Wm (300 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	37	1	75	1						
36	1.2D + 1.5Lm1 + 1.0Wm (330 Deg)	Y...	Y	1	1.2	39	1.2	77	1.5	38	1	76	1						
37	1.2D + 1.5Lm2 + 1.0Wm (0 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	27	1	65	1						
38	1.2D + 1.5Lm2 + 1.0Wm (30 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	28	1	66	1						
39	1.2D + 1.5Lm2 + 1.0Wm (60 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	29	1	67	1						
40	1.2D + 1.5Lm2 + 1.0Wm (90 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	30	1	68	1						
41	1.2D + 1.5Lm2 + 1.0Wm (120 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	31	1	69	1						
42	1.2D + 1.5Lm2 + 1.0Wm (150 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	32	1	70	1						
43	1.2D + 1.5Lm2 + 1.0Wm (180 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	33	1	71	1						
44	1.2D + 1.5Lm2 + 1.0Wm (210 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	34	1	72	1						
45	1.2D + 1.5Lm2 + 1.0Wm (240 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	35	1	73	1						
46	1.2D + 1.5Lm2 + 1.0Wm (270 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	36	1	74	1						
47	1.2D + 1.5Lm2 + 1.0Wm (300 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	37	1	75	1						
48	1.2D + 1.5Lm2 + 1.0Wm (330 Deg)	Y...	Y	1	1.2	39	1.2	78	1.5	38	1	76	1						
49	1.2D + 1.5Lv1	Y...	Y	1	1.2	39	1.2	79	1.5										
50	1.2D + 1.5Lv2	Y...	Y	1	1.2	39	1.2	80	1.5										
51	1.4D	Y...	Y	1	1.4	39	1.4												
52	Seismic Mass		Y	1	1	39	1												
53	1.2D + 1.0Ev + 1.0Eh (0 Deg)		Y	1	1.2	39	1.2	SX		SY	1	SZ	-1						
54	1.2D + 1.0Ev + 1.0Eh (30 Deg)		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	-.8...						
55	1.2D + 1.0Ev + 1.0Eh (60 Deg)		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5						
56	1.2D + 1.0Ev + 1.0Eh (90 Deg)		Y	1	1.2	39	1.2	SX	1	SY	1	SZ							
57	1.2D + 1.0Ev + 1.0Eh (120 Deg)		Y	1	1.2	39	1.2	SX	.866	SY	1	SZ	.5						
58	1.2D + 1.0Ev + 1.0Eh (150 Deg)		Y	1	1.2	39	1.2	SX	.5	SY	1	SZ	.866						
59	1.2D + 1.0Ev + 1.0Eh (180 Deg)		Y	1	1.2	39	1.2	SX		SY	1	SZ	1						
60	1.2D + 1.0Ev + 1.0Eh (210 Deg)		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866						
61	1.2D + 1.0Ev + 1.0Eh (240 Deg)		Y	1	1.2	39	1.2	SX	-.8...	SY	1	SZ	.5						
62	1.2D + 1.0Ev + 1.0Eh (270 Deg)		Y	1	1.2	39	1.2	SX	-1	SY	1	SZ							
63	1.2D + 1.0Ev + 1.0Eh (300 Deg)		Y	1	1.2	39	1.2	SX	-.8...	SY	1	SZ	-.5						
64	1.2D + 1.0Ev + 1.0Eh (330 Deg)		Y	1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.8...						

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	A1	0	0	1.541667	0	
2	A2	0	0	3.520833	0	
3	A3	5	0	3.9375	0	
4	A4	-5	0	3.9375	0	
5	A5	0	0	2.53125	0	
6	A6	-0.291667	0	2.53125	0	
7	A7	4.708333	0	3.9375	0	
8	A8	4.708333	0	4.229167	0	
9	A13	-4.708333	0	3.9375	0	
10	A14	-4.708333	0	4.229167	0	
11	A15	0	0	3.9375	0	
12	A16	0	1.125	3.520833	0	
13	A17	0	-1.125	3.520833	0	
14	A18	4.708333	3.666667	4.229167	0	
15	A20	4.708333	-1.333333	4.229167	0	
16	A24	-4.708333	3.708333	4.229167	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
17	A25	-4.708333	-1.291667	4.229167	0	
18	N26	-0.291667	2	2.53125	0	
19	N27	-0.291667	-1	2.53125	0	
20	N28	-2.708333	0	3.9375	0	
21	N29	-2.708333	0	4.229167	0	
22	N30	-2.708333	3.708333	4.229167	0	
23	N31	-2.708333	-1.291667	4.229167	0	
24	N32	1.208333	0	3.9375	0	
25	N33	1.208333	0	4.229167	0	
26	N34	1.208333	5.166667	4.229167	0	
27	N35	1.208333	-2.833333	4.229167	0	
28	N28A	0	1.5	1.541667	0	
29	N29A	0	1.5	3.520833	0	
30	N30A	5	1.5	3.9375	0	
31	N31A	-5	1.5	3.9375	0	
32	N32A	4.708333	1.5	3.9375	0	
33	N33A	4.708333	1.5	4.229167	0	
34	N34A	-4.708333	1.5	3.9375	0	
35	N35A	-4.708333	1.5	4.229167	0	
36	N36	0	1.5	3.9375	0	
37	N37	-2.708333	1.5	3.9375	0	
38	N38	-2.708333	1.5	4.229167	0	
39	N39	1.208333	1.5	3.9375	0	
40	N40	1.208333	1.5	4.229167	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Desig...A [in2]	Iyy [i...lzz [i...J [in4]
1	Standoff Horizontal	HSS4X4X4	None	None	A500 Gr.B RECT	Typical 3.37	7.8 7.8 12.8
2	Standoff Vertical	PIPE_4.0	None	None	A53 Gr.B	Typical 2.96	6.82 6.82 13.6
3	Face Horizontal	HSS4X4X4	None	None	A500 Gr.B RECT	Typical 3.37	7.8 7.8 12.8
4	Mount Pipe (P2STD)	PIPE_2.0	None	None	A53 Gr.B	Typical 1.02	.627 .627 1.25
5	Mount Pipe (P2.5STD)	PIPE_2.5	None	None	A53 Gr.B	Typical 1.61	1.45 1.45 2.89
6	Reinforcement Standoff	HSS3X3X4	None	None	A500 Gr.B RECT	Typical 2.44	3.02 3.02 5.08
7	Reinforcement Face	PIPE_3.0	None	None	A53 Gr.B	Typical 2.07	2.85 2.85 5.69

Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (1E5 F)	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B RECT	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A500 Gr.C RND	29000	11154	.3	.65	.527	46	1.4	62	1.3
7	A500 Gr.C RECT	29000	11154	.3	.65	.527	50	1.4	62	1.3
8	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
9	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
10	A913 Gr.65	29000	11154	.3	.65	.49	65	1.1	80	1.1

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	A1	A1	A2			Standoff Horizontal	None	None	A500 Gr...	Typical
2	A2	A3	A4			Face Horizontal	None	None	A500 Gr...	Typical



Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(d...)	Section/Shape	Type	Design List	Material	Design Rul...
3	A3	A5	A6			RIGID	None	None	RIGID	Typical
4	A4	A7	A8			RIGID	None	None	RIGID	Typical
5	A7	A13	A14			RIGID	None	None	RIGID	Typical
6	A8	A2	A15			RIGID	None	None	RIGID	Typical
7	A9	A16	A17			Standoff Vertical	None	None	A53 Gr.B	Typical
8	MP1A	A18	A20			Mount Pipe (P2STD)	None	None	A53 Gr.B	Typical
9	MP4A	A24	A25			Mount Pipe (P2STD)	None	None	A53 Gr.B	Typical
10	S1	N26	N27			Mount Pipe (P2STD)	None	None	A53 Gr.B	Typical
11	M15	N28	N29			RIGID	None	None	RIGID	Typical
12	MP3A	N30	N31			Mount Pipe (P2STD)	None	None	A53 Gr.B	Typical
13	M17	N32	N33			RIGID	None	None	RIGID	Typical
14	MP2A	N34	N35			Mount Pipe (P2.5STD)	None	None	A53 Gr.B	Typical
15	M15A	N28A	N29A			Reinforcement Standoff	None	None	A500 Gr...	Typical
16	M16	N30A	N31A			Reinforcement Face	None	None	A53 Gr.B	Typical
17	M17A	N32A	N33A			RIGID	None	None	RIGID	Typical
18	M18	N34A	N35A			RIGID	None	None	RIGID	Typical
19	M19	N29A	N36			RIGID	None	None	RIGID	Typical
20	M20	N37	N38			RIGID	None	None	RIGID	Typical
21	M21	N39	N40			RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl Ratio Opti...	Analysis Offs...	Inactive	Seismi...
1	A1					Yes	** NA **			None
2	A2					Yes	** NA **			None
3	A3					Yes	** NA **			None
4	A4					Yes	** NA **			None
5	A7					Yes	** NA **			None
6	A8					Yes	** NA **			None
7	A9					Yes	** NA **			None
8	MP1A					Yes	** NA **			None
9	MP4A					Yes	** NA **			None
10	S1					Yes	** NA **			None
11	M15					Yes	** NA **			None
12	MP3A					Yes	** NA **			None
13	M17					Yes	** NA **			None
14	MP2A					Yes	** NA **			None
15	M15A					Yes	** NA **			None
16	M16					Yes	** NA **			None
17	M17A					Yes	** NA **			None
18	M18					Yes	** NA **			None
19	M19					Yes	** NA **			None
20	M20					Yes	** NA **			None
21	M21					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-30	.08
2	MP2A	My	-.023	.08
3	MP2A	Mz	.017	.08
4	MP2A	Y	-30	4.08
5	MP2A	My	-.023	4.08
6	MP2A	Mz	.017	4.08
7	MP2A	Y	-30	.08
8	MP2A	My	-.016	.08



Member Point Loads (BLC 1 : Antenna D) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
9	MP2A	Mz	-.024	.08
10	MP2A	Y	-30	4.08
11	MP2A	My	-.016	4.08
12	MP2A	Mz	-.024	4.08
13	MP4A	Y	-49.75	.42
14	MP4A	My	-.033	.42
15	MP4A	Mz	-.006	.42
16	MP4A	Y	-49.75	2.92
17	MP4A	My	-.033	2.92
18	MP4A	Mz	-.006	2.92
19	S1	Y	-32	1
20	S1	My	.016	1
21	S1	Mz	0	1
22	MP3A	Y	-84.4	1.1
23	MP3A	My	.042	1.1
24	MP3A	Mz	0	1.1
25	MP4A	Y	-70.3	1.1
26	MP4A	My	.035	1.1
27	MP4A	Mz	0	1.1
28	MP1A	Y	-13.15	.25
29	MP1A	My	-.004	.25
30	MP1A	Mz	-.000761	.25
31	MP1A	Y	-13.15	4.28
32	MP1A	My	-.004	4.28
33	MP1A	Mz	-.000761	4.28

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	Y	-81.92	.08
2	MP2A	My	-.064	.08
3	MP2A	Mz	.048	.08
4	MP2A	Y	-81.92	4.08
5	MP2A	My	-.064	4.08
6	MP2A	Mz	.048	4.08
7	MP2A	Y	-81.92	.08
8	MP2A	My	-.044	.08
9	MP2A	Mz	-.067	.08
10	MP2A	Y	-81.92	4.08
11	MP2A	My	-.044	4.08
12	MP2A	Mz	-.067	4.08
13	MP4A	Y	-37.647	.42
14	MP4A	My	-.025	.42
15	MP4A	Mz	-.004	.42
16	MP4A	Y	-37.647	2.92
17	MP4A	My	-.025	2.92
18	MP4A	Mz	-.004	2.92
19	S1	Y	-87.325	1
20	S1	My	.044	1
21	S1	Mz	0	1
22	MP3A	Y	-44.59	1.1
23	MP3A	My	.022	1.1
24	MP3A	Mz	0	1.1
25	MP4A	Y	-40.098	1.1
26	MP4A	My	.02	1.1
27	MP4A	Mz	0	1.1
28	MP1A	Y	-60.726	.25



Member Point Loads (BLC 2 : Antenna Di) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
29	MP1A	My	-.02	.25
30	MP1A	Mz	-.004	.25
31	MP1A	Y	-60.726	4.28
32	MP1A	My	-.02	4.28
33	MP1A	Mz	-.004	4.28

Member Point Loads (BLC 3 : Antenna Wo (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	0	.08
2	MP2A	Z	-182.483	.08
3	MP2A	Mx	-.106	.08
4	MP2A	X	0	4.08
5	MP2A	Z	-182.483	4.08
6	MP2A	Mx	-.106	4.08
7	MP2A	X	0	.08
8	MP2A	Z	-182.483	.08
9	MP2A	Mx	.148	.08
10	MP2A	X	0	4.08
11	MP2A	Z	-182.483	4.08
12	MP2A	Mx	.148	4.08
13	MP4A	X	0	.42
14	MP4A	Z	-76.331	.42
15	MP4A	Mx	.009	.42
16	MP4A	X	0	2.92
17	MP4A	Z	-76.331	2.92
18	MP4A	Mx	.009	2.92
19	S1	X	0	1
20	S1	Z	-115.43	1
21	S1	Mx	0	1
22	MP3A	X	0	1.1
23	MP3A	Z	-69.687	1.1
24	MP3A	Mx	0	1.1
25	MP4A	X	0	1.1
26	MP4A	Z	-69.687	1.1
27	MP4A	Mx	0	1.1
28	MP1A	X	0	.25
29	MP1A	Z	-150.677	.25
30	MP1A	Mx	.009	.25
31	MP1A	X	0	4.28
32	MP1A	Z	-150.677	4.28
33	MP1A	Mx	.009	4.28

Member Point Loads (BLC 4 : Antenna Wo (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	89.194	.08
2	MP2A	Z	-154.488	.08
3	MP2A	Mx	-.159	.08
4	MP2A	X	89.194	4.08
5	MP2A	Z	-154.488	4.08
6	MP2A	Mx	-.159	4.08
7	MP2A	X	89.194	.08
8	MP2A	Z	-154.488	.08
9	MP2A	Mx	.078	.08
10	MP2A	X	89.194	4.08
11	MP2A	Z	-154.488	4.08
12	MP2A	Mx	.078	4.08



Company : GPD
 Designer : enieto
 Job Number : Project No. 10082846
 Model Name : 467734-VZW_MT_LOT_SectorA_H

June 29, 2021
 8:05 PM
 Checked By: _____

Member Point Loads (BLC 4 : Antenna Wo (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
13	MP4A	X	36.733	.42
14	MP4A	Z	-63.623	.42
15	MP4A	Mx	-.017	.42
16	MP4A	X	36.733	2.92
17	MP4A	Z	-63.623	2.92
18	MP4A	Mx	-.017	2.92
19	S1	X	62.199	1
20	S1	Z	-107.731	1
21	S1	Mx	.031	1
22	MP3A	X	31.955	1.1
23	MP3A	Z	-55.348	1.1
24	MP3A	Mx	.016	1.1
25	MP4A	X	30.849	1.1
26	MP4A	Z	-53.432	1.1
27	MP4A	Mx	.015	1.1
28	MP1A	X	73.102	.25
29	MP1A	Z	-126.617	.25
30	MP1A	Mx	-.017	.25
31	MP1A	X	73.102	4.28
32	MP1A	Z	-126.617	4.28
33	MP1A	Mx	-.017	4.28

Member Point Loads (BLC 5 : Antenna Wo (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	135.291	.08
2	MP2A	Z	-78.11	.08
3	MP2A	Mx	-.151	.08
4	MP2A	X	135.291	4.08
5	MP2A	Z	-78.11	4.08
6	MP2A	Mx	-.151	4.08
7	MP2A	X	135.291	.08
8	MP2A	Z	-78.11	.08
9	MP2A	Mx	-.009	.08
10	MP2A	X	135.291	4.08
11	MP2A	Z	-78.11	4.08
12	MP2A	Mx	-.009	4.08
13	MP4A	X	50.192	.42
14	MP4A	Z	-28.978	.42
15	MP4A	Mx	-.03	.42
16	MP4A	X	50.192	2.92
17	MP4A	Z	-28.978	2.92
18	MP4A	Mx	-.03	2.92
19	S1	X	123.263	1
20	S1	Z	-71.166	1
21	S1	Mx	.062	1
22	MP3A	X	45.344	1.1
23	MP3A	Z	-26.179	1.1
24	MP3A	Mx	.023	1.1
25	MP4A	X	39.595	1.1
26	MP4A	Z	-22.86	1.1
27	MP4A	Mx	.02	1.1
28	MP1A	X	105.656	.25
29	MP1A	Z	-61.001	.25
30	MP1A	Mx	-.031	.25
31	MP1A	X	105.656	4.28
32	MP1A	Z	-61.001	4.28



Member Point Loads (BLC 5 : Antenna Wo (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
33	MP1A	Mx	-.031	4.28

Member Point Loads (BLC 6 : Antenna Wo (90 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	138.15	.08
2	MP2A	Z	0	.08
3	MP2A	Mx	-.108	.08
4	MP2A	X	138.15	4.08
5	MP2A	Z	0	4.08
6	MP2A	Mx	-.108	4.08
7	MP2A	X	138.15	.08
8	MP2A	Z	0	.08
9	MP2A	Mx	-.074	.08
10	MP2A	X	138.15	4.08
11	MP2A	Z	0	4.08
12	MP2A	Mx	-.074	4.08
13	MP4A	X	45.314	.42
14	MP4A	Z	0	.42
15	MP4A	Mx	-.03	.42
16	MP4A	X	45.314	2.92
17	MP4A	Z	0	2.92
18	MP4A	Mx	-.03	2.92
19	S1	X	151.299	1
20	S1	Z	0	1
21	S1	Mx	.076	1
22	MP3A	X	46.582	1.1
23	MP3A	Z	0	1.1
24	MP3A	Mx	.023	1.1
25	MP4A	X	37.731	1.1
26	MP4A	Z	0	1.1
27	MP4A	Mx	.019	1.1
28	MP1A	X	102.271	.25
29	MP1A	Z	0	.25
30	MP1A	Mx	-.034	.25
31	MP1A	X	102.271	4.28
32	MP1A	Z	0	4.28
33	MP1A	Mx	-.034	4.28

Member Point Loads (BLC 7 : Antenna Wo (120 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	123.189	.08
2	MP2A	Z	71.123	.08
3	MP2A	Mx	-.055	.08
4	MP2A	X	123.189	4.08
5	MP2A	Z	71.123	4.08
6	MP2A	Mx	-.055	4.08
7	MP2A	X	123.189	.08
8	MP2A	Z	71.123	.08
9	MP2A	Mx	-.124	.08
10	MP2A	X	123.189	4.08
11	MP2A	Z	71.123	4.08
12	MP2A	Mx	-.124	4.08
13	MP4A	X	41.725	.42
14	MP4A	Z	24.09	.42
15	MP4A	Mx	-.03	.42
16	MP4A	X	41.725	2.92



Member Point Loads (BLC 7 : Antenna Wo (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
17	MP4A	Z	24.09	2.92
18	MP4A	Mx	-.03	2.92
19	S1	X	123.263	1
20	S1	Z	71.166	1
21	S1	Mx	.062	1
22	MP3A	X	45.344	1.1
23	MP3A	Z	26.179	1.1
24	MP3A	Mx	.023	1.1
25	MP4A	X	39.595	1.1
26	MP4A	Z	22.86	1.1
27	MP4A	Mx	.02	1.1
28	MP1A	X	92.442	.25
29	MP1A	Z	53.372	.25
30	MP1A	Mx	-.033	.25
31	MP1A	X	92.442	4.28
32	MP1A	Z	53.372	4.28
33	MP1A	Mx	-.033	4.28

