

KENNETH C. BALDWIN

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Also admitted in Massachusetts  
and New York

July 22, 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  
500 Moose Hill Road, Monroe, 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 (“Council”) in March 2002 (Docket No. 207). Cellco’s shared use of the tower was approved by the Council in June 2005 (EM-VER-085-085A-050513). A copy of the Council’s Docket No. 207 Decision and Order and Cellco’s 2005 approval are included in Attachment 1.

Cellco now intends to modify its facility by replacing nine (9) existing antennas with three (3) new Samsung MT6407-77A antennas and six (6) new Quintel QS6656-5D antennas and replacing six (6) remote radio heads (“RRHs”) with six (6) new RRHs all on Cellco’s existing antenna platform. 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 Monroe’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.  
July 22, 2021  
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 platform.

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 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 platform, 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.  
July 22, 2021  
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:

Kenneth Kellogg, First Selectman for the Town of Monroe  
Rick Schultz, AICP, Monroe Town Planner  
St. John the Baptist Greek Catholic Cemetery Association Inc., Property Owner  
Aleksy Tyurin

# **ATTACHMENT 1**

<b>DOCKET NO 207</b> - James E. Dwyer Co., Inc. application for a Certificate of Environmental Compatibility and Public Need for the construction, maintenance and operation of a cellular telecommunications facility at 500 Moose Hill Road, Monroe, Connecticut.	Connecticut
	} Siting
	} Council
	} March 21, 2002

## 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 at the proposed site in Monroe, Connecticut, 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 James E. Dwyer Co., Inc. for the construction, maintenance and operation of a cellular telecommunications facility at the proposed site located at 500 Moose Hill Road, Monroe, 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 facility, no taller than necessary to provide the proposed telecommunications services, sufficient to accommodate the antennas of AT&T and other entities, both public and private, but such tower shall not exceed a height of 130 feet above ground level (AGL).
  
2. The Certificate Holder shall prepare a 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 submitted to and approved by the Council prior to the commencement of facility construction and shall include: a final site plan(s) for site development to include the location and specifications for the tower foundation, placement of carrier antennas, tower height, provisions for tower extension, equipment buildings, security fence, access road, and utility line; construction plans for site clearing, tree trimming, water drainage, and erosion and sedimentation controls consistent with the Connecticut Guidelines for Soil Erosion and Sediment Control, as amended; landscaping and provisions to protect the existing vegetative buffer that would extend around the facility compound; a tower finish that may include painting; and provisions for the prevention and containment of spills and/or other discharge into surface water and groundwater bodies. The applicant must have commitments from at least two carriers prior to commencement of construction of the facility.

3. 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 provide a recalculated report of electromagnetic radio frequency power density if and when circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.

4. 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.

5. 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.

6. If the facility does not initially provide, or permanently ceases to provide cellular services following completion of construction, 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.

7. Any antenna that becomes obsolete and ceases to function shall be removed within 60 days after such antenna becomes obsolete and ceases to function.

8. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed and the site in operation as a telecommunications facility 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.

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 and The Advocate.

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:

James E. Dwyer Co., Inc.  
(Dwyer)  
Dennis Morrissey, P.E.

Attorney at Law  
106 Sherman Street  
Fairfield, CT 06430



# 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](mailto:siting.council@po.state.ct.us)

[www.ct.gov/csc](http://www.ct.gov/csc)

June 9, 2005

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

RE: **EM-VER-085-085A-050513** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify existing telecommunications facilities located at 500 Moose Hill Road, Monroe and 1428 Monroe Turnpike, Monroe, Connecticut.

Dear Attorney Baldwin:

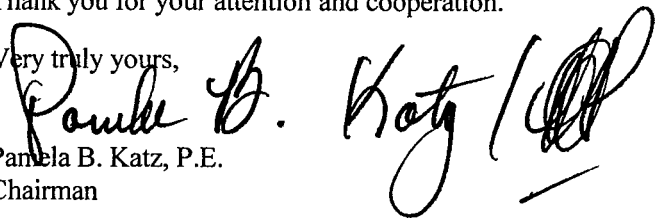
At a public meeting held on June 8, 2005, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated May 13, 2005, 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/jkl

c: The Honorable Andrew J. Nunn, First Selectman, Town of Monroe  
Daniel A. Tuba, Planning Administrator, Town of Monroe  
Optasite, Inc.  
Christopher B. Fisher, Esq., Cuddy & Feder LLP  
Christine Farrell, T-Mobile Inc.  
Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP  
Thomas F. Flynn, III, Nextel Communications Inc.



# **ATTACHMENT 2**



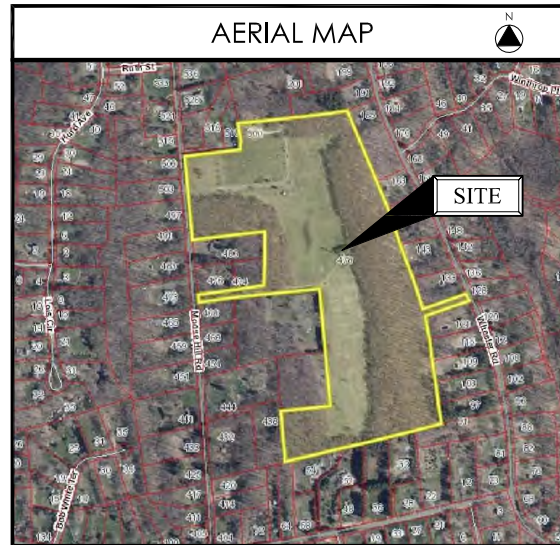
# WIRELESS COMMUNICATIONS FACILITY

**SITE NAME:**  
**MONROE EAST CT**

**SBA SITE # CT13056**  
**500 MOOSE HILL RD.**  
**MONROE, CT 06468**

## ANTENNA MODIFICATION

PROJECT SUMMARY	
SITE NAME:	MONROE EAST CT
SITE ADDRESS:	478-500 MOOSE HILL RD. MONROE, CT 06468
PROPERTY OWNER:	ST. JOHN THE BAPTIST GREEK CATH. CEM. C/O SBA COMMUNICATIONS-TAX DEPT. 8051 CONGRESS AVE. BOCA RATON, FL 33487
TOWER OWNER/MGMT:	SBA SITE # CT13056
PARCEL ID:	051-067-0Z
COORDINATES:	41° 19' 15.48" N 73° 12' 05.12" W
VERIZON CONSTRUCTION:	WALTER CHARCZYNSKI (860) 306-1806
VERIZON REAL ESTATE:	ALEX TYURIN (860) 550-3195



SHEET INDEX	
DE-1	TITLE SHEET
DE-2	COMPOUND PLAN & ELEVATION
DE-3	ANTENNA PLANS & ELEVATION
DE-4	RF PLUMBING DIAGRAM & B.O.M.
DE-5	GENERAL CONSTRUCTION NOTES

WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492

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On Air Engineering, LLC

88 Foundry Pond Road  
Cold Spring, NY 10516  
201-456-4624  
onair@optonline.net

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LICENSURE

DAVID WEINPAHL, P.E.  
CT LIC NO. 22144

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SUBMITTALS	
0	03.04.21 REVIEW
1	04.26.21 PERMITTING/CONSTRUCTION
2	05.18.21 REVISED PER MA & MOD DWGS

---

NO.	DATE	DESCRIPTION

---

DRAWN BY:	MF
CHECKED BY:	DW

---

PROJECT NAME:

**ANTMO**  
**MT6407-850-LTE-PCS**  
**DESIGN EXHIBITS**

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SITE NAME:

**MONROE EAST CT**

---

SITE ADDRESS:

**SBA SITE # CT13056-A**  
**500 MOOSE HILL RD.**  
**MONROE, CT 06468**

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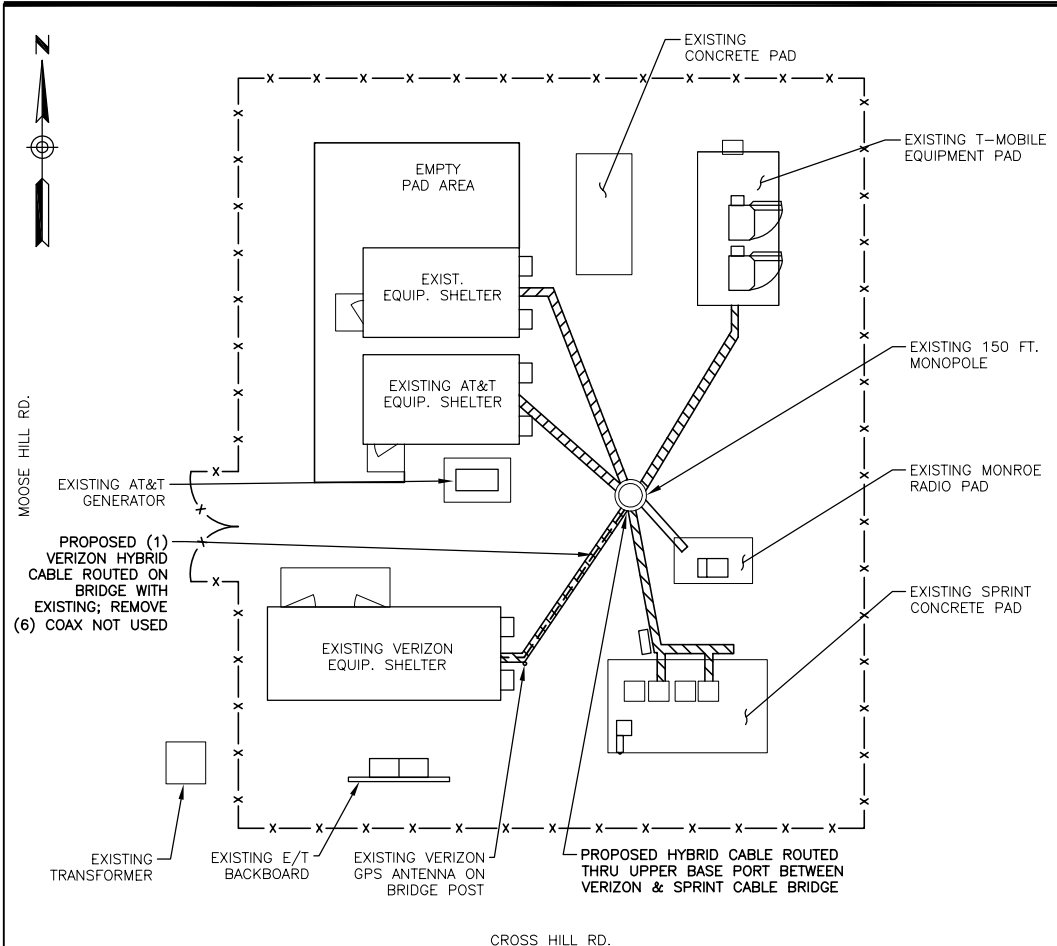
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**TITLE SHEET**

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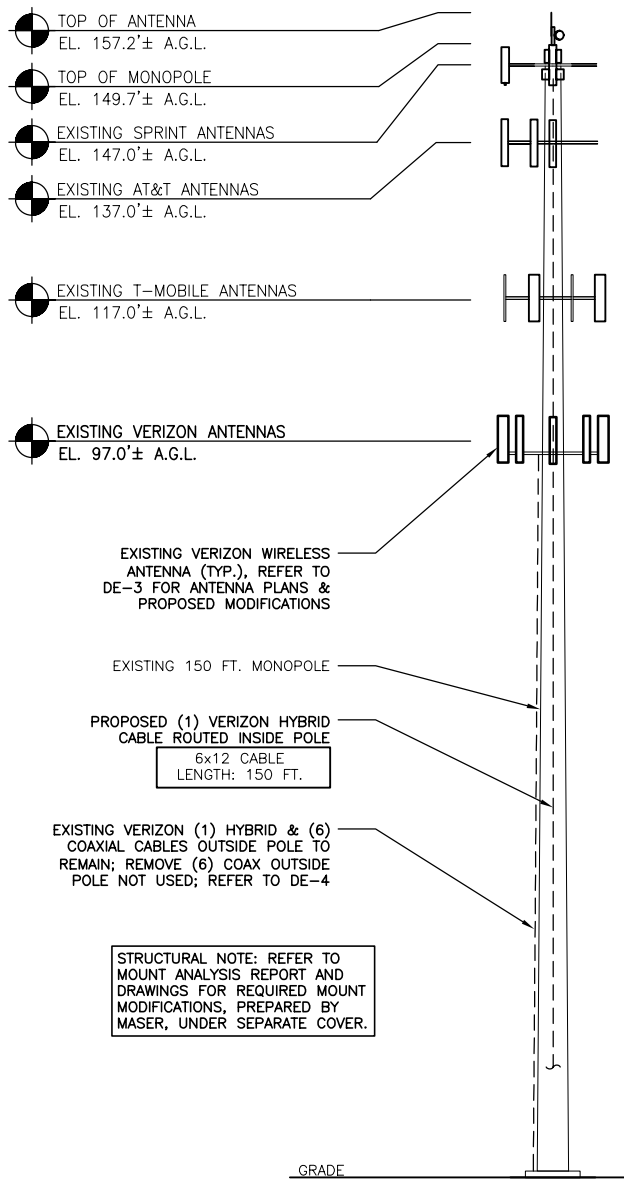
SHEET NUMBER:

**DE-1**



**1**  
DE-2  
**COMPOUND PLAN**  
Scale: 3/32" = 1'-0"

NOTES:  
 1. COMPOUND PLAN IS COMPILED FROM EXISTING DRAWINGS ON FILE WITH THE CT SITING COUNCIL AND A LIMITED DESIGN VISIT ON 1-20-21 FOR A PROPOSED VERIZON ANTENNA MODIFICATION.  
 2. PLANS ARE DIAGRAMMATIC ONLY AND NOT TO BE SCALED.  
 3. REFER TO STRUCTURAL TOWER AND MOUNT ANALYSIS REPORTS, BY OTHERS UNDER SEPARATE COVER, FOR ANY REQUIRED TOWER & MOUNT REINFORCEMENTS, WHICH MUST BE PERFORMED PRIOR TO ANY OTHER VERIZON ANTENNA MODIFICATIONS.



**2**  
DE-2  
**ELEVATION**  
Scale: NTS

**verizon**  
 WIRELESS COMMUNICATIONS FACILITY  
 20 ALEXANDER DRIVE  
 WALLINGFORD, CT 06492

**On Air Engineering, LLC**  
 88 Foundry Pond Road  
 Cold Spring, NY 10516  
 201-456-4624  
 onair@optonline.net

LICENSURE  
  
 DAVID WEINPAHL, P.E.  
 CT LIC NO. 22144

SUBMITTALS

NO	DATE	REVIEW
1	03.04.21	REVIEW
1	04.26.21	PERMITTING/CONSTRUCTION
2	05.18.21	REVISED PER MA & MOD DWGS

NO	DATE	DESCRIPTION

DRAWN BY: MF  
 CHECKED BY: DW  
 PROJECT NAME:  
**ANTMO  
 MT6407-850-LTE-PCS  
 DESIGN EXHIBITS**

SITE NAME:  
**MONROE EAST CT**

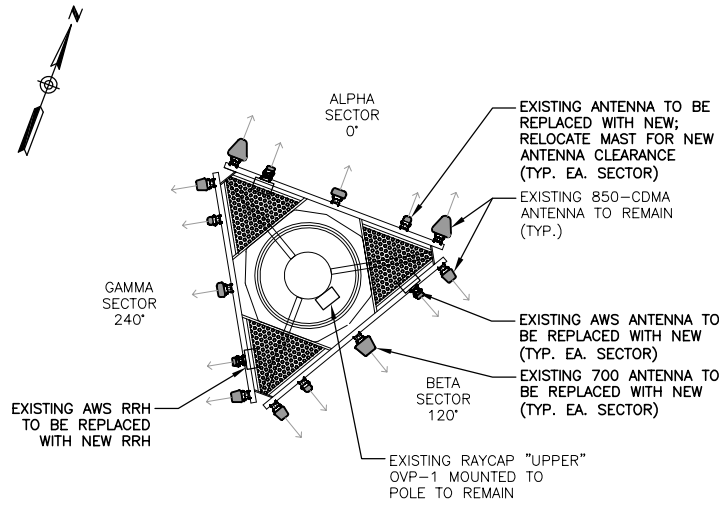
SITE ADDRESS:  
**SBA SITE # CT13056-A  
 500 MOOSE HILL RD.  
 MONROE, CT 06468**

SHEET TITLE:  
**COMPOUND PLAN  
 & ELEVATION**

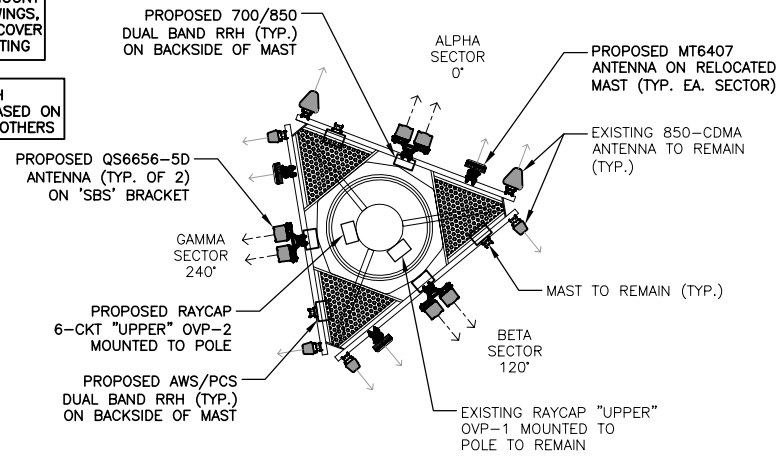
SHEET NUMBER:  
**DE-2**

NOTE: REFER TO MOUNT MODIFICATION DRAWINGS, UNDER SEPARATE COVER BY MASER CONSULTING

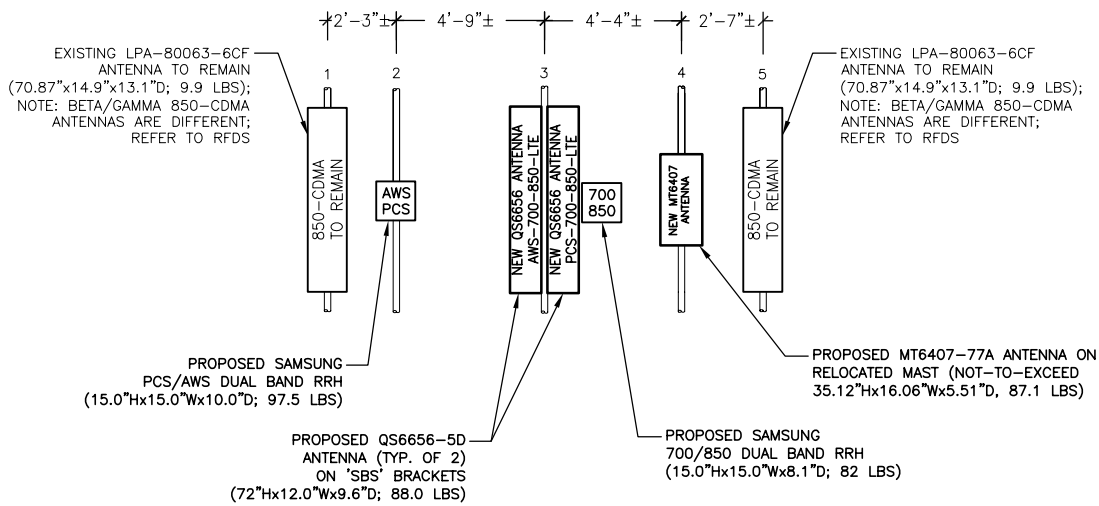
NOTE: NEW DUAL RRH LOCATIONS SHOWN BASED ON MOUNT ANALYSIS BY OTHERS



1 ANTENNA PLAN @ 97 FT. - EXISTING  
Scale: 1/8" = 1'-0"



2 ANTENNA PLAN @ 97 FT. - PROPOSED  
Scale: 1/8" = 1'-0"



3 ANTENNA ELEVATION (TYP.) - PROPOSED  
Scale: 1/4" = 1'-0"

**verizon**  
WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492

**On Air Engineering, LLC**  
88 Foundry Pond Road  
Cold Spring, NY 10516  
201-456-4624  
onair@optonline.net

LICENSURE

DAVID WEINPAHL, P.E.  
CT LIC NO. 22144

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PROJECT NAME:  
**ANTMO  
MT6407-850-LTE-PCS  
DESIGN EXHIBITS**

SITE NAME:  
**MONROE EAST CT**

SITE ADDRESS:  
**SBA SITE # CT13056-A  
500 MOOSE HILL RD.  
MONROE, CT 06468**

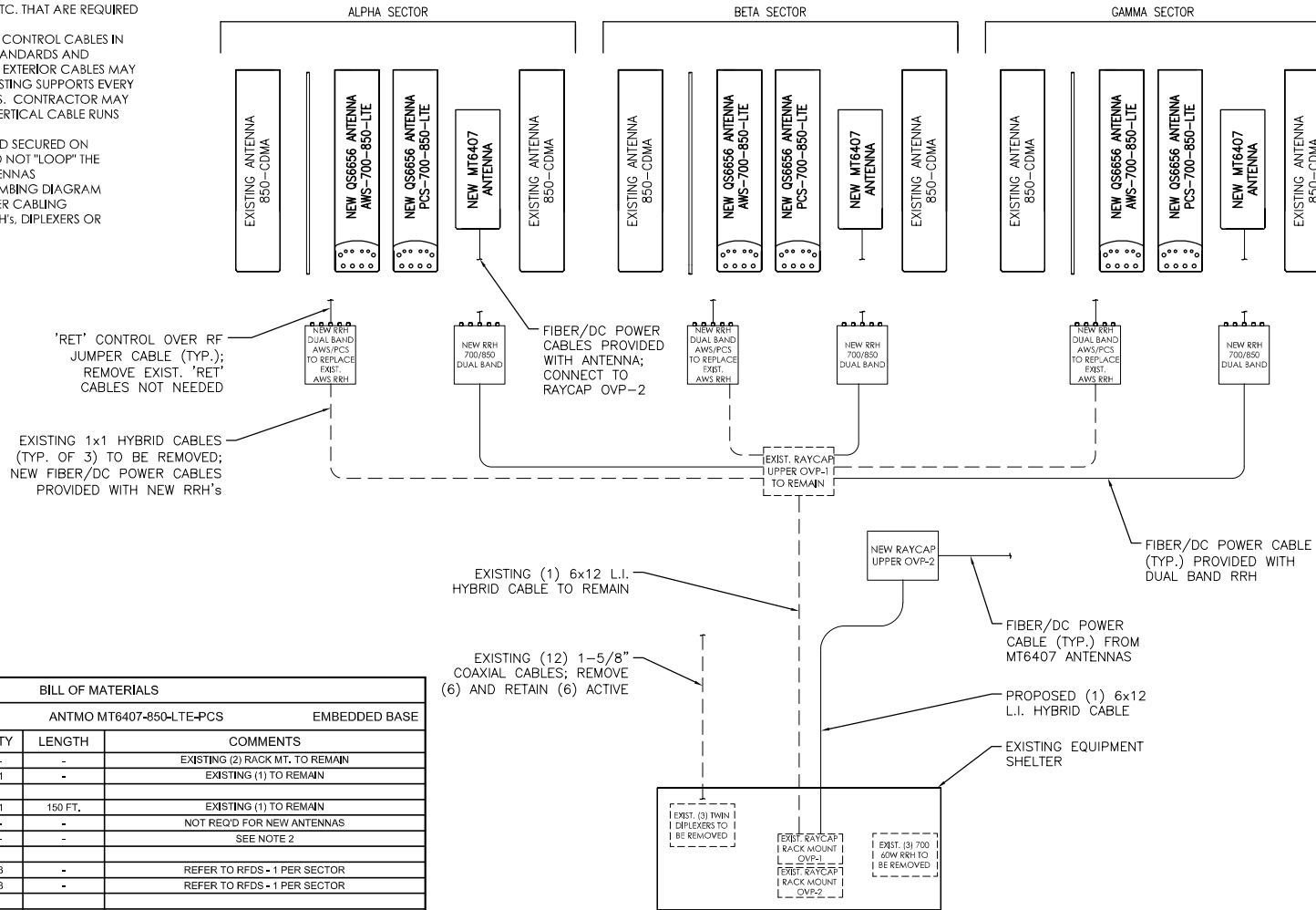
SHEET TITLE:  
**ANTENNA PLANS  
& ELEVATION**

SHEET NUMBER:  
**DE-3**

**GENERAL NOTES:**

1. CONTRACTOR SHALL REFER TO THE LATEST VERIZON WIRELESS RFDS WHICH MAY INCLUDE ANTENNA SECTOR AZIMUTHS/ANTENNA CHANGES, ETC. THAT ARE REQUIRED AS PART OF THE PROJECT.
2. CONTRACTOR SHALL SECURE ALL CONTROL CABLES IN ACCORDANCE WITH INDUSTRY STANDARDS AND MANUFACTURERS INSTRUCTIONS. EXTERIOR CABLES MAY BE TAPED OR TIE-WRAPPED TO EXISTING SUPPORTS EVERY 4 FT. MAX. FOR HORIZONTAL RUNS. CONTRACTOR MAY USE HOISTING GRIPS AT TOP OF VERTICAL CABLE RUNS WHEN REQUIRED.
3. ALL CABLES SHALL BE ROUTED AND SECURED ON STRUCTURAL MEMBERS ONLY - DO NOT "LOOP" THE CABLES IN MID-AIR BETWEEN ANTENNAS
4. REFER TO RFDS FOR DETAILED PLUMBING DIAGRAM SHOWING ALL JUMPER AND OTHER CABLING CONNECTIONS AT ANTENNAS, RRH's, DIPLEXERS OR OTHER DEVICES.