Member Point Loads (BLC 8 : Antenna Wo (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	82.206	.08
2	MP2A	Z	142.386	.08
3	MP2A	Mx	.019	.08
4	MP2A	X	82.206	4.08
5	MP2A	Z	142.386	4.08
6	MP2A	Mx	.019	4.08
7	MP2A	X	82.206	.08
8	MP2A	Z	142.386	.08
9	MP2A	Mx	-.16	.08
10	MP2A	X	82.206	4.08
11	MP2A	Z	142.386	4.08
12	MP2A	Mx	-.16	4.08
13	MP4A	X	31.844	.42
14	MP4A	Z	55.156	.42
15	MP4A	Mx	-.027	.42
16	MP4A	X	31.844	2.92
17	MP4A	Z	55.156	2.92
18	MP4A	Mx	-.027	2.92
19	S1	X	62.199	1
20	S1	Z	107.731	1
21	S1	Mx	.031	1
22	MP3A	X	31.955	1.1
23	MP3A	Z	55.348	1.1
24	MP3A	Mx	.016	1.1
25	MP4A	X	30.849	1.1
26	MP4A	Z	53.432	1.1
27	MP4A	Mx	.015	1.1
28	MP1A	X	65.473	.25
29	MP1A	Z	113.403	.25
30	MP1A	Mx	-.028	.25
31	MP1A	X	65.473	4.28
32	MP1A	Z	113.403	4.28
33	MP1A	Mx	-.028	4.28

Member Point Loads (BLC 9 : Antenna Wo (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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Company : GPD
 Designer : enieto
 Job Number : Project No. 10082846
 Model Name : 467734-VZW_MT_LOT_SectorA_H

June 29, 2021
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 Checked By: _____

Member Point Loads (BLC 9 : Antenna Wo (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	0	.08
2	MP2A	Z	182.483	.08
3	MP2A	Mx	.106	.08
4	MP2A	X	0	4.08
5	MP2A	Z	182.483	4.08
6	MP2A	Mx	.106	4.08
7	MP2A	X	0	.08
8	MP2A	Z	182.483	.08
9	MP2A	Mx	-.148	.08
10	MP2A	X	0	4.08
11	MP2A	Z	182.483	4.08
12	MP2A	Mx	-.148	4.08
13	MP4A	X	0	.42
14	MP4A	Z	76.331	.42
15	MP4A	Mx	-.009	.42
16	MP4A	X	0	2.92
17	MP4A	Z	76.331	2.92
18	MP4A	Mx	-.009	2.92
19	S1	X	0	1
20	S1	Z	115.43	1
21	S1	Mx	0	1
22	MP3A	X	0	1.1
23	MP3A	Z	69.687	1.1
24	MP3A	Mx	0	1.1
25	MP4A	X	0	1.1
26	MP4A	Z	69.687	1.1
27	MP4A	Mx	0	1.1
28	MP1A	X	0	.25
29	MP1A	Z	150.677	.25
30	MP1A	Mx	-.009	.25
31	MP1A	X	0	4.28
32	MP1A	Z	150.677	4.28
33	MP1A	Mx	-.009	4.28

Member Point Loads (BLC 10 : Antenna Wo (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	-89.194	.08
2	MP2A	Z	154.488	.08
3	MP2A	Mx	.159	.08
4	MP2A	X	-89.194	4.08
5	MP2A	Z	154.488	4.08
6	MP2A	Mx	.159	4.08
7	MP2A	X	-89.194	.08
8	MP2A	Z	154.488	.08
9	MP2A	Mx	-.078	.08
10	MP2A	X	-89.194	4.08
11	MP2A	Z	154.488	4.08
12	MP2A	Mx	-.078	4.08
13	MP4A	X	-36.733	.42
14	MP4A	Z	63.623	.42
15	MP4A	Mx	.017	.42
16	MP4A	X	-36.733	2.92
17	MP4A	Z	63.623	2.92
18	MP4A	Mx	.017	2.92
19	S1	X	-62.199	1
20	S1	Z	107.731	1



Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	S1	Mx	-.031	1
22	MP3A	X	-31.955	1.1
23	MP3A	Z	55.348	1.1
24	MP3A	Mx	-.016	1.1
25	MP4A	X	-30.849	1.1
26	MP4A	Z	53.432	1.1
27	MP4A	Mx	-.015	1.1
28	MP1A	X	-73.102	.25
29	MP1A	Z	126.617	.25
30	MP1A	Mx	.017	.25
31	MP1A	X	-73.102	4.28
32	MP1A	Z	126.617	4.28
33	MP1A	Mx	.017	4.28

Member Point Loads (BLC 11 : Antenna Wo (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-135.291	.08
2	MP2A	Z	78.11	.08
3	MP2A	Mx	.151	.08
4	MP2A	X	-135.291	4.08
5	MP2A	Z	78.11	4.08
6	MP2A	Mx	.151	4.08
7	MP2A	X	-135.291	.08
8	MP2A	Z	78.11	.08
9	MP2A	Mx	.009	.08
10	MP2A	X	-135.291	4.08
11	MP2A	Z	78.11	4.08
12	MP2A	Mx	.009	4.08
13	MP4A	X	-50.192	.42
14	MP4A	Z	28.978	.42
15	MP4A	Mx	.03	.42
16	MP4A	X	-50.192	2.92
17	MP4A	Z	28.978	2.92
18	MP4A	Mx	.03	2.92
19	S1	X	-123.263	1
20	S1	Z	71.166	1
21	S1	Mx	-.062	1
22	MP3A	X	-45.344	1.1
23	MP3A	Z	26.179	1.1
24	MP3A	Mx	-.023	1.1
25	MP4A	X	-39.595	1.1
26	MP4A	Z	22.86	1.1
27	MP4A	Mx	-.02	1.1
28	MP1A	X	-105.656	.25
29	MP1A	Z	61.001	.25
30	MP1A	Mx	.031	.25
31	MP1A	X	-105.656	4.28
32	MP1A	Z	61.001	4.28
33	MP1A	Mx	.031	4.28

Member Point Loads (BLC 12 : Antenna Wo (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-138.15	.08
2	MP2A	Z	0	.08
3	MP2A	Mx	.108	.08
4	MP2A	X	-138.15	4.08



Member Point Loads (BLC 12 : Antenna Wo (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	0	4.08
6	MP2A	Mx	.108	4.08
7	MP2A	X	-138.15	.08
8	MP2A	Z	0	.08
9	MP2A	Mx	.074	.08
10	MP2A	X	-138.15	4.08
11	MP2A	Z	0	4.08
12	MP2A	Mx	.074	4.08
13	MP4A	X	-45.314	.42
14	MP4A	Z	0	.42
15	MP4A	Mx	.03	.42
16	MP4A	X	-45.314	2.92
17	MP4A	Z	0	2.92
18	MP4A	Mx	.03	2.92
19	S1	X	-151.299	1
20	S1	Z	0	1
21	S1	Mx	-.076	1
22	MP3A	X	-46.582	1.1
23	MP3A	Z	0	1.1
24	MP3A	Mx	-.023	1.1
25	MP4A	X	-37.731	1.1
26	MP4A	Z	0	1.1
27	MP4A	Mx	-.019	1.1
28	MP1A	X	-102.271	.25
29	MP1A	Z	0	.25
30	MP1A	Mx	.034	.25
31	MP1A	X	-102.271	4.28
32	MP1A	Z	0	4.28
33	MP1A	Mx	.034	4.28

Member Point Loads (BLC 13 : Antenna Wo (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-123.189	.08
2	MP2A	Z	-71.123	.08
3	MP2A	Mx	.055	.08
4	MP2A	X	-123.189	4.08
5	MP2A	Z	-71.123	4.08
6	MP2A	Mx	.055	4.08
7	MP2A	X	-123.189	.08
8	MP2A	Z	-71.123	.08
9	MP2A	Mx	.124	.08
10	MP2A	X	-123.189	4.08
11	MP2A	Z	-71.123	4.08
12	MP2A	Mx	.124	4.08
13	MP4A	X	-41.725	.42
14	MP4A	Z	-24.09	.42
15	MP4A	Mx	.03	.42
16	MP4A	X	-41.725	2.92
17	MP4A	Z	-24.09	2.92
18	MP4A	Mx	.03	2.92
19	S1	X	-123.263	1
20	S1	Z	-71.166	1
21	S1	Mx	-.062	1
22	MP3A	X	-45.344	1.1
23	MP3A	Z	-26.179	1.1
24	MP3A	Mx	-.023	1.1



Member Point Loads (BLC 13 : Antenna Wo (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP4A	X	-39.595	1.1
26	MP4A	Z	-22.86	1.1
27	MP4A	Mx	-.02	1.1
28	MP1A	X	-92.442	.25
29	MP1A	Z	-53.372	.25
30	MP1A	Mx	.033	.25
31	MP1A	X	-92.442	4.28
32	MP1A	Z	-53.372	4.28
33	MP1A	Mx	.033	4.28

Member Point Loads (BLC 14 : Antenna Wo (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-82.206	.08
2	MP2A	Z	-142.386	.08
3	MP2A	Mx	-.019	.08
4	MP2A	X	-82.206	4.08
5	MP2A	Z	-142.386	4.08
6	MP2A	Mx	-.019	4.08
7	MP2A	X	-82.206	.08
8	MP2A	Z	-142.386	.08
9	MP2A	Mx	.16	.08
10	MP2A	X	-82.206	4.08
11	MP2A	Z	-142.386	4.08
12	MP2A	Mx	.16	4.08
13	MP4A	X	-31.844	.42
14	MP4A	Z	-55.156	.42
15	MP4A	Mx	.027	.42
16	MP4A	X	-31.844	2.92
17	MP4A	Z	-55.156	2.92
18	MP4A	Mx	.027	2.92
19	S1	X	-62.199	1
20	S1	Z	-107.731	1
21	S1	Mx	-.031	1
22	MP3A	X	-31.955	1.1
23	MP3A	Z	-55.348	1.1
24	MP3A	Mx	-.016	1.1
25	MP4A	X	-30.849	1.1
26	MP4A	Z	-53.432	1.1
27	MP4A	Mx	-.015	1.1
28	MP1A	X	-65.473	.25
29	MP1A	Z	-113.403	.25
30	MP1A	Mx	.028	.25
31	MP1A	X	-65.473	4.28
32	MP1A	Z	-113.403	4.28
33	MP1A	Mx	.028	4.28

Member Point Loads (BLC 15 : Antenna Wi (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.08
2	MP2A	Z	-24.495	.08
3	MP2A	Mx	-.014	.08
4	MP2A	X	0	4.08
5	MP2A	Z	-24.495	4.08
6	MP2A	Mx	-.014	4.08
7	MP2A	X	0	.08
8	MP2A	Z	-24.495	.08



Member Point Loads (BLC 15 : Antenna Wi (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
9	MP2A	Mx	.02	.08
10	MP2A	X	0	4.08
11	MP2A	Z	-24.495	4.08
12	MP2A	Mx	.02	4.08
13	MP4A	X	0	.42
14	MP4A	Z	-10.652	.42
15	MP4A	Mx	.001	.42
16	MP4A	X	0	2.92
17	MP4A	Z	-10.652	2.92
18	MP4A	Mx	.001	2.92
19	S1	X	0	1
20	S1	Z	-16.482	1
21	S1	Mx	0	1
22	MP3A	X	0	1.1
23	MP3A	Z	-10.255	1.1
24	MP3A	Mx	0	1.1
25	MP4A	X	0	1.1
26	MP4A	Z	-10.255	1.1
27	MP4A	Mx	0	1.1
28	MP1A	X	0	.25
29	MP1A	Z	-20.469	.25
30	MP1A	Mx	.001	.25
31	MP1A	X	0	4.28
32	MP1A	Z	-20.469	4.28
33	MP1A	Mx	.001	4.28

Member Point Loads (BLC 16 : Antenna Wi (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	11.987	.08
2	MP2A	Z	-20.762	.08
3	MP2A	Mx	-.021	.08
4	MP2A	X	11.987	4.08
5	MP2A	Z	-20.762	4.08
6	MP2A	Mx	-.021	4.08
7	MP2A	X	11.987	.08
8	MP2A	Z	-20.762	.08
9	MP2A	Mx	.01	.08
10	MP2A	X	11.987	4.08
11	MP2A	Z	-20.762	4.08
12	MP2A	Mx	.01	4.08
13	MP4A	X	5.138	.42
14	MP4A	Z	-8.9	.42
15	MP4A	Mx	-.002	.42
16	MP4A	X	5.138	2.92
17	MP4A	Z	-8.9	2.92
18	MP4A	Mx	-.002	2.92
19	S1	X	8.816	1
20	S1	Z	-15.27	1
21	S1	Mx	.004	1
22	MP3A	X	4.737	1.1
23	MP3A	Z	-8.205	1.1
24	MP3A	Mx	.002	1.1
25	MP4A	X	4.589	1.1
26	MP4A	Z	-7.948	1.1
27	MP4A	Mx	.002	1.1
28	MP1A	X	9.956	.25



Member Point Loads (BLC 16 : Antenna Wi (30 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
29	MP1A	Z	-17.244	.25
30	MP1A	Mx	-.002	.25
31	MP1A	X	9.956	4.28
32	MP1A	Z	-17.244	4.28
33	MP1A	Mx	-.002	4.28

Member Point Loads (BLC 17 : Antenna Wi (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	18.316	.08
2	MP2A	Z	-10.575	.08
3	MP2A	Mx	-.02	.08
4	MP2A	X	18.316	4.08
5	MP2A	Z	-10.575	4.08
6	MP2A	Mx	-.02	4.08
7	MP2A	X	18.316	.08
8	MP2A	Z	-10.575	.08
9	MP2A	Mx	-.001	.08
10	MP2A	X	18.316	4.08
11	MP2A	Z	-10.575	4.08
12	MP2A	Mx	-.001	4.08
13	MP4A	X	7.14	.42
14	MP4A	Z	-4.122	.42
15	MP4A	Mx	-.004	.42
16	MP4A	X	7.14	2.92
17	MP4A	Z	-4.122	2.92
18	MP4A	Mx	-.004	2.92
19	S1	X	17.261	1
20	S1	Z	-9.966	1
21	S1	Mx	.009	1
22	MP3A	X	6.852	1.1
23	MP3A	Z	-3.956	1.1
24	MP3A	Mx	.003	1.1
25	MP4A	X	6.081	1.1
26	MP4A	Z	-3.511	1.1
27	MP4A	Mx	.003	1.1
28	MP1A	X	14.634	.25
29	MP1A	Z	-8.449	.25
30	MP1A	Mx	-.004	.25
31	MP1A	X	14.634	4.28
32	MP1A	Z	-8.449	4.28
33	MP1A	Mx	-.004	4.28

Member Point Loads (BLC 18 : Antenna Wi (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	18.847	.08
2	MP2A	Z	0	.08
3	MP2A	Mx	-.015	.08
4	MP2A	X	18.847	4.08
5	MP2A	Z	0	4.08
6	MP2A	Mx	-.015	4.08
7	MP2A	X	18.847	.08
8	MP2A	Z	0	.08
9	MP2A	Mx	-.01	.08
10	MP2A	X	18.847	4.08
11	MP2A	Z	0	4.08
12	MP2A	Mx	-.01	4.08



Company : GPD
 Designer : enieto
 Job Number : Project No. 10082846
 Model Name : 467734-VZW_MT_LOT_SectorA_H

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Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
13	MP4A	X	6.587	.42
14	MP4A	Z	0	.42
15	MP4A	Mx	-.004	.42
16	MP4A	X	6.587	2.92
17	MP4A	Z	0	2.92
18	MP4A	Mx	-.004	2.92
19	S1	X	21.081	1
20	S1	Z	0	1
21	S1	Mx	.011	1
22	MP3A	X	7.131	1.1
23	MP3A	Z	0	1.1
24	MP3A	Mx	.004	1.1
25	MP4A	X	5.944	1.1
26	MP4A	Z	0	1.1
27	MP4A	Mx	.003	1.1
28	MP1A	X	14.44	.25
29	MP1A	Z	0	.25
30	MP1A	Mx	-.005	.25
31	MP1A	X	14.44	4.28
32	MP1A	Z	0	4.28
33	MP1A	Mx	-.005	4.28

Member Point Loads (BLC 19 : Antenna Wi (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	16.774	.08
2	MP2A	Z	9.684	.08
3	MP2A	Mx	-.007	.08
4	MP2A	X	16.774	4.08
5	MP2A	Z	9.684	4.08
6	MP2A	Mx	-.007	4.08
7	MP2A	X	16.774	.08
8	MP2A	Z	9.684	.08
9	MP2A	Mx	-.017	.08
10	MP2A	X	16.774	4.08
11	MP2A	Z	9.684	4.08
12	MP2A	Mx	-.017	4.08
13	MP4A	X	6.03	.42
14	MP4A	Z	3.482	.42
15	MP4A	Mx	-.004	.42
16	MP4A	X	6.03	2.92
17	MP4A	Z	3.482	2.92
18	MP4A	Mx	-.004	2.92
19	S1	X	17.261	1
20	S1	Z	9.966	1
21	S1	Mx	.009	1
22	MP3A	X	6.852	1.1
23	MP3A	Z	3.956	1.1
24	MP3A	Mx	.003	1.1
25	MP4A	X	6.081	1.1
26	MP4A	Z	3.511	1.1
27	MP4A	Mx	.003	1.1
28	MP1A	X	12.988	.25
29	MP1A	Z	7.499	.25
30	MP1A	Mx	-.005	.25
31	MP1A	X	12.988	4.28
32	MP1A	Z	7.499	4.28



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Member Point Loads (BLC 19 : Antenna Wi (120 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
33	MP1A	Mx	-0.05	4.28

Member Point Loads (BLC 20 : Antenna Wi (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	11.097	.08
2	MP2A	Z	19.22	.08
3	MP2A	Mx	.003	.08
4	MP2A	X	11.097	4.08
5	MP2A	Z	19.22	4.08
6	MP2A	Mx	.003	4.08
7	MP2A	X	11.097	.08
8	MP2A	Z	19.22	.08
9	MP2A	Mx	-.022	.08
10	MP2A	X	11.097	4.08
11	MP2A	Z	19.22	4.08
12	MP2A	Mx	-.022	4.08
13	MP4A	X	4.498	.42
14	MP4A	Z	7.79	.42
15	MP4A	Mx	-.004	.42
16	MP4A	X	4.498	2.92
17	MP4A	Z	7.79	2.92
18	MP4A	Mx	-.004	2.92
19	S1	X	8.816	1
20	S1	Z	15.27	1
21	S1	Mx	.004	1
22	MP3A	X	4.737	1.1
23	MP3A	Z	8.205	1.1
24	MP3A	Mx	.002	1.1
25	MP4A	X	4.589	1.1
26	MP4A	Z	7.948	1.1
27	MP4A	Mx	.002	1.1
28	MP1A	X	9.006	.25
29	MP1A	Z	15.599	.25
30	MP1A	Mx	-.004	.25
31	MP1A	X	9.006	4.28
32	MP1A	Z	15.599	4.28
33	MP1A	Mx	-.004	4.28

Member Point Loads (BLC 21 : Antenna Wi (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	0	.08
2	MP2A	Z	24.495	.08
3	MP2A	Mx	.014	.08
4	MP2A	X	0	4.08
5	MP2A	Z	24.495	4.08
6	MP2A	Mx	.014	4.08
7	MP2A	X	0	.08
8	MP2A	Z	24.495	.08
9	MP2A	Mx	-.02	.08
10	MP2A	X	0	4.08
11	MP2A	Z	24.495	4.08
12	MP2A	Mx	-.02	4.08
13	MP4A	X	0	.42
14	MP4A	Z	10.652	.42
15	MP4A	Mx	-.001	.42
16	MP4A	X	0	2.92



Member Point Loads (BLC 21 : Antenna Wi (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
17	MP4A	Z	10.652	2.92
18	MP4A	Mx	-.001	2.92
19	S1	X	0	1
20	S1	Z	16.482	1
21	S1	Mx	0	1
22	MP3A	X	0	1.1
23	MP3A	Z	10.255	1.1
24	MP3A	Mx	0	1.1
25	MP4A	X	0	1.1
26	MP4A	Z	10.255	1.1
27	MP4A	Mx	0	1.1
28	MP1A	X	0	.25
29	MP1A	Z	20.469	.25
30	MP1A	Mx	-.001	.25
31	MP1A	X	0	4.28
32	MP1A	Z	20.469	4.28
33	MP1A	Mx	-.001	4.28

Member Point Loads (BLC 22 : Antenna Wi (210 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-11.987	.08
2	MP2A	Z	20.762	.08
3	MP2A	Mx	.021	.08
4	MP2A	X	-11.987	4.08
5	MP2A	Z	20.762	4.08
6	MP2A	Mx	.021	4.08
7	MP2A	X	-11.987	.08
8	MP2A	Z	20.762	.08
9	MP2A	Mx	-.01	.08
10	MP2A	X	-11.987	4.08
11	MP2A	Z	20.762	4.08
12	MP2A	Mx	-.01	4.08
13	MP4A	X	-5.138	.42
14	MP4A	Z	8.9	.42
15	MP4A	Mx	.002	.42
16	MP4A	X	-5.138	2.92
17	MP4A	Z	8.9	2.92
18	MP4A	Mx	.002	2.92
19	S1	X	-8.816	1
20	S1	Z	15.27	1
21	S1	Mx	-.004	1
22	MP3A	X	-4.737	1.1
23	MP3A	Z	8.205	1.1
24	MP3A	Mx	-.002	1.1
25	MP4A	X	-4.589	1.1
26	MP4A	Z	7.948	1.1
27	MP4A	Mx	-.002	1.1
28	MP1A	X	-9.956	.25
29	MP1A	Z	17.244	.25
30	MP1A	Mx	.002	.25
31	MP1A	X	-9.956	4.28
32	MP1A	Z	17.244	4.28
33	MP1A	Mx	.002	4.28

Member Point Loads (BLC 23 : Antenna Wi (240 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
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Member Point Loads (BLC 23 : Antenna Wi (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-18.316	.08
2	MP2A	Z	10.575	.08
3	MP2A	Mx	.02	.08
4	MP2A	X	-18.316	4.08
5	MP2A	Z	10.575	4.08
6	MP2A	Mx	.02	4.08
7	MP2A	X	-18.316	.08
8	MP2A	Z	10.575	.08
9	MP2A	Mx	.001	.08
10	MP2A	X	-18.316	4.08
11	MP2A	Z	10.575	4.08
12	MP2A	Mx	.001	4.08
13	MP4A	X	-7.14	.42
14	MP4A	Z	4.122	.42
15	MP4A	Mx	.004	.42
16	MP4A	X	-7.14	2.92
17	MP4A	Z	4.122	2.92
18	MP4A	Mx	.004	2.92
19	S1	X	-17.261	1
20	S1	Z	9.966	1
21	S1	Mx	-.009	1
22	MP3A	X	-6.852	1.1
23	MP3A	Z	3.956	1.1
24	MP3A	Mx	-.003	1.1
25	MP4A	X	-6.081	1.1
26	MP4A	Z	3.511	1.1
27	MP4A	Mx	-.003	1.1
28	MP1A	X	-14.634	.25
29	MP1A	Z	8.449	.25
30	MP1A	Mx	.004	.25
31	MP1A	X	-14.634	4.28
32	MP1A	Z	8.449	4.28
33	MP1A	Mx	.004	4.28

Member Point Loads (BLC 24 : Antenna Wi (270 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-18.847	.08
2	MP2A	Z	0	.08
3	MP2A	Mx	.015	.08
4	MP2A	X	-18.847	4.08
5	MP2A	Z	0	4.08
6	MP2A	Mx	.015	4.08
7	MP2A	X	-18.847	.08
8	MP2A	Z	0	.08
9	MP2A	Mx	.01	.08
10	MP2A	X	-18.847	4.08
11	MP2A	Z	0	4.08
12	MP2A	Mx	.01	4.08
13	MP4A	X	-6.587	.42
14	MP4A	Z	0	.42
15	MP4A	Mx	.004	.42
16	MP4A	X	-6.587	2.92
17	MP4A	Z	0	2.92
18	MP4A	Mx	.004	2.92
19	S1	X	-21.081	1
20	S1	Z	0	1



Member Point Loads (BLC 24 : Antenna Wi (270 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
21	S1	Mx	-.011	1
22	MP3A	X	-7.131	1.1
23	MP3A	Z	0	1.1
24	MP3A	Mx	-.004	1.1
25	MP4A	X	-5.944	1.1
26	MP4A	Z	0	1.1
27	MP4A	Mx	-.003	1.1
28	MP1A	X	-14.44	.25
29	MP1A	Z	0	.25
30	MP1A	Mx	.005	.25
31	MP1A	X	-14.44	4.28
32	MP1A	Z	0	4.28
33	MP1A	Mx	.005	4.28

Member Point Loads (BLC 25 : Antenna Wi (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-16.774	.08
2	MP2A	Z	-9.684	.08
3	MP2A	Mx	.007	.08
4	MP2A	X	-16.774	4.08
5	MP2A	Z	-9.684	4.08
6	MP2A	Mx	.007	4.08
7	MP2A	X	-16.774	.08
8	MP2A	Z	-9.684	.08
9	MP2A	Mx	.017	.08
10	MP2A	X	-16.774	4.08
11	MP2A	Z	-9.684	4.08
12	MP2A	Mx	.017	4.08
13	MP4A	X	-6.03	.42
14	MP4A	Z	-3.482	.42
15	MP4A	Mx	.004	.42
16	MP4A	X	-6.03	2.92
17	MP4A	Z	-3.482	2.92
18	MP4A	Mx	.004	2.92
19	S1	X	-17.261	1
20	S1	Z	-9.966	1
21	S1	Mx	-.009	1
22	MP3A	X	-6.852	1.1
23	MP3A	Z	-3.956	1.1
24	MP3A	Mx	-.003	1.1
25	MP4A	X	-6.081	1.1
26	MP4A	Z	-3.511	1.1
27	MP4A	Mx	-.003	1.1
28	MP1A	X	-12.988	.25
29	MP1A	Z	-7.499	.25
30	MP1A	Mx	.005	.25
31	MP1A	X	-12.988	4.28
32	MP1A	Z	-7.499	4.28
33	MP1A	Mx	.005	4.28

Member Point Loads (BLC 26 : Antenna Wi (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-11.097	.08
2	MP2A	Z	-19.22	.08
3	MP2A	Mx	-.003	.08
4	MP2A	X	-11.097	4.08



Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
5	MP2A	Z	-19.22	4.08
6	MP2A	Mx	-.003	4.08
7	MP2A	X	-11.097	.08
8	MP2A	Z	-19.22	.08
9	MP2A	Mx	.022	.08
10	MP2A	X	-11.097	4.08
11	MP2A	Z	-19.22	4.08
12	MP2A	Mx	.022	4.08
13	MP4A	X	-4.498	.42
14	MP4A	Z	-7.79	.42
15	MP4A	Mx	.004	.42
16	MP4A	X	-4.498	2.92
17	MP4A	Z	-7.79	2.92
18	MP4A	Mx	.004	2.92
19	S1	X	-8.816	1
20	S1	Z	-15.27	1
21	S1	Mx	-.004	1
22	MP3A	X	-4.737	1.1
23	MP3A	Z	-8.205	1.1
24	MP3A	Mx	-.002	1.1
25	MP4A	X	-4.589	1.1
26	MP4A	Z	-7.948	1.1
27	MP4A	Mx	-.002	1.1
28	MP1A	X	-9.006	.25
29	MP1A	Z	-15.599	.25
30	MP1A	Mx	.004	.25
31	MP1A	X	-9.006	4.28
32	MP1A	Z	-15.599	4.28
33	MP1A	Mx	.004	4.28

Member Point Loads (BLC 27 : Antenna Wm (0 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	.08
2	MP2A	Z	-12.637	.08
3	MP2A	Mx	-.007	.08
4	MP2A	X	0	4.08
5	MP2A	Z	-12.637	4.08
6	MP2A	Mx	-.007	4.08
7	MP2A	X	0	.08
8	MP2A	Z	-12.637	.08
9	MP2A	Mx	.01	.08
10	MP2A	X	0	4.08
11	MP2A	Z	-12.637	4.08
12	MP2A	Mx	.01	4.08
13	MP4A	X	0	.42
14	MP4A	Z	-5.286	.42
15	MP4A	Mx	.000612	.42
16	MP4A	X	0	2.92
17	MP4A	Z	-5.286	2.92
18	MP4A	Mx	.000612	2.92
19	S1	X	0	1
20	S1	Z	-7.994	1
21	S1	Mx	0	1
22	MP3A	X	0	1.1
23	MP3A	Z	-4.826	1.1
24	MP3A	Mx	0	1.1



Member Point Loads (BLC 27 : Antenna Wm (0 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
25	MP4A	X	0	1.1
26	MP4A	Z	-4.826	1.1
27	MP4A	Mx	0	1.1
28	MP1A	X	0	.25
29	MP1A	Z	-10.435	.25
30	MP1A	Mx	.000604	.25
31	MP1A	X	0	4.28
32	MP1A	Z	-10.435	4.28
33	MP1A	Mx	.000604	4.28

Member Point Loads (BLC 28 : Antenna Wm (30 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	6.177	.08
2	MP2A	Z	-10.699	.08
3	MP2A	Mx	-.011	.08
4	MP2A	X	6.177	4.08
5	MP2A	Z	-10.699	4.08
6	MP2A	Mx	-.011	4.08
7	MP2A	X	6.177	.08
8	MP2A	Z	-10.699	.08
9	MP2A	Mx	.005	.08
10	MP2A	X	6.177	4.08
11	MP2A	Z	-10.699	4.08
12	MP2A	Mx	.005	4.08
13	MP4A	X	2.544	.42
14	MP4A	Z	-4.406	.42
15	MP4A	Mx	-.001	.42
16	MP4A	X	2.544	2.92
17	MP4A	Z	-4.406	2.92
18	MP4A	Mx	-.001	2.92
19	S1	X	4.307	1
20	S1	Z	-7.461	1
21	S1	Mx	.002	1
22	MP3A	X	2.213	1.1
23	MP3A	Z	-3.833	1.1
24	MP3A	Mx	.001	1.1
25	MP4A	X	2.136	1.1
26	MP4A	Z	-3.7	1.1
27	MP4A	Mx	.001	1.1
28	MP1A	X	5.062	.25
29	MP1A	Z	-8.768	.25
30	MP1A	Mx	-.001	.25
31	MP1A	X	5.062	4.28
32	MP1A	Z	-8.768	4.28
33	MP1A	Mx	-.001	4.28

Member Point Loads (BLC 29 : Antenna Wm (60 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	9.369	.08
2	MP2A	Z	-5.409	.08
3	MP2A	Mx	-.01	.08
4	MP2A	X	9.369	4.08
5	MP2A	Z	-5.409	4.08
6	MP2A	Mx	-.01	4.08
7	MP2A	X	9.369	.08
8	MP2A	Z	-5.409	.08



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Member Point Loads (BLC 29 : Antenna Wm (60 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
9	MP2A	Mx	-.000599	.08
10	MP2A	X	9.369	4.08
11	MP2A	Z	-5.409	4.08
12	MP2A	Mx	-.000599	4.08
13	MP4A	X	3.476	.42
14	MP4A	Z	-2.007	.42
15	MP4A	Mx	-.002	.42
16	MP4A	X	3.476	2.92
17	MP4A	Z	-2.007	2.92
18	MP4A	Mx	-.002	2.92
19	S1	X	8.536	1
20	S1	Z	-4.928	1
21	S1	Mx	.004	1
22	MP3A	X	3.14	1.1
23	MP3A	Z	-1.813	1.1
24	MP3A	Mx	.002	1.1
25	MP4A	X	2.742	1.1
26	MP4A	Z	-1.583	1.1
27	MP4A	Mx	.001	1.1
28	MP1A	X	7.317	.25
29	MP1A	Z	-4.224	.25
30	MP1A	Mx	-.002	.25
31	MP1A	X	7.317	4.28
32	MP1A	Z	-4.224	4.28
33	MP1A	Mx	-.002	4.28

Member Point Loads (BLC 30 : Antenna Wm (90 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	9.567	.08
2	MP2A	Z	0	.08
3	MP2A	Mx	-.007	.08
4	MP2A	X	9.567	4.08
5	MP2A	Z	0	4.08
6	MP2A	Mx	-.007	4.08
7	MP2A	X	9.567	.08
8	MP2A	Z	0	.08
9	MP2A	Mx	-.005	.08
10	MP2A	X	9.567	4.08
11	MP2A	Z	0	4.08
12	MP2A	Mx	-.005	4.08
13	MP4A	X	3.138	.42
14	MP4A	Z	0	.42
15	MP4A	Mx	-.002	.42
16	MP4A	X	3.138	2.92
17	MP4A	Z	0	2.92
18	MP4A	Mx	-.002	2.92
19	S1	X	10.478	1
20	S1	Z	0	1
21	S1	Mx	.005	1
22	MP3A	X	3.226	1.1
23	MP3A	Z	0	1.1
24	MP3A	Mx	.002	1.1
25	MP4A	X	2.613	1.1
26	MP4A	Z	0	1.1
27	MP4A	Mx	.001	1.1
28	MP1A	X	7.082	.25



Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
29	MP1A	Z	0	.25
30	MP1A	Mx	-.002	.25
31	MP1A	X	7.082	4.28
32	MP1A	Z	0	4.28
33	MP1A	Mx	-.002	4.28

Member Point Loads (BLC 31 : Antenna Wm (120 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	8.531	.08
2	MP2A	Z	4.925	.08
3	MP2A	Mx	-.004	.08
4	MP2A	X	8.531	4.08
5	MP2A	Z	4.925	4.08
6	MP2A	Mx	-.004	4.08
7	MP2A	X	8.531	.08
8	MP2A	Z	4.925	.08
9	MP2A	Mx	-.009	.08
10	MP2A	X	8.531	4.08
11	MP2A	Z	4.925	4.08
12	MP2A	Mx	-.009	4.08
13	MP4A	X	2.89	.42
14	MP4A	Z	1.668	.42
15	MP4A	Mx	-.002	.42
16	MP4A	X	2.89	2.92
17	MP4A	Z	1.668	2.92
18	MP4A	Mx	-.002	2.92
19	S1	X	8.536	1
20	S1	Z	4.928	1
21	S1	Mx	.004	1
22	MP3A	X	3.14	1.1
23	MP3A	Z	1.813	1.1
24	MP3A	Mx	.002	1.1
25	MP4A	X	2.742	1.1
26	MP4A	Z	1.583	1.1
27	MP4A	Mx	.001	1.1
28	MP1A	X	6.402	.25
29	MP1A	Z	3.696	.25
30	MP1A	Mx	-.002	.25
31	MP1A	X	6.402	4.28
32	MP1A	Z	3.696	4.28
33	MP1A	Mx	-.002	4.28

Member Point Loads (BLC 32 : Antenna Wm (150 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	5.693	.08
2	MP2A	Z	9.861	.08
3	MP2A	Mx	.001	.08
4	MP2A	X	5.693	4.08
5	MP2A	Z	9.861	4.08
6	MP2A	Mx	.001	4.08
7	MP2A	X	5.693	.08
8	MP2A	Z	9.861	.08
9	MP2A	Mx	-.011	.08
10	MP2A	X	5.693	4.08
11	MP2A	Z	9.861	4.08
12	MP2A	Mx	-.011	4.08



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Member Point Loads (BLC 32 : Antenna Wm (150 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
13	MP4A	X	2.205	.42
14	MP4A	Z	3.82	.42
15	MP4A	Mx	-.002	.42
16	MP4A	X	2.205	2.92
17	MP4A	Z	3.82	2.92
18	MP4A	Mx	-.002	2.92
19	S1	X	4.307	1
20	S1	Z	7.461	1
21	S1	Mx	.002	1
22	MP3A	X	2.213	1.1
23	MP3A	Z	3.833	1.1
24	MP3A	Mx	.001	1.1
25	MP4A	X	2.136	1.1
26	MP4A	Z	3.7	1.1
27	MP4A	Mx	.001	1.1
28	MP1A	X	4.534	.25
29	MP1A	Z	7.853	.25
30	MP1A	Mx	-.002	.25
31	MP1A	X	4.534	4.28
32	MP1A	Z	7.853	4.28
33	MP1A	Mx	-.002	4.28

Member Point Loads (BLC 33 : Antenna Wm (180 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP2A	X	0	.08
2	MP2A	Z	12.637	.08
3	MP2A	Mx	.007	.08
4	MP2A	X	0	4.08
5	MP2A	Z	12.637	4.08
6	MP2A	Mx	.007	4.08
7	MP2A	X	0	.08
8	MP2A	Z	12.637	.08
9	MP2A	Mx	-.01	.08
10	MP2A	X	0	4.08
11	MP2A	Z	12.637	4.08
12	MP2A	Mx	-.01	4.08
13	MP4A	X	0	.42
14	MP4A	Z	5.286	.42
15	MP4A	Mx	-.000612	.42
16	MP4A	X	0	2.92
17	MP4A	Z	5.286	2.92
18	MP4A	Mx	-.000612	2.92
19	S1	X	0	1
20	S1	Z	7.994	1
21	S1	Mx	0	1
22	MP3A	X	0	1.1
23	MP3A	Z	4.826	1.1
24	MP3A	Mx	0	1.1
25	MP4A	X	0	1.1
26	MP4A	Z	4.826	1.1
27	MP4A	Mx	0	1.1
28	MP1A	X	0	.25
29	MP1A	Z	10.435	.25
30	MP1A	Mx	-.000604	.25
31	MP1A	X	0	4.28
32	MP1A	Z	10.435	4.28



Member Point Loads (BLC 33 : Antenna Wm (180 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
33	MP1A	Mx	-.000604	4.28

Member Point Loads (BLC 34 : Antenna Wm (210 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-6.177	.08
2	MP2A	Z	10.699	.08
3	MP2A	Mx	.011	.08
4	MP2A	X	-6.177	4.08
5	MP2A	Z	10.699	4.08
6	MP2A	Mx	.011	4.08
7	MP2A	X	-6.177	.08
8	MP2A	Z	10.699	.08
9	MP2A	Mx	-.005	.08
10	MP2A	X	-6.177	4.08
11	MP2A	Z	10.699	4.08
12	MP2A	Mx	-.005	4.08
13	MP4A	X	-2.544	.42
14	MP4A	Z	4.406	.42
15	MP4A	Mx	.001	.42
16	MP4A	X	-2.544	2.92
17	MP4A	Z	4.406	2.92
18	MP4A	Mx	.001	2.92
19	S1	X	-4.307	1
20	S1	Z	7.461	1
21	S1	Mx	-.002	1
22	MP3A	X	-2.213	1.1
23	MP3A	Z	3.833	1.1
24	MP3A	Mx	-.001	1.1
25	MP4A	X	-2.136	1.1
26	MP4A	Z	3.7	1.1
27	MP4A	Mx	-.001	1.1
28	MP1A	X	-5.062	.25
29	MP1A	Z	8.768	.25
30	MP1A	Mx	.001	.25
31	MP1A	X	-5.062	4.28
32	MP1A	Z	8.768	4.28
33	MP1A	Mx	.001	4.28

Member Point Loads (BLC 35 : Antenna Wm (240 Deg))

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-9.369	.08
2	MP2A	Z	5.409	.08
3	MP2A	Mx	.01	.08
4	MP2A	X	-9.369	4.08
5	MP2A	Z	5.409	4.08
6	MP2A	Mx	.01	4.08
7	MP2A	X	-9.369	.08
8	MP2A	Z	5.409	.08
9	MP2A	Mx	.000599	.08
10	MP2A	X	-9.369	4.08
11	MP2A	Z	5.409	4.08
12	MP2A	Mx	.000599	4.08
13	MP4A	X	-3.476	.42
14	MP4A	Z	2.007	.42
15	MP4A	Mx	.002	.42
16	MP4A	X	-3.476	2.92