NOTE: ALL ANTENNAS VIEWED FROM REAR



BILL OF MATERIALS			
SITE NAME: MONROE EAST CT		ANTMO MT6407-850-LTE-PCS	
DESCRIPTION	QTY	LENGTH	COMMENTS
LOWER OVP	-	-	EXISTING (2) RACK MT. TO REMAIN
6-CKT. UPPER OVP	1	-	EXISTING (1) TO REMAIN
6x12 L.I. HYBRID CABLE	1	150 FT.	EXISTING (1) TO REMAIN
'RET' CONTROL CABLE	-	-	NOT REQ'D FOR NEW ANTENNAS
1/2" JUMPER CABLE	-	-	SEE NOTE 2
AWS/PCS DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
700/850 DUAL BAND RRH	3	-	REFER TO RFDS - 1 PER SECTOR
MT6407 ANTENNA	3	-	SAMSUNG INTEGRATED - 1 PER SECTOR
QUINTEL AWS-700-850-LTE ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
QUINTEL PCS-700-850-LTE ANTENNA	3	-	REFER TO RFDS - 1 PER SECTOR
QUINTEL DUAL MOUNTING BRACKET	3	-	REFER TO RFDS - 1 PER SECTOR
850-CDMA ANTENNA	-	-	EXISTING (6) TO REMAIN - 2 PER SECTOR

- NOTES:
1. ITEMS SHOWN ARE FOR MAJOR DESIGN ELEMENTS ONLY. REFER TO VERIZON WIRELESS RFDS FOR ALL MANUFACTURER PART NUMBERS AND ACCESSORY ITEMS REQUIRED FOR A COMPLETE INSTALLATION.
  2. CONTRACTOR SHALL DETERMINE AND PROVIDE ALL REQUIRED PRE-FAB JUMPER QUANTITIES AND LENGTHS, KEEPING ALL LENGTHS TO A MINIMUM.

**1 RF PLUMBING DIAGRAM**  
DE-4 Scale: N.T.S

**verizon**  
WIRELESS COMMUNICATIONS FACILITY  
20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492

**On Air Engineering, LLC**  
88 Foundry Pond Road  
Cold Spring, NY 10516  
201-456-4624  
onair@optonline.net

LICENSURE  
**STATE OF CONNECTICUT**  
DAVID A. WEINPAHL  
NO. 22144  
LICENSED PROFESSIONAL ENGINEER  
DAVID WEINPAHL, P.E.  
CT LIC NO. 22144

SUBMITTALS	
NO.	DATE
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1	04.26.21
2	05.18.21

PROJECT NAME:  
**ANTMO  
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DESIGN EXHIBITS**

SITE NAME:  
**MONROE EAST CT**

SITE ADDRESS:  
**SBA SITE # CT13056-A  
500 MOOSE HILL RD.  
MONROE, CT 06468**

SHEET TITLE:  
**RF PLUMBING  
DIAGRAM & B.O.M.**

SHEET NUMBER:  
**DE-4**

**GENERAL CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL NOT COMMENCE ANY WORK UNTIL HE OBTAINS, AT HIS OWN EXPENSE, ALL INSURANCE REQUIRED BY *CELLCO PARTNERSHIP d/b/a VERIZON, THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.*
2. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS AND ALL LOCAL LAWS AND REGULATIONS, CURRENT EDITIONS.
3. CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND MAKE PROVISIONS AS TO THE COST THEREOF. CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, ANGLES AND EXISTING CONDITIONS AT THE SITE PRIOR TO FABRICATION AND/OR INSTALLATION OF ANY WORK IN THE CONTRACT AREA AND SUBMIT TO THE ENGINEER ANY DISCREPANCIES FROM THE DRAWINGS.
5. CONTRACTOR IS TO REVIEW ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENT SET. CONTRACTOR SHALL COORDINATE ALL WORK SHOWN IN THE SET OF DRAWINGS. CONTRACTOR SHALL PROVIDE A COMPLETE SET OF DRAWINGS TO ALL SUB-CONTRACTORS AND ALL RELATED PARTIES. THE SUB-CONTRACTORS SHALL EXAMINE ALL THE DRAWINGS AND SPECIFICATIONS FOR THE INFORMATION THAT AFFECTS THEIR WORK.
6. CONTRACTOR SHALL PROVIDE A COMPLETE BUILD-OUT WITH ALL FINISHES, STRUCTURAL, MECHANICAL AND ELECTRICAL COMPONENTS AND PROVIDE ALL ITEMS AS SHOWN OR INDICATED ON DRAWINGS OR WRITTEN IN SPECIFICATIONS.
7. CONTRACTOR SHALL FURNISH ALL MATERIAL, LABOR AND EQUIPMENT TO COMPLETE THE WORK AND FURNISH A COMPLETED JOB IN ACCORDANCE WITH LOCAL AND STATE GOVERNING AUTHORITIES AND OTHER AUTHORITIES HAVING LAWFUL JURISDICTION OVER THE WORK.
8. CONTRACTOR SHALL OBTAIN AT HIS OWN EXPENSE ALL PERMITS AND ALL INSPECTIONS REQUIRED FROM FEDERAL AND STATE GOVERNMENTS, COUNTIES, MUNICIPALITIES AND OTHER REGULATORY AGENCIES WHICH MAY BE REQUIRED FOR THE PROJECT.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. ALL MATERIAL PROVIDED BY *CELLCO PARTNERSHIP d/b/a VERIZON IS TO BE REVIEWED BY CONTRACTOR AND ALL APPLICABLE SUB-CONTRACTOR PRIOR TO INSTALLATION. ANY DEFICIENCIES TO PROVIDED MATERIALS SHALL BE BROUGHT TO THE CONSTRUCTION MANAGERS ATTENTION IMMEDIATELY.*
12. THE MATERIALS INSTALLED IN THE WORK SHALL MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO SUBSTITUTIONS ARE ALLOWED.
13. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION, FOR SEQUENCES AND PROCEDURES TO BE USED, AND TO ENSURE THE SAFETY OF THE EXISTING BUILDING AND ITS COMPONENT DURING CONSTRUCTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, BRACING, UNDERPINNING, ETC. THAT MAY BE NECESSARY.
14. CONTRACTOR SHALL COORDINATE ALL CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS FOR THE LOCATION OF ALL OPENINGS, RECESSES, BUILT-IN WORK, ETC.
15. CONTRACTOR SHALL RECEIVE CLARIFICATION IN WRITING AND SHALL RECEIVE IN WRITING AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEMS NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ALL PRODUCTS OR ITEMS NOTED AS "EXISTING" WHICH ARE NOT FOUND TO BE IN THE FIELD.

17. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMEN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST-ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS, AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL O.S.H.A REQUIREMENTS.
19. CONTRACTOR SHALL COORDINATE HIS WORK AND SCHEDULE HIS ACTIVITIES AND WORKING HOURS IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROPERTY OWNER AND/OR PROPERTY MANAGEMENT COMPANY.
20. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK OF OTHERS AS IT MAY RELATE TO RADIO EQUIPMENT, ANTENNAS AND ANY OTHER PORTIONS OF THE WORK.
21. CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OR WHERE LOCAL CODES OR REGULATIONS MAY TAKE PRECEDENCE.
22. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING SURFACES, EQUIPMENT, IMPROVEMENTS, PIPING, ANTENNA AND ANTENNA CABLES AND REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
23. CONTRACTOR SHALL REPAIR ALL EXISTING SURFACES DAMAGED DURING CONSTRUCTION SUCH THAT THEY MATCH AND BLEND WITH ADJACENT SURFACES.
24. CONTRACTOR SHALL KEEP CONTRACT AREA CLEAN, HAZARD FREE AND DISPOSE OF ALL DEBRIS AND RUBBISH. EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY OF THE OWNER SHALL BE REMOVED. LEAVE PREMISES IN CLEAN CONDITIONS AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL ITEMS UNTIL COMPLETION OF CONSTRUCTION.
25. BEFORE FINAL ACCEPTANCE OF THE WORK, CONTRACTOR SHALL REMOVE ALL EQUIPMENT, TEMPORARY WORKS, UNUSED AND USELESS MATERIALS, RUBBISH AND TEMPORARY STRUCTURES.




WIRELESS COMMUNICATIONS FACILITY

20 ALEXANDER DRIVE  
WALLINGFORD, CT 06492



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Cold Spring, NY 10516  
201-456-4624  
onair@optonline.net

LICENSURE



DAVID WEINPAHL, P.E.  
CT LIC NO. 22144

SUBMITTALS	
0	03.04.21 REVIEW
1	04.26.21 PERMITTING/CONSTRUCTION
2	05.18.21 REVISED PER MA & MOD DWGS

NO.	DATE	DESCRIPTION
DRAWN BY:	MF	
CHECKED BY:	DW	

PROJECT NAME:  
**ANTMO  
MT6407-850-LTE-PCS  
DESIGN EXHIBITS**

SITE NAME:  
**MONROE EAST CT**

SITE ADDRESS:  
**SBA SITE # CT13056-A  
500 MOOSE HILL RD.  
MONROE, CT 06468**

SHEET TITLE:  
**GENERAL  
CONSTRUCTION  
NOTES**

SHEET NUMBER:  
**DE-5**



- Independent Tilts at 700 & 850MHz with Dual-Band Radios
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design

- AISG & 3GPP compliant internal (RET) with Smart Bias T
- Best in class Quality and Internal PIM performance
- Slimline 12" Form factor

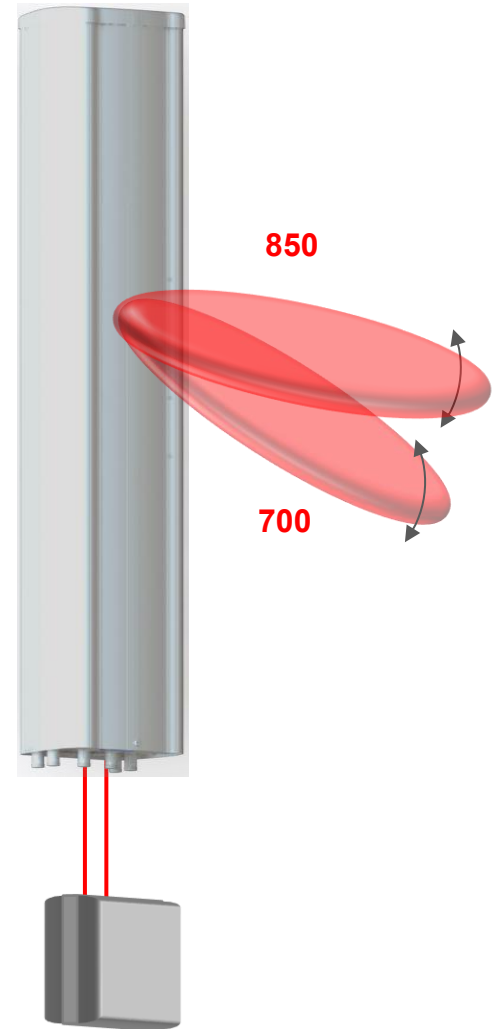
Electrical Characteristics	4x Ports <b>1 2</b>		8x Ports <b>3 4 5 6</b>			
	698-806 & 824-894		1695-2400			
Operating Frequency (MHz)	698-806	824-894	1695-1780	1850-1990	2110-2180	2300-2400
Peak Gain (dBi)	13.8	13.6	17.1	17.7	18.0	18.2
Azimuth beamwidth <sup>1</sup>	67°	63°	73°	66°	61°	60°
Elevation beamwidth <sup>1</sup>	11.9°	10.4°	6.4°	5.8°	5.3°	4.7°
Gain <sup>1</sup> (dBi)	13.4	13.2	16.6	17.1	17.4	17.7
Polarization	2x ±45°		2x ±45°			
Electrical down-tilt range	2°-14°	2°-14°	0°-8°			
USLS 20°>mainbeam (dB) <sup>1</sup>	17	17	16	18	17	16
FTB at 180°±10° (dB) <sup>1</sup>	30	28	28	33	35	36
Port to Port isolation <sup>1</sup>	25	25	30	30	30	30
Return loss/VSWR (dB)	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5	14/1.5
X Polar at 0° (dB)	16	16	19	19	19	18
Max Power handling (port)	250 Watts		250 Watts			
Max Power (all ports)	700 Watts					
PIM (dBc: 2x43dBm)	>153		>153			

<sup>1</sup> Typical Performance across ports, frequencies and Downtilt.

## Mechanical Characteristics

Dimensions	L 72"(1828mm) x W 12"(304mm) x D 9.6"(245mm)
Weight (excl mounting brackets)	92.5lbs (42.0kg)
No. of Connectors	6x 4.3-10.0 DIN Female Long Neck
Max Wind Speed	150mph (67m/s)
Equivalent Projected Area <sup>2</sup>	Front: 2.6ft <sup>2</sup> (0.24m <sup>2</sup> ) Side: 5ft <sup>2</sup> (0.48m <sup>2</sup> )
Wind Load <sup>2</sup> @ 161km/h (45m/s)	Front: 64lbs (285N), Side: 120lbs (535N)
Operating Temperature	-40°C to +65°C.

<sup>2</sup> Equivalent Projected Area and Wind Load derived from wind tunnel measurements.



700/850MHz  
Dual-Band Radio

Tel: +1 (585) 420-8720  
[info@quintelsolutions.com](mailto:info@quintelsolutions.com)  
[www.quintelsolutions.com](http://www.quintelsolutions.com)

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- Independent Tilts at 700 & 850MHz with Dual-Band Radios
- Optimized Azimuth patterns for Min Inter-Sector Interference
- Industry leading Minimal Wind-Load Radome design

- AISG & 3GPP compliant internal (RET) with Smart Bias T
- Best in class Quality and Internal PIM performance
- Slimline 12" Form factor

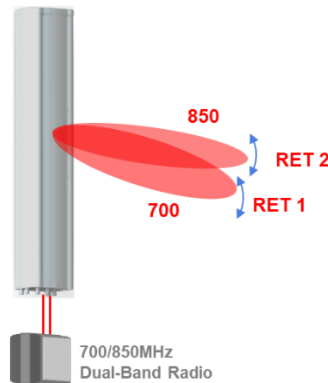
### Fully Integrated RET Characteristics

Protocol	V 1.1/2.0/3GPP
Surge immunity	IEC 61000-4-5:2005 4KV(AISG PIN)
AISG Data rate	9.6 kbps
RET Connectors	2x 8-Pin DIN Female & 2x 8-Pin DIN Male

### Port Layout, Array Configuration and RET ID



RET ID	Ports			Arrays	Freq Range	
1	1	2		R1	698-806MHz	
2	1	2		R2	824-894MHz	
3	3	4	5	6	Y1 Y2	1695-2400MHz



Tel: +1 (585) 420-8720  
[info@quintelsolutions.com](mailto:info@quintelsolutions.com)  
[www.quintelsolutions.com](http://www.quintelsolutions.com)

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**SAMSUNG**

# **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



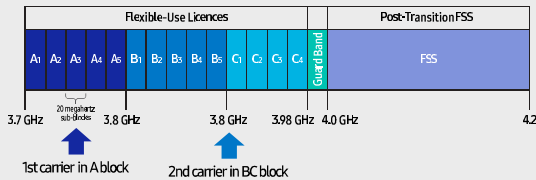
## Points of Differentiation

### 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

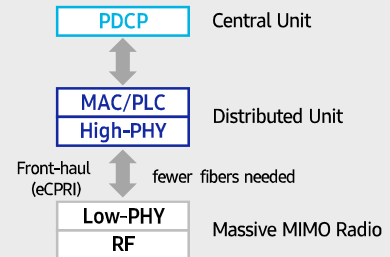
C-Band spectrum supported by Massive MIMO Radio



### 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.

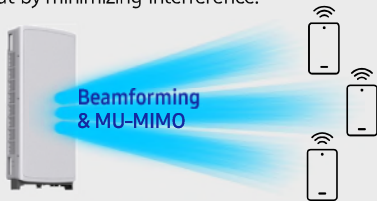


### Enhanced Performance

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.

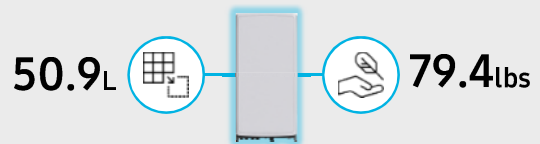
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### 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.

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# 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

# 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

# **ATTACHMENT 3**

	General	Power	Density					
<b>Site Name: Monroe E</b>								
<b>Tower Height: Verizon @ 97ft</b>								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	CALC. POWER DENS	FREQ.	MAX. PERMISS. EXP.	FRACTION MPE	Total
*T-Mobile	1	19239	121	2500	0.5232	1.0000	5.23%	
*T-Mobile	1	19239	121	2500	0.5232	1.0000	5.23%	
*T-Mobile	2	592	121	600	0.0322	0.4000	0.80%	
*T-Mobile	1	1578	121	600	0.0429	0.4000	1.07%	
*T-Mobile	2	695	121	700	0.0378	0.4667	0.81%	
*T-Mobile	2	2105	121	1900	0.1145	1.0000	1.14%	
*T-Mobile	2	1325	121	2100	0.0721	1.0000	0.72%	
*T-Mobile	2	2057	121	1900	0.1119	1.0000	1.12%	
*T-Mobile	4	1028	121	1900	0.1118	1.0000	1.12%	
*T-Mobile	2	2308	121	2100	0.1255	1.0000	1.26%	
*Clearwire	2	153	147	2496	0.0055	1.0000	0.06%	
*Clearwire	1	211	147	11 GHz	0.0038	1.0000	0.04%	
*Sprint	3	347	147	1900	0.0188	1.0000	0.19%	
*Sprint	1	195	147	850	0.0035	0.5667	0.06%	
*Sprint	2	195	147	2500	0.0071	1.0000	0.07%	
*Sprint	3	562	147.5	2657	0.0303	1.0000	0.30%	
*Sprint	2	2512	148	19500	0.0896	1.0000	0.90%	
*Sprint	2	708	148	11500	0.0253	1.0000	0.25%	
*AT&T-UMTS	1	257	139	850	0.0052	0.5667	0.09%	
*AT&T-LTE	1	1476	139	700	0.0300	0.4667	0.64%	
*AT&T-LTE	1	1000	139	850	0.0203	0.5667	0.36%	
*AT&T-LTE	1	1000	139	850	0.0203	0.5667	0.36%	
*AT&T-LTE	2	4842	139	1900	0.1969	1.0000	1.97%	
*AT&T-LTE	1	1285	139	2300	0.0261	1.0000	0.26%	
*Town PD	receive only - no RF emissions							
*Nextel	12	100	107.5	851	0.0419	0.5673	0.74%	
<b>VZW 700</b>	<b>4</b>	<b>575</b>	<b>97</b>	<b>0.0088</b>	<b>751</b>	<b>0.5007</b>	<b>1.76%</b>	
<b>VZW CDMA</b>	<b>2</b>	<b>400</b>	<b>97</b>	<b>0.0031</b>	<b>878.49</b>	<b>0.5857</b>	<b>0.52%</b>	
<b>VZW Cellular</b>	<b>4</b>	<b>660</b>	<b>97</b>	<b>0.0101</b>	<b>874</b>	<b>0.5827</b>	<b>1.73%</b>	
<b>VZW PCS</b>	<b>4</b>	<b>2088</b>	<b>97</b>	<b>0.0319</b>	<b>1980</b>	<b>1.0000</b>	<b>3.19%</b>	
<b>VZW AWS</b>	<b>4</b>	<b>2343</b>	<b>97</b>	<b>0.0358</b>	<b>2120</b>	<b>1.0000</b>	<b>3.58%</b>	
<b>VZW CBAND</b>	<b>4</b>	<b>6531</b>	<b>97</b>	<b>0.0999</b>	<b>3730.08</b>	<b>1.0000</b>	<b>9.99%</b>	
								<b>45.57%</b>
* Source: Siting Council								

# **ATTACHMENT 4**



SBA Communications Corporation  
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F + 561 995 7626

sbsite.com



## Structural Analysis Report

### Client: Verizon

Client Site ID / Name: 468601 / Monroe East, CT  
Application #: 127813, v4

SBA Site ID / Name: CT13056-A / Moosehill

150 ft Monopole

500 Moosehill Road  
Monroe, Connecticut 06468  
Lat: 41.320967, Long: -73.201422

Project number: CT13056-VZW-062221

### Analysis Results

Tower	75.9%	Pass
Foundation	75.0%	Pass

Change in tower stress due to mount modification / replacement	N/A
--	-----

Prepared by:

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Reviewed by:

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June 22, 2021



06/22/21

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    Coax Layout.....

    TESPole Report.....

    Foundation Analysis Report.....



## Introduction

The purpose of this report is to summarize the analysis results on the 150 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document
<b>Tower design/drawings</b>	Sabre, Job #: 02-03107 Rev A, dated 04/03/2002.
<b>Foundation drawings</b>	Sabre, Job #: 02-03107 Rev A, dated 04/03/2002.
<b>Geotechnical report</b>	James E.Dwyer Co. Inc., dated 03/20/2002.
<b>Latest SA</b>	TES, Project # 99140, dated 12/09/2020

## Analysis Criteria

Table 2 Code Related Data

<b>Jurisdiction (State/County/City)</b>	Connecticut/Fairfield/Monroe
<b>Governing Codes</b>	ANSI/TIA/EIA 222-G, 2015 IBC, 2018 CT State Building Code
<b>Basic Wind Speed (3-Sec gust)</b>	94.0 mph (Ultimate Wind Speed: 121 mph)
<b>Wind Speed with Ice (3-Sec gust)</b>	50 mph
<b>Service Wind Speed (3-Sec gust)</b>	60 mph
<b>Ice Thickness</b>	0.75"
<b>Structural Class *</b>	II
<b>Exposure Category</b>	C
<b>Topographic Category</b>	1
<b>Crest Height</b>	0 ft
<b>Ground Elevation</b>	622.96 ft.
<b>Seismic Parameter <math>S_s</math> **</b>	0.204
<b>Seismic Parameter <math>S_1</math></b>	0.065

\*This structural analysis is based upon the tower being classified as a structural class II; however, if a different classification is required subsequent to the date hereof, the tower classification will be changed to meet such requirement and a new structural analysis will be run.

\*\*Earthquake effects were ignored as per section 2.7.3 of the TIA-222-G code provisions for  $S_s < 1.0$ .

# Appurtenance Loading

## Existing Loading:

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Decibel DB404-B - Whip	Pipe Mount	7/8"	Town of Monroe
			Andrew VHLP2-11 - Dish	12.5' LP Platform		Sprint/ Clearwire
			Andrew VHLP800-11-DW1 - Dish			
			Argus LLPX310R - Panel			
			RFS APXVSP18-C-A20 - Panel			
			RFS APXVTM14-C-120 - Panel			
			ALU 800MHz RRH w/ filter			
			ALU 1900MHz RRH			
			ALU 800MHz RRH			
			ALU TD-RRH8x20-25			
			U-RAS Flexible RRH ODUs			
			Powerwave 7770			
			Cci DMP65R-BU6DA			
			Cci HPA-65R-BUU-H6			
			Powerwave LGP13519 Diplexer			
			Powerwave LGP21901 Diplexer			
			Powerwave 7020.00 RET			
			Ericsson RRUS 32 B2			
			Ericsson 4449 B5/B12			
			Ericsson 4415 B30			
			Raycap DC6-48-60-18-8F			
			Commscope ABT-DFDM-ADBH			
			Commscope WCS-IMFQ-AMT-R40			
			Ericsson AIR6449 B41	LP Platform w/ kicker and handrail kit Site Pro	(3) 1 5/8" Fiber	T-Mobile
		3	Ericsson AIR32 KRD901146-1_B66A_B2A (Octo)			
			Ericsson KRY 112 144/1			
			Commscope SDX1926Q-43			
			Ericsson 4449 B71 + B85			
			Ericsson 4415 B25			
			Antel BXA-70063-6CF_4 - Panel	12.5' LP Platform	5/8" (1) 1 5/8" Fiber	Verizon
			Antel BXA-171063/12BF-2 - Panel			
			Swedcom SLCP 2x60A4F - Panel			
			RFS FD9R6004/2C-3L - Diplexer			
			Amphenol LPA-80063-6CF-EDIN-2 - Panel	3' Standoff @ 64.0	1/2"	Sprint
			Celwave APL866513-42TD - Panel			
			Kathrein 742 213 - Panel			
			Antel BXA-70063-4CF-EDIN-X - Panel			
			Antel BXA-171063-8BF-EDIN-0 - Panel			
			Decibel 260B			



**Proposed Loading:**

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 127813, v4 from Verizon and is listed in Table 4.