Member Point Loads (BLC 35 : Antenna Wm (240 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
17	MP4A	Z	2.007	2.92
18	MP4A	Mx	.002	2.92
19	S1	X	-8.536	1
20	S1	Z	4.928	1
21	S1	Mx	-.004	1
22	MP3A	X	-3.14	1.1
23	MP3A	Z	1.813	1.1
24	MP3A	Mx	-.002	1.1
25	MP4A	X	-2.742	1.1
26	MP4A	Z	1.583	1.1
27	MP4A	Mx	-.001	1.1
28	MP1A	X	-7.317	.25
29	MP1A	Z	4.224	.25
30	MP1A	Mx	.002	.25
31	MP1A	X	-7.317	4.28
32	MP1A	Z	4.224	4.28
33	MP1A	Mx	.002	4.28

Member Point Loads (BLC 36 : Antenna Wm (270 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	-9.567	.08
2	MP2A	Z	0	.08
3	MP2A	Mx	.007	.08
4	MP2A	X	-9.567	4.08
5	MP2A	Z	0	4.08
6	MP2A	Mx	.007	4.08
7	MP2A	X	-9.567	.08
8	MP2A	Z	0	.08
9	MP2A	Mx	.005	.08
10	MP2A	X	-9.567	4.08
11	MP2A	Z	0	4.08
12	MP2A	Mx	.005	4.08
13	MP4A	X	-3.138	.42
14	MP4A	Z	0	.42
15	MP4A	Mx	.002	.42
16	MP4A	X	-3.138	2.92
17	MP4A	Z	0	2.92
18	MP4A	Mx	.002	2.92
19	S1	X	-10.478	1
20	S1	Z	0	1
21	S1	Mx	-.005	1
22	MP3A	X	-3.226	1.1
23	MP3A	Z	0	1.1
24	MP3A	Mx	-.002	1.1
25	MP4A	X	-2.613	1.1
26	MP4A	Z	0	1.1
27	MP4A	Mx	-.001	1.1
28	MP1A	X	-7.082	.25
29	MP1A	Z	0	.25
30	MP1A	Mx	.002	.25
31	MP1A	X	-7.082	4.28
32	MP1A	Z	0	4.28
33	MP1A	Mx	.002	4.28

Member Point Loads (BLC 37 : Antenna Wm (300 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
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Member Point Loads (BLC 37 : Antenna Wm (300 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	-8.531	.08
2	MP2A	Z	-4.925	.08
3	MP2A	Mx	.004	.08
4	MP2A	X	-8.531	4.08
5	MP2A	Z	-4.925	4.08
6	MP2A	Mx	.004	4.08
7	MP2A	X	-8.531	.08
8	MP2A	Z	-4.925	.08
9	MP2A	Mx	.009	.08
10	MP2A	X	-8.531	4.08
11	MP2A	Z	-4.925	4.08
12	MP2A	Mx	.009	4.08
13	MP4A	X	-2.89	.42
14	MP4A	Z	-1.668	.42
15	MP4A	Mx	.002	.42
16	MP4A	X	-2.89	2.92
17	MP4A	Z	-1.668	2.92
18	MP4A	Mx	.002	2.92
19	S1	X	-8.536	1
20	S1	Z	-4.928	1
21	S1	Mx	-.004	1
22	MP3A	X	-3.14	1.1
23	MP3A	Z	-1.813	1.1
24	MP3A	Mx	-.002	1.1
25	MP4A	X	-2.742	1.1
26	MP4A	Z	-1.583	1.1
27	MP4A	Mx	-.001	1.1
28	MP1A	X	-6.402	.25
29	MP1A	Z	-3.696	.25
30	MP1A	Mx	.002	.25
31	MP1A	X	-6.402	4.28
32	MP1A	Z	-3.696	4.28
33	MP1A	Mx	.002	4.28

Member Point Loads (BLC 38 : Antenna Wm (330 Deg))

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%,]
1	MP2A	X	-5.693	.08
2	MP2A	Z	-9.861	.08
3	MP2A	Mx	-.001	.08
4	MP2A	X	-5.693	4.08
5	MP2A	Z	-9.861	4.08
6	MP2A	Mx	-.001	4.08
7	MP2A	X	-5.693	.08
8	MP2A	Z	-9.861	.08
9	MP2A	Mx	.011	.08
10	MP2A	X	-5.693	4.08
11	MP2A	Z	-9.861	4.08
12	MP2A	Mx	.011	4.08
13	MP4A	X	-2.205	.42
14	MP4A	Z	-3.82	.42
15	MP4A	Mx	.002	.42
16	MP4A	X	-2.205	2.92
17	MP4A	Z	-3.82	2.92
18	MP4A	Mx	.002	2.92
19	S1	X	-4.307	1
20	S1	Z	-7.461	1



Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
21	S1	Mx	-0.002	1
22	MP3A	X	-2.213	1.1
23	MP3A	Z	-3.833	1.1
24	MP3A	Mx	-0.001	1.1
25	MP4A	X	-2.136	1.1
26	MP4A	Z	-3.7	1.1
27	MP4A	Mx	-0.001	1.1
28	MP1A	X	-4.534	.25
29	MP1A	Z	-7.853	.25
30	MP1A	Mx	.002	.25
31	MP1A	X	-4.534	4.28
32	MP1A	Z	-7.853	4.28
33	MP1A	Mx	.002	4.28

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	A2	Y	-250	%38

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	A2	Y	-250	%97

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	A2	Y	-250	%100

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	A2	Y	-250	%50

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	A1	Y	-9.517	-9.517	0	%100
2	A2	Y	-9.517	-9.517	0	%100
3	A9	Y	-7.898	-7.898	0	%100
4	MP1A	Y	-4.925	-4.925	0	%100
5	MP4A	Y	-4.925	-4.925	0	%100
6	S1	Y	-4.925	-4.925	0	%100
7	MP3A	Y	-4.925	-4.925	0	%100
8	MP2A	Y	-5.625	-5.625	0	%100
9	M15A	Y	-7.538	-7.538	0	%100
10	M16	Y	-6.499	-6.499	0	%100

Member Distributed Loads (BLC 41 : Structure Wo (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft, %]	End Location[ft, %]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-15.477	-15.477	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	-9.839	-9.839	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-8.822	-8.822	0	%100



Member Distributed Loads (BLC 41 : Structure Wo (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-8.822	-8.822	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	-7.214	-7.214	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-8.822	-8.822	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	-10.679	-10.679	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-13	-13	0	%100

Member Distributed Loads (BLC 42 : Structure Wo (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	1.375	1.375	0	%100
2	A1	Z	-2.381	-2.381	0	%100
3	A2	X	5.804	5.804	0	%100
4	A2	Z	-10.052	-10.052	0	%100
5	A9	X	4.92	4.92	0	%100
6	A9	Z	-8.521	-8.521	0	%100
7	MP1A	X	4.411	4.411	0	%100
8	MP1A	Z	-7.64	-7.64	0	%100
9	MP4A	X	4.411	4.411	0	%100
10	MP4A	Z	-7.64	-7.64	0	%100
11	S1	X	3.607	3.607	0	%100
12	S1	Z	-6.247	-6.247	0	%100
13	MP3A	X	4.411	4.411	0	%100
14	MP3A	Z	-7.64	-7.64	0	%100
15	MP2A	X	5.339	5.339	0	%100
16	MP2A	Z	-9.248	-9.248	0	%100
17	M15A	X	1.065	1.065	0	%100
18	M15A	Z	-1.845	-1.845	0	%100
19	M16	X	4.875	4.875	0	%100
20	M16	Z	-8.444	-8.444	0	%100

Member Distributed Loads (BLC 43 : Structure Wo (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	7.143	7.143	0	%100
2	A1	Z	-4.124	-4.124	0	%100
3	A2	X	3.351	3.351	0	%100
4	A2	Z	-1.935	-1.935	0	%100
5	A9	X	8.521	8.521	0	%100
6	A9	Z	-4.92	-4.92	0	%100
7	MP1A	X	7.64	7.64	0	%100
8	MP1A	Z	-4.411	-4.411	0	%100
9	MP4A	X	7.64	7.64	0	%100
10	MP4A	Z	-4.411	-4.411	0	%100
11	S1	X	6.247	6.247	0	%100
12	S1	Z	-3.607	-3.607	0	%100
13	MP3A	X	7.64	7.64	0	%100
14	MP3A	Z	-4.411	-4.411	0	%100
15	MP2A	X	9.248	9.248	0	%100
16	MP2A	Z	-5.339	-5.339	0	%100
17	M15A	X	5.536	5.536	0	%100
18	M15A	Z	-3.196	-3.196	0	%100



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Member Distributed Loads (BLC 43 : Structure Wo (60 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
19	M16	X	2.815	2.815	0	%100
20	M16	Z	-1.625	-1.625	0	%100

Member Distributed Loads (BLC 44 : Structure Wo (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	10.997	10.997	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	9.839	9.839	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	8.822	8.822	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	8.822	8.822	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	7.214	7.214	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	8.822	8.822	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	10.679	10.679	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	8.523	8.523	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

Member Distributed Loads (BLC 45 : Structure Wo (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	7.143	7.143	0	%100
2	A1	Z	4.124	4.124	0	%100
3	A2	X	3.351	3.351	0	%100
4	A2	Z	1.935	1.935	0	%100
5	A9	X	8.521	8.521	0	%100
6	A9	Z	4.92	4.92	0	%100
7	MP1A	X	7.64	7.64	0	%100
8	MP1A	Z	4.411	4.411	0	%100
9	MP4A	X	7.64	7.64	0	%100
10	MP4A	Z	4.411	4.411	0	%100
11	S1	X	6.247	6.247	0	%100
12	S1	Z	3.607	3.607	0	%100
13	MP3A	X	7.64	7.64	0	%100
14	MP3A	Z	4.411	4.411	0	%100
15	MP2A	X	9.248	9.248	0	%100
16	MP2A	Z	5.339	5.339	0	%100
17	M15A	X	5.536	5.536	0	%100
18	M15A	Z	3.196	3.196	0	%100
19	M16	X	2.815	2.815	0	%100
20	M16	Z	1.625	1.625	0	%100

Member Distributed Loads (BLC 46 : Structure Wo (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	1.375	1.375	0	%100
2	A1	Z	2.381	2.381	0	%100
3	A2	X	5.804	5.804	0	%100
4	A2	Z	10.052	10.052	0	%100



Member Distributed Loads (BLC 46 : Structure Wo (150 Deg)) (Continued)

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
5	A9	X	4.92	4.92	0 %100
6	A9	Z	8.521	8.521	0 %100
7	MP1A	X	4.411	4.411	0 %100
8	MP1A	Z	7.64	7.64	0 %100
9	MP4A	X	4.411	4.411	0 %100
10	MP4A	Z	7.64	7.64	0 %100
11	S1	X	3.607	3.607	0 %100
12	S1	Z	6.247	6.247	0 %100
13	MP3A	X	4.411	4.411	0 %100
14	MP3A	Z	7.64	7.64	0 %100
15	MP2A	X	5.339	5.339	0 %100
16	MP2A	Z	9.248	9.248	0 %100
17	M15A	X	1.065	1.065	0 %100
18	M15A	Z	1.845	1.845	0 %100
19	M16	X	4.875	4.875	0 %100
20	M16	Z	8.444	8.444	0 %100

Member Distributed Loads (BLC 47 : Structure Wo (180 Deg))

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0 %100
2	A1	Z	0	0	0 %100
3	A2	X	0	0	0 %100
4	A2	Z	15.477	15.477	0 %100
5	A9	X	0	0	0 %100
6	A9	Z	9.839	9.839	0 %100
7	MP1A	X	0	0	0 %100
8	MP1A	Z	8.822	8.822	0 %100
9	MP4A	X	0	0	0 %100
10	MP4A	Z	8.822	8.822	0 %100
11	S1	X	0	0	0 %100
12	S1	Z	7.214	7.214	0 %100
13	MP3A	X	0	0	0 %100
14	MP3A	Z	8.822	8.822	0 %100
15	MP2A	X	0	0	0 %100
16	MP2A	Z	10.679	10.679	0 %100
17	M15A	X	0	0	0 %100
18	M15A	Z	0	0	0 %100
19	M16	X	0	0	0 %100
20	M16	Z	13	13	0 %100

Member Distributed Loads (BLC 48 : Structure Wo (210 Deg))

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-1.375	-1.375	0 %100
2	A1	Z	2.381	2.381	0 %100
3	A2	X	-5.804	-5.804	0 %100
4	A2	Z	10.052	10.052	0 %100
5	A9	X	-4.92	-4.92	0 %100
6	A9	Z	8.521	8.521	0 %100
7	MP1A	X	-4.411	-4.411	0 %100
8	MP1A	Z	7.64	7.64	0 %100
9	MP4A	X	-4.411	-4.411	0 %100
10	MP4A	Z	7.64	7.64	0 %100
11	S1	X	-3.607	-3.607	0 %100
12	S1	Z	6.247	6.247	0 %100
13	MP3A	X	-4.411	-4.411	0 %100
14	MP3A	Z	7.64	7.64	0 %100



Member Distributed Loads (BLC 48 : Structure Wo (210 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
15	MP2A	X	-5.339	-5.339	0	%100
16	MP2A	Z	9.248	9.248	0	%100
17	M15A	X	-1.065	-1.065	0	%100
18	M15A	Z	1.845	1.845	0	%100
19	M16	X	-4.875	-4.875	0	%100
20	M16	Z	8.444	8.444	0	%100

Member Distributed Loads (BLC 49 : Structure Wo (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-7.143	-7.143	0	%100
2	A1	Z	4.124	4.124	0	%100
3	A2	X	-3.351	-3.351	0	%100
4	A2	Z	1.935	1.935	0	%100
5	A9	X	-8.521	-8.521	0	%100
6	A9	Z	4.92	4.92	0	%100
7	MP1A	X	-7.64	-7.64	0	%100
8	MP1A	Z	4.411	4.411	0	%100
9	MP4A	X	-7.64	-7.64	0	%100
10	MP4A	Z	4.411	4.411	0	%100
11	S1	X	-6.247	-6.247	0	%100
12	S1	Z	3.607	3.607	0	%100
13	MP3A	X	-7.64	-7.64	0	%100
14	MP3A	Z	4.411	4.411	0	%100
15	MP2A	X	-9.248	-9.248	0	%100
16	MP2A	Z	5.339	5.339	0	%100
17	M15A	X	-5.536	-5.536	0	%100
18	M15A	Z	3.196	3.196	0	%100
19	M16	X	-2.815	-2.815	0	%100
20	M16	Z	1.625	1.625	0	%100

Member Distributed Loads (BLC 50 : Structure Wo (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-10.997	-10.997	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	-9.839	-9.839	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	-8.822	-8.822	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	-8.822	-8.822	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	-7.214	-7.214	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	-8.822	-8.822	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	-10.679	-10.679	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	-8.523	-8.523	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

Member Distributed Loads (BLC 51 : Structure Wo (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
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Member Distributed Loads (BLC 51 : Structure Wo (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-7.143	-7.143	0	%100
2	A1	Z	-4.124	-4.124	0	%100
3	A2	X	-3.351	-3.351	0	%100
4	A2	Z	-1.935	-1.935	0	%100
5	A9	X	-8.521	-8.521	0	%100
6	A9	Z	-4.92	-4.92	0	%100
7	MP1A	X	-7.64	-7.64	0	%100
8	MP1A	Z	-4.411	-4.411	0	%100
9	MP4A	X	-7.64	-7.64	0	%100
10	MP4A	Z	-4.411	-4.411	0	%100
11	S1	X	-6.247	-6.247	0	%100
12	S1	Z	-3.607	-3.607	0	%100
13	MP3A	X	-7.64	-7.64	0	%100
14	MP3A	Z	-4.411	-4.411	0	%100
15	MP2A	X	-9.248	-9.248	0	%100
16	MP2A	Z	-5.339	-5.339	0	%100
17	M15A	X	-5.536	-5.536	0	%100
18	M15A	Z	-3.196	-3.196	0	%100
19	M16	X	-2.815	-2.815	0	%100
20	M16	Z	-1.625	-1.625	0	%100

Member Distributed Loads (BLC 52 : Structure Wo (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-1.375	-1.375	0	%100
2	A1	Z	-2.381	-2.381	0	%100
3	A2	X	-5.804	-5.804	0	%100
4	A2	Z	-10.052	-10.052	0	%100
5	A9	X	-4.92	-4.92	0	%100
6	A9	Z	-8.521	-8.521	0	%100
7	MP1A	X	-4.411	-4.411	0	%100
8	MP1A	Z	-7.64	-7.64	0	%100
9	MP4A	X	-4.411	-4.411	0	%100
10	MP4A	Z	-7.64	-7.64	0	%100
11	S1	X	-3.607	-3.607	0	%100
12	S1	Z	-6.247	-6.247	0	%100
13	MP3A	X	-4.411	-4.411	0	%100
14	MP3A	Z	-7.64	-7.64	0	%100
15	MP2A	X	-5.339	-5.339	0	%100
16	MP2A	Z	-9.248	-9.248	0	%100
17	M15A	X	-1.065	-1.065	0	%100
18	M15A	Z	-1.845	-1.845	0	%100
19	M16	X	-4.875	-4.875	0	%100
20	M16	Z	-8.444	-8.444	0	%100

Member Distributed Loads (BLC 53 : Structure Wi (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-2.962	-2.962	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	-2.132	-2.132	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-2.14	-2.14	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-2.14	-2.14	0	%100



Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
11	S1	X	0	0	0	%100
12	S1	Z	-1.761	-1.761	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-2.14	-2.14	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	-2.37	-2.37	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-2.657	-2.657	0	%100

Member Distributed Loads (BLC 54 : Structure Wi (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	.266	.266	0	%100
2	A1	Z	-.46	-.46	0	%100
3	A2	X	1.111	1.111	0	%100
4	A2	Z	-1.924	-1.924	0	%100
5	A9	X	1.066	1.066	0	%100
6	A9	Z	-1.846	-1.846	0	%100
7	MP1A	X	1.07	1.07	0	%100
8	MP1A	Z	-1.854	-1.854	0	%100
9	MP4A	X	1.07	1.07	0	%100
10	MP4A	Z	-1.854	-1.854	0	%100
11	S1	X	.881	.881	0	%100
12	S1	Z	-1.525	-1.525	0	%100
13	MP3A	X	1.07	1.07	0	%100
14	MP3A	Z	-1.854	-1.854	0	%100
15	MP2A	X	1.185	1.185	0	%100
16	MP2A	Z	-2.052	-2.052	0	%100
17	M15A	X	.227	.227	0	%100
18	M15A	Z	-.394	-.394	0	%100
19	M16	X	.996	.996	0	%100
20	M16	Z	-1.726	-1.726	0	%100

Member Distributed Loads (BLC 55 : Structure Wi (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	1.38	1.38	0	%100
2	A1	Z	-.797	-.797	0	%100
3	A2	X	.641	.641	0	%100
4	A2	Z	-.37	-.37	0	%100
5	A9	X	1.846	1.846	0	%100
6	A9	Z	-1.066	-1.066	0	%100
7	MP1A	X	1.854	1.854	0	%100
8	MP1A	Z	-1.07	-1.07	0	%100
9	MP4A	X	1.854	1.854	0	%100
10	MP4A	Z	-1.07	-1.07	0	%100
11	S1	X	1.525	1.525	0	%100
12	S1	Z	-.881	-.881	0	%100
13	MP3A	X	1.854	1.854	0	%100
14	MP3A	Z	-1.07	-1.07	0	%100
15	MP2A	X	2.052	2.052	0	%100
16	MP2A	Z	-1.185	-1.185	0	%100
17	M15A	X	1.181	1.181	0	%100
18	M15A	Z	-.682	-.682	0	%100
19	M16	X	.575	.575	0	%100
20	M16	Z	-.332	-.332	0	%100



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Member Distributed Loads (BLC 56 : Structure Wi (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	2.124	2.124	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	2.132	2.132	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	2.14	2.14	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	2.14	2.14	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	1.761	1.761	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	2.14	2.14	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	2.37	2.37	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	1.819	1.819	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