*Table 4 Proposed Appurtenances*

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
			Samsung B2/B66A RRH-BR049	12.5' LP Platform (3) Dual Antenna Mount Bracket [Quintel]	(2) 1 5/8" Hybrid	Verizon
			Samsung B5/B13 RRH-BR04C			
			Amphenol LPA-80063-6CF-EDIN-2 - Panel			
			Celwave APL866513-42TD - Panel			
			Quintel QS6656-5D - Panel			
			Samsung MT6407-77A - Panel			



## Analysis Results

### Tower

The results of the structural analysis are shown below in table 5. Additional information for the tower analysis is provided within the Appendix.

*Table 5 Tower Analysis Summary*

	<b>Pole shafts</b>	<b>Anchor Bolts</b>	<b>Base Plate</b>	<b>Flange Plate</b>
<b>Max. Usage:</b>				
<b>Pass/Fail</b>	Pass	Pass	Pass	Pass

### Foundation

The results of the foundation analysis are shown below in table 6. Additional information for the foundation analysis is provided within the Appendix.

*Table 6 Foundation Analysis Summary*

<b>Structural Component</b>	<b>Max Usage (%)</b>	<b>Analysis Result</b>
<b>Foundation</b>	75.0%	Pass

## Conclusions

Based on the analysis results, the existing tower and foundation were found to be **sufficient** to safely support the equipment listed in this analysis. No modification to the tower and foundation is needed at this time.

## Installation Requirements

This analysis was performed under the assumption that the carrier will place the proposed equipment and feed lines at the installation height listed in Table 4 and in accordance with the coax layout shown. TMAs and RRUs are to be installed on existing mounts behind tenant's antennas unless otherwise noted. No equipment is to be installed directly in the climbing path. All equipment is to be installed per mount manufacturer specifications. In case site conditions do not allow for the required installation parameters to be met the carrier must notify SBA Communications Corporation engineers for approval of an alternative placement.

# Assumptions and Limitations

## Assumptions

This analysis was completed based on the following assumptions:

Tower and foundation were built in accordance to manufacturer specifications.

Tower and foundation has been properly maintained in accordance with the manufacturer's specifications

All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion

Welds and bolts are assumed able to carry their intended original design loads.

The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.

This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

## Limitations

The computer generated analysis performed by the tower software is limited to theoretical capacities of the towers structural members and does not account for any missing or damaged members or connections. The tower and foundation are assumed to have been properly designed, fabricated, installed and maintained, barring any conflicting findings from the most recent inspection.

SBA Communications Corporation has used its due diligence to verify the information provided to perform this analysis. It is unreasonable to perform a more detailed inspection of a tower and its components. This report is not a condition assessment of the tower or foundation.



## Appendix

# Usage Diagram - Max Ratio 75.86% at 0.0ft

**Structure:** CT13056-A  
**Site Name:** Moosehill  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)

**Code:** EIA/TIA-222-G  
**Exposure:** C  
**Gh:** 1.1

6/22/2021

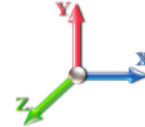


Page: 1

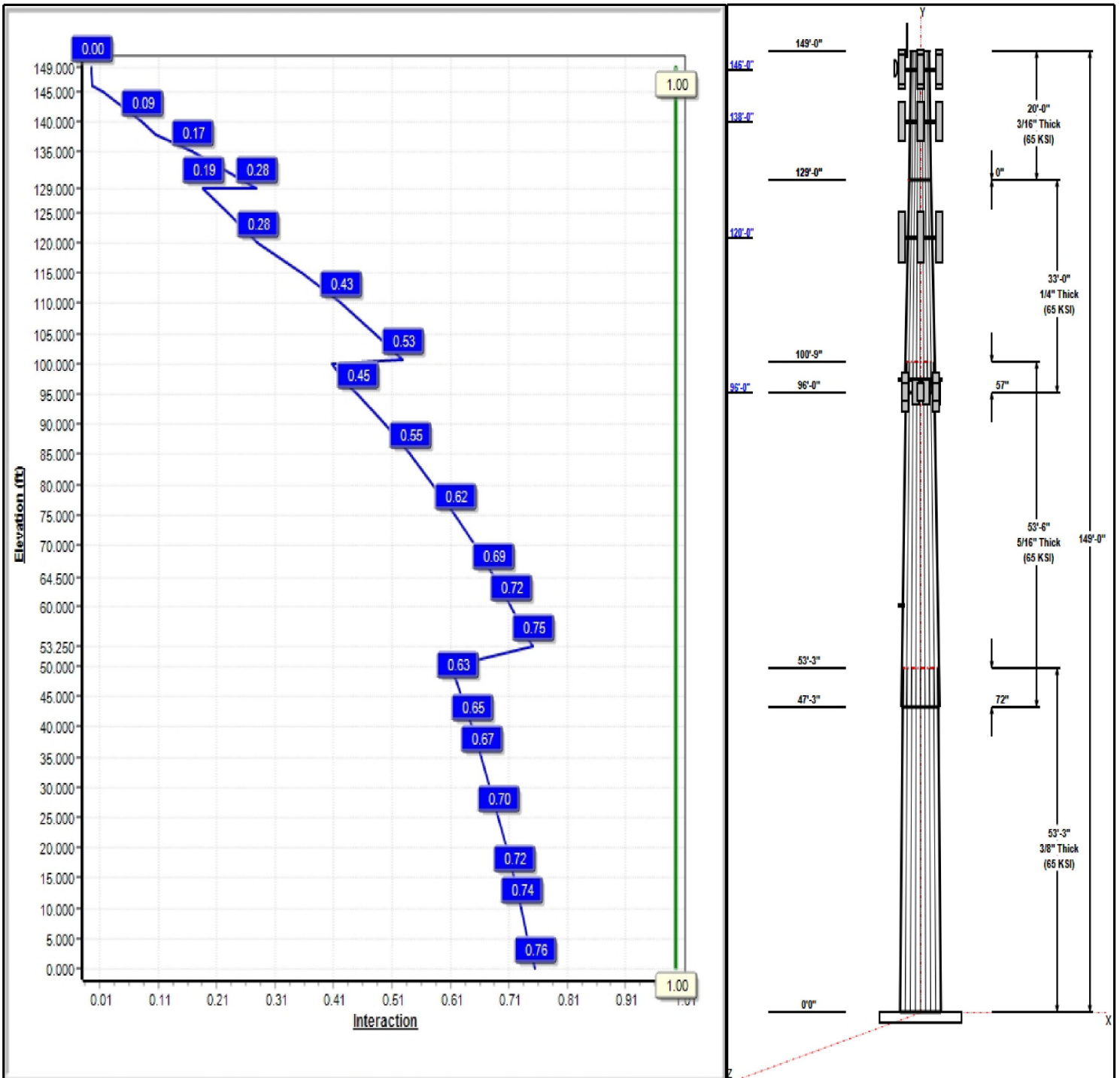
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.60

**Iterations:** 24

**Load Case : 1.2D + 1.6W 94 mph Wind**



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## Structure: CT13056-A

**Type:** Custom  
**Site Name:** Moosehill  
**Height:** 149.00 (ft)  
**Base Elev:** 1.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.24100

6/22/2021

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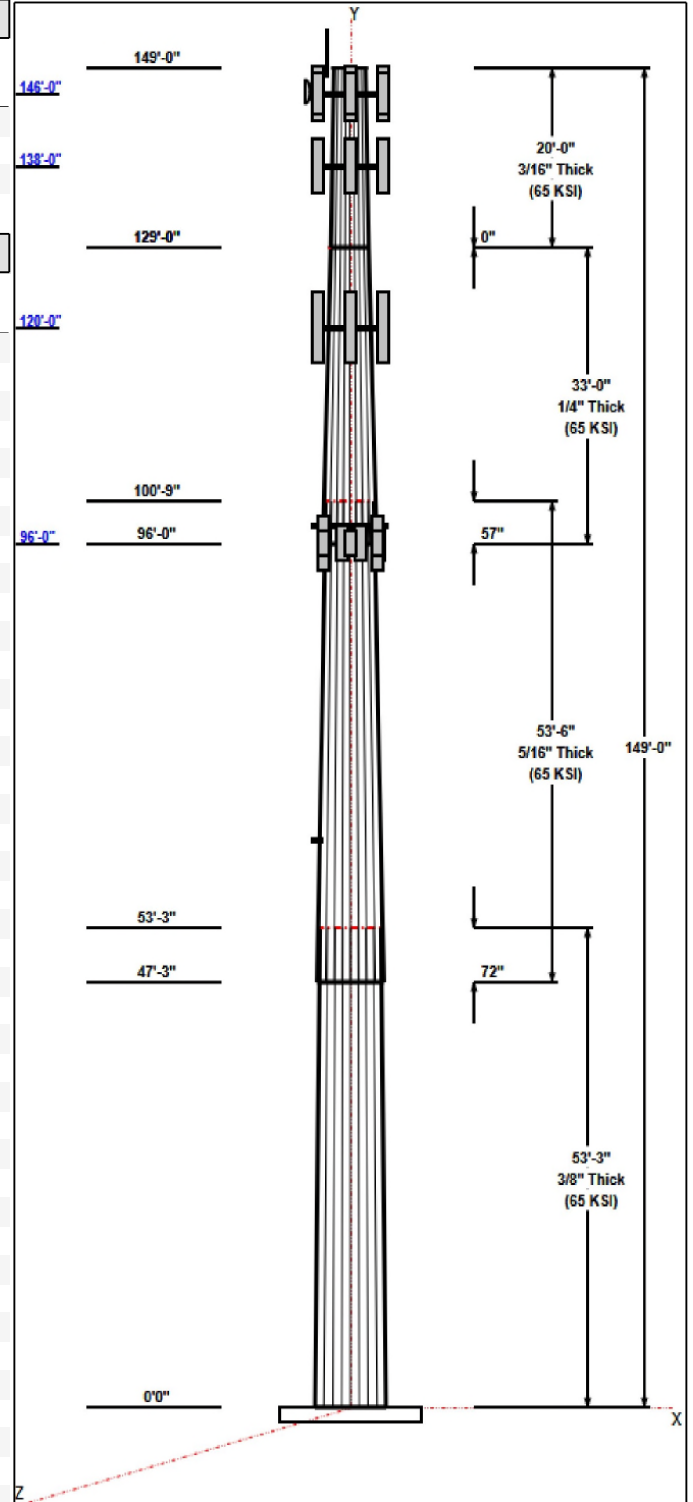


### Shaft Properties

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.25	46.08	58.91	0.375		0.24100	65
2	53.50	35.25	48.15	0.313	Slip	0.24100	65
3	33.00	28.94	36.90	0.250	Slip	0.24100	65
4	20.00	24.00	28.84	0.188	Butt	0.24100	65

### Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
148.00	150.50	1	Decibel DB404-B	Town of Monroe
148.00	148.00	1	Pipe Mount	Town of Monroe
146.00	146.00	3	Argus LLPX310R	Sprint/Clearwire
146.00	146.00	1	Andrew VHLP2-11	Sprint/Clearwire
146.00	146.00	1	Andrew VHLP800-11-DW1	Sprint/Clearwire
146.00	146.00	3	U-RAS Flexible RRH	Sprint/Clearwire
146.00	146.00	1	12.5' Low Profile Platform	Sprint/Clearwire
146.00	146.00	3	RFS APXVTM14-C-120	Sprint/Clearwire
146.00	146.00	3	ALU TD-RRH8x20-25	Sprint/Clearwire
146.00	146.00	3	RFS APXVSP18-C-A20	Sprint/Clearwire
146.00	146.00	3	ALU 1900MHz RRH	Sprint/Clearwire
146.00	146.00	3	ALU 800MHz RRH	Sprint/Clearwire
146.00	146.00	3	800MHz RRH w/ filter	Sprint/Clearwire
146.00	146.00	4	RFS ACU-A20-N	Sprint/Clearwire
138.00	138.00	3	DMP65R-BU6DA	AT&T
138.00	138.00	3	4415 B30	AT&T
138.00	138.00	3	4449 B5/B12	AT&T
138.00	138.00	3	7770	AT&T
138.00	138.00	3	HPA-65R-BUJ-H6	AT&T
138.00	138.00	2	Raycap DC6-48-60-18-8F	AT&T
138.00	138.00	3	Commscope	AT&T
138.00	138.00	1	Low Profile Platform w/	AT&T
138.00	138.00	6	Powerwave LGP13519	AT&T
138.00	138.00	12	Powerwave 7020.00 RET	AT&T
138.00	138.00	3	Ericsson RRUS-32 B2s	AT&T
138.00	138.00	6	Powerwave LGP21901	AT&T
138.00	138.00	1	WCS-IMFQ-AMT	AT&T
120.00	120.00	3	Ericsson KRY 112 144/1	T-Mobile
120.00	120.00	1	Low Profile Platform	T-Mobile
120.00	120.00	3	4449 B71 + B85	T-Mobile
120.00	120.00	3	RRUS 4415 B25	T-Mobile
120.00	120.00	1	HRK12 (Handrail Kit)	T-Mobile
120.00	120.00	1	PRK-1245 (kicker kit)	T-Mobile
120.00	120.00	3	AIR32 KRD	T-Mobile
120.00	120.00	3	AIR6449 B41	T-Mobile
120.00	120.00	3	APXVAALL24_43-U-NA20	T-Mobile
120.00	120.00	3	SDX1926Q-43	T-Mobile
98.00	98.00	3	Quintel AS-005245 - Dual	Verizon
98.00	98.00	3	B2/B66A RRH-BR049	Verizon
98.00	98.00	1	12.5' Low Profile Platform	Verizon
98.00	98.00	3	B5/B13 RRH-BR04C	Verizon
98.00	98.00	2	RFS DB-C1-12C-24AB-OZ	Verizon
96.00	96.00	6	Quintel QS6656-5D	Verizon
96.00	96.00	4	Celwave APL866513-42TD	Verizon
96.00	96.00	2	Amphenol	Verizon



**Structure: CT13056-A**

<b>Type:</b> Custom	<b>Base Shape:</b> 18 Sided	6/22/2021
<b>Site Name:</b> Moosehill	<b>Taper:</b> 0.24100	
<b>Height:</b> 149.00 (ft)		
<b>Base Elev:</b> 1.00 (ft)		Page: 3



96.00	96.00	3	Samsung MT6407-77A	Verizon
64.50	64.50	1	Decibel 260B	Sprint
63.00	63.00	1	3 ft Standoff	Sprint

**Linear Appurtenances**

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	149.00	Outside	Safety Cable	
0.00	149.00	Outside	Step bolts (ladder)	
0.00	148.00	Inside	7/8" Coax	Town of Monroe
0.00	146.00	Outside	1 1/4" Coax	Sprint/Clearwire
0.00	146.00	Outside	1/2" Coax	Sprint/Clearwire
0.00	146.00	Outside	5/16" Coax	Sprint/Clearwire
0.00	138.00	Inside	1-1/4" Coax	AT&T
0.00	138.00	Inside	1/2" Fiber	AT&T
0.00	138.00	Inside	3/4" DC	AT&T
0.00	120.00	Inside	1 5/8" Coax	T-Mobile
0.00	120.00	Inside	1 5/8" Fiber	T-Mobile
0.00	98.00	Outside	1 5/8" Coax	Verizon
0.00	98.00	Outside	1 5/8" Hybrid	Verizon
0.00	63.00	Outside	1/2" Coax	Sprint

**Anchor Bolts**

Qty	Specifications	Grade (ksi)	Arrangement
16	2.25" 18J	75.0	Cluster

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
3.0000	64.0	60.0	Clipped

**Reactions**

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 94 mph Wind	3982.7	36.9	49.1
0.9D + 1.6W 94 mph Wind	3944.8	36.9	36.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1098.5	10.4	83.8
1.2D + 1.0E	240.7	2.0	49.1
0.9D + 1.0E	238.2	2.0	36.8
1.0D + 1.0W 60 mph Wind	1008.7	9.4	40.9

## Structure: CT13056-A - Coax Line Placement

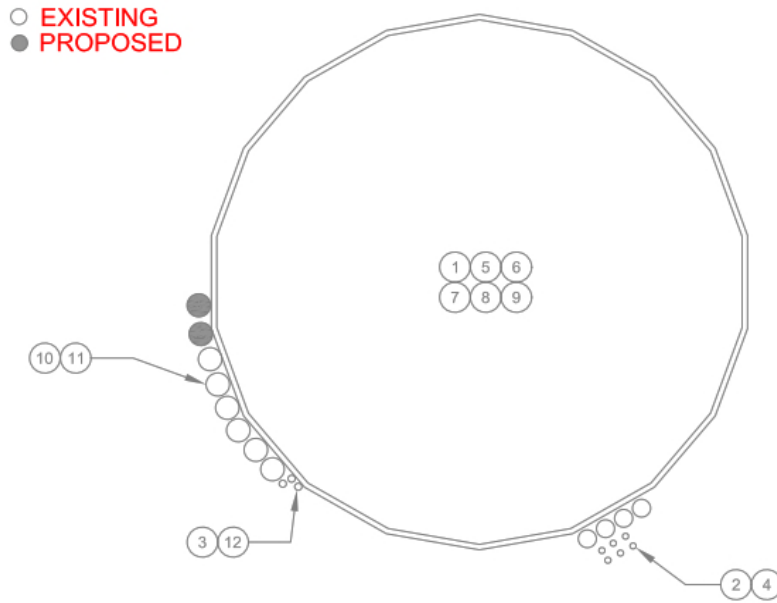
**Type:** Monopole  
**Site Name:** Moosehill  
**Height:** 149.00 (ft)

6/22/2021



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### COAX LAYOUT



CT13056-A					
#	CARRIER	SIZE	QTY.	ELEVATION	NOTES
1	Town Of Monroe	7/8"	1	148'	
2	Sprint	1-1/4"	4	146'	
3	Sprint	1/2"	2	146'	
4	Sprint	5/16"	6	146'	
5	AT&T	1-1/4"	12	138'	
6	AT&T	1/2"	2	138'	Fiber
7	AT&T	3/4"	4	138'	DC Power
8	T-Mobile	1-5/8"	10	120'	
9	T-Mobile	1-5/8"	3	120'	Fiber
10	Verizon	1-5/8"	6	98'	
11	Verizon	1-5/8"	2	98'	Hybrid [Proposed]
12	Sprint	1/2"	1	63'	

## Shaft Properties

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 5



Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.250	0.3750	65		0.00	11,240
2	18	53.500	0.3125	65	Slip	72.00	7,474
3	18	33.000	0.2500	65	Slip	57.00	2,911
4	18	20.000	0.1875	65	Flange	0.00	1,063
<b>Total Shaft Weight:</b>							<b>22,688</b>

Bottom

Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	58.91	0.00	69.67	30159.39	26.29	157.09	46.08	53.25	54.39	14354.0	20.25	122.8	0.241000
2	48.15	47.25	47.45	13718.28	25.76	154.08	35.25	100.75	34.66	5347.03	18.48	112.8	0.241000
3	36.90	96.00	29.08	4935.22	24.62	147.60	28.94	129.00	22.77	2369.16	19.01	115.7	0.241000
4	28.84	129.0	17.05	1768.04	25.71	153.80	24.00	149.00	14.18	1017.39	21.18	128.0	0.241000

## Load Summary

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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### Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	148.00	Decibel DB404-B	1	14.00	1.03	1.00	46.44	3.836	1.00	0.00	2.50
2	148.00	Pipe Mount	1	100.00	2.50	1.00	183.71	4.244	1.00	0.00	0.00
3	146.00	Argus LLPX310R	3	28.60	4.30	0.73	118.72	5.957	0.75	0.00	0.00
4	146.00	Andrew VHLP2-11	1	27.00	3.73	1.00	124.66	4.744	1.00	0.00	0.00
5	146.00	Andrew VHLP800-11-DW1	1	49.00	6.70	1.00	186.88	8.222	1.00	0.00	0.00
6	146.00	U-RAS Flexible RRH ODUs	3	50.70	1.93	0.78	109.37	2.847	0.78	0.00	0.00
7	146.00	12.5' Low Profile Platform	1	1632.00	36.05	1.00	3035.03	43.082	1.00	0.00	0.00
8	146.00	RFS APXVTM14-C-120	3	56.00	6.34	0.79	216.02	7.451	0.79	0.00	0.00
9	146.00	ALU TD-RRH8x20-25	3	70.00	4.05	0.69	180.19	4.861	0.70	0.00	0.00
10	146.00	RFS APXVSP18-C-A20	3	57.00	8.02	0.83	229.50	10.808	0.83	0.00	0.00
11	146.00	ALU 1900MHz RRH	3	44.00	3.80	0.67	152.94	5.187	0.67	0.00	0.00
12	146.00	ALU 800MHz RRH	3	59.50	2.64	0.67	137.35	3.795	0.67	0.00	0.00
13	146.00	800MHz RRH w/ filter	3	68.30	3.46	1.00	158.56	4.771	1.00	0.00	0.00
14	146.00	RFS ACU-A20-N	4	1.00	0.14	0.79	5.29	0.436	0.79	0.00	0.00
15	138.00	DMP65R-BU6DA	3	79.40	12.71	0.72	490.36	14.154	0.73	0.00	0.00
16	138.00	4415 B30	3	46.00	1.64	0.67	86.79	2.151	0.67	0.00	0.00
17	138.00	4449 B5/B12	3	71.00	1.97	0.67	123.98	2.513	0.67	0.00	0.00
18	138.00	7770	3	35.00	5.50	0.73	168.92	6.556	0.73	0.00	0.00
19	138.00	HPA-65R-BUU-H6	3	51.00	9.66	0.85	296.92	11.015	0.85	0.00	0.00
20	138.00	Raycap DC6-48-60-18-8F DC Surge	2	32.80	1.47	1.00	94.15	2.164	1.00	0.00	0.00
21	138.00	Commscope ABT-DRDM-ADBH Bias	3	1.60	0.05	0.98	4.82	0.241	0.98	0.00	0.00
22	138.00	Low Profile Platform w/ Handrails	1	1588.00	23.81	1.00	2473.62	35.027	1.00	0.00	0.00
23	138.00	Powerwave LGP13519 TMAs	6	5.30	0.34	1.00	14.73	0.791	1.00	0.00	0.00
24	138.00	Powerwave 7020.00 RET	12	2.20	0.40	0.67	12.36	0.880	0.67	0.00	0.00
25	138.00	Ericsson RRUS-32 B2s RRUs	3	60.00	2.74	0.67	147.18	3.463	0.67	0.00	0.00
26	138.00	Powerwave LGP21901 Diplexer	6	5.50	0.23	0.75	13.13	0.595	0.75	0.00	0.00
27	138.00	WCS-IMFQ-AMT	1	34.50	0.99	0.50	77.22	1.415	0.50	0.00	0.00
28	120.00	Ericsson KRY 112 144/1	3	11.00	0.41	0.67	21.55	0.875	0.67	0.00	0.00
29	120.00	Low Profile Platform	1	1632.00	36.10	1.00	3007.99	43.006	1.00	0.00	0.00
30	120.00	4449 B71 + B85	3	73.20	1.97	0.67	129.72	2.527	0.67	0.00	0.00
31	120.00	RRUS 4415 B25	3	46.00	1.64	0.67	86.23	2.144	0.67	0.00	0.00
32	120.00	HRK12 (Handrail Kit)	1	261.72	6.75	1.00	565.71	13.207	1.00	0.00	0.00
33	120.00	PRK-1245 (kicker kit)	1	464.91	9.50	1.00	782.56	19.236	1.00	0.00	0.00
34	120.00	AIR32 KRD 9011461-B66A-B2A	3	132.20	6.51	0.87	310.85	7.606	0.87	0.00	0.00
35	120.00	AIR6449 B41	3	103.00	5.65	0.71	237.20	6.580	0.71	0.00	0.00
36	120.00	APXVAALL24_43-U-NA20	3	128.00	20.24	0.70	535.94	22.098	0.70	0.00	0.00
37	120.00	SDX1926Q-43	3	4.30	0.52	0.67	15.38	1.040	0.67	0.00	0.00
38	98.00	Quintel AS-005245 - Dual Antenna	3	60.00	1.20	1.00	116.25	2.647	1.00	0.00	0.00
39	98.00	B2/B66A RRH-BR049	3	84.50	1.88	0.67	133.67	2.409	0.67	0.00	0.00
40	98.00	12.5' Low Profile Platform	1	1588.00	23.81	1.00	2444.07	33.505	1.00	0.00	0.00
41	98.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	84.50	1.88	0.67	133.67	2.409	0.67	0.00	0.00
42	98.00	RFS DB-C1-12C-24AB-OZ	2	32.00	4.06	1.00	141.29	4.848	1.00	0.00	0.00
43	96.00	Quintel QS6656-5D	6	92.50	8.13	0.92	292.98	9.331	0.92	0.00	0.00
44	96.00	Celwave APL866513-42TD	4	15.70	4.05	0.93	120.25	5.834	0.93	0.00	0.00
45	96.00	Amphenol LPA-80063-6CF-EDIN-2	2	27.00	9.76	0.95	277.33	12.395	0.95	0.00	0.00
46	96.00	Samsung MT6407-77A	3	87.10	4.70	0.70	194.50	5.564	0.71	0.00	0.00
47	64.50	Decibel 26OB	1	50.00	2.00	1.00	210.64	5.213	1.00	0.00	0.00
48	63.00	3 ft Standoff	1	40.00	2.63	1.00	113.73	8.111	1.00	0.00	0.00
<b>Totals:</b>			<b>135</b>	<b>13,153.43</b>			<b>30,463.04</b>				

## Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		

## Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	149.00	(1) Safety Cable	0.38	Outside
0.00	149.00	(1) Step bolts (ladder)	0.63	Outside
0.00	148.00	(1) 7/8" Coax	0.00	Inside
0.00	146.00	(4) 1 1/4" Coax	0.00	Outside
0.00	146.00	(2) 1/2" Coax	0.00	Outside
0.00	146.00	(6) 5/16" Coax	1.90	Outside
0.00	138.00	(12) 1-1/4" Coax	0.00	Inside
0.00	138.00	(2) 1/2" Fiber	0.00	Inside
0.00	138.00	(4) 3/4" DC	0.00	Inside
0.00	120.00	(10) 1 5/8" Coax	0.00	Inside
0.00	120.00	(3) 1 5/8" Fiber	0.00	Inside
0.00	98.00	(6) 1 5/8" Coax	0.00	Outside
0.00	98.00	(2) 1 5/8" Hybrid	0.00	Outside
0.00	63.00	(1) 1/2" Coax	1.00	Outside



## Shaft Section Properties

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Increment Length:** 5 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
0.00		0.3750	58.910	69.669	30159.4	26.29	157.09	70.5	1008.	0.0
5.00		0.3750	57.705	68.235	28334.9	25.72	153.88	71.1	967.1	1173.1
10.00		0.3750	56.500	66.800	26585.5	25.16	150.67	71.8	926.8	1148.7
15.00		0.3750	55.295	65.366	24909.6	24.59	147.45	72.5	887.3	1124.3
20.00		0.3750	54.090	63.932	23305.7	24.02	144.24	73.1	848.6	1099.9
25.00		0.3750	52.885	62.498	21772.2	23.46	141.03	73.8	810.9	1075.5
30.00		0.3750	51.680	61.064	20307.4	22.89	137.81	74.5	774.0	1051.1
35.00		0.3750	50.475	59.629	18909.9	22.32	134.60	75.1	737.9	1026.7
40.00		0.3750	49.270	58.195	17578.0	21.76	131.39	75.8	702.7	1002.3
45.00		0.3750	48.065	56.761	16310.1	21.19	128.17	76.5	668.4	977.9
47.25	Bot - Section 2	0.3750	47.523	56.116	15760.1	20.93	126.73	76.8	653.2	432.1
50.00		0.3750	46.860	55.327	15104.8	20.62	124.96	77.1	634.9	962.3
53.25	Top - Section 1	0.3125	46.704	46.013	12511.5	24.94	149.45	0.0	0.0	1119.9
55.00		0.3125	46.282	45.595	12173.4	24.70	148.10	72.3	518.1	272.8
60.00		0.3125	45.077	44.399	11240.9	24.02	144.25	73.1	491.2	765.6
63.00		0.3125	44.354	43.682	10705.0	23.62	141.93	73.6	475.4	449.6
64.50		0.3125	43.993	43.324	10443.6	23.41	140.78	73.9	467.6	222.0
65.00		0.3125	43.872	43.204	10357.4	23.34	140.39	73.9	465.0	73.6
70.00		0.3125	42.667	42.009	9521.4	22.66	136.54	74.7	439.5	724.9
75.00		0.3125	41.462	40.814	8731.6	21.98	132.68	75.5	414.8	704.6
80.00		0.3125	40.257	39.619	7986.8	21.30	128.82	76.3	390.8	684.2
85.00		0.3125	39.052	38.424	7285.6	20.62	124.97	77.1	367.5	663.9
90.00		0.3125	37.847	37.228	6626.7	19.94	121.11	77.9	344.9	643.6
95.00		0.3125	36.642	36.033	6008.7	19.26	117.26	78.7	323.0	623.2
96.00	Bot - Section 3	0.3125	36.401	35.794	5889.9	19.13	116.48	78.9	318.7	122.2
98.00		0.3125	35.919	35.316	5657.1	18.86	114.94	79.2	310.2	438.6
100.00		0.3125	35.437	34.838	5430.4	18.58	113.40	79.5	301.8	432.7
100.75	Top - Section 2	0.2500	35.755	28.172	4487.1	23.81	143.02	0.0	0.0	160.8
105.00		0.2500	34.731	27.360	4109.8	23.09	138.92	74.2	233.1	401.5
110.00		0.2500	33.526	26.404	3693.8	22.24	134.10	75.2	217.0	457.4
115.00		0.2500	32.321	25.447	3306.9	21.39	129.28	76.2	201.5	441.1
120.00		0.2500	31.116	24.491	2948.0	20.54	124.46	77.2	186.6	424.8
125.00		0.2500	29.911	23.535	2616.0	19.69	119.64	78.2	172.3	408.6
129.00	Top - Section 3	0.2500	28.947	22.770	2369.2	19.01	115.79	79.0	161.2	315.1
129.00	Bot - Section 4	0.1875	28.837	17.049	1768.0	25.34	154.38	71.2	120.8	
130.00		0.1875	28.596	16.906	1723.8	25.48	152.51	71.4	118.7	57.8
135.00		0.1875	27.391	16.189	1513.6	24.35	146.08	72.8	108.8	281.5
138.00		0.1875	26.668	15.759	1396.1	23.67	142.23	73.6	103.1	163.1
140.00		0.1875	26.186	15.472	1321.3	23.21	139.66	74.1	99.4	106.3
145.00		0.1875	24.981	14.755	1145.9	22.08	133.23	75.4	90.3	257.1
146.00		0.1875	24.740	14.611	1112.8	21.86	131.95	75.7	88.6	50.0
148.00		0.1875	24.258	14.324	1048.6	21.40	129.38	76.2	85.1	98.5
149.00		0.1875	24.017	14.181	1017.4	21.18	128.09	76.5	83.4	48.5

**22687.6**

## Wind Loading - Shaft

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		<b>Page:</b> 9

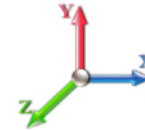


**Load Case:** 1.2D + 1.6W 94 mph Wind

**Iterations** 24

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)	
0.00		1.00	0.85	18.266	20.09	432.01	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0	
5.00		1.00	0.85	18.266	20.09	423.17	0.650	0.000	5.00	24.670	16.04	515.5	0.0	1407.8	
10.00		1.00	0.85	18.266	20.09	414.34	0.650	0.000	5.00	24.160	15.70	504.8	0.0	1378.5	
15.00		1.00	0.86	18.491	20.34	408.00	0.650	0.000	5.00	23.650	15.37	500.3	0.0	1349.2	
20.00		1.00	0.91	19.581	21.54	410.69	0.650	0.000	5.00	23.140	15.04	518.3	0.0	1319.9	
25.00		1.00	0.95	20.481	22.53	410.67	0.650	0.000	5.00	22.630	14.71	530.2	0.0	1290.6	
30.00		1.00	0.99	21.254	23.38	408.82	0.650	0.000	5.00	22.120	14.38	537.8	0.0	1261.4	
35.00		1.00	1.02	21.934	24.13	405.62	0.650	0.000	5.00	21.611	14.05	542.3	0.0	1232.1	
40.00		1.00	1.05	22.543	24.80	401.39	0.650	0.000	5.00	21.101	13.72	544.2	0.0	1202.8	
45.00		1.00	1.07	23.095	25.40	396.35	0.650	0.000	5.00	20.591	13.38	544.0	0.0	1173.5	
47.25	Bot - Section 2	1.00	1.09	23.329	25.66	393.85	0.650	0.000	2.25	9.100	5.91	242.9	0.0	518.5	
50.00		1.00	1.10	23.602	25.96	390.63	0.650	0.000	2.75	11.127	7.23	300.5	0.0	1154.8	
53.25	Top - Section 1	1.00	1.11	23.911	26.30	386.61	0.650	0.000	3.25	12.952	8.42	354.3	0.0	1343.8	
55.00		1.00	1.12	24.072	26.48	389.63	0.650	0.000	1.75	6.885	4.48	189.6	0.0	327.3	
60.00		1.00	1.14	24.509	26.96	382.92	0.650	0.000	5.00	19.327	12.56	541.9	0.0	918.7	
63.00	Appurtenance(s)	1.00	1.15	24.758	27.23	378.69	0.650	0.000	3.00	11.351	7.38	321.5	0.0	539.5	
64.50	Appurtenance(s)	1.00	1.16	24.879	27.37	376.52	0.650	0.000	1.50	5.607	3.64	159.6	0.0	266.5	
65.00		1.00	1.16	24.919	27.41	375.79	0.650	0.000	0.50	1.859	1.21	53.0	0.0	88.3	
70.00		1.00	1.18	25.305	27.84	368.29	0.650	0.000	5.00	18.307	11.90	530.0	0.0	869.9	
75.00		1.00	1.19	25.670	28.24	360.46	0.650	0.000	5.00	17.797	11.57	522.7	0.0	845.5	
80.00		1.00	1.21	26.017	28.62	352.34	0.650	0.000	5.00	17.288	11.24	514.5	0.0	821.1	
85.00		1.00	1.23	26.347	28.98	343.95	0.650	0.000	5.00	16.778	10.91	505.7	0.0	796.7	
90.00		1.00	1.24	26.662	29.33	335.33	0.650	0.000	5.00	16.268	10.57	496.2	0.0	772.3	
95.00		1.00	1.25	26.964	29.66	326.48	0.650	0.000	5.00	15.758	10.24	486.1	0.0	747.9	
96.00	Bot - Section 3	1.00	1.26	27.023	29.73	324.69	0.650	0.000	1.00	3.090	2.01	95.5	0.0	146.6	
98.00	Appurtenance(s)	1.00	1.26	27.140	29.85	321.08	0.650	0.000	2.00	6.204	4.03	192.6	0.0	526.3	
100.00		1.00	1.27	27.254	29.98	317.44	0.650	0.000	2.00	6.123	3.98	190.9	0.0	519.3	
100.75	Top - Section 2	1.00	1.27	27.297	30.03	316.07	0.650	0.000	0.75	2.275	1.48	71.0	0.0	192.9	
105.00		1.00	1.28	27.533	30.29	312.70	0.650	0.000	4.25	12.674	8.24	399.2	0.0	481.9	
110.00		1.00	1.29	27.801	30.58	303.32	0.650	0.000	5.00	14.440	9.39	459.2	0.0	548.8	
115.00		1.00	1.31	28.060	30.87	293.78	0.650	0.000	5.00	13.930	9.05	447.2	0.0	529.3	
120.00	Appurtenance(s)	1.00	1.32	28.311	31.14	284.08	0.650	0.000	5.00	13.420	8.72	434.6	0.0	509.8	
125.00		1.00	1.33	28.553	31.41	274.25	0.650	0.000	5.00	12.910	8.39	421.7	0.0	490.3	
129.00	Top - Section 3	1.00	1.34	28.742	31.62	266.28	0.650	0.000	4.00	9.961	6.47	327.5	0.0	378.2	
130.00		1.00	1.34	28.788	31.67	263.27	0.650	0.000	1.00	2.430	1.58	80.0	0.0	69.3	
135.00		1.00	1.35	29.016	31.92	253.17	0.655 *	0.000	5.00	11.844	7.75	395.9	0.0	337.8	
138.00	Appurtenance(s)	1.00	1.36	29.149	32.06	247.05	0.662 *	0.000	3.00	6.862	4.54	232.9	0.0	195.7	
140.00		1.00	1.36	29.237	32.16	242.95	0.666 *	0.000	2.00	4.472	2.98	153.4	0.0	127.5	
145.00		1.00	1.37	29.453	32.40	232.62	0.673 *	0.000	5.00	10.824	7.29	377.9	0.0	308.6	
146.00	Appurtenance(s)	1.00	1.37	29.495	32.44	230.55	0.680 *	0.000	1.00	2.104	1.43	74.2	0.0	60.0	
148.00	Appurtenance(s)	1.00	1.38	29.579	32.54	226.38	0.650	0.000	2.00	4.146	2.69	140.3	0.0	118.2	
149.00		1.00	1.38	29.621	32.58	224.28	0.650	0.000	1.00	2.042	1.33	69.2	0.0	58.2	
								<b>Totals:</b>	<b>149.00</b>			<b>14,519.3</b>			<b>27,225.1</b>

\* Cf Adjusted by L inearL oad RaE ffect

## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

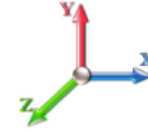


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**Load Case:** 1.2D + 1.6W 94 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	Decibel DB404-B	1	29.683	32.651	1.00	1.00	1.03	16.80	0.000	2.500	53.81	0.00	134.52
2	148.00	Pipe Mount	1	29.579	32.537	1.00	1.00	2.50	120.00	0.000	0.000	130.15	0.00	0.00
3	146.00	RFS APXVTM14-C-120	3	29.495	32.444	0.71	0.90	13.52	201.60	0.000	0.000	702.00	0.00	0.00
4	146.00	Argus LLPX310R	3	29.495	32.444	0.66	0.90	8.48	102.96	0.000	0.000	439.96	0.00	0.00
5	146.00	Andrew VHLP2-11	1	29.495	32.444	1.00	1.00	3.73	32.40	0.000	0.000	193.63	0.00	0.00
6	146.00	U-RAS Flexible RRH	3	29.495	32.444	0.70	0.90	4.06	182.52	0.000	0.000	211.00	0.00	0.00
7	146.00	12.5' Low Profile Platform	1	29.495	32.444	1.00	1.00	36.05	1958.40	0.000	0.000	1871.39	0.00	0.00
8	146.00	Andrew VHLP800-11-DW1	1	29.495	32.444	1.00	1.00	6.70	58.80	0.000	0.000	347.80	0.00	0.00
9	146.00	RFS APXVSP18-C-A20	3	29.495	32.444	0.75	0.90	17.97	205.20	0.000	0.000	932.99	0.00	0.00
10	146.00	ALU 1900MHz RRH	3	29.495	32.444	0.60	0.90	6.87	158.40	0.000	0.000	356.85	0.00	0.00
11	146.00	ALU 800MHz RRH	3	29.495	32.444	0.60	0.90	4.78	214.20	0.000	0.000	247.91	0.00	0.00
12	146.00	800MHz RRH w/ filter	3	29.495	32.444	0.90	0.90	9.34	245.88	0.000	0.000	484.95	0.00	0.00
13	146.00	RFS ACU-A20-N	4	29.495	32.444	0.71	0.90	0.40	4.80	0.000	0.000	20.67	0.00	0.00
14	146.00	ALU TD-RRH8x20-25	3	29.495	32.444	0.62	0.90	7.55	252.00	0.000	0.000	391.68	0.00	0.00
15	138.00	Raycap DC6-48-60-18-8F	2	29.149	32.064	1.00	1.00	2.94	78.72	0.000	0.000	150.83	0.00	0.00
16	138.00	Commscope	3	29.149	32.064	0.73	0.75	0.11	5.76	0.000	0.000	5.66	0.00	0.00
17	138.00	Low Profile Platform w/	1	29.149	32.064	1.00	1.00	23.81	1905.60	0.000	0.000	1221.53	0.00	0.00
18	138.00	HPA-65R-BUJ-H6	3	29.149	32.064	0.64	0.75	18.47	183.60	0.000	0.000	947.81	0.00	0.00
19	138.00	7770	3	29.149	32.064	0.55	0.75	9.03	126.00	0.000	0.000	463.46	0.00	0.00
20	138.00	Powerwave LGP21901	6	29.149	32.064	0.56	0.75	0.78	39.60	0.000	0.000	39.82	0.00	0.00
21	138.00	Powerwave LGP13519	6	29.149	32.064	0.75	0.75	1.53	38.16	0.000	0.000	78.49	0.00	0.00
22	138.00	Powerwave 7020.00 RET	12	29.149	32.064	0.50	0.75	2.41	31.68	0.000	0.000	123.74	0.00	0.00
23	138.00	Ericsson RRUS-32 B2s	3	29.149	32.064	0.50	0.75	4.13	216.00	0.000	0.000	211.91	0.00	0.00
24	138.00	WCS-IMFQ-AMT	1	29.149	32.064	0.38	0.75	0.37	41.40	0.000	0.000	19.05	0.00	0.00
25	138.00	4449 B5/B12	3	29.149	32.064	0.50	0.75	2.97	255.60	0.000	0.000	152.36	0.00	0.00
26	138.00	DMP65R-BU6DA	3	29.149	32.064	0.54	0.75	20.59	285.84	0.000	0.000	1056.34	0.00	0.00
27	138.00	4415 B30	3	29.149	32.064	0.50	0.75	2.47	165.60	0.000	0.000	126.84	0.00	0.00
28	120.00	HRK12 (Handrail Kit)	1	28.311	31.142	1.00	1.00	6.75	314.06	0.000	0.000	336.33	0.00	0.00
29	120.00	Low Profile Platform	1	28.311	31.142	1.00	1.00	36.10	1958.40	0.000	0.000	1798.75	0.00	0.00
30	120.00	4449 B71 + B85	3	28.311	31.142	0.54	0.80	3.17	263.52	0.000	0.000	157.84	0.00	0.00
31	120.00	RRUS 4415 B25	3	28.311	31.142	0.54	0.80	2.64	165.60	0.000	0.000	131.40	0.00	0.00
32	120.00	Ericsson KRY 112 144/1	3	28.311	31.142	0.50	0.75	0.62	39.60	0.000	0.000	30.80	0.00	0.00
33	120.00	PRK-1245 (kicker kit)	1	28.311	31.142	1.00	1.00	9.50	557.89	0.000	0.000	473.35	0.00	0.00
34	120.00	AIR32 KR D	3	28.311	31.142	0.70	0.80	13.59	475.92	0.000	0.000	677.29	0.00	0.00
35	120.00	AIR6449 B41	3	28.311	31.142	0.57	0.80	9.63	370.80	0.000	0.000	479.71	0.00	0.00
36	120.00	APXVAALL24_43-U-NA20	3	28.311	31.142	0.56	0.80	34.00	460.80	0.000	0.000	1694.27	0.00	0.00
37	120.00	SDX1926Q-43	3	28.311	31.142	0.54	0.80	0.84	15.48	0.000	0.000	41.66	0.00	0.00
38	98.00	Quintel AS-005245 - Dual	3	27.140	29.854	1.00	1.00	3.60	216.00	0.000	0.000	171.96	0.00	0.00
39	98.00	B2/B66A RRH-BR049	3	27.140	29.854	0.54	0.80	3.02	304.20	0.000	0.000	144.40	0.00	0.00
40	98.00	12.5' Low Profile Platform	1	27.140	29.854	1.00	1.00	23.81	1905.60	0.000	0.000	1137.30	0.00	0.00
41	98.00	B5/B13 RRH-BR04C	3	27.140	29.854	0.54	0.80	3.02	304.20	0.000	0.000	144.40	0.00	0.00
42	98.00	RFS DB-C1-12C-24AB-OZ	2	27.140	29.854	0.80	0.80	6.50	76.80	0.000	0.000	310.29	0.00	0.00
43	96.00	Samsung MT6407-77A	3	27.023	29.726	0.56	0.80	7.90	313.56	0.000	0.000	375.54	0.00	0.00
44	96.00	Amphenol	2	27.023	29.726	0.76	0.80	14.84	64.80	0.000	0.000	705.58	0.00	0.00
45	96.00	Celwave	4	27.023	29.726	0.74	0.80	12.05	75.36	0.000	0.000	573.24	0.00	0.00
46	96.00	Quintel QS6656-5D	6	27.023	29.726	0.74	0.80	35.90	666.00	0.000	0.000	1707.53	0.00	0.00
47	64.50	Decibel 26OB	1	24.879	27.367	1.00	1.00	2.00	60.00	0.000	0.000	87.57	0.00	0.00

## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	Page: 11
<b>Struct Class:</b> II		



48	63.00	3 ft Standoff	1	24.758	27.234	1.00	1.00	2.63	48.00	0.000	0.000	114.60	0.00	0.00
<b>Totals:</b>												<b>15,784.12</b>	<b>22,276.44</b>	

## Total Applied Force Summary

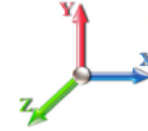
<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 12



**Load Case:** 1.2D + 1.6W 94 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		515.50	1653.41	0.00	0.00
10.00		504.84	1624.13	0.00	0.00
15.00		500.29	1594.85	0.00	0.00
20.00		518.35	1565.56	0.00	0.00
25.00		530.24	1536.28	0.00	0.00
30.00		537.85	1507.00	0.00	0.00
35.00		542.26	1477.72	0.00	0.00
40.00		544.16	1448.44	0.00	0.00
45.00		544.03	1419.16	0.00	0.00
47.25		242.85	629.07	0.00	0.00
50.00		300.46	1289.91	0.00	0.00
53.25		354.29	1503.50	0.00	0.00
55.00		189.60	413.28	0.00	0.00
60.00		541.90	1164.34	0.00	0.00
63.00	(1) attachments	436.11	734.89	0.00	0.00
64.50	(1) attachments	247.16	399.86	0.00	0.00
65.00		52.99	112.80	0.00	0.00
70.00		529.98	1114.57	0.00	0.00
75.00		522.65	1090.17	0.00	0.00
80.00		514.53	1065.77	0.00	0.00
85.00		505.70	1041.37	0.00	0.00
90.00		496.20	1016.97	0.00	0.00
95.00		486.09	992.57	0.00	0.00
96.00	(15) attachments	3457.43	1315.31	0.00	0.00
98.00	(12) attachments	2100.96	3430.97	0.00	0.00
100.00		190.89	596.89	0.00	0.00
100.75		71.04	222.02	0.00	0.00
105.00		399.21	646.80	0.00	0.00
110.00		459.24	742.88	0.00	0.00
115.00		447.16	723.36	0.00	0.00
120.00	(24) attachments	6256.05	5325.91	0.00	0.00
125.00		421.70	602.12	0.00	0.00
129.00		327.52	467.64	0.00	0.00
130.00		80.03	91.69	0.00	0.00
135.00		395.95	449.69	0.00	0.00
138.00	(49) attachments	4830.78	3636.35	0.00	0.00
140.00		153.38	140.18	0.00	0.00
145.00		377.86	340.20	0.00	0.00
146.00	(31) attachments	6275.07	3683.44	0.00	0.00
148.00	(2) attachments	324.25	259.35	0.00	134.52
149.00		69.21	59.77	0.00	0.00
	<b>Totals:</b>	<b>36,795.76</b>	<b>49,130.17</b>	<b>0.00</b>	<b>134.52</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.6W 94 mph Wind	<b>Iterations</b> 24
<b>Dead Load Factor</b> 1.20	
<b>Wind Load Factor</b> 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.066	0.000	18.266	0.00	1.64
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.066	0.000	18.266	0.00	6.24
5.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	15.84
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	1.92
5.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.066	0.000	18.266	0.00	2.88
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	37.44
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	13.20
5.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.066	0.000	18.266	0.00	0.96
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.067	0.000	18.266	0.00	1.64
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.067	0.000	18.266	0.00	6.24
10.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	15.84
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	1.92
10.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.067	0.000	18.266	0.00	2.88
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	37.44
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	13.20
10.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.067	0.000	18.266	0.00	0.96
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.069	0.000	18.491	0.00	1.64
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.069	0.000	18.491	0.00	6.24
15.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	15.84
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	1.92
15.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.069	0.000	18.491	0.00	2.88
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	37.44
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	13.20
15.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.069	0.000	18.491	0.00	0.96
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.070	0.000	19.581	0.00	1.64
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.070	0.000	19.581	0.00	6.24
20.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	15.84
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	1.92
20.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.070	0.000	19.581	0.00	2.88
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	37.44
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	13.20
20.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.070	0.000	19.581	0.00	0.96
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.072	0.000	20.481	0.00	1.64
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.072	0.000	20.481	0.00	6.24
25.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	15.84
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	1.92
25.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.072	0.000	20.481	0.00	2.88
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	37.44
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	13.20
25.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.072	0.000	20.481	0.00	0.96
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.074	0.000	21.254	0.00	1.64
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.074	0.000	21.254	0.00	6.24
30.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	15.84
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	1.92
30.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.074	0.000	21.254	0.00	2.88
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	37.44
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	13.20