Member Distributed Loads (BLC 57 : Structure Wi (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	1.38	1.38	0	%100
2	A1	Z	.797	.797	0	%100
3	A2	X	.641	.641	0	%100
4	A2	Z	.37	.37	0	%100
5	A9	X	1.846	1.846	0	%100
6	A9	Z	1.066	1.066	0	%100
7	MP1A	X	1.854	1.854	0	%100
8	MP1A	Z	1.07	1.07	0	%100
9	MP4A	X	1.854	1.854	0	%100
10	MP4A	Z	1.07	1.07	0	%100
11	S1	X	1.525	1.525	0	%100
12	S1	Z	.881	.881	0	%100
13	MP3A	X	1.854	1.854	0	%100
14	MP3A	Z	1.07	1.07	0	%100
15	MP2A	X	2.052	2.052	0	%100
16	MP2A	Z	1.185	1.185	0	%100
17	M15A	X	1.181	1.181	0	%100
18	M15A	Z	.682	.682	0	%100
19	M16	X	.575	.575	0	%100
20	M16	Z	.332	.332	0	%100

Member Distributed Loads (BLC 58 : Structure Wi (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.266	.266	0	%100
2	A1	Z	.46	.46	0	%100
3	A2	X	1.111	1.111	0	%100
4	A2	Z	1.924	1.924	0	%100
5	A9	X	1.066	1.066	0	%100
6	A9	Z	1.846	1.846	0	%100
7	MP1A	X	1.07	1.07	0	%100
8	MP1A	Z	1.854	1.854	0	%100
9	MP4A	X	1.07	1.07	0	%100
10	MP4A	Z	1.854	1.854	0	%100



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Member Distributed Loads (BLC 58 : Structure Wi (150 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
11	S1	X	.881	.881	0	%100
12	S1	Z	1.525	1.525	0	%100
13	MP3A	X	1.07	1.07	0	%100
14	MP3A	Z	1.854	1.854	0	%100
15	MP2A	X	1.185	1.185	0	%100
16	MP2A	Z	2.052	2.052	0	%100
17	M15A	X	.227	.227	0	%100
18	M15A	Z	.394	.394	0	%100
19	M16	X	.996	.996	0	%100
20	M16	Z	1.726	1.726	0	%100

Member Distributed Loads (BLC 59 : Structure Wi (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	2.962	2.962	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	2.132	2.132	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	2.14	2.14	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	2.14	2.14	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	1.761	1.761	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	2.14	2.14	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	2.37	2.37	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	2.657	2.657	0	%100

Member Distributed Loads (BLC 60 : Structure Wi (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.266	-.266	0	%100
2	A1	Z	.46	.46	0	%100
3	A2	X	-1.111	-1.111	0	%100
4	A2	Z	1.924	1.924	0	%100
5	A9	X	-1.066	-1.066	0	%100
6	A9	Z	1.846	1.846	0	%100
7	MP1A	X	-1.07	-1.07	0	%100
8	MP1A	Z	1.854	1.854	0	%100
9	MP4A	X	-1.07	-1.07	0	%100
10	MP4A	Z	1.854	1.854	0	%100
11	S1	X	-.881	-.881	0	%100
12	S1	Z	1.525	1.525	0	%100
13	MP3A	X	-1.07	-1.07	0	%100
14	MP3A	Z	1.854	1.854	0	%100
15	MP2A	X	-1.185	-1.185	0	%100
16	MP2A	Z	2.052	2.052	0	%100
17	M15A	X	-.227	-.227	0	%100
18	M15A	Z	.394	.394	0	%100
19	M16	X	-.996	-.996	0	%100
20	M16	Z	1.726	1.726	0	%100



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Member Distributed Loads (BLC 61 : Structure Wi (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-1.38	-1.38	0	%100
2	A1	Z	.797	.797	0	%100
3	A2	X	-.641	-.641	0	%100
4	A2	Z	.37	.37	0	%100
5	A9	X	-1.846	-1.846	0	%100
6	A9	Z	1.066	1.066	0	%100
7	MP1A	X	-1.854	-1.854	0	%100
8	MP1A	Z	1.07	1.07	0	%100
9	MP4A	X	-1.854	-1.854	0	%100
10	MP4A	Z	1.07	1.07	0	%100
11	S1	X	-1.525	-1.525	0	%100
12	S1	Z	.881	.881	0	%100
13	MP3A	X	-1.854	-1.854	0	%100
14	MP3A	Z	1.07	1.07	0	%100
15	MP2A	X	-2.052	-2.052	0	%100
16	MP2A	Z	1.185	1.185	0	%100
17	M15A	X	-1.181	-1.181	0	%100
18	M15A	Z	.682	.682	0	%100
19	M16	X	-.575	-.575	0	%100
20	M16	Z	.332	.332	0	%100

Member Distributed Loads (BLC 62 : Structure Wi (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-2.124	-2.124	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	-2.132	-2.132	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	-2.14	-2.14	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	-2.14	-2.14	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	-1.761	-1.761	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	-2.14	-2.14	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	-2.37	-2.37	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	-1.819	-1.819	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

Member Distributed Loads (BLC 63 : Structure Wi (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-1.38	-1.38	0	%100
2	A1	Z	-.797	-.797	0	%100
3	A2	X	-.641	-.641	0	%100
4	A2	Z	-.37	-.37	0	%100
5	A9	X	-1.846	-1.846	0	%100
6	A9	Z	-1.066	-1.066	0	%100
7	MP1A	X	-1.854	-1.854	0	%100
8	MP1A	Z	-1.07	-1.07	0	%100
9	MP4A	X	-1.854	-1.854	0	%100
10	MP4A	Z	-1.07	-1.07	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10082846
 Model Name : 467734-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 63 : Structure Wi (300 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
11	S1	X	-1.525	-1.525	0	%100
12	S1	Z	-.881	-.881	0	%100
13	MP3A	X	-1.854	-1.854	0	%100
14	MP3A	Z	-1.07	-1.07	0	%100
15	MP2A	X	-2.052	-2.052	0	%100
16	MP2A	Z	-1.185	-1.185	0	%100
17	M15A	X	-1.181	-1.181	0	%100
18	M15A	Z	-.682	-.682	0	%100
19	M16	X	-.575	-.575	0	%100
20	M16	Z	-.332	-.332	0	%100

Member Distributed Loads (BLC 64 : Structure Wi (330 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.266	-.266	0	%100
2	A1	Z	-.46	-.46	0	%100
3	A2	X	-1.111	-1.111	0	%100
4	A2	Z	-1.924	-1.924	0	%100
5	A9	X	-1.066	-1.066	0	%100
6	A9	Z	-1.846	-1.846	0	%100
7	MP1A	X	-1.07	-1.07	0	%100
8	MP1A	Z	-1.854	-1.854	0	%100
9	MP4A	X	-1.07	-1.07	0	%100
10	MP4A	Z	-1.854	-1.854	0	%100
11	S1	X	-.881	-.881	0	%100
12	S1	Z	-1.525	-1.525	0	%100
13	MP3A	X	-1.07	-1.07	0	%100
14	MP3A	Z	-1.854	-1.854	0	%100
15	MP2A	X	-1.185	-1.185	0	%100
16	MP2A	Z	-2.052	-2.052	0	%100
17	M15A	X	-.227	-.227	0	%100
18	M15A	Z	-.394	-.394	0	%100
19	M16	X	-.996	-.996	0	%100
20	M16	Z	-1.726	-1.726	0	%100

Member Distributed Loads (BLC 65 : Structure Wm (0 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	-1.075	-1.075	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	-.684	-.684	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	-.613	-.613	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-.613	-.613	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	-.501	-.501	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-.613	-.613	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	-.742	-.742	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	-.903	-.903	0	%100



Company : GPD
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 Job Number : Project No. 10082846
 Model Name : 467734-VZW_MT_LOT_SectorA_H

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Member Distributed Loads (BLC 66 : Structure Wm (30 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.096	.096	0	%100
2	A1	Z	-.165	-.165	0	%100
3	A2	X	.403	.403	0	%100
4	A2	Z	-.698	-.698	0	%100
5	A9	X	.342	.342	0	%100
6	A9	Z	-.592	-.592	0	%100
7	MP1A	X	.306	.306	0	%100
8	MP1A	Z	-.531	-.531	0	%100
9	MP4A	X	.306	.306	0	%100
10	MP4A	Z	-.531	-.531	0	%100
11	S1	X	.251	.251	0	%100
12	S1	Z	-.434	-.434	0	%100
13	MP3A	X	.306	.306	0	%100
14	MP3A	Z	-.531	-.531	0	%100
15	MP2A	X	.371	.371	0	%100
16	MP2A	Z	-.643	-.643	0	%100
17	M15A	X	.074	.074	0	%100
18	M15A	Z	-.128	-.128	0	%100
19	M16	X	.339	.339	0	%100
20	M16	Z	-.587	-.587	0	%100

Member Distributed Loads (BLC 67 : Structure Wm (60 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.496	.496	0	%100
2	A1	Z	-.287	-.287	0	%100
3	A2	X	.233	.233	0	%100
4	A2	Z	-.134	-.134	0	%100
5	A9	X	.592	.592	0	%100
6	A9	Z	-.342	-.342	0	%100
7	MP1A	X	.531	.531	0	%100
8	MP1A	Z	-.306	-.306	0	%100
9	MP4A	X	.531	.531	0	%100
10	MP4A	Z	-.306	-.306	0	%100
11	S1	X	.434	.434	0	%100
12	S1	Z	-.251	-.251	0	%100
13	MP3A	X	.531	.531	0	%100
14	MP3A	Z	-.306	-.306	0	%100
15	MP2A	X	.643	.643	0	%100
16	MP2A	Z	-.371	-.371	0	%100
17	M15A	X	.385	.385	0	%100
18	M15A	Z	-.222	-.222	0	%100
19	M16	X	.196	.196	0	%100
20	M16	Z	-.113	-.113	0	%100

Member Distributed Loads (BLC 68 : Structure Wm (90 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.764	.764	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	.684	.684	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	.613	.613	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	.613	.613	0	%100
10	MP4A	Z	0	0	0	%100



Company : GPD
 Designer : enieto
 Job Number : Project No. 10082846
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Member Distributed Loads (BLC 68 : Structure Wm (90 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
11	S1	X	.501	.501	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	.613	.613	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	.742	.742	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	.592	.592	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

Member Distributed Loads (BLC 69 : Structure Wm (120 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.496	.496	0	%100
2	A1	Z	.287	.287	0	%100
3	A2	X	.233	.233	0	%100
4	A2	Z	.134	.134	0	%100
5	A9	X	.592	.592	0	%100
6	A9	Z	.342	.342	0	%100
7	MP1A	X	.531	.531	0	%100
8	MP1A	Z	.306	.306	0	%100
9	MP4A	X	.531	.531	0	%100
10	MP4A	Z	.306	.306	0	%100
11	S1	X	.434	.434	0	%100
12	S1	Z	.251	.251	0	%100
13	MP3A	X	.531	.531	0	%100
14	MP3A	Z	.306	.306	0	%100
15	MP2A	X	.643	.643	0	%100
16	MP2A	Z	.371	.371	0	%100
17	M15A	X	.385	.385	0	%100
18	M15A	Z	.222	.222	0	%100
19	M16	X	.196	.196	0	%100
20	M16	Z	.113	.113	0	%100

Member Distributed Loads (BLC 70 : Structure Wm (150 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	.096	.096	0	%100
2	A1	Z	.165	.165	0	%100
3	A2	X	.403	.403	0	%100
4	A2	Z	.698	.698	0	%100
5	A9	X	.342	.342	0	%100
6	A9	Z	.592	.592	0	%100
7	MP1A	X	.306	.306	0	%100
8	MP1A	Z	.531	.531	0	%100
9	MP4A	X	.306	.306	0	%100
10	MP4A	Z	.531	.531	0	%100
11	S1	X	.251	.251	0	%100
12	S1	Z	.434	.434	0	%100
13	MP3A	X	.306	.306	0	%100
14	MP3A	Z	.531	.531	0	%100
15	MP2A	X	.371	.371	0	%100
16	MP2A	Z	.643	.643	0	%100
17	M15A	X	.074	.074	0	%100
18	M15A	Z	.128	.128	0	%100
19	M16	X	.339	.339	0	%100
20	M16	Z	.587	.587	0	%100



Member Distributed Loads (BLC 71 : Structure Wm (180 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	0	0	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	1.075	1.075	0	%100
5	A9	X	0	0	0	%100
6	A9	Z	.684	.684	0	%100
7	MP1A	X	0	0	0	%100
8	MP1A	Z	.613	.613	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.613	.613	0	%100
11	S1	X	0	0	0	%100
12	S1	Z	.501	.501	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	.613	.613	0	%100
15	MP2A	X	0	0	0	%100
16	MP2A	Z	.742	.742	0	%100
17	M15A	X	0	0	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	.903	.903	0	%100

Member Distributed Loads (BLC 72 : Structure Wm (210 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.096	-.096	0	%100
2	A1	Z	.165	.165	0	%100
3	A2	X	-.403	-.403	0	%100
4	A2	Z	.698	.698	0	%100
5	A9	X	-.342	-.342	0	%100
6	A9	Z	.592	.592	0	%100
7	MP1A	X	-.306	-.306	0	%100
8	MP1A	Z	.531	.531	0	%100
9	MP4A	X	-.306	-.306	0	%100
10	MP4A	Z	.531	.531	0	%100
11	S1	X	-.251	-.251	0	%100
12	S1	Z	.434	.434	0	%100
13	MP3A	X	-.306	-.306	0	%100
14	MP3A	Z	.531	.531	0	%100
15	MP2A	X	-.371	-.371	0	%100
16	MP2A	Z	.643	.643	0	%100
17	M15A	X	-.074	-.074	0	%100
18	M15A	Z	.128	.128	0	%100
19	M16	X	-.339	-.339	0	%100
20	M16	Z	.587	.587	0	%100

Member Distributed Loads (BLC 73 : Structure Wm (240 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft,%]	End Location[ft,%]
1	A1	X	-.496	-.496	0	%100
2	A1	Z	.287	.287	0	%100
3	A2	X	-.233	-.233	0	%100
4	A2	Z	.134	.134	0	%100
5	A9	X	-.592	-.592	0	%100
6	A9	Z	.342	.342	0	%100
7	MP1A	X	-.531	-.531	0	%100
8	MP1A	Z	.306	.306	0	%100
9	MP4A	X	-.531	-.531	0	%100
10	MP4A	Z	.306	.306	0	%100



Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
11	S1	X	-.434	-.434	0	%100
12	S1	Z	.251	.251	0	%100
13	MP3A	X	-.531	-.531	0	%100
14	MP3A	Z	.306	.306	0	%100
15	MP2A	X	-.643	-.643	0	%100
16	MP2A	Z	.371	.371	0	%100
17	M15A	X	-.385	-.385	0	%100
18	M15A	Z	.222	.222	0	%100
19	M16	X	-.196	-.196	0	%100
20	M16	Z	.113	.113	0	%100

Member Distributed Loads (BLC 74 : Structure Wm (270 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.764	-.764	0	%100
2	A1	Z	0	0	0	%100
3	A2	X	0	0	0	%100
4	A2	Z	0	0	0	%100
5	A9	X	-.684	-.684	0	%100
6	A9	Z	0	0	0	%100
7	MP1A	X	-.613	-.613	0	%100
8	MP1A	Z	0	0	0	%100
9	MP4A	X	-.613	-.613	0	%100
10	MP4A	Z	0	0	0	%100
11	S1	X	-.501	-.501	0	%100
12	S1	Z	0	0	0	%100
13	MP3A	X	-.613	-.613	0	%100
14	MP3A	Z	0	0	0	%100
15	MP2A	X	-.742	-.742	0	%100
16	MP2A	Z	0	0	0	%100
17	M15A	X	-.592	-.592	0	%100
18	M15A	Z	0	0	0	%100
19	M16	X	0	0	0	%100
20	M16	Z	0	0	0	%100

Member Distributed Loads (BLC 75 : Structure Wm (300 Deg))

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-.496	-.496	0	%100
2	A1	Z	-.287	-.287	0	%100
3	A2	X	-.233	-.233	0	%100
4	A2	Z	-.134	-.134	0	%100
5	A9	X	-.592	-.592	0	%100
6	A9	Z	-.342	-.342	0	%100
7	MP1A	X	-.531	-.531	0	%100
8	MP1A	Z	-.306	-.306	0	%100
9	MP4A	X	-.531	-.531	0	%100
10	MP4A	Z	-.306	-.306	0	%100
11	S1	X	-.434	-.434	0	%100
12	S1	Z	-.251	-.251	0	%100
13	MP3A	X	-.531	-.531	0	%100
14	MP3A	Z	-.306	-.306	0	%100
15	MP2A	X	-.643	-.643	0	%100
16	MP2A	Z	-.371	-.371	0	%100
17	M15A	X	-.385	-.385	0	%100
18	M15A	Z	-.222	-.222	0	%100
19	M16	X	-.196	-.196	0	%100
20	M16	Z	-.113	-.113	0	%100



Member Distributed Loads (BLC 76 : Structure Wm (330 Deg))

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft.%]	End Location[ft.%]
1	A1	X	-096	-096	0 %100
2	A1	Z	-165	-165	0 %100
3	A2	X	-403	-403	0 %100
4	A2	Z	-698	-698	0 %100
5	A9	X	-342	-342	0 %100
6	A9	Z	-592	-592	0 %100
7	MP1A	X	-306	-306	0 %100
8	MP1A	Z	-531	-531	0 %100
9	MP4A	X	-306	-306	0 %100
10	MP4A	Z	-531	-531	0 %100
11	S1	X	-251	-251	0 %100
12	S1	Z	-434	-434	0 %100
13	MP3A	X	-306	-306	0 %100
14	MP3A	Z	-531	-531	0 %100
15	MP2A	X	-371	-371	0 %100
16	MP2A	Z	-643	-643	0 %100
17	M15A	X	-074	-074	0 %100
18	M15A	Z	-128	-128	0 %100
19	M16	X	-339	-339	0 %100
20	M16	Z	-587	-587	0 %100

Member Area Loads

Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
No Data to Print ...						

Envelope Joint Reactions

Joint	X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC	
1	A1	m...171.792	9	1431.914	19	1029.848	14	-263	1	1.781	9	.524	3
2		min-749.136	49	381.267	1	302.098	9	-2.677	19	-2.443	3	-1.398	9
3	N28A	m...1270.75	10	644.457	13	1513.465	1	-377	3	2.4	9	.214	3
4		min-815.842	4	30.959	7	-2358.675	7	-1.1	21	-1.738	3	-564	9
5	Totals:	m...1383.549	10	1998.544	15	1985.045	1						
6		min-1383.55	4	956.775	9	-1985.043	7						

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

Member	Shape	Code Che...	Loc[ft]	LC	Shear Che...	Loc[ft]	Dir	LC	phi*...	phi*...	phi*...	phi*...	Eqn	
1	MP2A	PIPE 2.5	.406	3.667	7	.190	3.667		7	3003..	50715	3.596	3.596	...H1-...
2	M15A	HSS3X3X4	.365	0	9	.115	0	z	9	9796..	1010..	8.556	8.556	...H1-...
3	M16	PIPE 3.0	.322	5	7	.200	5		1	3817..	65205	5.749	5.749	...H1-...
4	MP3A	PIPE 2.0	.262	3.698	49	.103	2.24		7	2380..	32130	1.872	1.872	...H1-...
5	A1	HSS4X4X4	.223	0	8	.121	0	y	9	1372..	1395..	16.1...	16.1...	...H1-...
6	MP4A	PIPE 2.0	.214	3.698	49	.070	3.698		7	2380..	32130	1.872	1.872	...H1-...
7	MP1A	PIPE 2.0	.176	3.646	8	.035	3.646		2	2380..	32130	1.872	1.872	...H1-...
8	A2	HSS4X4X4	.147	5	8	.047	3.854	z	16	9180..	1395..	16.1...	16.1...	...H1-...
9	S1	PIPE 2.0	.090	2	11	.063	2		10	2884..	32130	1.872	1.872	...H1-...
10	A9	PIPE 4.0	.001	1.125	9	.000	1.125		9	9174..	93240	10.6...	10.6...	...H1-...