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.2D + 1.6W 94 mph Wind

**Iterations** 24

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
30.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.074	0.000	21.254	0.00	0.96
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.075	0.000	21.934	0.00	1.64
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.075	0.000	21.934	0.00	6.24
35.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	15.84
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	1.92
35.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.075	0.000	21.934	0.00	2.88
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	37.44
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	13.20
35.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.075	0.000	21.934	0.00	0.96
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.077	0.000	22.543	0.00	1.64
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.077	0.000	22.543	0.00	6.24
40.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	15.84
40.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	1.92
40.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.077	0.000	22.543	0.00	2.88
40.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	37.44
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	13.20
40.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.077	0.000	22.543	0.00	0.96
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.079	0.000	23.095	0.00	1.64
45.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.079	0.000	23.095	0.00	6.24
45.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	15.84
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	1.92
45.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.079	0.000	23.095	0.00	2.88
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	37.44
45.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	13.20
45.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.079	0.000	23.095	0.00	0.96
47.25	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.081	0.000	23.329	0.00	0.74
47.25	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.12	0.00	0.081	0.000	23.329	0.00	2.81
47.25	1 1/4" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	7.13
47.25	1/2" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	0.86
47.25	5/16" Coax	Yes	2.25	0.000	1.90	0.36	0.00	0.081	0.000	23.329	0.00	1.30
47.25	1 5/8" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	16.85
47.25	1 5/8" Hybrid	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	5.94
47.25	1/2" Coax	Yes	2.25	0.000	1.00	0.19	0.00	0.081	0.000	23.329	0.00	0.43
50.00	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.082	0.000	23.602	0.00	0.90
50.00	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.082	0.000	23.602	0.00	3.43
50.00	1 1/4" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	8.71
50.00	1/2" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	1.06
50.00	5/16" Coax	Yes	2.75	0.000	1.90	0.44	0.00	0.082	0.000	23.602	0.00	1.58
50.00	1 5/8" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	20.59
50.00	1 5/8" Hybrid	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	7.26
50.00	1/2" Coax	Yes	2.75	0.000	1.00	0.23	0.00	0.082	0.000	23.602	0.00	0.53
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.083	0.000	23.911	0.00	1.06
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.083	0.000	23.911	0.00	4.06
53.25	1 1/4" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	10.30
53.25	1/2" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	1.25
53.25	5/16" Coax	Yes	3.25	0.000	1.90	0.51	0.00	0.083	0.000	23.911	0.00	1.87
53.25	1 5/8" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	24.34

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021	
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C		
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00		
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil		
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II	Page: 15



**Load Case:** 1.2D + 1.6W 94 mph Wind

**Iterations** 24

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
53.25	1 5/8" Hybrid	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	8.58
53.25	1/2" Coax	Yes	3.25	0.000	1.00	0.27	0.00	0.083	0.000	23.911	0.00	0.62
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.083	0.000	24.072	0.00	0.57
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.083	0.000	24.072	0.00	2.18
55.00	1 1/4" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	5.54
55.00	1/2" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	0.67
55.00	5/16" Coax	Yes	1.75	0.000	1.90	0.28	0.00	0.083	0.000	24.072	0.00	1.01
55.00	1 5/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	13.10
55.00	1 5/8" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	4.62
55.00	1/2" Coax	Yes	1.75	0.000	1.00	0.15	0.00	0.083	0.000	24.072	0.00	0.34
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.084	0.000	24.509	0.00	1.64
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.084	0.000	24.509	0.00	6.24
60.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	15.84
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	1.92
60.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.084	0.000	24.509	0.00	2.88
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	37.44
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	13.20
60.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.084	0.000	24.509	0.00	0.96
63.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.086	0.000	24.758	0.00	0.98
63.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.086	0.000	24.758	0.00	3.74
63.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	9.50
63.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	1.15
63.00	5/16" Coax	Yes	3.00	0.000	1.90	0.47	0.00	0.086	0.000	24.758	0.00	1.73
63.00	1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	22.46
63.00	1 5/8" Hybrid	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	7.92
63.00	1/2" Coax	Yes	3.00	0.000	1.00	0.25	0.00	0.086	0.000	24.758	0.00	0.58
64.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.065	0.000	24.879	0.00	0.49
64.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.065	0.000	24.879	0.00	1.87
64.50	1 1/4" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	4.75
64.50	1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	0.58
64.50	5/16" Coax	Yes	1.50	0.000	1.90	0.24	0.00	0.065	0.000	24.879	0.00	0.86
64.50	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	11.23
64.50	1 5/8" Hybrid	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	3.96
65.00	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.065	0.000	24.919	0.00	0.16
65.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.065	0.000	24.919	0.00	0.62
65.00	1 1/4" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	1.58
65.00	1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	0.19
65.00	5/16" Coax	Yes	0.50	0.000	1.90	0.08	0.00	0.065	0.000	24.919	0.00	0.29
65.00	1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	3.74
65.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	1.32
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.066	0.000	25.305	0.00	1.64
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.066	0.000	25.305	0.00	6.24
70.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	15.84
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	1.92
70.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.066	0.000	25.305	0.00	2.88
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	37.44
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	13.20



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



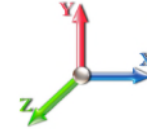
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**Load Case:** 1.2D + 1.6W 94 mph Wind

**Iterations** 24

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.068	0.000	25.670	0.00	1.64
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.068	0.000	25.670	0.00	6.24
75.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	15.84
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	1.92
75.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.068	0.000	25.670	0.00	2.88
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	37.44
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	13.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.070	0.000	26.017	0.00	1.64
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.070	0.000	26.017	0.00	6.24
80.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	15.84
80.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	1.92
80.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.070	0.000	26.017	0.00	2.88
80.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	37.44
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	13.20
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.072	0.000	26.347	0.00	1.64
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.072	0.000	26.347	0.00	6.24
85.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	15.84
85.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	1.92
85.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.072	0.000	26.347	0.00	2.88
85.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	37.44
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	13.20
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.075	0.000	26.662	0.00	1.64
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.075	0.000	26.662	0.00	6.24
90.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	15.84
90.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	1.92
90.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.075	0.000	26.662	0.00	2.88
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	37.44
90.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	13.20
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.077	0.000	26.964	0.00	1.64
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.077	0.000	26.964	0.00	6.24
95.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	15.84
95.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	1.92
95.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.077	0.000	26.964	0.00	2.88
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	37.44
95.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	13.20
96.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.078	0.000	27.023	0.00	0.33
96.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.078	0.000	27.023	0.00	1.25
96.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	3.17
96.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	0.38
96.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.078	0.000	27.023	0.00	0.58
96.00	1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	7.49
96.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	2.64
98.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.079	0.000	27.140	0.00	0.66
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.079	0.000	27.140	0.00	2.50
98.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	6.34
98.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	0.77
98.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.079	0.000	27.140	0.00	1.15

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.6W 94 mph Wind		<b>Iterations</b> 24
<b>Dead Load Factor</b> 1.20		
<b>Wind Load Factor</b> 1.60		

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	14.98
98.00	1 5/8" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	5.28
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.080	0.000	27.254	0.00	0.66
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.080	0.000	27.254	0.00	2.50
100.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	27.254	0.00	6.34
100.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	27.254	0.00	0.77
100.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.080	0.000	27.254	0.00	1.15
100.75	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.081	0.000	27.297	0.00	0.25
100.75	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.04	0.00	0.081	0.000	27.297	0.00	0.94
100.75	1 1/4" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	27.297	0.00	2.38
100.75	1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	27.297	0.00	0.29
100.75	5/16" Coax	Yes	0.75	0.000	1.90	0.12	0.00	0.081	0.000	27.297	0.00	0.43
105.00	Safety Cable	Yes	4.25	0.000	0.38	0.13	0.00	0.081	0.000	27.533	0.00	1.39
105.00	Step bolts (ladder)	Yes	4.25	0.000	0.63	0.22	0.00	0.081	0.000	27.533	0.00	5.30
105.00	1 1/4" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	27.533	0.00	13.46
105.00	1/2" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	27.533	0.00	1.63
105.00	5/16" Coax	Yes	4.25	0.000	1.90	0.67	0.00	0.081	0.000	27.533	0.00	2.45
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.084	0.000	27.801	0.00	1.64
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.084	0.000	27.801	0.00	6.24
110.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	27.801	0.00	15.84
110.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	27.801	0.00	1.92
110.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.084	0.000	27.801	0.00	2.88
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.087	0.000	28.060	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.087	0.000	28.060	0.00	6.24
115.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	28.060	0.00	15.84
115.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	28.060	0.00	1.92
115.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.087	0.000	28.060	0.00	2.88
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.090	0.000	28.311	0.00	1.64
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.090	0.000	28.311	0.00	6.24
120.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	28.311	0.00	15.84
120.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	28.311	0.00	1.92
120.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.090	0.000	28.311	0.00	2.88
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.094	0.000	28.553	0.00	1.64
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.094	0.000	28.553	0.00	6.24
125.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	28.553	0.00	15.84
125.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	28.553	0.00	1.92
125.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.094	0.000	28.553	0.00	2.88
129.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.097	0.000	28.742	0.00	1.31
129.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.097	0.000	28.742	0.00	4.99
129.00	1 1/4" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	28.742	0.00	12.67
129.00	1/2" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	28.742	0.00	1.54
129.00	5/16" Coax	Yes	4.00	0.000	1.90	0.63	0.00	0.097	0.000	28.742	0.00	2.30
130.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.100	0.000	28.788	0.00	0.33
130.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.100	0.000	28.788	0.00	1.25
130.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	28.788	0.00	3.17
130.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	28.788	0.00	0.38
130.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.100	0.000	28.788	0.00	0.58

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 18



**Load Case:** 1.2D + 1.6W 94 mph Wind

**Iterations** 24

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.102	1.007	29.016	0.00	1.64
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.102	1.007	29.016	0.00	6.24
135.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	29.016	0.00	15.84
135.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	29.016	0.00	1.92
135.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.102	1.007	29.016	0.00	2.88
138.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.106	1.018	29.149	0.00	0.98
138.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.106	1.018	29.149	0.00	3.74
138.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	29.149	0.00	9.50
138.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	29.149	0.00	1.15
138.00	5/16" Coax	Yes	3.00	0.000	1.90	0.47	0.00	0.106	1.018	29.149	0.00	1.73
140.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.108	1.025	29.237	0.00	0.66
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.108	1.025	29.237	0.00	2.50
140.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	29.237	0.00	6.34
140.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	29.237	0.00	0.77
140.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.108	1.025	29.237	0.00	1.15
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.112	1.036	29.453	0.00	1.64
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.112	1.036	29.453	0.00	6.24
145.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	29.453	0.00	15.84
145.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	29.453	0.00	1.92
145.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.112	1.036	29.453	0.00	2.88
146.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.115	1.046	29.495	0.00	0.33
146.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.115	1.046	29.495	0.00	1.25
146.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	29.495	0.00	3.17
146.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	29.495	0.00	0.38
146.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.115	1.046	29.495	0.00	0.58
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.041	0.000	29.579	0.00	0.66
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.041	0.000	29.579	0.00	2.50
149.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.041	0.000	29.621	0.00	0.33
149.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.041	0.000	29.621	0.00	1.25
<b>Totals:</b>											<b>0.0</b>	<b>1,842.1</b>

## Calculated Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.6W 94 mph Wind	<b>Iterations</b> 24
<b>Dead Load Factor</b> 1.20	
<b>Wind Load Factor</b> 1.60	

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-49.07	-36.88	0.00	-3982.6	0.00	3982.66	4419.23	2209.62	10644.5	5330.19	0.00	0.000	0.000	0.759
5.00	-47.30	-36.51	0.00	-3798.2	0.00	3798.28	4369.18	2184.59	10305.9	5160.65	0.10	-0.184	0.000	0.747
10.00	-45.56	-36.15	0.00	-3615.7	0.00	3615.73	4317.41	2158.71	9968.41	4991.62	0.39	-0.370	0.000	0.735
15.00	-43.85	-35.78	0.00	-3435.0	0.00	3435.00	4263.92	2131.96	9632.14	4823.23	0.88	-0.558	0.000	0.723
20.00	-42.17	-35.39	0.00	-3256.1	0.00	3256.10	4208.71	2104.36	9297.40	4655.61	1.57	-0.749	0.000	0.710
25.00	-40.53	-34.97	0.00	-3079.1	0.00	3079.18	4151.78	2075.89	8964.46	4488.89	2.46	-0.943	0.000	0.696
30.00	-38.91	-34.54	0.00	-2904.3	0.00	2904.33	4093.13	2046.56	8633.57	4323.20	3.55	-1.138	0.000	0.682
35.00	-37.33	-34.09	0.00	-2731.6	0.00	2731.65	4032.76	2016.38	8305.00	4158.67	4.85	-1.336	0.000	0.666
40.00	-35.78	-33.64	0.00	-2561.1	0.00	2561.18	3970.67	1985.33	7978.99	3995.42	6.35	-1.535	0.000	0.650
45.00	-34.29	-33.14	0.00	-2392.9	0.00	2392.99	3906.85	1953.43	7655.81	3833.59	8.07	-1.735	0.000	0.633
47.25	-33.61	-32.94	0.00	-2318.4	0.00	2318.43	3877.58	1938.79	7511.37	3761.27	8.91	-1.828	0.000	0.625
50.00	-32.26	-32.67	0.00	-2227.8	0.00	2227.84	3841.32	1920.66	7335.71	3673.31	10.00	-1.940	0.000	0.615
53.25	-30.71	-32.31	0.00	-2121.6	0.00	2121.68	2984.31	1492.16	5695.15	2851.81	11.36	-2.073	0.000	0.755
55.00	-30.22	-32.19	0.00	-2065.1	0.00	2065.13	2968.67	1484.33	5613.44	2810.89	12.14	-2.146	0.000	0.745
60.00	-28.97	-31.70	0.00	-1904.1	0.00	1904.18	2922.80	1461.40	5380.87	2694.44	14.51	-2.378	0.000	0.717
63.00	-28.20	-31.28	0.00	-1809.0	0.00	1809.09	2894.46	1447.23	5242.03	2624.91	16.05	-2.519	0.000	0.699
64.50	-27.79	-31.04	0.00	-1762.1	0.00	1762.17	2880.06	1440.03	5172.83	2590.26	16.85	-2.590	0.000	0.690
65.00	-27.61	-31.04	0.00	-1746.6	0.00	1746.65	2875.22	1437.61	5149.80	2578.73	17.13	-2.614	0.000	0.687
70.00	-26.40	-30.57	0.00	-1591.4	0.00	1591.43	2825.92	1412.96	4920.48	2463.90	19.99	-2.843	0.000	0.656
75.00	-25.22	-30.09	0.00	-1438.6	0.00	1438.60	2774.89	1387.45	4693.17	2350.07	23.09	-3.070	0.000	0.622
80.00	-24.07	-29.61	0.00	-1288.1	0.00	1288.17	2722.15	1361.08	4468.13	2237.39	26.42	-3.292	0.000	0.585
85.00	-22.95	-29.13	0.00	-1140.1	0.00	1140.13	2667.69	1333.84	4245.61	2125.96	29.99	-3.508	0.000	0.545
90.00	-21.87	-28.64	0.00	-994.51	0.00	994.51	2611.50	1305.75	4025.88	2015.93	33.77	-3.716	0.000	0.502
95.00	-20.85	-28.14	0.00	-851.29	0.00	851.29	2553.60	1276.80	3809.20	1907.43	37.77	-3.915	0.000	0.455
96.00	-19.75	-24.62	0.00	-823.15	0.00	823.15	2541.81	1270.90	3766.25	1885.92	38.59	-3.954	0.000	0.445
98.00	-16.45	-22.30	0.00	-773.92	0.00	773.92	2518.03	1259.01	3680.75	1843.11	40.27	-4.031	0.000	0.427
100.00	-15.84	-22.08	0.00	-729.31	0.00	729.31	2493.97	1246.99	3595.81	1800.58	41.97	-4.107	0.000	0.412
100.75	-15.59	-22.02	0.00	-712.75	0.00	712.75	1861.03	930.51	2717.30	1360.67	42.62	-4.135	0.000	0.533
105.00	-14.91	-21.62	0.00	-619.16	0.00	619.16	1828.27	914.13	2591.91	1297.88	46.37	-4.286	0.000	0.486
110.00	-14.14	-21.15	0.00	-511.04	0.00	511.04	1788.13	894.06	2445.78	1224.71	50.96	-4.481	0.000	0.426
115.00	-13.39	-20.69	0.00	-405.28	0.00	405.28	1746.27	873.13	2301.39	1152.40	55.75	-4.658	0.000	0.360
120.00	-8.57	-14.04	0.00	-301.83	0.00	301.83	1702.69	851.34	2158.99	1081.10	60.70	-4.810	0.000	0.284
125.00	-7.98	-13.58	0.00	-231.66	0.00	231.66	1657.39	828.70	2018.85	1010.92	65.81	-4.939	0.000	0.234
129.00	-7.53	-13.22	0.00	-177.34	0.00	177.34	1619.91	809.96	1908.53	955.68	69.98	-5.028	0.000	0.190
129.00	-7.53	-13.22	0.00	-177.34	0.00	177.34	1091.97	545.98	1287.15	644.53	69.98	-5.028	0.000	0.283
130.00	-7.43	-13.14	0.00	-164.12	0.00	164.12	1086.84	543.42	1270.26	636.07	71.03	-5.048	0.000	0.265
135.00	-7.00	-12.71	0.00	-98.42	0.00	98.42	1060.16	530.08	1186.17	593.97	76.38	-5.156	0.000	0.173
138.00	-3.81	-7.58	0.00	-60.28	0.00	60.28	1043.32	521.66	1136.10	568.89	79.63	-5.201	0.000	0.110
140.00	-3.68	-7.41	0.00	-45.13	0.00	45.13	1031.75	515.88	1102.91	552.27	81.81	-5.223	0.000	0.085
145.00	-3.38	-7.01	0.00	-8.06	0.00	8.06	1001.63	500.82	1020.73	511.12	87.29	-5.251	0.000	0.019
146.00	-0.28	-0.42	0.00	-1.05	0.00	1.05	995.40	497.70	1004.44	502.97	88.39	-5.252	0.000	0.002
148.00	-0.05	-0.07	0.00	-0.07	0.00	0.07	982.73	491.37	972.05	486.75	90.59	-5.253	0.000	0.000
149.00	0.00	-0.07	0.00	0.00	0.00	0.00	976.29	488.15	955.94	478.68	91.69	-5.253	0.000	0.000

## Wind Loading - Shaft

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 20

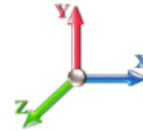


**Load Case:** 0.9D + 1.6W 94 mph Wind

**Iterations** 23

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	18.266	20.09	432.01	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	18.266	20.09	423.17	0.650	0.000	5.00	24.670	16.04	515.5	0.0	1055.8
10.00		1.00	0.85	18.266	20.09	414.34	0.650	0.000	5.00	24.160	15.70	504.8	0.0	1033.9
15.00		1.00	0.86	18.491	20.34	408.00	0.650	0.000	5.00	23.650	15.37	500.3	0.0	1011.9
20.00		1.00	0.91	19.581	21.54	410.69	0.650	0.000	5.00	23.140	15.04	518.3	0.0	989.9
25.00		1.00	0.95	20.481	22.53	410.67	0.650	0.000	5.00	22.630	14.71	530.2	0.0	968.0
30.00		1.00	0.99	21.254	23.38	408.82	0.650	0.000	5.00	22.120	14.38	537.8	0.0	946.0
35.00		1.00	1.02	21.934	24.13	405.62	0.650	0.000	5.00	21.611	14.05	542.3	0.0	924.1
40.00		1.00	1.05	22.543	24.80	401.39	0.650	0.000	5.00	21.101	13.72	544.2	0.0	902.1
45.00		1.00	1.07	23.095	25.40	396.35	0.650	0.000	5.00	20.591	13.38	544.0	0.0	880.1
47.25	Bot - Section 2	1.00	1.09	23.329	25.66	393.85	0.650	0.000	2.25	9.100	5.91	242.9	0.0	388.9
50.00		1.00	1.10	23.602	25.96	390.63	0.650	0.000	2.75	11.127	7.23	300.5	0.0	866.1
53.25	Top - Section 1	1.00	1.11	23.911	26.30	386.61	0.650	0.000	3.25	12.952	8.42	354.3	0.0	1007.9
55.00		1.00	1.12	24.072	26.48	389.63	0.650	0.000	1.75	6.885	4.48	189.6	0.0	245.5
60.00		1.00	1.14	24.509	26.96	382.92	0.650	0.000	5.00	19.327	12.56	541.9	0.0	689.0
63.00	Appurtenance(s)	1.00	1.15	24.758	27.23	378.69	0.650	0.000	3.00	11.351	7.38	321.5	0.0	404.6
64.50	Appurtenance(s)	1.00	1.16	24.879	27.37	376.52	0.650	0.000	1.50	5.607	3.64	159.6	0.0	199.8
65.00		1.00	1.16	24.919	27.41	375.79	0.650	0.000	0.50	1.859	1.21	53.0	0.0	66.2
70.00		1.00	1.18	25.305	27.84	368.29	0.650	0.000	5.00	18.307	11.90	530.0	0.0	652.4
75.00		1.00	1.19	25.670	28.24	360.46	0.650	0.000	5.00	17.797	11.57	522.7	0.0	634.1
80.00		1.00	1.21	26.017	28.62	352.34	0.650	0.000	5.00	17.288	11.24	514.5	0.0	615.8
85.00		1.00	1.23	26.347	28.98	343.95	0.650	0.000	5.00	16.778	10.91	505.7	0.0	597.5
90.00		1.00	1.24	26.662	29.33	335.33	0.650	0.000	5.00	16.268	10.57	496.2	0.0	579.2
95.00		1.00	1.25	26.964	29.66	326.48	0.650	0.000	5.00	15.758	10.24	486.1	0.0	560.9
96.00	Bot - Section 3	1.00	1.26	27.023	29.73	324.69	0.650	0.000	1.00	3.090	2.01	95.5	0.0	110.0
98.00	Appurtenance(s)	1.00	1.26	27.140	29.85	321.08	0.650	0.000	2.00	6.204	4.03	192.6	0.0	394.7
100.00		1.00	1.27	27.254	29.98	317.44	0.650	0.000	2.00	6.123	3.98	190.9	0.0	389.5
100.75	Top - Section 2	1.00	1.27	27.297	30.03	316.07	0.650	0.000	0.75	2.275	1.48	71.0	0.0	144.7
105.00		1.00	1.28	27.533	30.29	312.70	0.650	0.000	4.25	12.674	8.24	399.2	0.0	361.4
110.00		1.00	1.29	27.801	30.58	303.32	0.650	0.000	5.00	14.440	9.39	459.2	0.0	411.6
115.00		1.00	1.31	28.060	30.87	293.78	0.650	0.000	5.00	13.930	9.05	447.2	0.0	397.0
120.00	Appurtenance(s)	1.00	1.32	28.311	31.14	284.08	0.650	0.000	5.00	13.420	8.72	434.6	0.0	382.3
125.00		1.00	1.33	28.553	31.41	274.25	0.650	0.000	5.00	12.910	8.39	421.7	0.0	367.7
129.00	Top - Section 3	1.00	1.34	28.742	31.62	266.28	0.650	0.000	4.00	9.961	6.47	327.5	0.0	283.6
130.00		1.00	1.34	28.788	31.67	263.27	0.650	0.000	1.00	2.430	1.58	80.0	0.0	52.0
135.00		1.00	1.35	29.016	31.92	253.17	0.655 *	0.000	5.00	11.844	7.75	395.9	0.0	253.4
138.00	Appurtenance(s)	1.00	1.36	29.149	32.06	247.05	0.662 *	0.000	3.00	6.862	4.54	232.9	0.0	146.8
140.00		1.00	1.36	29.237	32.16	242.95	0.666 *	0.000	2.00	4.472	2.98	153.4	0.0	95.6
145.00		1.00	1.37	29.453	32.40	232.62	0.673 *	0.000	5.00	10.824	7.29	377.9	0.0	231.4
146.00	Appurtenance(s)	1.00	1.37	29.495	32.44	230.55	0.680 *	0.000	1.00	2.104	1.43	74.2	0.0	45.0
148.00	Appurtenance(s)	1.00	1.38	29.579	32.54	226.38	0.650	0.000	2.00	4.146	2.69	140.3	0.0	88.6
149.00		1.00	1.38	29.621	32.58	224.28	0.650	0.000	1.00	2.042	1.33	69.2	0.0	43.6
<b>Totals:</b>									<b>149.00</b>			<b>14,519.3</b>		<b>20,418.8</b>

\* Cf Adjusted by L inearL oad RaE ffect

## Discrete Appurtenance Forces

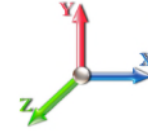
Structure: CT13056-A	Code: EIA/TIA-222-G	6/22/2021
Site Name: Moosehill	Exposure: C	
Height: 149.00 (ft)	Crest Height: 0.00	
Base Elev: 1.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II
		Page: 21



Load Case: 0.9D + 1.6W 94 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.60



Iterations 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	Decibel DB404-B	1	29.683	32.651	1.00	1.00	1.03	12.60	0.000	2.500	53.81	0.00	134.52
2	148.00	Pipe Mount	1	29.579	32.537	1.00	1.00	2.50	90.00	0.000	0.000	130.15	0.00	0.00
3	146.00	RFS APXVTM14-C-120	3	29.495	32.444	0.71	0.90	13.52	151.20	0.000	0.000	702.00	0.00	0.00
4	146.00	Argus LLPX310R	3	29.495	32.444	0.66	0.90	8.48	77.22	0.000	0.000	439.96	0.00	0.00
5	146.00	Andrew VHLP2-11	1	29.495	32.444	1.00	1.00	3.73	24.30	0.000	0.000	193.63	0.00	0.00
6	146.00	U-RAS Flexible RRH	3	29.495	32.444	0.70	0.90	4.06	136.89	0.000	0.000	211.00	0.00	0.00
7	146.00	12.5' Low Profile Platform	1	29.495	32.444	1.00	1.00	36.05	1468.80	0.000	0.000	1871.39	0.00	0.00
8	146.00	Andrew VHLP800-11-DW1	1	29.495	32.444	1.00	1.00	6.70	44.10	0.000	0.000	347.80	0.00	0.00
9	146.00	RFS APXVSP18-C-A20	3	29.495	32.444	0.75	0.90	17.97	153.90	0.000	0.000	932.99	0.00	0.00
10	146.00	ALU 1900MHz RRH	3	29.495	32.444	0.60	0.90	6.87	118.80	0.000	0.000	356.85	0.00	0.00
11	146.00	ALU 800MHz RRH	3	29.495	32.444	0.60	0.90	4.78	160.65	0.000	0.000	247.91	0.00	0.00
12	146.00	800MHz RRH w/ filter	3	29.495	32.444	0.90	0.90	9.34	184.41	0.000	0.000	484.95	0.00	0.00
13	146.00	RFS ACU-A20-N	4	29.495	32.444	0.71	0.90	0.40	3.60	0.000	0.000	20.67	0.00	0.00
14	146.00	ALU TD-RRH8x20-25	3	29.495	32.444	0.62	0.90	7.55	189.00	0.000	0.000	391.68	0.00	0.00
15	138.00	Raycap DC6-48-60-18-8F	2	29.149	32.064	1.00	1.00	2.94	59.04	0.000	0.000	150.83	0.00	0.00
16	138.00	Commscope	3	29.149	32.064	0.73	0.75	0.11	4.32	0.000	0.000	5.66	0.00	0.00
17	138.00	Low Profile Platform w/	1	29.149	32.064	1.00	1.00	23.81	1429.20	0.000	0.000	1221.53	0.00	0.00
18	138.00	HPA-65R-BUJ-H6	3	29.149	32.064	0.64	0.75	18.47	137.70	0.000	0.000	947.81	0.00	0.00
19	138.00	7770	3	29.149	32.064	0.55	0.75	9.03	94.50	0.000	0.000	463.46	0.00	0.00
20	138.00	Powerwave LGP21901	6	29.149	32.064	0.56	0.75	0.78	29.70	0.000	0.000	39.82	0.00	0.00
21	138.00	Powerwave LGP13519	6	29.149	32.064	0.75	0.75	1.53	28.62	0.000	0.000	78.49	0.00	0.00
22	138.00	Powerwave 7020.00 RET	12	29.149	32.064	0.50	0.75	2.41	23.76	0.000	0.000	123.74	0.00	0.00
23	138.00	Ericsson RRUS-32 B2s	3	29.149	32.064	0.50	0.75	4.13	162.00	0.000	0.000	211.91	0.00	0.00
24	138.00	WCS-IMFQ-AMT	1	29.149	32.064	0.38	0.75	0.37	31.05	0.000	0.000	19.05	0.00	0.00
25	138.00	4449 B5/B12	3	29.149	32.064	0.50	0.75	2.97	191.70	0.000	0.000	152.36	0.00	0.00
26	138.00	DMP65R-BU6DA	3	29.149	32.064	0.54	0.75	20.59	214.38	0.000	0.000	1056.34	0.00	0.00
27	138.00	4415 B30	3	29.149	32.064	0.50	0.75	2.47	124.20	0.000	0.000	126.84	0.00	0.00
28	120.00	HRK12 (Handrail Kit)	1	28.311	31.142	1.00	1.00	6.75	235.55	0.000	0.000	336.33	0.00	0.00
29	120.00	Low Profile Platform	1	28.311	31.142	1.00	1.00	36.10	1468.80	0.000	0.000	1798.75	0.00	0.00
30	120.00	4449 B71 + B85	3	28.311	31.142	0.54	0.80	3.17	197.64	0.000	0.000	157.84	0.00	0.00
31	120.00	RRUS 4415 B25	3	28.311	31.142	0.54	0.80	2.64	124.20	0.000	0.000	131.40	0.00	0.00
32	120.00	Ericsson KRY 112 144/1	3	28.311	31.142	0.50	0.75	0.62	29.70	0.000	0.000	30.80	0.00	0.00
33	120.00	PRK-1245 (kicker kit)	1	28.311	31.142	1.00	1.00	9.50	418.42	0.000	0.000	473.35	0.00	0.00
34	120.00	AIR32 KR D	3	28.311	31.142	0.70	0.80	13.59	356.94	0.000	0.000	677.29	0.00	0.00
35	120.00	AIR6449 B41	3	28.311	31.142	0.57	0.80	9.63	278.10	0.000	0.000	479.71	0.00	0.00
36	120.00	APXVAALL24_43-U-NA20	3	28.311	31.142	0.56	0.80	34.00	345.60	0.000	0.000	1694.27	0.00	0.00
37	120.00	SDX1926Q-43	3	28.311	31.142	0.54	0.80	0.84	11.61	0.000	0.000	41.66	0.00	0.00
38	98.00	Quintel AS-005245 - Dual	3	27.140	29.854	1.00	1.00	3.60	162.00	0.000	0.000	171.96	0.00	0.00
39	98.00	B2/B66A RRH-BR049	3	27.140	29.854	0.54	0.80	3.02	228.15	0.000	0.000	144.40	0.00	0.00
40	98.00	12.5' Low Profile Platform	1	27.140	29.854	1.00	1.00	23.81	1429.20	0.000	0.000	1137.30	0.00	0.00
41	98.00	B5/B13 RRH-BR04C	3	27.140	29.854	0.54	0.80	3.02	228.15	0.000	0.000	144.40	0.00	0.00
42	98.00	RFS DB-C1-12C-24AB-OZ	2	27.140	29.854	0.80	0.80	6.50	57.60	0.000	0.000	310.29	0.00	0.00
43	96.00	Samsung MT6407-77A	3	27.023	29.726	0.56	0.80	7.90	235.17	0.000	0.000	375.54	0.00	0.00
44	96.00	Amphenol	2	27.023	29.726	0.76	0.80	14.84	48.60	0.000	0.000	705.58	0.00	0.00
45	96.00	Celwave	4	27.023	29.726	0.74	0.80	12.05	56.52	0.000	0.000	573.24	0.00	0.00
46	96.00	Quintel QS6656-5D	6	27.023	29.726	0.74	0.80	35.90	499.50	0.000	0.000	1707.53	0.00	0.00
47	64.50	Decibel 26OB	1	24.879	27.367	1.00	1.00	2.00	45.00	0.000	0.000	87.57	0.00	0.00

## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	Page: 22
<b>Struct Class:</b> II		



48	63.00	3 ft Standoff	1	24.758	27.234	1.00	1.00	2.63	36.00	0.000	0.000	114.60	0.00	0.00
												<b>Totals:</b>	<b>11,838.09</b>	<b>22,276.44</b>

## Total Applied Force Summary

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 23



**Load Case:** 0.9D + 1.6W 94 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



**Iterations** 23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		515.50	1240.06	0.00	0.00
10.00		504.84	1218.10	0.00	0.00
15.00		500.29	1196.13	0.00	0.00
20.00		518.35	1174.17	0.00	0.00
25.00		530.24	1152.21	0.00	0.00
30.00		537.85	1130.25	0.00	0.00
35.00		542.26	1108.29	0.00	0.00
40.00		544.16	1086.33	0.00	0.00
45.00		544.03	1064.37	0.00	0.00
47.25		242.85	471.80	0.00	0.00
50.00		300.46	967.43	0.00	0.00
53.25		354.29	1127.63	0.00	0.00
55.00		189.60	309.96	0.00	0.00
60.00		541.90	873.25	0.00	0.00
63.00	(1) attachments	436.11	551.17	0.00	0.00
64.50	(1) attachments	247.16	299.90	0.00	0.00
65.00		52.99	84.60	0.00	0.00
70.00		529.98	835.93	0.00	0.00
75.00		522.65	817.63	0.00	0.00
80.00		514.53	799.33	0.00	0.00
85.00		505.70	781.03	0.00	0.00
90.00		496.20	762.73	0.00	0.00
95.00		486.09	744.42	0.00	0.00
96.00	(15) attachments	3457.43	986.48	0.00	0.00
98.00	(12) attachments	2100.96	2573.23	0.00	0.00
100.00		190.89	447.67	0.00	0.00
100.75		71.04	166.52	0.00	0.00
105.00		399.21	485.10	0.00	0.00
110.00		459.24	557.16	0.00	0.00
115.00		447.16	542.52	0.00	0.00
120.00	(24) attachments	6256.05	3994.43	0.00	0.00
125.00		421.70	451.59	0.00	0.00
129.00		327.52	350.73	0.00	0.00
130.00		80.03	68.77	0.00	0.00
135.00		395.95	337.27	0.00	0.00
138.00	(49) attachments	4830.78	2727.26	0.00	0.00
140.00		153.38	105.13	0.00	0.00
145.00		377.86	255.15	0.00	0.00
146.00	(31) attachments	6275.07	2762.58	0.00	0.00
148.00	(2) attachments	324.25	194.51	0.00	134.52
149.00		69.21	44.83	0.00	0.00
	<b>Totals:</b>	<b>36,795.76</b>	<b>36,847.63</b>	<b>0.00</b>	<b>134.52</b>



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 0.9D + 1.6W 94 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 0.90	
<b>Wind Load Factor</b> 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.066	0.000	18.266	0.00	1.23
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.066	0.000	18.266	0.00	4.68
5.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	11.88
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	1.44
5.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.066	0.000	18.266	0.00	2.16
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	28.08
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	18.266	0.00	9.90
5.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.066	0.000	18.266	0.00	0.72
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.067	0.000	18.266	0.00	1.23
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.067	0.000	18.266	0.00	4.68
10.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	11.88
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	1.44
10.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.067	0.000	18.266	0.00	2.16
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	28.08
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	18.266	0.00	9.90
10.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.067	0.000	18.266	0.00	0.72
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.069	0.000	18.491	0.00	1.23
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.069	0.000	18.491	0.00	4.68
15.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	11.88
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	1.44
15.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.069	0.000	18.491	0.00	2.16
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	28.08
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	18.491	0.00	9.90
15.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.069	0.000	18.491	0.00	0.72
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.070	0.000	19.581	0.00	1.23
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.070	0.000	19.581	0.00	4.68
20.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	11.88
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	1.44
20.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.070	0.000	19.581	0.00	2.16
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	28.08
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	19.581	0.00	9.90
20.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.070	0.000	19.581	0.00	0.72
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.072	0.000	20.481	0.00	1.23
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.072	0.000	20.481	0.00	4.68
25.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	11.88
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	1.44
25.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.072	0.000	20.481	0.00	2.16
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	28.08
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	20.481	0.00	9.90
25.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.072	0.000	20.481	0.00	0.72
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.074	0.000	21.254	0.00	1.23
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.074	0.000	21.254	0.00	4.68
30.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	11.88
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	1.44
30.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.074	0.000	21.254	0.00	2.16
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	28.08
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	21.254	0.00	9.90

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 0.9D + 1.6W 94 mph Wind

**Iterations** 23

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
30.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.074	0.000	21.254	0.00	0.72
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.075	0.000	21.934	0.00	1.23
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.075	0.000	21.934	0.00	4.68
35.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	11.88
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	1.44
35.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.075	0.000	21.934	0.00	2.16
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	28.08
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	21.934	0.00	9.90
35.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.075	0.000	21.934	0.00	0.72
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.077	0.000	22.543	0.00	1.23
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.077	0.000	22.543	0.00	4.68
40.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	11.88
40.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	1.44
40.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.077	0.000	22.543	0.00	2.16
40.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	28.08
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	22.543	0.00	9.90
40.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.077	0.000	22.543	0.00	0.72
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.079	0.000	23.095	0.00	1.23
45.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.079	0.000	23.095	0.00	4.68
45.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	11.88
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	1.44
45.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.079	0.000	23.095	0.00	2.16
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	28.08
45.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	23.095	0.00	9.90
45.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.079	0.000	23.095	0.00	0.72
47.25	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.081	0.000	23.329	0.00	0.55
47.25	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.12	0.00	0.081	0.000	23.329	0.00	2.11
47.25	1 1/4" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	5.35
47.25	1/2" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	0.65
47.25	5/16" Coax	Yes	2.25	0.000	1.90	0.36	0.00	0.081	0.000	23.329	0.00	0.97
47.25	1 5/8" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	12.64
47.25	1 5/8" Hybrid	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	23.329	0.00	4.46
47.25	1/2" Coax	Yes	2.25	0.000	1.00	0.19	0.00	0.081	0.000	23.329	0.00	0.32
50.00	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.082	0.000	23.602	0.00	0.68
50.00	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.082	0.000	23.602	0.00	2.57
50.00	1 1/4" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	6.53
50.00	1/2" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	0.79
50.00	5/16" Coax	Yes	2.75	0.000	1.90	0.44	0.00	0.082	0.000	23.602	0.00	1.19
50.00	1 5/8" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	15.44
50.00	1 5/8" Hybrid	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	23.602	0.00	5.45
50.00	1/2" Coax	Yes	2.75	0.000	1.00	0.23	0.00	0.082	0.000	23.602	0.00	0.40
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.083	0.000	23.911	0.00	0.80
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.083	0.000	23.911	0.00	3.04
53.25	1 1/4" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	7.72
53.25	1/2" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	0.94
53.25	5/16" Coax	Yes	3.25	0.000	1.90	0.51	0.00	0.083	0.000	23.911	0.00	1.40
53.25	1 5/8" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	18.25

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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**Load Case:** 0.9D + 1.6W 94 mph Wind

**Iterations** 23

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
53.25	1 5/8" Hybrid	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	23.911	0.00	6.44
53.25	1/2" Coax	Yes	3.25	0.000	1.00	0.27	0.00	0.083	0.000	23.911	0.00	0.47
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.083	0.000	24.072	0.00	0.43
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.083	0.000	24.072	0.00	1.64
55.00	1 1/4" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	4.16
55.00	1/2" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	0.50
55.00	5/16" Coax	Yes	1.75	0.000	1.90	0.28	0.00	0.083	0.000	24.072	0.00	0.76
55.00	1 5/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	9.83
55.00	1 5/8" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	24.072	0.00	3.47
55.00	1/2" Coax	Yes	1.75	0.000	1.00	0.15	0.00	0.083	0.000	24.072	0.00	0.25
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.084	0.000	24.509	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.084	0.000	24.509	0.00	4.68
60.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	11.88
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	1.44
60.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.084	0.000	24.509	0.00	2.16
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	28.08
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	24.509	0.00	9.90
60.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.084	0.000	24.509	0.00	0.72
63.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.086	0.000	24.758	0.00	0.74
63.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.086	0.000	24.758	0.00	2.81
63.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	7.13
63.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	0.86
63.00	5/16" Coax	Yes	3.00	0.000	1.90	0.47	0.00	0.086	0.000	24.758	0.00	1.30
63.00	1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	16.85
63.00	1 5/8" Hybrid	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	24.758	0.00	5.94
63.00	1/2" Coax	Yes	3.00	0.000	1.00	0.25	0.00	0.086	0.000	24.758	0.00	0.43
64.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.065	0.000	24.879	0.00	0.37
64.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.065	0.000	24.879	0.00	1.40
64.50	1 1/4" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	3.56
64.50	1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	0.43
64.50	5/16" Coax	Yes	1.50	0.000	1.90	0.24	0.00	0.065	0.000	24.879	0.00	0.65
64.50	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	8.42
64.50	1 5/8" Hybrid	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	24.879	0.00	2.97
65.00	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.065	0.000	24.919	0.00	0.12
65.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.065	0.000	24.919	0.00	0.47
65.00	1 1/4" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	1.19
65.00	1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	0.14
65.00	5/16" Coax	Yes	0.50	0.000	1.90	0.08	0.00	0.065	0.000	24.919	0.00	0.22
65.00	1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	2.81
65.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	24.919	0.00	0.99
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.066	0.000	25.305	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.066	0.000	25.305	0.00	4.68
70.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	11.88
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	1.44
70.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.066	0.000	25.305	0.00	2.16
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	28.08
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	25.305	0.00	9.90

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 0.9D + 1.6W 94 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 0.90	
<b>Wind Load Factor</b> 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.068	0.000	25.670	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.068	0.000	25.670	0.00	4.68
75.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	11.88
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	1.44
75.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.068	0.000	25.670	0.00	2.16
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	28.08
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	25.670	0.00	9.90
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.070	0.000	26.017	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.070	0.000	26.017	0.00	4.68
80.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	11.88
80.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	1.44
80.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.070	0.000	26.017	0.00	2.16
80.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	28.08
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	26.017	0.00	9.90
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.072	0.000	26.347	0.00	1.23
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.072	0.000	26.347	0.00	4.68
85.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	11.88
85.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	1.44
85.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.072	0.000	26.347	0.00	2.16
85.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	28.08
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	26.347	0.00	9.90
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.075	0.000	26.662	0.00	1.23
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.075	0.000	26.662	0.00	4.68
90.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	11.88
90.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	1.44
90.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.075	0.000	26.662	0.00	2.16
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	28.08
90.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	26.662	0.00	9.90
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.077	0.000	26.964	0.00	1.23
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.077	0.000	26.964	0.00	4.68
95.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	11.88
95.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	1.44
95.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.077	0.000	26.964	0.00	2.16
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	28.08
95.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	26.964	0.00	9.90
96.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.078	0.000	27.023	0.00	0.25
96.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.078	0.000	27.023	0.00	0.94
96.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	2.38
96.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	0.29
96.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.078	0.000	27.023	0.00	0.43
96.00	1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	5.62
96.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	27.023	0.00	1.98
98.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.079	0.000	27.140	0.00	0.49
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.079	0.000	27.140	0.00	1.87
98.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	4.75
98.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	0.58
98.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.079	0.000	27.140	0.00	0.86

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 0.9D + 1.6W 94 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 0.90	
<b>Wind Load Factor</b> 1.60	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	11.23
98.00	1 5/8" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	27.140	0.00	3.96
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.080	0.000	27.254	0.00	0.49
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.080	0.000	27.254	0.00	1.87
100.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	27.254	0.00	4.75
100.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	27.254	0.00	0.58
100.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.080	0.000	27.254	0.00	0.86
100.75	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.081	0.000	27.297	0.00	0.18
100.75	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.04	0.00	0.081	0.000	27.297	0.00	0.70
100.75	1 1/4" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	27.297	0.00	1.78
100.75	1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	27.297	0.00	0.22
100.75	5/16" Coax	Yes	0.75	0.000	1.90	0.12	0.00	0.081	0.000	27.297	0.00	0.32
105.00	Safety Cable	Yes	4.25	0.000	0.38	0.13	0.00	0.081	0.000	27.533	0.00	1.04
105.00	Step bolts (ladder)	Yes	4.25	0.000	0.63	0.22	0.00	0.081	0.000	27.533	0.00	3.98
105.00	1 1/4" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	27.533	0.00	10.10
105.00	1/2" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	27.533	0.00	1.22
105.00	5/16" Coax	Yes	4.25	0.000	1.90	0.67	0.00	0.081	0.000	27.533	0.00	1.84
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.084	0.000	27.801	0.00	1.23
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.084	0.000	27.801	0.00	4.68
110.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	27.801	0.00	11.88
110.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	27.801	0.00	1.44
110.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.084	0.000	27.801	0.00	2.16
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.087	0.000	28.060	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.087	0.000	28.060	0.00	4.68
115.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	28.060	0.00	11.88
115.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	28.060	0.00	1.44
115.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.087	0.000	28.060	0.00	2.16
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.090	0.000	28.311	0.00	1.23
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.090	0.000	28.311	0.00	4.68
120.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	28.311	0.00	11.88
120.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	28.311	0.00	1.44
120.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.090	0.000	28.311	0.00	2.16
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.094	0.000	28.553	0.00	1.23
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.094	0.000	28.553	0.00	4.68
125.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	28.553	0.00	11.88
125.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	28.553	0.00	1.44
125.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.094	0.000	28.553	0.00	2.16
129.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.097	0.000	28.742	0.00	0.98
129.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.097	0.000	28.742	0.00	3.74
129.00	1 1/4" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	28.742	0.00	9.50
129.00	1/2" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	28.742	0.00	1.15
129.00	5/16" Coax	Yes	4.00	0.000	1.90	0.63	0.00	0.097	0.000	28.742	0.00	1.73
130.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.100	0.000	28.788	0.00	0.25
130.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.100	0.000	28.788	0.00	0.94
130.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	28.788	0.00	2.38
130.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	28.788	0.00	0.29
130.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.100	0.000	28.788	0.00	0.43

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	Page: 29
	<b>Struct Class:</b> II	



**Load Case:** 0.9D + 1.6W 94 mph Wind

**Iterations** 23

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.102	1.007	29.016	0.00	1.23
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.102	1.007	29.016	0.00	4.68
135.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	29.016	0.00	11.88
135.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	29.016	0.00	1.44
135.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.102	1.007	29.016	0.00	2.16
138.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.106	1.018	29.149	0.00	0.74
138.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.106	1.018	29.149	0.00	2.81
138.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	29.149	0.00	7.13
138.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	29.149	0.00	0.86
138.00	5/16" Coax	Yes	3.00	0.000	1.90	0.47	0.00	0.106	1.018	29.149	0.00	1.30
140.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.108	1.025	29.237	0.00	0.49
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.108	1.025	29.237	0.00	1.87
140.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	29.237	0.00	4.75
140.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	29.237	0.00	0.58
140.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.108	1.025	29.237	0.00	0.86
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.112	1.036	29.453	0.00	1.23
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.112	1.036	29.453	0.00	4.68
145.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	29.453	0.00	11.88
145.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	29.453	0.00	1.44
145.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.112	1.036	29.453	0.00	2.16
146.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.115	1.046	29.495	0.00	0.25
146.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.115	1.046	29.495	0.00	0.94
146.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	29.495	0.00	2.38
146.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	29.495	0.00	0.29
146.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.115	1.046	29.495	0.00	0.43
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.041	0.000	29.579	0.00	0.49
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.041	0.000	29.579	0.00	1.87
149.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.041	0.000	29.621	0.00	0.25
149.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.041	0.000	29.621	0.00	0.94
<b>Totals:</b>											<b>0.0</b>	<b>1,381.6</b>

## Calculated Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 0.9D + 1.6W 94 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 0.90	
<b>Wind Load Factor</b> 1.60	