TIA-222-H CONNECTION CHECK
Mount to Tower Connection - Typ. All Sectors
2021740.467734.02

Bolt Information		
Bolt Diameter (d)	0.75	in
Net Tensile Area (A _n)	0.334	in ²
# of Bolts Total (n)	4	
Bolt Distance Up-Down	8	in
Bolt Distance Left-Right	3	in
Bolt Grade	A325N	
Bolt Tensile Strength (F _{ub})	120	ksi

Flange Information		
Height (h)	10	in
Width (w)	5	in
Thickness (t)	0.75	in
Steel Grade	A36	
Plate Yield Strength (F _y)	36	ksi
Support Arm Height	4	in
Support Arm Width	4	in

RISA 3D Reactions		
Moment (M)	2.68	k-ft
Axial (T)	-0.97	kips
Shear (V)	1.43	kips

Bolt Capacity		
Nominal Tensile Strength (R _{nt})	40.135	kips
Nominal Shear Strength (R _{nv})	26.51	kips
Bolt Tensile Force (T _{ub})	1.77	kips
Bolt Shear Force (V _{ub})	0.359	kips
T _{ub} /φR _{nt}	0.05865	
V _{ub} /φR _{nv}	0.01804	
(V _{ub} /φR _{nv}) ² +(T _{ub} /φR _{nt}) ²	0.00377	
Bolt Capacity =	5.9%	OK

Plate Capacity		
Bolt Circle (D _{bc})	8.544	in
Effective Width (B _{eff})	5.00	in
Flexural Moment (M _u)	7.06	k-in
Flexural Strength (φM _n)	22.78	k-in
Plate Capacity=	31.0%	OK

Weld Capacity		
Fillet (leg) =	0.250	in
Throat (eff) =	0.18	in
F _{exx} =	70.00	ksi
φ =	0.75	
φR _n =	5.57	kips/in
Weld Capacity=	38.6%	OK



TIA-222-H CONNECTION CHECK
Mod T-Arm to Tower Connection - Typ. All Sectors
2021740.467734.02

Bolt Information	
Bolt Diameter (d)	0.625 in
Net Tensile Area (A _n)	0.226 in ²
# of Bolts Total (n)	4
Bolt Distance Up-Down	6 in
Bolt Distance Left-Right	6 in
Bolt Grade	A325N
Bolt Tensile Strength (F _{ub})	120 ksi

Flange Information	
Height (h)	8.25 in
Width (w)	8.25 in
Thickness (t)	0.75 in
Steel Grade	A572-50
Plate Yield Strength (F _y)	50 ksi
Support Arm Height	3 in
Support Arm Width	3 in

RISA 3D Reactions	
Moment (M)	1.09 k-ft
Axial (T)	1.28 kips
Shear (V)	0.57 kips

Bolt Capacity	
Nominal Tensile Strength (R _{nt})	27.120 kips
Nominal Shear Strength (R _{nv})	18.41 kips
Bolt Tensile Force (T _{ub})	3.25 kips
Bolt Shear Force (V _{ub})	0.144 kips
T _{ub} /φR _{nt}	0.15995
V _{ub} /φR _{nv}	0.01040
(V _{ub} /φR _{nv}) ² +(T _{ub} /φR _{nt}) ²	0.02569
Bolt Capacity =	16.0% OK

Plate Capacity	
Bolt Circle (D _{bc})	8.485 in
Effective Width (B _{eff})	7.31 in
Flexural Moment (M _u)	6.90 k-in
Flexural Strength (φM _n)	46.27 k-in
Plate Capacity=	14.9% OK

Weld Capacity	
Fillet (leg) =	0.313 in
Throat (eff) =	0.22 in
F _{exx} =	70.00 ksi
φ =	0.75
φR _n =	6.96 kips/in
Weld Capacity=	51.7% OK

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Purpose – to provide TES the proper documentation in order to complete the required Mount Desktop review of the Post Modification Inspection Report.

Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.

Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

Any special photos outside of the standard requirements will be indicated on the drawings. Provide “as built drawings” showing contractor’s name, preparer’s signature, and date. Any deviations from the drawings (proposed modification) must be shown.

Notation that all hardware was properly installed, and the existing hardware was inspected for any issues.

Verification that loading is as communicated in the modification drawings. NOTE If loading is different than what is conveyed in the modification drawing contact TES immediately.

Each photo should be time and date stamped

Photos should be high resolution and submitted in a Zip File and should be organized in the file structure as depicted in Schedule A attached.

Contractor shall ensure that the safety climb wire rope is supported and not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope.

The photos in the file structure should be uploaded to <https://pmi.vzwsmart.com> as depicted on the drawings

Photo Requirements:

Base and “During Installation Photos”

- Base pictures include
 - Photo of Gate Signs showing the tower owner, site name, and number
 - Photo of carrier shelter showing the carrier site name and number if available
 - Photos of the galvanizing compound and/or paint used (if applicable), clearly showing the label and name
- “During Installation Photos if provided - must be placed only in this folder

Photos taken at ground level

- Overall tower structure before and after installation of the modifications
- Photos of the appropriate mount before and after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

Photos taken at Mount Elevation

- Photos showing each individual sector before and also after installation of modifications. Each entire sector must be in one photo to show in the inter-connection of members.
These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- Close-up photos of each installed modification per the modification drawings; pictures should also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the measurements of the installed modification member sizes (i.e. lengths, widths, depths, diameters, thicknesses)
- Photos showing the elevation or distances of the installed modifications from the appropriate reference locations shown in the modification drawings
- Photos showing the installed modifications onto the tower with tape drop measurements (if applicable) (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, a tape drop measurement shall be provided before the elevation change
- Photos showing the safety climb wire rope above and below the mount prior to modification.
- Photos showing the climbing facility and safety climb if present.

Material Certification:

Materials utilized must be as per specification on the drawings or the equivalent as validated by TES.

- If the drawings are as specified on the drawings
The contractor should provide the packing list or the materials utilized to perform the mount modification
- If an equivalent is utilized
It is required that the TES certification of such is included in the contractor submission package. There may be an additional charge for this certification if the equivalent submission doesn't meet specifications as prescribed in the drawings.

The contractor must certify that the materials meet these specifications by one of these methods.

The Material utilized was as specified on the TES Mount Modification Drawings and included in the Material certification folder is a packing list or invoice for these materials


















The material utilized was an "equivalent" and included as part of the contractor submission is the TES certification, invoices, or specifications validating accepted status

Certifying Individual: Company _____

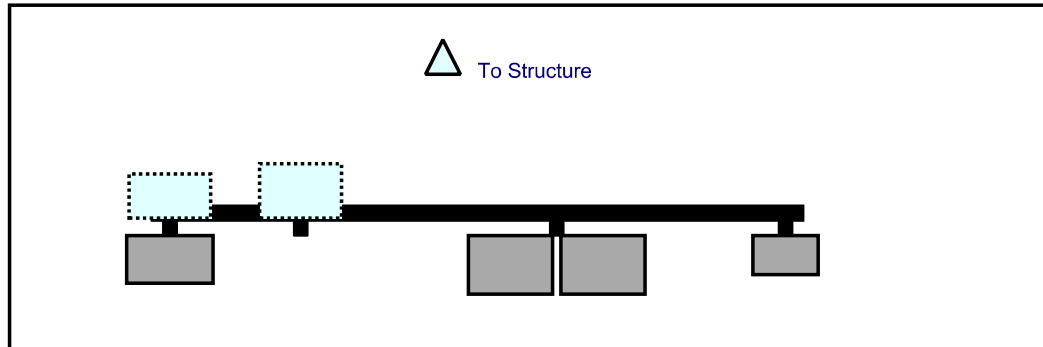
Name _____

Signature _____

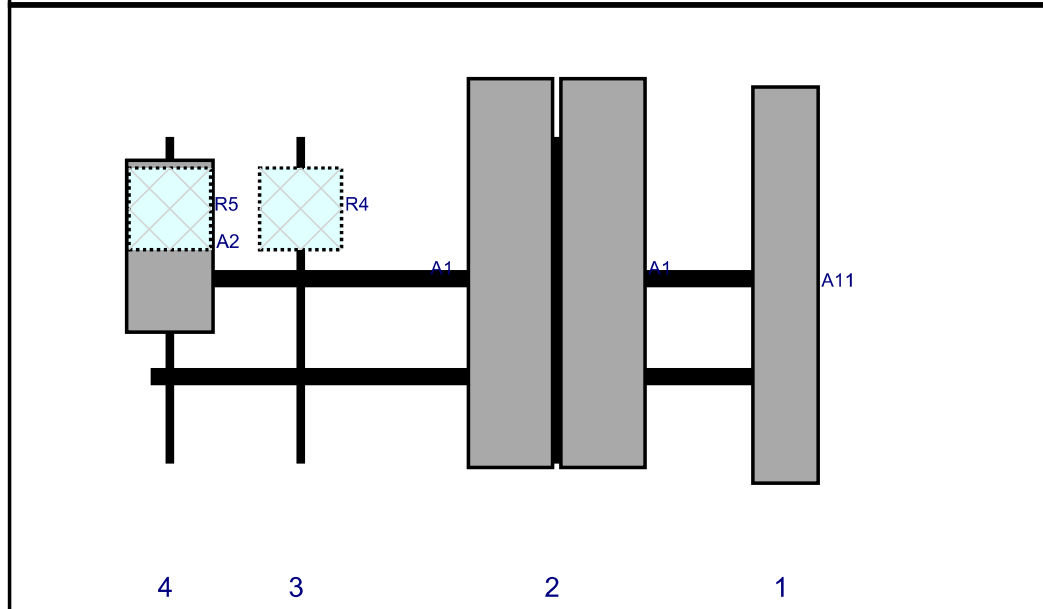
Schedule A – Photo & Document File Structure

-  VzW Site Number / Name
 -  Base & “During Installation” Photos
 -  Pre-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Post-Installation Photos
 -  Alpha
 -  Beta
 -  Gamma
 -  Ground Level
 -  Tape Drop
 -  Photos of climbing facility and safety climb – If Present
-  Certifications – Submission of this document including certifications
-  Specific Required Additional Photos

Plan View

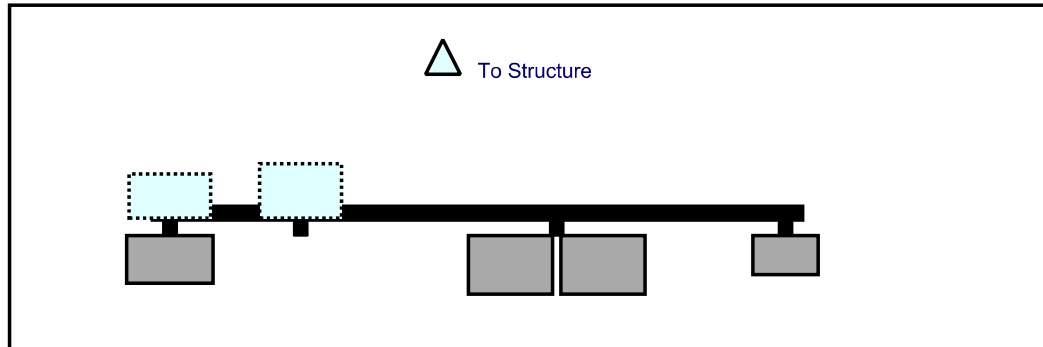


Front View
Looking at Structure

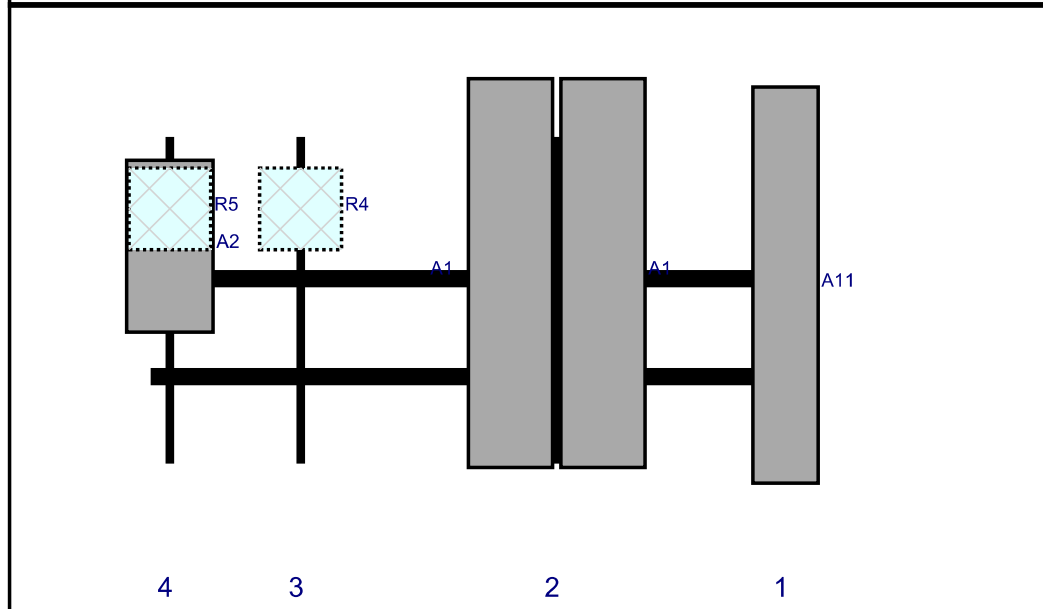


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A11	LNx-8513DS-AIM	72.7	11.9	116.5	1	a	Front	27.18	0	Retained	05/20/2021
A1	MX06FRO660-03	71.3	15.4	74.5	2	a	Front	24.96	8.5	Added	
A1	MX06FRO660-03	71.3	15.4	74.5	2	b	Front	24.96	-8.5	Added	
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	27.5	3	a	Behind	13.2	0	Added	
A2	MT6407-77A	31.5	15.8	3.5	4	a	Front	20.04	0	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	3.5	4	a	Behind	13.2	0	Added	

Plan View

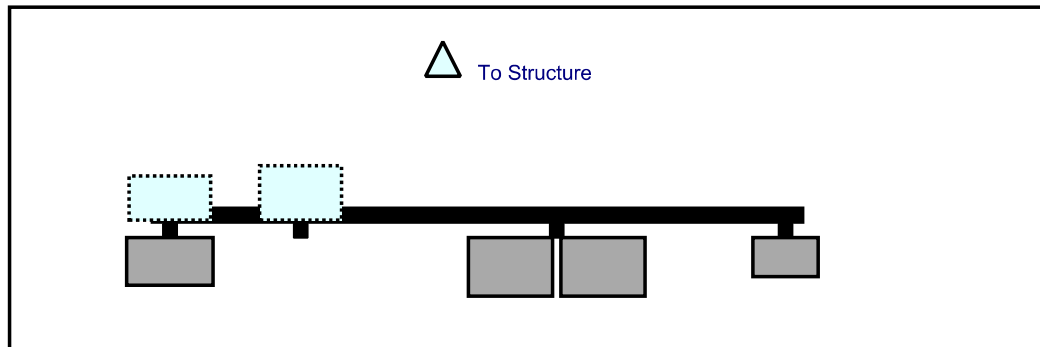


Front View
Looking at Structure

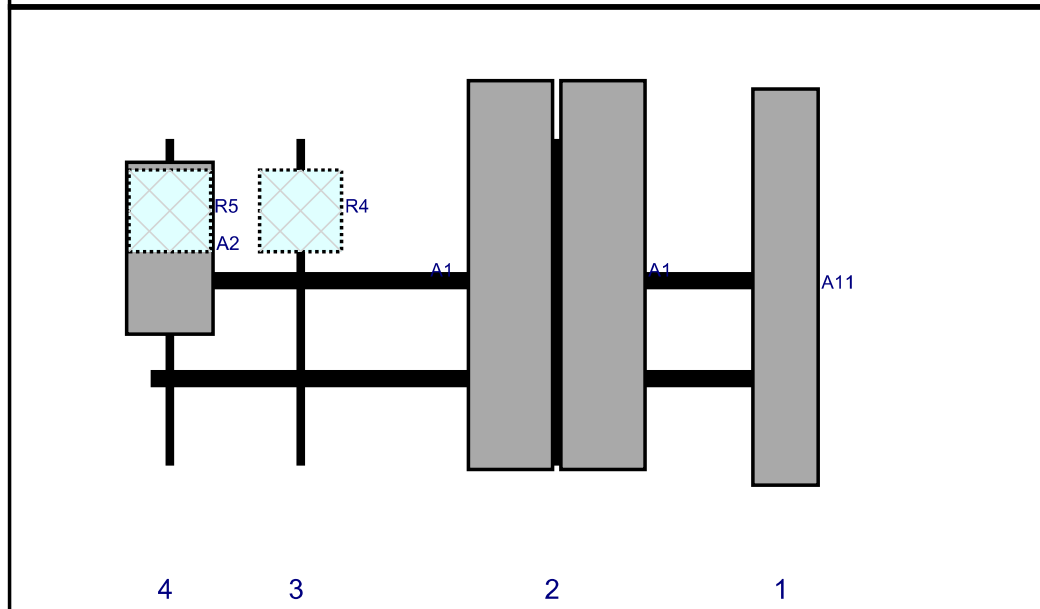


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A2	MT6407-77A	31.5	15.8	3.5	4	a	Front	20.04	0	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	3.5	4	a	Behind	13.2	0	Added	

Plan View



Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
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R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	3.5	4	a	Behind	13.2	0	Added	

Subject TIA-222-H Usage

Site Information Site ID: 467734-VZW / New Milford West
Site Name: New Milford W CT
Carrier Name: Verizon Wireless
Address: 86 Boardman Road
New Milford, Connecticut 06776
Litchfield County
Latitude: 41.599411°
Longitude: -73.437478°

Structure Information Tower Type: 150-Ft Monopole
Mount Type: 10.00-Ft T-Arm

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

GPD Group



Christopher J. Scheks, P.E.
Connecticut #: 0030026

NEW MILFORD W CT

SITE #: 467734

SMART TOOL PROJECT #: 10082846



MOUNT INFORMATION:

MOUNT TYPE: 10'-0" T-ARM
 SITE LOCATION:
 LAT.: 41.589411°
 LONG.: -73.437478°
 STREET ADDRESS: 86 BOARDMAN ROAD
 CITY, STATE ZIP: NEW MILFORD, CT 06776
 COUNTY: LITCHFIELD

CODE COMPLIANCE:

GOVERNING CODES: TIA-222-H
 WIND SPEEDS: 114 MPH 3-SECOND GUST
 40 MPH 3-SECOND GUST (W/ ICE)
 ICE THICKNESS: 1"
 RISK CATEGORY: II
 EXPOSURE CATEGORY: C
 TOPO CATEGORY: 1
 SEISMIC CRITERIA:
 SITE CLASS: D
 RESPONSE COEFFICIENT (R): 2
 1-SECOND SPECTRAL RESPONSE ACCELERATION (S₁): 0.055
 SHORT PERIOD SPECTRAL RESPONSE ACCELERATION (S₂): 0.197

PROJECT CONTACTS:
 MASER CONSULTING CONTACT:
 PETER ALBANO
 PETER.ALBANO@COLLIERSENGINEERING.COM
 (866) 371-9457
 PROJECT #: 20777375
 ENGINEER CONTACT:
 GPD ENGINEERING AND ARCHITECTURE
 PROFESSIONAL CORPORATION
 520 S SOUTH MAIN STREET, SUITE 2531
 AKRON, OH 44311
 (330)572-2100
 FOR QUESTIONS PLEASE EMAIL:
 GPDMODS@GPDGROUP.COM

SHEET INDEX:
 T-01: TITLE SHEET
 N-01: PROJECT NOTES & INSPECTION CHECKLIST
 S-01: BILL OF MATERIALS
 S-02: MODIFICATION SCHEDULE & DETAILS
 S-03 - S-07: DETAILS/PARTS
 S-08: MOUNT PHOTOS

CONTRACTOR PMI REQUIREMENTS:
 PMI LOCATION: [HTTPS://PMI.VZWSMART.COM](https://pmi.vzwsmart.com)
 SMART TOOL PROJECT #: 10082846
 VZW LOCATION CODE (PSLC): 467734
 FUZE ID: 16244608