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.79	-36.85	0.00	-3944.8	0.00	3944.84	4419.23	2209.62	10644.5	5330.19	0.00	0.000	0.000	0.749
5.00	-35.43	-36.45	0.00	-3760.5	0.00	3760.57	4369.18	2184.59	10305.9	5160.65	0.10	-0.182	0.000	0.737
10.00	-34.10	-36.05	0.00	-3578.3	0.00	3578.33	4317.41	2158.71	9968.41	4991.62	0.39	-0.366	0.000	0.725
15.00	-32.79	-35.65	0.00	-3398.0	0.00	3398.08	4263.92	2131.96	9632.14	4823.23	0.87	-0.553	0.000	0.712
20.00	-31.51	-35.22	0.00	-3219.8	0.00	3219.84	4208.71	2104.36	9297.40	4655.61	1.55	-0.742	0.000	0.699
25.00	-30.25	-34.78	0.00	-3043.7	0.00	3043.74	4151.78	2075.89	8964.46	4488.89	2.43	-0.933	0.000	0.686
30.00	-29.01	-34.32	0.00	-2869.8	0.00	2869.86	4093.13	2046.56	8633.57	4323.20	3.51	-1.126	0.000	0.671
35.00	-27.80	-33.85	0.00	-2698.2	0.00	2698.28	4032.76	2016.38	8305.00	4158.67	4.80	-1.321	0.000	0.656
40.00	-26.61	-33.37	0.00	-2529.0	0.00	2529.06	3970.67	1985.33	7978.99	3995.42	6.29	-1.518	0.000	0.640
45.00	-25.48	-32.86	0.00	-2362.2	0.00	2362.23	3906.85	1953.43	7655.81	3833.59	7.98	-1.715	0.000	0.623
47.25	-24.96	-32.64	0.00	-2288.3	0.00	2288.30	3877.58	1938.79	7511.37	3761.27	8.81	-1.807	0.000	0.615
50.00	-23.93	-32.36	0.00	-2198.5	0.00	2198.54	3841.32	1920.66	7335.71	3673.31	9.89	-1.918	0.000	0.605
53.25	-22.76	-32.01	0.00	-2093.3	0.00	2093.36	2984.31	1492.16	5695.15	2851.81	11.24	-2.049	0.000	0.742
55.00	-22.37	-31.87	0.00	-2037.3	0.00	2037.34	2968.67	1484.33	5613.44	2810.89	12.01	-2.121	0.000	0.733
60.00	-21.42	-31.36	0.00	-1878.0	0.00	1878.00	2922.80	1461.40	5380.87	2694.44	14.35	-2.350	0.000	0.705
63.00	-20.83	-30.94	0.00	-1783.9	0.00	1783.92	2894.46	1447.23	5242.03	2624.91	15.87	-2.489	0.000	0.687
64.50	-20.52	-30.70	0.00	-1737.5	0.00	1737.51	2880.06	1440.03	5172.83	2590.26	16.67	-2.559	0.000	0.678
65.00	-20.37	-30.69	0.00	-1722.1	0.00	1722.16	2875.22	1437.61	5149.80	2578.73	16.93	-2.583	0.000	0.675
70.00	-19.44	-30.19	0.00	-1568.7	0.00	1568.74	2825.92	1412.96	4920.48	2463.90	19.76	-2.809	0.000	0.644
75.00	-18.54	-29.70	0.00	-1417.7	0.00	1417.78	2774.89	1387.45	4693.17	2350.07	22.82	-3.032	0.000	0.610
80.00	-17.66	-29.21	0.00	-1269.2	0.00	1269.28	2722.15	1361.08	4468.13	2237.39	26.12	-3.251	0.000	0.574
85.00	-16.80	-28.72	0.00	-1123.2	0.00	1123.23	2667.69	1333.84	4245.61	2125.96	29.63	-3.464	0.000	0.535
90.00	-15.97	-28.23	0.00	-979.62	0.00	979.62	2611.50	1305.75	4025.88	2015.93	33.37	-3.669	0.000	0.493
95.00	-15.21	-27.73	0.00	-838.45	0.00	838.45	2553.60	1276.80	3809.20	1907.43	37.32	-3.864	0.000	0.446
96.00	-14.43	-24.23	0.00	-810.72	0.00	810.72	2541.81	1270.90	3766.25	1885.92	38.13	-3.903	0.000	0.436
98.00	-11.98	-21.97	0.00	-762.26	0.00	762.26	2518.03	1259.01	3680.75	1843.11	39.78	-3.979	0.000	0.419
100.00	-11.53	-21.76	0.00	-718.32	0.00	718.32	2493.97	1246.99	3595.81	1800.58	41.47	-4.054	0.000	0.404
100.75	-11.33	-21.70	0.00	-702.00	0.00	702.00	1861.03	930.51	2717.30	1360.67	42.10	-4.081	0.000	0.523
105.00	-10.81	-21.30	0.00	-609.79	0.00	609.79	1828.27	914.13	2591.91	1297.88	45.80	-4.230	0.000	0.476
110.00	-10.23	-20.83	0.00	-503.32	0.00	503.32	1788.13	894.06	2445.78	1224.71	50.34	-4.422	0.000	0.417
115.00	-9.66	-20.37	0.00	-399.18	0.00	399.18	1746.27	873.13	2301.39	1152.40	55.06	-4.596	0.000	0.352
120.00	-6.16	-13.82	0.00	-297.35	0.00	297.35	1702.69	851.34	2158.99	1081.10	59.95	-4.746	0.000	0.279
125.00	-5.72	-13.37	0.00	-228.25	0.00	228.25	1657.39	828.70	2018.85	1010.92	64.99	-4.873	0.000	0.229
129.00	-5.39	-13.02	0.00	-174.75	0.00	174.75	1619.91	809.96	1908.53	955.68	69.11	-4.960	0.000	0.186
129.00	-5.39	-13.02	0.00	-174.75	0.00	174.75	1091.97	545.98	1287.15	644.53	69.11	-4.960	0.000	0.277
130.00	-5.31	-12.94	0.00	-161.73	0.00	161.73	1086.84	543.42	1270.26	636.07	70.15	-4.981	0.000	0.260
135.00	-4.99	-12.53	0.00	-97.02	0.00	97.02	1060.16	530.08	1186.17	593.97	75.42	-5.087	0.000	0.169
138.00	-2.70	-7.47	0.00	-59.44	0.00	59.44	1043.32	521.66	1136.10	568.89	78.63	-5.132	0.000	0.107
140.00	-2.61	-7.31	0.00	-44.50	0.00	44.50	1031.75	515.88	1102.91	552.27	80.78	-5.153	0.000	0.083
145.00	-2.39	-6.91	0.00	-7.95	0.00	7.95	1001.63	500.82	1020.73	511.12	86.19	-5.181	0.000	0.018
146.00	-0.20	-0.41	0.00	-1.03	0.00	1.03	995.40	497.70	1004.44	502.97	87.27	-5.182	0.000	0.002
148.00	-0.04	-0.07	0.00	-0.07	0.00	0.07	982.73	491.37	972.05	486.75	89.44	-5.182	0.000	0.000
149.00	0.00	-0.07	0.00	0.00	0.00	0.00	976.29	488.15	955.94	478.68	90.53	-5.182	0.000	0.000

## Wind Loading - Shaft

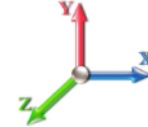
<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 31



**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 23

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.168	5.68	0.00	1.200	1.057	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.168	5.68	0.00	1.200	1.265	5.00	25.724	30.87	175.5	467.3	1875.0
10.00		1.00	0.85	5.168	5.68	0.00	1.200	1.344	5.00	25.280	30.34	172.5	487.0	1865.5
15.00		1.00	0.86	5.232	5.76	0.00	1.200	1.395	5.00	24.813	29.78	171.4	495.5	1844.7
20.00		1.00	0.91	5.540	6.09	0.00	1.200	1.434	5.00	24.335	29.20	178.0	498.7	1818.6
25.00		1.00	0.95	5.795	6.37	0.00	1.200	1.465	5.00	23.851	28.62	182.4	498.6	1789.3
30.00		1.00	0.99	6.013	6.61	0.00	1.200	1.491	5.00	23.363	28.04	185.4	496.5	1757.8
35.00		1.00	1.02	6.206	6.83	0.00	1.200	1.513	5.00	22.872	27.45	187.4	492.7	1724.8
40.00		1.00	1.05	6.378	7.02	0.00	1.200	1.533	5.00	22.378	26.85	188.4	487.8	1690.6
45.00		1.00	1.07	6.534	7.19	0.00	1.200	1.551	5.00	21.883	26.26	188.8	481.9	1655.4
47.25	Bot - Section 2	1.00	1.09	6.600	7.26	0.00	1.200	1.558	2.25	9.684	11.62	84.4	215.5	734.1
50.00		1.00	1.10	6.678	7.35	0.00	1.200	1.567	2.75	11.846	14.21	104.4	264.8	1419.6
53.25	Top - Section 1	1.00	1.11	6.765	7.44	0.00	1.200	1.576	3.25	13.806	16.57	123.3	309.9	1653.7
55.00		1.00	1.12	6.811	7.49	0.00	1.200	1.581	1.75	7.346	8.82	66.0	165.9	493.2
60.00		1.00	1.14	6.934	7.63	0.00	1.200	1.595	5.00	20.656	24.79	189.1	466.3	1385.0
63.00	Appurtenance(s)	1.00	1.15	7.005	7.71	0.00	1.200	1.603	3.00	12.153	14.58	112.4	276.8	816.3
64.50	Appurtenance(s)	1.00	1.16	7.039	7.74	0.00	1.200	1.606	1.50	6.008	7.21	55.8	137.6	404.1
65.00		1.00	1.16	7.050	7.76	0.00	1.200	1.608	0.50	1.993	2.39	18.5	45.8	134.1
70.00		1.00	1.18	7.160	7.88	0.00	1.200	1.619	5.00	19.657	23.59	185.8	449.2	1319.1
75.00		1.00	1.19	7.263	7.99	0.00	1.200	1.631	5.00	19.156	22.99	183.7	440.1	1285.5
80.00		1.00	1.21	7.361	8.10	0.00	1.200	1.641	5.00	18.655	22.39	181.3	430.6	1251.7
85.00		1.00	1.23	7.454	8.20	0.00	1.200	1.651	5.00	18.153	21.78	178.6	420.8	1217.5
90.00		1.00	1.24	7.544	8.30	0.00	1.200	1.660	5.00	17.651	21.18	175.8	410.8	1183.0
95.00		1.00	1.25	7.629	8.39	0.00	1.200	1.669	5.00	17.149	20.58	172.7	400.4	1148.3
96.00	Bot - Section 3	1.00	1.26	7.646	8.41	0.00	1.200	1.671	1.00	3.369	4.04	34.0	79.7	226.3
98.00	Appurtenance(s)	1.00	1.26	7.679	8.45	0.00	1.200	1.674	2.00	6.762	8.11	68.5	159.8	686.0
100.00		1.00	1.27	7.711	8.48	0.00	1.200	1.678	2.00	6.682	8.02	68.0	158.1	677.3
100.75	Top - Section 2	1.00	1.27	7.723	8.50	0.00	1.200	1.679	0.75	2.485	2.98	25.3	59.0	251.9
105.00		1.00	1.28	7.790	8.57	0.00	1.200	1.686	4.25	13.869	16.64	142.6	326.8	808.6
110.00		1.00	1.29	7.866	8.65	0.00	1.200	1.693	5.00	15.851	19.02	164.6	373.5	922.3
115.00		1.00	1.31	7.939	8.73	0.00	1.200	1.701	5.00	15.347	18.42	160.8	362.4	891.7
120.00	Appurtenance(s)	1.00	1.32	8.010	8.81	0.00	1.200	1.708	5.00	14.843	17.81	156.9	351.1	860.9
125.00		1.00	1.33	8.079	8.89	0.00	1.200	1.715	5.00	14.339	17.21	152.9	339.6	829.9
129.00	Top - Section 3	1.00	1.34	8.132	8.95	0.00	1.200	1.720	4.00	11.108	13.33	119.2	264.3	642.4
130.00		1.00	1.34	8.145	8.96	0.00	1.200	1.722	1.00	2.717	3.26	29.2	65.4	134.7
135.00		1.00	1.35	8.210	9.03	0.00	1.209 *	1.728	5.00	13.284	16.05	145.0	315.1	652.9
138.00	Appurtenance(s)	1.00	1.36	8.247	9.07	0.00	1.222 *	1.732	3.00	7.728	9.44	85.6	184.8	380.5
140.00		1.00	1.36	8.272	9.10	0.00	1.230 *	1.734	2.00	5.051	6.21	56.5	121.3	248.8
145.00		1.00	1.37	8.333	9.17	0.00	1.243 *	1.741	5.00	12.275	15.26	139.9	291.2	599.7
146.00	Appurtenance(s)	1.00	1.37	8.345	9.18	0.00	1.255 *	1.742	1.00	2.394	3.00	27.6	57.7	117.7
148.00	Appurtenance(s)	1.00	1.38	8.369	9.21	0.00	1.200	1.744	2.00	4.727	5.67	52.2	113.6	231.7
149.00		1.00	1.38	8.381	9.22	0.00	1.200	1.745	1.00	2.333	2.80	25.8	56.3	114.5
<b>Totals:</b>									<b>149.00</b>			<b>5,116.2</b>	<b>39,744.9</b>	

\* Cf Adjusted by L inearL oad RaE ffect



## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 23

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	Decibel DB404-B	1	8.398	9.238	1.00	1.00	3.84	39.94	0.000	2.500	35.44	0.00	88.59
2	148.00	Pipe Mount	1	8.369	9.206	1.00	1.00	4.24	-146.29	0.000	0.000	39.07	0.00	0.00
3	146.00	RFS APXVTM14-C-120	3	8.345	9.180	0.71	0.90	15.89	681.67	0.000	0.000	145.89	0.00	0.00
4	146.00	Andrew LLPX310R	3	8.345	9.180	0.68	0.90	12.06	295.62	0.000	0.000	110.73	0.00	0.00
5	146.00	Andrew VHLP2-11	1	8.345	9.180	1.00	1.00	4.74	102.06	0.000	0.000	43.54	0.00	0.00
6	146.00	U-RAS Flexible RRH	3	8.345	9.180	0.70	0.90	6.00	308.13	0.000	0.000	55.04	0.00	0.00
7	146.00	12.5' Low Profile Platform	1	8.345	9.180	1.00	1.00	43.08	3193.43	0.000	0.000	395.48	0.00	0.00
8	146.00	Andrew VHLP800-11-DW1	1	8.345	9.180	1.00	1.00	8.22	157.18	0.000	0.000	75.47	0.00	0.00
9	146.00	RFS APXVSP18-C-A20	3	8.345	9.180	0.75	0.90	24.22	574.21	0.000	0.000	222.34	0.00	0.00
10	146.00	ALU 1900MHz RRH	3	8.345	9.180	0.60	0.90	9.38	391.63	0.000	0.000	86.14	0.00	0.00
11	146.00	ALU 800MHz RRH	3	8.345	9.180	0.60	0.90	6.87	380.54	0.000	0.000	63.02	0.00	0.00
12	146.00	800MHz RRH w/ filter	3	8.345	9.180	0.90	0.90	12.88	438.98	0.000	0.000	118.26	0.00	0.00
13	146.00	RFS ACU-A20-N	4	8.345	9.180	0.71	0.90	1.24	16.75	0.000	0.000	11.39	0.00	0.00
14	146.00	ALU TD-RRH8x20-25	3	8.345	9.180	0.63	0.90	9.19	582.58	0.000	0.000	84.34	0.00	0.00
15	138.00	Raycap DC6-48-60-18-8F	2	8.247	9.072	1.00	1.00	4.33	166.03	0.000	0.000	39.27	0.00	0.00
16	138.00	Commscope	3	8.247	9.072	0.73	0.75	0.53	14.82	0.000	0.000	4.82	0.00	0.00
17	138.00	Low Profile Platform w/	1	8.247	9.072	1.00	1.00	35.03	2579.22	0.000	0.000	317.77	0.00	0.00
18	138.00	HPA-65R-BUJ-H6	3	8.247	9.072	0.64	0.75	21.07	921.35	0.000	0.000	191.12	0.00	0.00
19	138.00	7770	3	8.247	9.072	0.55	0.75	10.77	527.75	0.000	0.000	97.70	0.00	0.00
20	138.00	Powerwave LGP21901	6	8.247	9.072	0.56	0.75	2.01	72.19	0.000	0.000	18.22	0.00	0.00
21	138.00	Powerwave LGP13519	6	8.247	9.072	0.75	0.75	3.56	78.51	0.000	0.000	32.28	0.00	0.00
22	138.00	Powerwave 7020.00 RET	12	8.247	9.072	0.50	0.75	5.31	118.78	0.000	0.000	48.15	0.00	0.00
23	138.00	Ericsson RRUS-32 B2s	3	8.247	9.072	0.50	0.75	5.22	477.54	0.000	0.000	47.36	0.00	0.00
24	138.00	WCS-IMFQ-AMT	1	8.247	9.072	0.38	0.75	0.53	84.12	0.000	0.000	4.81	0.00	0.00
25	138.00	4449 B5/B12	3	8.247	9.072	0.50	0.75	3.79	373.73	0.000	0.000	34.37	0.00	0.00
26	138.00	DMP65R-BU6DA	3	8.247	9.072	0.55	0.75	23.25	1365.12	0.000	0.000	210.91	0.00	0.00
27	138.00	4415 B30	3	8.247	9.072	0.50	0.75	3.24	259.77	0.000	0.000	29.42	0.00	0.00
28	120.00	HRK12 (Handrail Kit)	1	8.010	8.811	1.00	1.00	13.21	879.78	0.000	0.000	116.36	0.00	0.00
29	120.00	Low Profile Platform	1	8.010	8.811	1.00	1.00	43.01	3166.39	0.000	0.000	378.93	0.00	0.00
30	120.00	4449 B71 + B85	3	8.010	8.811	0.54	0.80	4.06	257.87	0.000	0.000	35.81	0.00	0.00
31	120.00	RRUS 4415 B25	3	8.010	8.811	0.54	0.80	3.45	258.09	0.000	0.000	30.38	0.00	0.00
32	120.00	Ericsson KRY 112 144/1	3	8.010	8.811	0.50	0.75	1.32	61.96	0.000	0.000	11.62	0.00	0.00
33	120.00	PRK-1245 (kicker kit)	1	8.010	8.811	1.00	1.00	19.24	780.45	0.000	0.000	169.49	0.00	0.00
34	120.00	AIR32 KR D	3	8.010	8.811	0.70	0.80	15.88	1011.86	0.000	0.000	139.94	0.00	0.00
35	120.00	AIR6449 B41	3	8.010	8.811	0.57	0.80	11.21	678.31	0.000	0.000	98.80	0.00	0.00
36	120.00	APXVAALL24_43-U-NA20	3	8.010	8.811	0.56	0.80	37.13	1684.63	0.000	0.000	327.11	0.00	0.00
37	120.00	SDX1926Q-43	3	8.010	8.811	0.54	0.80	1.67	39.13	0.000	0.000	14.74	0.00	0.00
38	98.00	Quintel AS-005245 - Dual	3	7.679	8.447	1.00	1.00	7.94	399.76	0.000	0.000	67.06	0.00	0.00
39	98.00	B2/B66A RRH-BR049	3	7.679	8.447	0.54	0.80	3.87	414.22	0.000	0.000	32.72	0.00	0.00
40	98.00	12.5' Low Profile Platform	1	7.679	8.447	1.00	1.00	33.50	2549.67	0.000	0.000	283.00	0.00	0.00
41	98.00	B5/B13 RRH-BR04C	3	7.679	8.447	0.54	0.80	3.87	414.22	0.000	0.000	32.72	0.00	0.00
42	98.00	RFS DB-C1-12C-24AB-OZ	2	7.679	8.447	0.80	0.80	7.76	238.18	0.000	0.000	65.52	0.00	0.00
43	96.00	Samsung MT6407-77A	3	7.646	8.410	0.57	0.80	9.48	897.05	0.000	0.000	79.74	0.00	0.00
44	96.00	Amphenol	2	7.646	8.410	0.76	0.80	18.84	415.66	0.000	0.000	158.46	0.00	0.00
45	96.00	Celwave	4	7.646	8.410	0.74	0.80	17.36	368.35	0.000	0.000	146.01	0.00	0.00
46	96.00	Quintel QS6656-5D	6	7.646	8.410	0.74	0.80	41.20	1720.07	0.000	0.000	346.55	0.00	0.00
47	64.50	Decibel 26OB	1	7.039	7.743	1.00	1.00	5.21	170.64	0.000	0.000	40.36	0.00	0.00

## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	Page: 33
<b>Struct Class:</b> II		



48	63.00	3 ft Standoff	1	7.005	7.705	1.00	1.00	8.11	98.73	0.000	0.000	62.50	0.00	0.00
<b>Totals:</b>											<b>30,560.35</b>	<b>5,200.15</b>		

## Total Applied Force Summary

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 34



**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 23

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		175.48	2353.39	0.00	0.00
10.00		172.45	2362.40	0.00	0.00
15.00		171.36	2354.00	0.00	0.00
20.00		177.96	2337.35	0.00	0.00
25.00		182.44	2315.77	0.00	0.00
30.00		185.45	2290.87	0.00	0.00
35.00		187.36	2263.56	0.00	0.00
40.00		188.40	2234.42	0.00	0.00
45.00		188.75	2203.83	0.00	0.00
47.25		84.37	981.73	0.00	0.00
50.00		104.42	1723.49	0.00	0.00
53.25		123.29	2014.54	0.00	0.00
55.00		66.04	688.00	0.00	0.00
60.00		189.07	1944.98	0.00	0.00
63.00	(1) attachments	174.87	1252.25	0.00	0.00
64.50	(1) attachments	96.19	737.36	0.00	0.00
65.00		18.55	188.36	0.00	0.00
70.00		185.77	1864.30	0.00	0.00
75.00		183.65	1833.46	0.00	0.00
80.00		181.26	1802.14	0.00	0.00
85.00		178.63	1770.39	0.00	0.00
90.00		175.77	1738.24	0.00	0.00
95.00		172.70	1705.73	0.00	0.00
96.00	(15) attachments	764.75	3739.01	0.00	0.00
98.00	(12) attachments	549.56	4925.58	0.00	0.00
100.00		68.01	820.43	0.00	0.00
100.75		25.33	305.64	0.00	0.00
105.00		142.61	1113.70	0.00	0.00
110.00		164.58	1282.39	0.00	0.00
115.00		160.83	1252.85	0.00	0.00
120.00	(24) attachments	1480.12	10041.55	0.00	0.00
125.00		152.91	1110.95	0.00	0.00
129.00		119.23	867.92	0.00	0.00
130.00		29.21	191.10	0.00	0.00
135.00		144.98	935.93	0.00	0.00
138.00	(49) attachments	1161.85	7589.53	0.00	0.00
140.00		56.55	330.29	0.00	0.00
145.00		139.88	804.36	0.00	0.00
146.00	(31) attachments	1439.21	7281.44	0.00	0.00
148.00	(2) attachments	126.73	147.43	0.00	88.59
149.00		25.81	124.91	0.00	0.00
	<b>Totals:</b>	<b>10,316.39</b>	<b>83,825.55</b>	<b>0.00</b>	<b>88.59</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi 50 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 1.20	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	1.21	0.00	0.066	0.000	5.168	0.00	13.31
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.32	0.00	0.066	0.000	5.168	0.00	19.25
5.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	5.168	0.00	60.12
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	5.168	0.00	18.44
5.00	5/16" Coax	Yes	5.00	0.000	1.90	1.85	0.00	0.066	0.000	5.168	0.00	26.12
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	5.168	0.00	115.47
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	5.168	0.00	45.99
5.00	1/2" Coax	Yes	5.00	0.000	1.00	1.47	0.00	0.066	0.000	5.168	0.00	14.11
10.00	Safety Cable	Yes	5.00	0.000	0.38	1.28	0.00	0.067	0.000	5.168	0.00	14.69
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.38	0.00	0.067	0.000	5.168	0.00	20.70
10.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	5.168	0.00	63.29
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	5.168	0.00	20.10
10.00	5/16" Coax	Yes	5.00	0.000	1.90	1.91	0.00	0.067	0.000	5.168	0.00	28.20
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	5.168	0.00	120.38
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	5.168	0.00	48.48
10.00	1/2" Coax	Yes	5.00	0.000	1.00	1.54	0.00	0.067	0.000	5.168	0.00	15.57
15.00	Safety Cable	Yes	5.00	0.000	0.38	1.32	0.00	0.069	0.000	5.232	0.00	15.62
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.43	0.00	0.069	0.000	5.232	0.00	21.69
15.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	5.232	0.00	65.38
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	5.232	0.00	21.22
15.00	5/16" Coax	Yes	5.00	0.000	1.90	1.95	0.00	0.069	0.000	5.232	0.00	29.58
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	5.232	0.00	123.61
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	5.232	0.00	50.13
15.00	1/2" Coax	Yes	5.00	0.000	1.00	1.58	0.00	0.069	0.000	5.232	0.00	16.56
20.00	Safety Cable	Yes	5.00	0.000	0.38	1.35	0.00	0.070	0.000	5.540	0.00	16.34
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.46	0.00	0.070	0.000	5.540	0.00	22.44
20.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	5.540	0.00	66.97
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	5.540	0.00	22.08
20.00	5/16" Coax	Yes	5.00	0.000	1.90	1.99	0.00	0.070	0.000	5.540	0.00	30.64
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	5.540	0.00	126.05
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	5.540	0.00	51.40
20.00	1/2" Coax	Yes	5.00	0.000	1.00	1.61	0.00	0.070	0.000	5.540	0.00	17.32
25.00	Safety Cable	Yes	5.00	0.000	0.38	1.38	0.00	0.072	0.000	5.795	0.00	16.94
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.48	0.00	0.072	0.000	5.795	0.00	23.07
25.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	5.795	0.00	68.27
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	5.795	0.00	22.78
25.00	5/16" Coax	Yes	5.00	0.000	1.90	2.01	0.00	0.072	0.000	5.795	0.00	31.51
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	5.795	0.00	128.03
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	5.795	0.00	52.43
25.00	1/2" Coax	Yes	5.00	0.000	1.00	1.64	0.00	0.072	0.000	5.795	0.00	17.94
30.00	Safety Cable	Yes	5.00	0.000	0.38	1.40	0.00	0.074	0.000	6.013	0.00	17.44
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.50	0.00	0.074	0.000	6.013	0.00	23.60
30.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	6.013	0.00	69.37
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	6.013	0.00	23.38
30.00	5/16" Coax	Yes	5.00	0.000	1.90	2.03	0.00	0.074	0.000	6.013	0.00	32.24
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	6.013	0.00	129.70
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	6.013	0.00	53.30