REFERENCED DOCUMENTS:
 FALLING MOUNT ANALYSIS REPORT
 SMART TOOL PROJECT #: 10019472
 GPD PROJECT #: 20211740.467734.01
 ANALYSIS DATE: 6/25/2021

NEW MILFORD W CT
 86 BOARDMAN ROAD
 NEW MILFORD, CT 06776

TITLE SHEET

REV	DATE	DESCRIPTION
0	6/20/21	INITIAL RELEASE

ISSUED FOR:	6/20/2021
PERMIT:	6/20/2021
BID:	-
CONSTRUCTION RECORD:	-

OWNER:	DESIGNER:
E&A:	E&A:
PROJECT NUMBER:	APPROPRIETY:
DP:	CIS:

JOB NO.
 2021740.467734.02

T-01





070 Engineering and Architecture
 1500 State Street, Suite 200
 Hartford, CT 06103

DESIGNED BY:
 NEW MILFORD W CT
 SITE # 40774
 PREPARED FOR:

DESIGNED BY:
 NEW MILFORD W CT
 SITE # 40774
 PREPARED FOR:

SMART TOOL PROJECT # 1002304

REF. DATE DESCRIPTION

REF. DATE	DESCRIPTION
0 6/30/21	INITIAL RELEASE

PROJECT NOTES
 NEW MILFORD, CT 06776
 86 BOARDMAN ROAD
 NEW MILFORD W CT

ISSUED FOR:	6/30/2021
PERMIT:	
NO:	
CONSTRUCTION:	
RECORD:	

EXAMINER:	DATE:
DATE:	DATE:
PROJECT NUMBER:	DATE:
DATE:	DATE:
DATE:	DATE:

JOB NO.
 2021-10-467734-02

N-01

STRUCTURAL STEEL NOTES

- ALL NEW STEEL SHALL BE FULLY GALVANIZED PER ASTM A 153, ASTM A 153M, OR ASTM A 653, WHERE HOT-DIPPED GALVANIZING IS NOT PERMITTED. MAIN 565 GALVANIZING OR ENGINEER APPROVED TOWER STEEL CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
- ALL EXPOSED STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING, BUT NOT LIMITED TO, STEEL TO BE WELDED SHALL BE CLEANED AND PAINTED TO MATCH THE EXISTING SURFACE. UNLESS OTHERWISE SPECIFIED, CLEANING AND PAINTING SHALL BE DONE BY THE STRUCTURAL STEEL CONTRACTOR. PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE MODIFICATION INSPECTOR.
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE LISTED REQUIREMENTS U.S. IN THESE DRAWINGS:
 PIPE (ANGLE): ASTM A 53 (GRADE B) (F=35 KSI)
 WELDED JOINTS: ASTM A 572 (GRADE 50)
 BOLT NUTS: ASTM A 325 (GRADE A)
 U-BOLT: ASTM F 436 TYPE 1H
 WASHERS (AS REQUIRED): ASTM F 436 TYPE 1H
 LOCKING DEVICES: PAL-NUT OR SPLIT WASHER
- ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE TIGHTENING TO BE IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE AISC DESIGN GUIDE FOR HIGH STRENGTH BOLT CONNECTIONS.
- ALL U-BOLTS, INCLUDING U-BOLTS, SHALL BE TIGHTENED IN ACCORDANCE WITH AISC "SNUG TIGHT" REQUIREMENTS, UNLESS OTHERWISE SPECIFIED.
- ALL U-BOLTS SPECIFIED SHALL MEET THE REQUIREMENTS OF ASME B19.31.5-2011 BENT BOLTS.
- STRUCTURAL STEEL SHOP DRAWINGS SHALL BE PROVIDED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION. ENGINEER SHALL REVIEW AND APPROVE DRAWINGS FOR CONFORMANCE WITH THE GOVERNING PROVISIONS OF THE AISC DESIGN GUIDE FOR HIGH STRENGTH BOLT CONNECTIONS.
- ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE AISC DESIGN GUIDE FOR HIGH STRENGTH BOLT CONNECTIONS. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE AISC DESIGN GUIDE FOR HIGH STRENGTH BOLT CONNECTIONS. ALL WELDS SHALL BE MADE IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE AISC DESIGN GUIDE FOR HIGH STRENGTH BOLT CONNECTIONS.
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- FOR ALL SHOP WELDING, USE E70XX ELECTRODES FOR SMAW PROCESS AND E70T-XX ELECTRODES FOR FCAW PROCESS, UNLESS OTHERWISE SPECIFIED.

MODIFICATION INSPECTION NOTES

- GENERAL**
- THE MI IS AN INVESTIGATIVE AND INSPECTION OF THE MODIFICATIONS INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI SHALL BE CONDUCTED IN ACCORDANCE WITH ALL APPLICABLE INDUSTRY STANDARDS, AND AS DOCUMENTED BY THE ENGINEER OF RECORD (EOR).
 - NO DOCUMENT, CODE OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE, ACCORDINGLY, THE MI SHALL BE CONDUCTED WITH THE MI INSPECTOR AND EOR FOR EVALUATION. THE MI INSPECTOR SHALL BE THE MI INSPECTOR AND EOR FOR EVALUATION.
 - THE MI IS TO CONFIRM INSTALLATION, CONFIGURATION, AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE MODIFICATION DESIGN. THE MI INSPECTOR SHALL BE THE MI INSPECTOR AND EOR FOR EVALUATION.
 - TO ENSURE THAT THE REQUIREMENTS OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC), AND THE MI INSPECTOR, BEGAIN COMMUNICATION AND COORDINATION AT THE ONSET OF THE MODIFICATION INSPECTION. THE MI INSPECTOR SHALL BE CONTACTED IF SPECIFIC INSPECTOR CONTACT INFORMATION IS NOT KNOWN.
- FAILING INSPECTION REQUIREMENTS**
- IF THE MODIFICATION INSPECTION WOULD FAIL THE MODIFICATION INSPECTION, IT SHALL BE RE-INSPECTED IN ONE OF TWO WAYS:
 1. CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL MODIFICATION DRAWINGS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION.
 2. WITH TOWER OWNER APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO RE-NALYZE THE MODIFICATION REQUIREMENT USING THE AS-BUILT CONDITION.
- SERVICE LEVEL COMMITMENT**
- THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT:
 THE GC SHALL PROVIDE A MINIMUM OF 2 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY TO THE MI TO BE CONDUCTED.
 THE GC AND MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
 WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON-SITE.

REQUIRED PHOTOS

- BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:
 PRE-CONSTRUCTION GENERAL SITE CONDITION PHOTOGRAPHS DURING THE MODIFICATION CONSTRUCTION
 PHOTOGRAPH OF THE MODIFICATION CONSTRUCTION
 PHOTOS OF ALL CRITICAL DETAILS
 WELD PREPARATION
 BOLT INSTALLATION
 FINAL INSTALLED CONDITION
 ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DETAILS OF THE MODIFICATIONS.
- PHOTOS OF ELEVATED MODIFICATION TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.

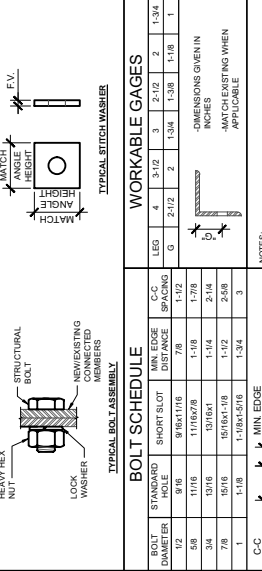
GENERAL NOTES

- THIS DOCUMENT IS THE GOVERNING PROVISIONS OF THESE NOTES AND ANY NOTES TO THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES AND THE CONTRACT SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES. THE TOWER AND MAIN MEMBERS, INCLUDING ALL CONNECTIONS, SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED.
- THE CONTRACTOR SHALL VERIFY THE SITE PRIOR TO MOBILIZATION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND NOTIFY ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THE DRAWINGS. CONTRACTOR SHALL VERIFY ALL ATTACHMENT POINTS, ANTENNAS, MOUNTS, COAX, LIGHTING, AND OTHER EQUIPMENT SHALL BE CONTRACTED IMMEDIATELY TO EVALUATE THE SIGNIFICANCE OF ANY DEVIATION PRIOR TO ORDERING MATERIAL.
- ALL MATERIAL SPECIFIED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL THAT IS FOUND TO BE DEFECTIVE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES. THE TOWER AND MAIN MEMBERS, INCLUDING ALL CONNECTIONS, SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED.
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- INSTALLATION OF THE PROPOSED LOADING IS BY OTHERS AND IS BEYOND THE SCOPE OF THESE DRAWINGS.
- ALL CONTRACTORS AND LOWER TIER CONTRACTORS MUST ACKNOWLEDGE IN WRITING TO TOWER OWNER AND ENGINEER THE MODIFICATION INSPECTION TABLES IS REMAINED THE SAME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES. THE TOWER AND MAIN MEMBERS, INCLUDING ALL CONNECTIONS, SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED.
- IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE PERFORMED BY A LICENSED WORKMAN WITH TOWER CONSTRUCTION EXPERIENCE. THIS INCLUDES PROVIDING THE NECESSARY CERTIFICATIONS TO THE TOWER OWNER AND ENGINEER. THESE PLANS, TECHNIQUES, SEQUENCES, AND PROCEDURES SHALL BE APPROVED BY THE ENGINEER OF RECORD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM ALL APPLICABLE AGENCIES AND AGENCIES. THE TOWER AND MAIN MEMBERS, INCLUDING ALL CONNECTIONS, SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED. USE IN CONNECTIONS SHALL BE WELL MAINTAINED.
- THE CONTRACTOR AND ALL SUB CONTRACTORS SHALL BE RESPONSIBLE FOR THE SAFETY OF THEIR WORKERS AND ALL OTHER PERSONNEL ON THE WORK SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THEIR WORKERS AND ALL OTHER PERSONNEL ON THE WORK SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THEIR WORKERS AND ALL OTHER PERSONNEL ON THE WORK SITE.
- CONTRACTOR SHALL ONLY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY WORK WITHIN THE LIMITS OF THE TOWER OWNER'S PROPERTY OR LEASE AREA AND APPROVED EASEMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED.
- WORK SHALL ONLY BE PERFORMED DURING CALM, DRY, DAYS (WINDS LESS THAN 10MPH). ALL TEMPORARY BRACING AND TEMPORARY SUPPORTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED.
- VERIFY IF THIS STRUCTURE IS AN FM TOWER, AND TAKE NECESSARY ACTIONS TO PROVIDE SAFE ACCESS TO THE TOWER. CONTRACTOR SHALL HAVE PROPER RADIATION PROTECTION FOR EXCESSIVE RF EXPOSURE FOR ALL INDIVIDUALS WORKING ON-SITE IF FM ANTENNAS ARE PRESENT.
- ALL MANUFACTURERS' HARDWARE AND ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED EXACTLY, AS PROVIDED BY THE MANUFACTURER. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL STRUCTURAL COMPONENTS THAT ARE TO BE REMOVED.
- DO NOT SCALE DRAWINGS.
- THE CLIMBING FACILITIES, SAFETY CLIMB AND ALL ASSOCIATED HARDWARE SHALL NOT BE IMPEDED OR MODIFIED WITHOUT THE WRITTEN CONSENT OF GRD.
- INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.

MODIFICATION INSPECTION CHECKLIST

REQUIRED	REPORT ITEM	PRE-CONSTRUCTION	BRIEF DESCRIPTION
X	PACKING SLIPS	ANY RECEIPT OF PURCHASE FOR THE MODIFICATION MATERIALS ACCEPTABLE.	
X	CERTIFICATE OF CONFORMANCE	MATERIALS (WELDS, GASKETS, ANCHOR ASSEMBLIES, PACKAGES FROM REPUTABLE SUPPLIERS SHALL HAVE A SITE SPECIFIC CERTIFICATE OF CONFORMANCE PROVIDED TO CONFIRM ACCEPTABILITY.	
X	MATERIAL TEST REPORT (GUSTOM HARDWARE ONLY)	ALL HARDWARE NOT SPECIFICALLY PROVIDED AS A PRE-ENGINEERED KIT, PART, AND/OR ASSEMBLY SHALL REQUIRE MTF'S TO VERIFY ACCEPTABILITY.	
X	HARDWARE PRIOR TO INSTALLATION	PHOTOS OF ALL SECTIONS WHERE APPLICABLE PRIOR TO MODIFICATIONS.	
X	NOT-ALL-FULL PENETRATION OR WELDS > 90"	PHOTOS OF ALL HARDWARE BEFORE BEING INSTALLED ON THE MOUNT(S).	
X	INSPECTION	AW'S STAMPED REPORT REQUIRED. WELDING REQUIREMENTS NOT APPLICABLE FOR PRE-ENGINEERED KITS, PARTS OR ASSEMBLIES FROM REPUTABLE SUPPLIERS.	
X	WELDERS CERTIFIED	WELDERS CERTIFIED	
X	ON SITE COLD GALVANIZING VERIFICATION (IF APPLICABLE SEE STRUCTURAL STEEL NOTE #2)	ANY DAMAGE TO THE TOWER SHALL BE REPAIRED IN ACCORDANCE WITH STRUCTURAL STEEL NOTE #2.	
X	GC AS-BUILT DRAWINGS	ALL INSTANTIONS TO THE DRAWINGS THAT WERE FOUND MUST BE CLEARLY MARKED AND APPROVED BY THE EOR.	
X	MEMBER SIZES	NEW MEMBERS SHALL BE VERIFIED WITH A TAPE MEASURE. CALIFIPERS, THICKNESS GAUGE, OR OTHER STANDARD INDUSTRY EQUIPMENT SHALL BE USED TO VERIFY DIMENSIONS. MECHANISMS, AND THICKNESS SHALL BE VERIFIED AND DOCUMENTED.	
X	CONNECTION HARDWARE	ALL DIMENSIONS SPECIFICALLY CALLED OUT IN THE DRAWING PACKAGE SHALL BE VERIFIED WITH A TAPE MEASURE. THIS INCLUDES MEMBER DIMENSIONS AND CONNECTION HARDWARE.	
X	CRITICAL DIMENSIONS	THE COMPLETE MODIFIED CONDITIONS SHALL BE INSPECTED TO ENSURE FULL CONFORMANCE WITH THE DESIGN DRAWINGS.	
X	FINAL INSTALLED CONFIGURATION		

BOLTING DETAILS



WORKABLE GAGES

LEG	4	3-1/2	3	2-1/2	2	1-3/4	1
MIN. EDGE DISTANCE	4	3-1/2	3	2-1/2	2	1-3/4	1
MIN. EDGE DISTANCE	4	3-1/2	3	2-1/2	2	1-3/4	1
MIN. EDGE DISTANCE	4	3-1/2	3	2-1/2	2	1-3/4	1

ALLOWABLE ANGLE COPE



6/30/21

REV	DATE	DESCRIPTION
0	07/20/17	INITIAL RELEASE

NEW MILFORD W CT
 86 BOARDMAN ROAD
 NEW MILFORD, CT 06776

ISSUED FOR:	PERMIT:	DATE:
NEW MOUNT W/ CT	0640201	07/20/17

DATE:	BY:	APPROVED:

JOB NO.
 2021740-467734-02

S-02

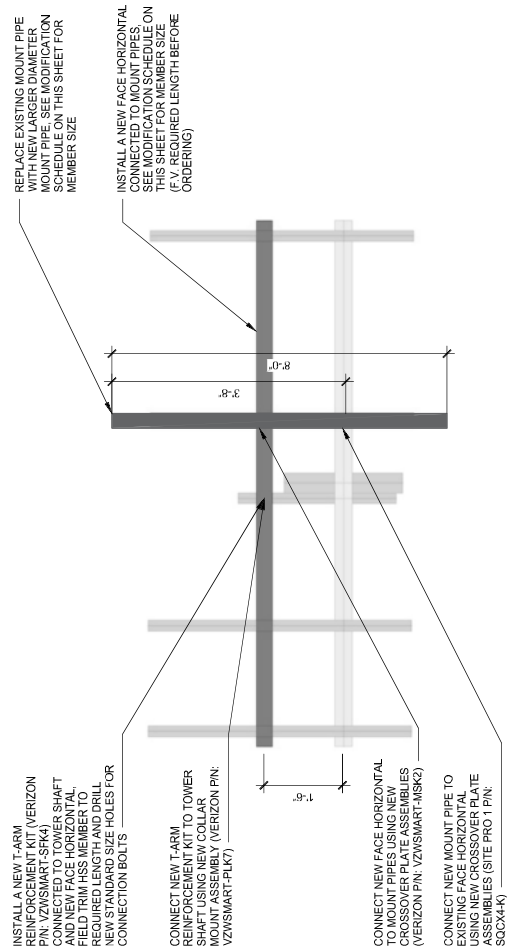
MODIFICATION SCHEDULE

MEMBER TYPE	ELEVATION	EXISTING MEMBER	NEW MEMBER	REFERENCE DETAIL SHEET	NOTES
FACE HORIZONTAL			(1) P3 STD (PER SECTOR)	SHEETS S-02 & S-03	INSTALL A NEW FACE HORIZONTAL CONNECTED TO MOUNT PIPES.
T-ARM REINFORCEMENT KIT	128'-0"±	10'-0" T-ARM	(1) T-ARM REINFORCEMENT KIT (PER SECTOR)	SHEETS S-02 & S-03	INSTALL A NEW T-ARM REINFORCEMENT KIT CONNECTED TO TOWER SHAFT AND NEW FACE HORIZONTAL.
MOUNT PIPE			(1) P2.5 STD (PER SECTOR)	SHEETS S-02 & S-03	REPLACE EXISTING MOUNT PIPE WITH NEW LARGER DIAMETER MOUNT PIPE.

NOTES:
 1. ANY SUBSTITUTION OF PARTS SPECIFIED IN THIS DESIGN PACKAGE SHALL REQUIRE ENGINEER APPROVAL PRIOR TO FABRICATION.
 2. ALL MATERIAL REMOVED FROM MOUNT SHALL BE DISPOSED OF BY CONTRACTOR OFF SITE.
 3. ALL MATERIAL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE.

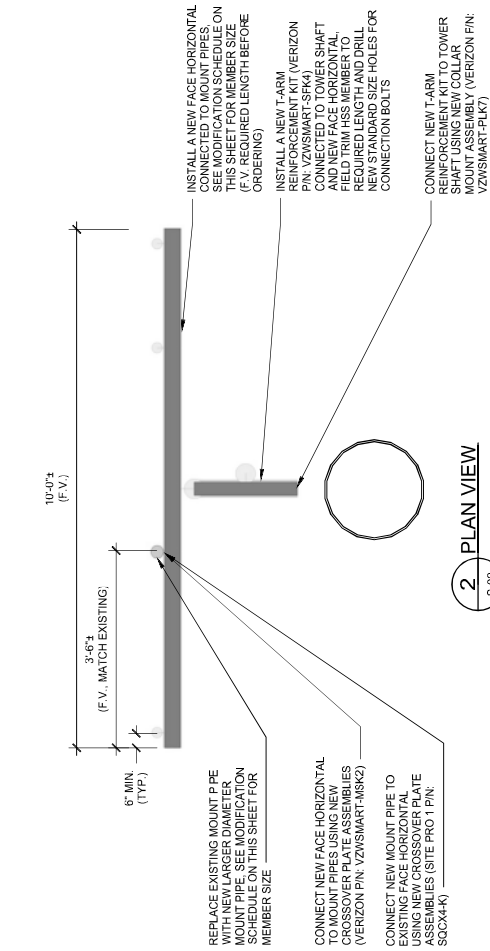


6/30/21



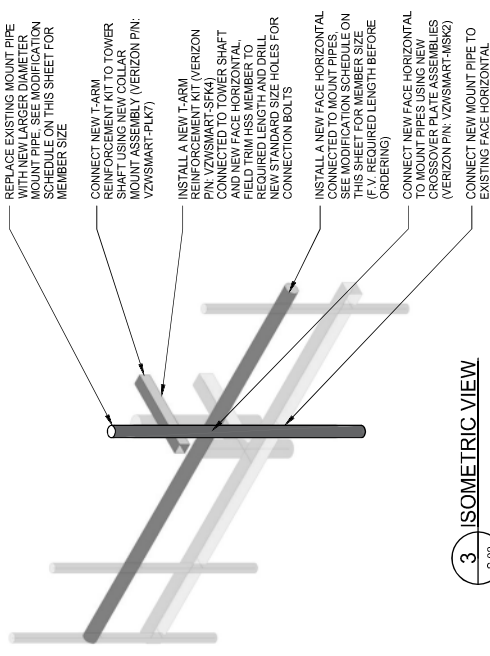
1 ELEVATION VIEW
 S-02

NOTE:
 1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR
 2. ALL FIELD CUT MEMBERS AND DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZNC RICH COLD GALVANIZING PAINT



2 PLAN VIEW
 S-02

NOTE:
 1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR
 2. ALL FIELD CUT MEMBERS AND DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZNC RICH COLD GALVANIZING PAINT



3 ISOMETRIC VIEW
 S-02

NOTE:
 1. DETAIL IS TYPICAL FOR ALL THREE SECTORS. ONLY ONE SECTOR SHOWN FOR
 2. ALL FIELD CUT MEMBERS AND DRILLED HOLES SHALL BE SOLVENT CLEANED AND TOUCHED UP WITH TWO COATS OF BRUSH APPLIED ZNC RICH COLD GALVANIZING PAINT



GPT Engineering and Architecture
 1000 Main Street
 3rd Floor
 New Milford, CT 06776
 Phone: 860.355.1234
 Fax: 860.355.1235

DESIGN PREPARED FOR
verizon

NEW MILFORD W CT
 SITE # 407340
 CONSTRUCTION PREPARED FOR
verizon

SMART TOOL PROJECT #: 10052044

REV	DATE	DESCRIPTION
0	6/30/21	INITIAL RELEASE

NEW MILFORD W CT
 86 BOARDMAN ROAD
 NEW MILFORD, CT 06776

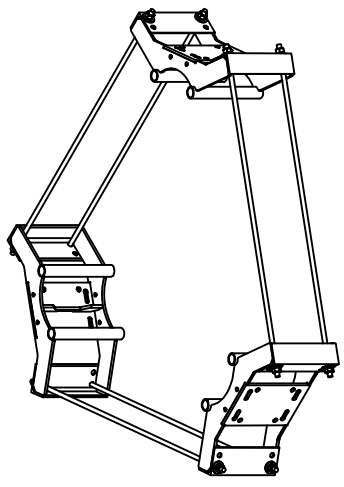
DETAILS/PARTS

ISSUED FOR:	6/30/21
PERMIT:	6/30/21
BD:	
CONSTRUCTION:	
RECORD:	

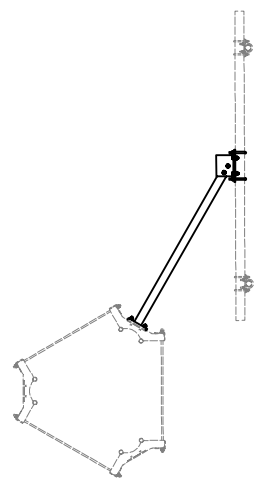
OWNER:	DESIGNER:
PROJECT MANAGER:	APPROVED BY:

JOB NO.
 2021740.467734.02

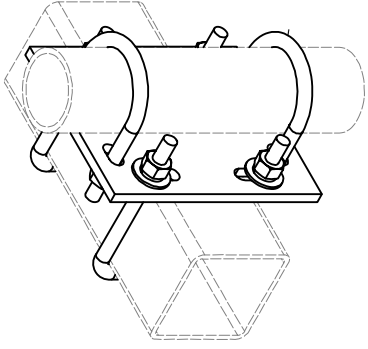
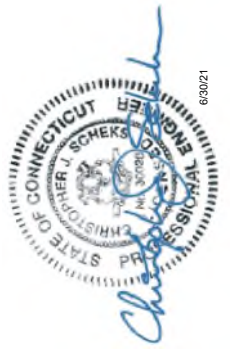
S-03



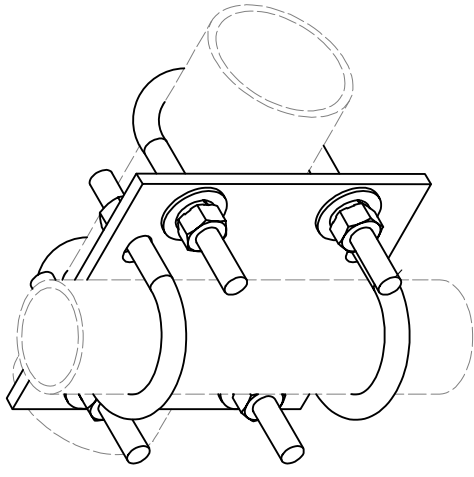
5 VZWSMART-PLK7 COLLAR MOUNT ASSEMBLY
 S-03



4 VZWSMART-SFK4 T-ARM REINFORCEMENT KIT
 S-03



7 SQCX4-K CROSSOVER PLATE ASSEMBLIES
 S-03



6 VZWSMART-MSK2 CROSSOVER PLATE ASSEMBLIES
 S-03

REV	DATE	DESCRIPTION
0	07/20/11	INITIAL RELEASE

NEW MILFORD W CT
 86 BOARDMAN ROAD
 NEW MILFORD, CT 06876
 DETAILS/PARTS

ISSUED FOR:	0680201
PERMIT:	
BID:	
CONSTRUCTION RECORD:	

SCALE:	AS SHOWN
DRAWN BY:	DAW
CHECKED BY:	DAW
DATE:	07/20/11

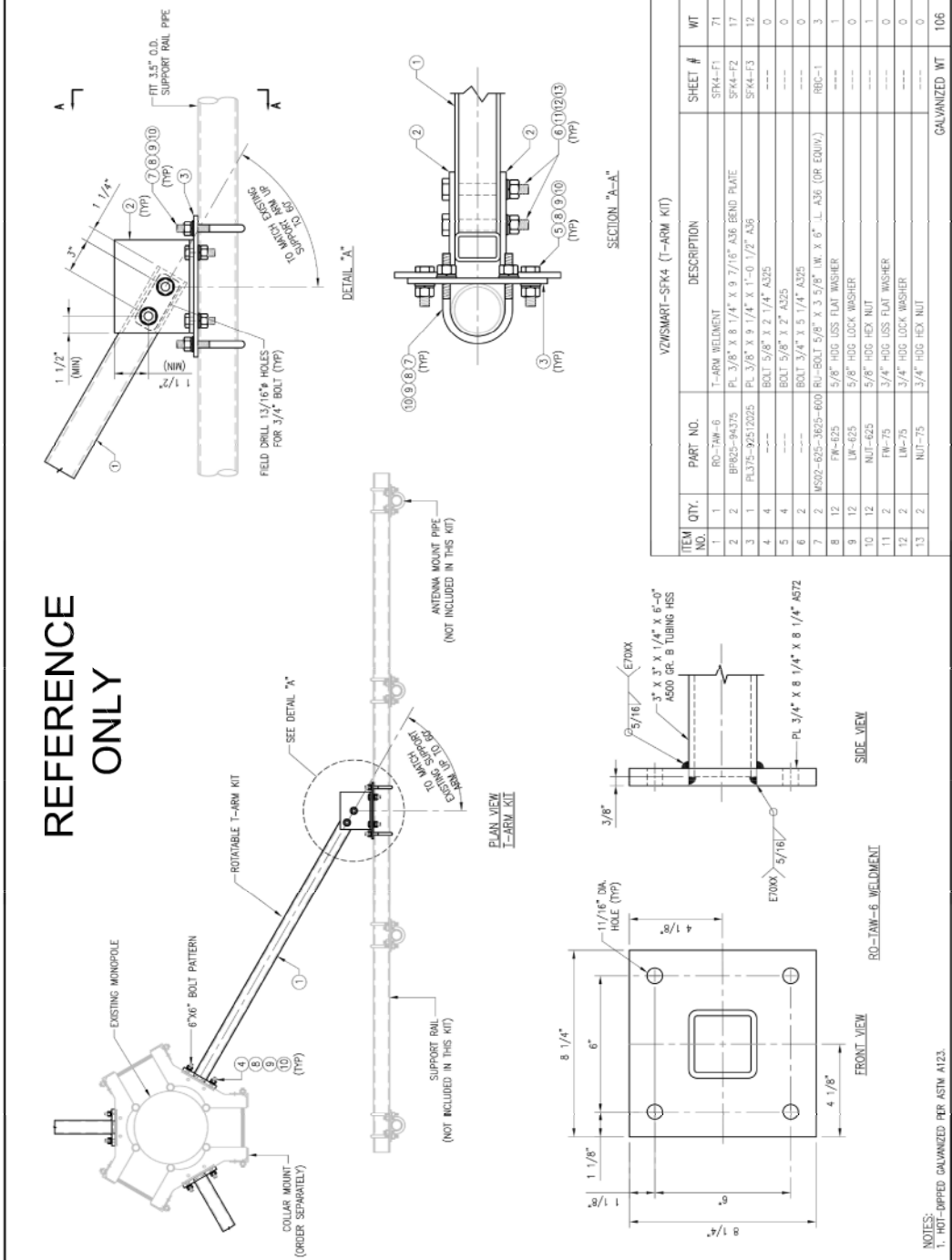
JOB NO.
 2021740.467734.02

S-04

VZW
SMART Tool
 Vendor

verizon

DRAWN BY:	DAW	CHECKED BY:	DAW
DATE:	07/20/11	DATE:	07/20/11
PROJECT:	NEW MILFORD W CT	PROJECT:	NEW MILFORD W CT
SHEET NO.:	0	SHEET NO.:	0
TITLE:	VZWSMART-SFK4 T-ARM KIT	TITLE:	VZWSMART-SFK4 T-ARM KIT



NOTES:
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

PERMISSIONS PREPARED FOR

verizon

NEW MILFORD W CT
SITE # 407340
CONTRACT # 10005044
PREPARED FOR

verizon

SMART TOOL PROJECT # 10005044

REV	DATE	DESCRIPTION
0	6/30/21	INITIAL RELEASE

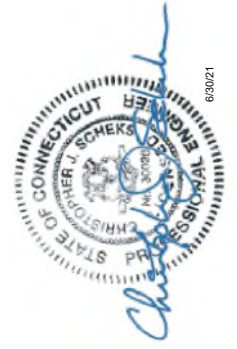
NEW MILFORD W CT
86 BOARDMAN ROAD
NEW MILFORD, CT 06776
MOUNT PHOTOS

ISSUED FOR:	6/30/21
PERMIT:	
ISS:	
CONSTRUCTION:	
RECORD:	

OWNER:	DESIGNER:
PROJECT MANAGER:	APPROVED BY:

JOB NO.
2021740.467734.02

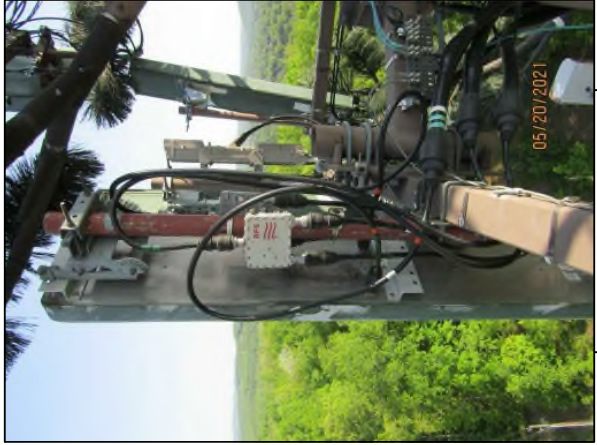
S-08



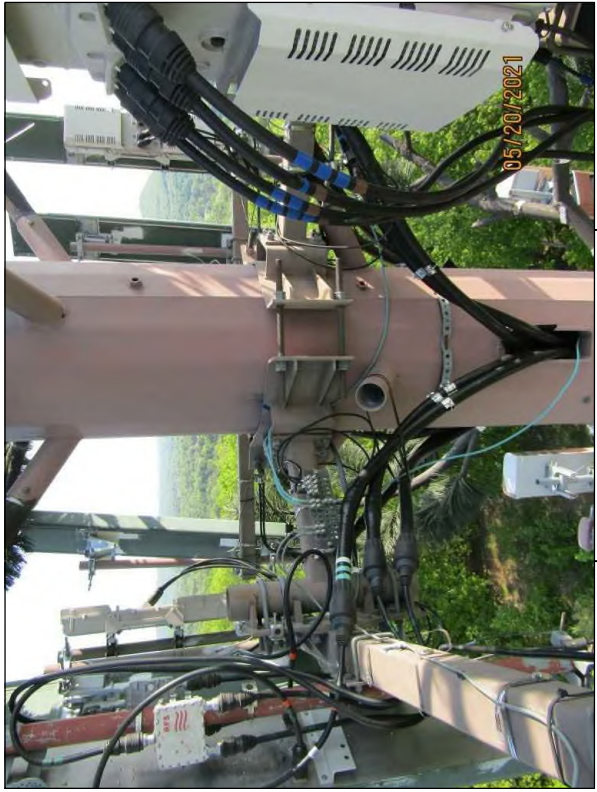
6/30/21



MOUNT PHOTO



MOUNT PHOTO

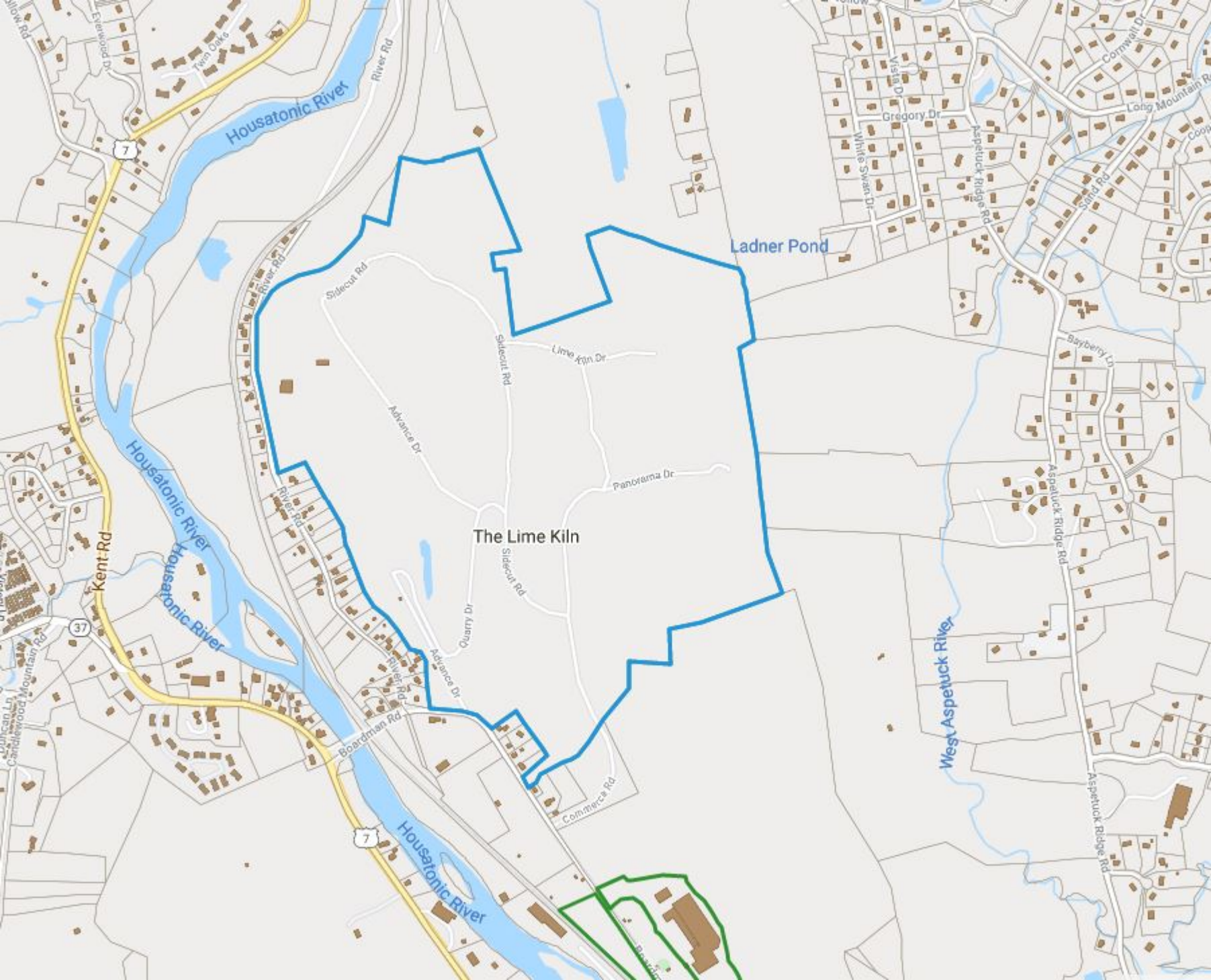


MOUNT PHOTO



MOUNT PHOTO

ATTACHMENT 5



Housatonic River

Ladner Pond

The Lime Kiln

West Aspetuck River

7

37

7

Kent Rd

Silsbee Rd

River Rd

Silsbee Rd

Lime Kiln Dr

Advance Dr

Panorama Dr

Quarry Dr

Boardman Rd

Commerce Rd

White Swan Dr

Gregory Dr

Aspetuck Ridge Rd

Bayberry Ln

Aspetuck Ridge Rd

Aspetuck Ridge Rd

Cornwall Dr

Long Mountain Rd

Coop

Oak Rd

Everwood Dr

Town Circle

Mountain Rd

Mountain Rd

Mountain Rd

Aspetuck



NEW MILFORD, CT

33 BOARDMAN RD

Location

33 BOARDMAN RD

Mblu

47 / / 73 / /

Acct#

005304

Owner

QUARRY STONE AND GRAVEL LLC

Assessment

\$2,990,290

Appraisal

\$5,201,730

PID

8323

Building Count

2

Current Value

Appraisal

Valuation Year	Improvements	Land	Total
2020	\$1,268,700	\$3,933,030	\$5,201,730

Assessment

Valuation Year	Improvements	Land	Total
2020	\$888,090	\$2,102,200	\$2,990,290

Parcel Addresses

Additional Addresses

No Additional Addresses available for this parcel

Owner of Record

Owner QUARRY STONE AND GRAVEL LLC

Co-Owner % O + G INDUSTRIES

Address 112 WALL ST
TORRINGTON, CT 06790

Sale Price \$0

Certificate

Book & Page 0778/0681

Sale Date 09/11/2003

Instrument 03


Ownership History

Ownership History

Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
QUARRY STONE AND GRAVEL LLC	\$0		0778/0681	03	09/11/2003
QUARRY STONE AND GRAVEL LLC	\$0		0765/0512	03	07/08/2003
KOVACS ROBERT G + KOVACS PAUL B + KOVACS	\$0		0705/0499	29	05/23/2002
QUARRY STONE AND GRAVEL LLC	\$0		0690/0804	03	01/09/2002
KOVACS ROGER P + PAUL B + ROBERT G	\$0		0361/0142		12/24/1986

ATTACHMENT 6



Name and Address of Sender Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender <p style="text-align: center;">3</p>	TOTAL NO. of Pieces Received at Post Office™ <p style="text-align: center;">3</p>	Affix Stamp Here <i>Postmark with Date of Receipt.</i> <div style="text-align: right;"> <p>neopostSM 08/11/2021 US POSTAGE \$002.89⁰</p>  <p>ZIP 06103 041L12203987</p> </div>
	Postmaster, per (name of receiving employee) <p style="text-align: center;">ED</p>		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Pete Bass, Mayor Town of New Milford 10 Main Street New Milford, CT 06776				
2.	Lauran Regan, New Milford Town Planner/Zoning Enforcement Officer/Land Use Supervisor Town of New Milford 10 Main Street New Milford, CT 06776				
3.	Quarry Stone and Gravel LLC c/o O&G Industries 112 Wall Street Torrington, CT 06790				
4.					
5.					
6.					