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi 50 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 1.20	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
30.00	1/2" Coax	Yes	5.00	0.000	1.00	1.66	0.00	0.074	0.000	6.013	0.00	18.48
35.00	Safety Cable	Yes	5.00	0.000	0.38	1.42	0.00	0.075	0.000	6.206	0.00	17.89
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.52	0.00	0.075	0.000	6.206	0.00	24.07
35.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	6.206	0.00	70.32
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	6.206	0.00	23.91
35.00	5/16" Coax	Yes	5.00	0.000	1.90	2.05	0.00	0.075	0.000	6.206	0.00	32.89
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	6.206	0.00	131.15
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	6.206	0.00	54.06
35.00	1/2" Coax	Yes	5.00	0.000	1.00	1.68	0.00	0.075	0.000	6.206	0.00	18.95
40.00	Safety Cable	Yes	5.00	0.000	0.38	1.44	0.00	0.077	0.000	6.378	0.00	18.29
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.54	0.00	0.077	0.000	6.378	0.00	24.48
40.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	6.378	0.00	71.16
40.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	6.378	0.00	24.38
40.00	5/16" Coax	Yes	5.00	0.000	1.90	2.07	0.00	0.077	0.000	6.378	0.00	33.46
40.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	6.378	0.00	132.43
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	6.378	0.00	54.74
40.00	1/2" Coax	Yes	5.00	0.000	1.00	1.69	0.00	0.077	0.000	6.378	0.00	19.37
45.00	Safety Cable	Yes	5.00	0.000	0.38	1.45	0.00	0.079	0.000	6.534	0.00	18.65
45.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.55	0.00	0.079	0.000	6.534	0.00	24.86
45.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	6.534	0.00	71.93
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	6.534	0.00	24.80
45.00	5/16" Coax	Yes	5.00	0.000	1.90	2.08	0.00	0.079	0.000	6.534	0.00	33.97
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	6.534	0.00	133.58
45.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	6.534	0.00	55.35
45.00	1/2" Coax	Yes	5.00	0.000	1.00	1.71	0.00	0.079	0.000	6.534	0.00	19.74
47.25	Safety Cable	Yes	2.25	0.000	0.38	0.66	0.00	0.081	0.000	6.600	0.00	8.46
47.25	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.70	0.00	0.081	0.000	6.600	0.00	11.26
47.25	1 1/4" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	6.600	0.00	32.51
47.25	1/2" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	6.600	0.00	11.24
47.25	5/16" Coax	Yes	2.25	0.000	1.90	0.94	0.00	0.081	0.000	6.600	0.00	15.39
47.25	1 5/8" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	6.600	0.00	60.33
47.25	1 5/8" Hybrid	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	6.600	0.00	25.02
47.25	1/2" Coax	Yes	2.25	0.000	1.00	0.77	0.00	0.081	0.000	6.600	0.00	8.96
50.00	Safety Cable	Yes	2.75	0.000	0.38	0.81	0.00	0.082	0.000	6.678	0.00	10.44
50.00	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.86	0.00	0.082	0.000	6.678	0.00	13.86
50.00	1 1/4" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	6.678	0.00	39.94
50.00	1/2" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	6.678	0.00	13.85
50.00	5/16" Coax	Yes	2.75	0.000	1.90	1.15	0.00	0.082	0.000	6.678	0.00	18.94
50.00	1 5/8" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	6.678	0.00	74.05
50.00	1 5/8" Hybrid	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	6.678	0.00	30.75
50.00	1/2" Coax	Yes	2.75	0.000	1.00	0.95	0.00	0.082	0.000	6.678	0.00	11.05
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.96	0.00	0.083	0.000	6.765	0.00	12.46
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	1.02	0.00	0.083	0.000	6.765	0.00	16.52
53.25	1 1/4" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	6.765	0.00	47.48
53.25	1/2" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	6.765	0.00	16.53
53.25	5/16" Coax	Yes	3.25	0.000	1.90	1.37	0.00	0.083	0.000	6.765	0.00	22.57
53.25	1 5/8" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	6.765	0.00	87.92

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi 50 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 1.20	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
53.25	1 5/8" Hybrid	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	6.765	0.00	36.56
53.25	1/2" Coax	Yes	3.25	0.000	1.00	1.12	0.00	0.083	0.000	6.765	0.00	13.20
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.52	0.00	0.083	0.000	6.811	0.00	6.75
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.55	0.00	0.083	0.000	6.811	0.00	8.93
55.00	1 1/4" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	6.811	0.00	25.64
55.00	1/2" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	6.811	0.00	8.94
55.00	5/16" Coax	Yes	1.75	0.000	1.90	0.74	0.00	0.083	0.000	6.811	0.00	12.21
55.00	1 5/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	6.811	0.00	47.46
55.00	1 5/8" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	6.811	0.00	19.75
55.00	1/2" Coax	Yes	1.75	0.000	1.00	0.61	0.00	0.083	0.000	6.811	0.00	7.14
60.00	Safety Cable	Yes	5.00	0.000	0.38	1.49	0.00	0.084	0.000	6.934	0.00	19.56
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.59	0.00	0.084	0.000	6.934	0.00	25.82
60.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	6.934	0.00	73.85
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	6.934	0.00	25.88
60.00	5/16" Coax	Yes	5.00	0.000	1.90	2.12	0.00	0.084	0.000	6.934	0.00	35.28
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	6.934	0.00	136.49
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	6.934	0.00	56.89
60.00	1/2" Coax	Yes	5.00	0.000	1.00	1.75	0.00	0.084	0.000	6.934	0.00	20.71
63.00	Safety Cable	Yes	3.00	0.000	0.38	0.90	0.00	0.086	0.000	7.005	0.00	11.84
63.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.96	0.00	0.086	0.000	7.005	0.00	15.59
63.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	7.005	0.00	44.51
63.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	7.005	0.00	15.64
63.00	5/16" Coax	Yes	3.00	0.000	1.90	1.28	0.00	0.086	0.000	7.005	0.00	21.31
63.00	1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	7.005	0.00	82.20
63.00	1 5/8" Hybrid	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	7.005	0.00	34.30
63.00	1/2" Coax	Yes	3.00	0.000	1.00	1.05	0.00	0.086	0.000	7.005	0.00	12.53
64.50	Safety Cable	Yes	1.50	0.000	0.38	0.45	0.00	0.065	0.000	7.039	0.00	5.94
64.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.48	0.00	0.065	0.000	7.039	0.00	7.82
64.50	1 1/4" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	7.039	0.00	22.30
64.50	1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	7.039	0.00	7.85
64.50	5/16" Coax	Yes	1.50	0.000	1.90	0.64	0.00	0.065	0.000	7.039	0.00	10.69
64.50	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	7.039	0.00	41.17
64.50	1 5/8" Hybrid	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	7.039	0.00	17.19
65.00	Safety Cable	Yes	0.50	0.000	0.38	0.15	0.00	0.065	0.000	7.050	0.00	1.98
65.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.16	0.00	0.065	0.000	7.050	0.00	2.61
65.00	1 1/4" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	7.050	0.00	7.44
65.00	1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	7.050	0.00	2.62
65.00	5/16" Coax	Yes	0.50	0.000	1.90	0.21	0.00	0.065	0.000	7.050	0.00	3.57
65.00	1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	7.050	0.00	13.73
65.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	7.050	0.00	5.73
70.00	Safety Cable	Yes	5.00	0.000	0.38	1.51	0.00	0.066	0.000	7.160	0.00	20.08
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.61	0.00	0.066	0.000	7.160	0.00	26.36
70.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.160	0.00	74.92
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.160	0.00	26.48
70.00	5/16" Coax	Yes	5.00	0.000	1.90	2.14	0.00	0.066	0.000	7.160	0.00	36.01
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.160	0.00	138.09
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.160	0.00	57.75

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi 50 mph Wind	<b>Iterations</b> 23
<b>Dead Load Factor</b> 1.20	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
75.00	Safety Cable	Yes	5.00	0.000	0.38	1.52	0.00	0.068	0.000	7.263	0.00	20.31
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.62	0.00	0.068	0.000	7.263	0.00	26.61
75.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	7.263	0.00	75.40
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	7.263	0.00	26.76
75.00	5/16" Coax	Yes	5.00	0.000	1.90	2.15	0.00	0.068	0.000	7.263	0.00	36.34
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	7.263	0.00	138.82
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	7.263	0.00	58.14
80.00	Safety Cable	Yes	5.00	0.000	0.38	1.53	0.00	0.070	0.000	7.361	0.00	20.54
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.63	0.00	0.070	0.000	7.361	0.00	26.84
80.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.361	0.00	75.86
80.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.361	0.00	27.02
80.00	5/16" Coax	Yes	5.00	0.000	1.90	2.16	0.00	0.070	0.000	7.361	0.00	36.66
80.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.361	0.00	139.51
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.361	0.00	58.51
85.00	Safety Cable	Yes	5.00	0.000	0.38	1.53	0.00	0.072	0.000	7.454	0.00	20.75
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.64	0.00	0.072	0.000	7.454	0.00	27.06
85.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	7.454	0.00	76.30
85.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	7.454	0.00	27.26
85.00	5/16" Coax	Yes	5.00	0.000	1.90	2.17	0.00	0.072	0.000	7.454	0.00	36.96
85.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	7.454	0.00	140.17
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	7.454	0.00	58.86
90.00	Safety Cable	Yes	5.00	0.000	0.38	1.54	0.00	0.075	0.000	7.544	0.00	20.95
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.65	0.00	0.075	0.000	7.544	0.00	27.27
90.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	7.544	0.00	76.71
90.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	7.544	0.00	27.50
90.00	5/16" Coax	Yes	5.00	0.000	1.90	2.18	0.00	0.075	0.000	7.544	0.00	37.24
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	7.544	0.00	140.79
90.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	7.544	0.00	59.20
95.00	Safety Cable	Yes	5.00	0.000	0.38	1.55	0.00	0.077	0.000	7.629	0.00	21.15
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.65	0.00	0.077	0.000	7.629	0.00	27.48
95.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	7.629	0.00	77.11
95.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	7.629	0.00	27.73
95.00	5/16" Coax	Yes	5.00	0.000	1.90	2.18	0.00	0.077	0.000	7.629	0.00	37.52
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	7.629	0.00	141.38
95.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	7.629	0.00	59.52
96.00	Safety Cable	Yes	1.00	0.000	0.38	0.31	0.00	0.078	0.000	7.646	0.00	4.24
96.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.33	0.00	0.078	0.000	7.646	0.00	5.50
96.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	7.646	0.00	15.44
96.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	7.646	0.00	5.55
96.00	5/16" Coax	Yes	1.00	0.000	1.90	0.44	0.00	0.078	0.000	7.646	0.00	7.51
96.00	1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	7.646	0.00	28.30
96.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	7.646	0.00	11.92
98.00	Safety Cable	Yes	2.00	0.000	0.38	0.62	0.00	0.079	0.000	7.679	0.00	8.50
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.66	0.00	0.079	0.000	7.679	0.00	11.04
98.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	7.679	0.00	30.94
98.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	7.679	0.00	11.14
98.00	5/16" Coax	Yes	2.00	0.000	1.90	0.87	0.00	0.079	0.000	7.679	0.00	15.07

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 23

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	7.679	0.00	56.69
98.00	1 5/8" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	7.679	0.00	23.88
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.62	0.00	0.080	0.000	7.711	0.00	8.53
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.66	0.00	0.080	0.000	7.711	0.00	11.07
100.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	7.711	0.00	31.00
100.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	7.711	0.00	11.18
100.00	5/16" Coax	Yes	2.00	0.000	1.90	0.88	0.00	0.080	0.000	7.711	0.00	15.11
100.75	Safety Cable	Yes	0.75	0.000	0.38	0.23	0.00	0.081	0.000	7.723	0.00	3.20
100.75	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.25	0.00	0.081	0.000	7.723	0.00	4.15
100.75	1 1/4" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	7.723	0.00	11.63
100.75	1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	7.723	0.00	4.20
100.75	5/16" Coax	Yes	0.75	0.000	1.90	0.33	0.00	0.081	0.000	7.723	0.00	5.67
105.00	Safety Cable	Yes	4.25	0.000	0.38	1.33	0.00	0.081	0.000	7.790	0.00	18.29
105.00	Step bolts (ladder)	Yes	4.25	0.000	0.63	1.42	0.00	0.081	0.000	7.790	0.00	23.68
105.00	1 1/4" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	7.790	0.00	66.17
105.00	1/2" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	7.790	0.00	23.93
105.00	5/16" Coax	Yes	4.25	0.000	1.90	1.87	0.00	0.081	0.000	7.790	0.00	32.32
110.00	Safety Cable	Yes	5.00	0.000	0.38	1.57	0.00	0.084	0.000	7.866	0.00	21.68
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.67	0.00	0.084	0.000	7.866	0.00	28.04
110.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	7.866	0.00	78.20
110.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	7.866	0.00	28.35
110.00	5/16" Coax	Yes	5.00	0.000	1.90	2.20	0.00	0.084	0.000	7.866	0.00	38.27
115.00	Safety Cable	Yes	5.00	0.000	0.38	1.58	0.00	0.087	0.000	7.939	0.00	21.85
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.68	0.00	0.087	0.000	7.939	0.00	28.21
115.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.939	0.00	78.53
115.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	7.939	0.00	28.54
115.00	5/16" Coax	Yes	5.00	0.000	1.90	2.21	0.00	0.087	0.000	7.939	0.00	38.50
120.00	Safety Cable	Yes	5.00	0.000	0.38	1.58	0.00	0.090	0.000	8.010	0.00	22.01
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.69	0.00	0.090	0.000	8.010	0.00	28.38
120.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	8.010	0.00	78.86
120.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	8.010	0.00	28.73
120.00	5/16" Coax	Yes	5.00	0.000	1.90	2.22	0.00	0.090	0.000	8.010	0.00	38.72
125.00	Safety Cable	Yes	5.00	0.000	0.38	1.59	0.00	0.094	0.000	8.079	0.00	22.17
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.69	0.00	0.094	0.000	8.079	0.00	28.54
125.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	8.079	0.00	79.17
125.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	8.079	0.00	28.91
125.00	5/16" Coax	Yes	5.00	0.000	1.90	2.22	0.00	0.094	0.000	8.079	0.00	38.94
129.00	Safety Cable	Yes	4.00	0.000	0.38	1.27	0.00	0.097	0.000	8.132	0.00	17.83
129.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	1.36	0.00	0.097	0.000	8.132	0.00	22.93
129.00	1 1/4" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	8.132	0.00	63.53
129.00	1/2" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	8.132	0.00	23.24
129.00	5/16" Coax	Yes	4.00	0.000	1.90	1.78	0.00	0.097	0.000	8.132	0.00	31.29
130.00	Safety Cable	Yes	1.00	0.000	0.38	0.32	0.00	0.100	0.000	8.145	0.00	4.46
130.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.34	0.00	0.100	0.000	8.145	0.00	5.74
130.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	8.145	0.00	15.89
130.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	8.145	0.00	5.82
130.00	5/16" Coax	Yes	1.00	0.000	1.90	0.45	0.00	0.100	0.000	8.145	0.00	7.83



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 23

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
135.00	Safety Cable	Yes	5.00	0.000	0.38	1.60	0.00	0.102	1.007	8.210	0.00	22.46
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.70	0.00	0.102	1.007	8.210	0.00	28.85
135.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	8.210	0.00	79.76
135.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	8.210	0.00	29.25
135.00	5/16" Coax	Yes	5.00	0.000	1.90	2.23	0.00	0.102	1.007	8.210	0.00	39.35
138.00	Safety Cable	Yes	3.00	0.000	0.38	0.96	0.00	0.106	1.018	8.247	0.00	13.53
138.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	1.02	0.00	0.106	1.018	8.247	0.00	17.36
138.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	8.247	0.00	47.96
138.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	8.247	0.00	17.61
138.00	5/16" Coax	Yes	3.00	0.000	1.90	1.34	0.00	0.106	1.018	8.247	0.00	23.68
140.00	Safety Cable	Yes	2.00	0.000	0.38	0.64	0.00	0.108	1.025	8.272	0.00	9.04
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.68	0.00	0.108	1.025	8.272	0.00	11.60
140.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	8.272	0.00	32.02
140.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	8.272	0.00	11.77
140.00	5/16" Coax	Yes	2.00	0.000	1.90	0.89	0.00	0.108	1.025	8.272	0.00	15.82
145.00	Safety Cable	Yes	5.00	0.000	0.38	1.61	0.00	0.112	1.036	8.333	0.00	22.74
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.71	0.00	0.112	1.036	8.333	0.00	29.14
145.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	8.333	0.00	80.32
145.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	8.333	0.00	29.58
145.00	5/16" Coax	Yes	5.00	0.000	1.90	2.24	0.00	0.112	1.036	8.333	0.00	39.74
146.00	Safety Cable	Yes	1.00	0.000	0.38	0.32	0.00	0.115	1.046	8.345	0.00	4.55
146.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.34	0.00	0.115	1.046	8.345	0.00	5.83
146.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	8.345	0.00	16.07
146.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	8.345	0.00	5.92
146.00	5/16" Coax	Yes	1.00	0.000	1.90	0.45	0.00	0.115	1.046	8.345	0.00	7.96
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.64	0.00	0.041	0.000	8.369	0.00	9.13
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.69	0.00	0.041	0.000	8.369	0.00	11.69
149.00	Safety Cable	Yes	1.00	0.000	0.38	0.32	0.00	0.041	0.000	8.381	0.00	4.57
149.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.34	0.00	0.041	0.000	8.381	0.00	5.85
<b>Totals:</b>											<b>0.0</b>	<b>9,241.4</b>

## Calculated Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 23

**Dead Load Factor** 1.20  
**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-83.82	-10.35	0.00	-1098.4	0.00	1098.49	4419.23	2209.62	10644.5	5330.19	0.00	0.000	0.000	0.225
5.00	-81.46	-10.25	0.00	-1046.7	0.00	1046.72	4369.18	2184.59	10305.9	5160.65	0.03	-0.051	0.000	0.221
10.00	-79.09	-10.15	0.00	-995.47	0.00	995.47	4317.41	2158.71	9968.41	4991.62	0.11	-0.102	0.000	0.218
15.00	-76.72	-10.04	0.00	-944.75	0.00	944.75	4263.92	2131.96	9632.14	4823.23	0.24	-0.154	0.000	0.214
20.00	-74.38	-9.92	0.00	-894.55	0.00	894.55	4208.71	2104.36	9297.40	4655.61	0.43	-0.206	0.000	0.210
25.00	-72.05	-9.80	0.00	-844.94	0.00	844.94	4151.78	2075.89	8964.46	4488.89	0.68	-0.259	0.000	0.206
30.00	-69.76	-9.67	0.00	-795.96	0.00	795.96	4093.13	2046.56	8633.57	4323.20	0.98	-0.313	0.000	0.201
35.00	-67.48	-9.53	0.00	-747.63	0.00	747.63	4032.76	2016.38	8305.00	4158.67	1.33	-0.367	0.000	0.197
40.00	-65.24	-9.39	0.00	-699.99	0.00	699.99	3970.67	1985.33	7978.99	3995.42	1.75	-0.421	0.000	0.192
45.00	-63.03	-9.23	0.00	-653.05	0.00	653.05	3906.85	1953.43	7655.81	3833.59	2.22	-0.476	0.000	0.187
47.25	-62.05	-9.16	0.00	-632.30	0.00	632.30	3877.58	1938.79	7511.37	3761.27	2.45	-0.501	0.000	0.184
50.00	-60.32	-9.08	0.00	-607.10	0.00	607.10	3841.32	1920.66	7335.71	3673.31	2.75	-0.532	0.000	0.181
53.25	-58.30	-8.96	0.00	-577.60	0.00	577.60	2984.31	1492.16	5695.15	2851.81	3.12	-0.568	0.000	0.222
55.00	-57.61	-8.93	0.00	-561.91	0.00	561.91	2968.67	1484.33	5613.44	2810.89	3.34	-0.588	0.000	0.219
60.00	-55.66	-8.77	0.00	-517.25	0.00	517.25	2922.80	1461.40	5380.87	2694.44	3.99	-0.651	0.000	0.211
63.00	-54.40	-8.61	0.00	-490.94	0.00	490.94	2894.46	1447.23	5242.03	2624.91	4.41	-0.690	0.000	0.206
64.50	-53.67	-8.52	0.00	-478.02	0.00	478.02	2880.06	1440.03	5172.83	2590.26	4.63	-0.709	0.000	0.203
65.00	-53.47	-8.53	0.00	-473.76	0.00	473.76	2875.22	1437.61	5149.80	2578.73	4.70	-0.715	0.000	0.202
70.00	-51.60	-8.37	0.00	-431.13	0.00	431.13	2825.92	1412.96	4920.48	2463.90	5.48	-0.778	0.000	0.193
75.00	-49.76	-8.22	0.00	-389.26	0.00	389.26	2774.89	1387.45	4693.17	2350.07	6.33	-0.839	0.000	0.184
80.00	-47.95	-8.06	0.00	-348.18	0.00	348.18	2722.15	1361.08	4468.13	2237.39	7.24	-0.899	0.000	0.173
85.00	-46.18	-7.90	0.00	-307.89	0.00	307.89	2667.69	1333.84	4245.61	2125.96	8.22	-0.957	0.000	0.162
90.00	-44.44	-7.73	0.00	-268.41	0.00	268.41	2611.50	1305.75	4025.88	2015.93	9.25	-1.014	0.000	0.150
95.00	-42.73	-7.55	0.00	-229.74	0.00	229.74	2553.60	1276.80	3809.20	1907.43	10.34	-1.067	0.000	0.137
96.00	-39.01	-6.73	0.00	-222.19	0.00	222.19	2541.81	1270.90	3766.25	1885.92	10.57	-1.078	0.000	0.133
98.00	-34.09	-6.10	0.00	-208.73	0.00	208.73	2518.03	1259.01	3680.75	1843.11	11.02	-1.099	0.000	0.127
100.00	-33.27	-6.02	0.00	-196.53	0.00	196.53	2493.97	1246.99	3595.81	1800.58	11.49	-1.119	0.000	0.123
100.75	-32.96	-6.01	0.00	-192.02	0.00	192.02	1861.03	930.51	2717.30	1360.67	11.66	-1.127	0.000	0.159
105.00	-31.85	-5.87	0.00	-166.49	0.00	166.49	1828.27	914.13	2591.91	1297.88	12.68	-1.167	0.000	0.146
110.00	-30.56	-5.70	0.00	-137.16	0.00	137.16	1788.13	894.06	2445.78	1224.71	13.94	-1.220	0.000	0.129
115.00	-29.31	-5.54	0.00	-108.65	0.00	108.65	1746.27	873.13	2301.39	1152.40	15.24	-1.267	0.000	0.111
120.00	-19.30	-3.84	0.00	-80.96	0.00	80.96	1702.69	851.34	2158.99	1081.10	16.59	-1.308	0.000	0.086
125.00	-18.19	-3.67	0.00	-61.75	0.00	61.75	1657.39	828.70	2018.85	1010.92	17.98	-1.342	0.000	0.072
129.00	-17.33	-3.54	0.00	-47.05	0.00	47.05	1619.91	809.96	1908.53	955.68	19.11	-1.366	0.000	0.060
129.00	-17.33	-3.54	0.00	-47.05	0.00	47.05	1091.97	545.98	1287.15	644.53	19.11	-1.366	0.000	0.089
130.00	-17.13	-3.51	0.00	-43.51	0.00	43.51	1086.84	543.42	1270.26	636.07	19.40	-1.371	0.000	0.084
135.00	-16.20	-3.35	0.00	-25.96	0.00	25.96	1060.16	530.08	1186.17	593.97	20.85	-1.400	0.000	0.059
138.00	-8.64	-2.00	0.00	-15.91	0.00	15.91	1043.32	521.66	1136.10	568.89	21.74	-1.412	0.000	0.036
140.00	-8.31	-1.94	0.00	-11.91	0.00	11.91	1031.75	515.88	1102.91	552.27	22.33	-1.417	0.000	0.030
145.00	-7.51	-1.78	0.00	-2.21	0.00	2.21	1001.63	500.82	1020.73	511.12	23.82	-1.425	0.000	0.012
146.00	-0.27	-0.16	0.00	-0.44	0.00	0.44	995.40	497.70	1004.44	502.97	24.12	-1.425	0.000	0.001
148.00	-0.12	-0.03	0.00	-0.03	0.00	0.03	982.73	491.37	972.05	486.75	24.72	-1.425	0.000	0.000
149.00	0.00	-0.03	0.00	0.00	0.00	0.00	976.29	488.15	955.94	478.68	25.01	-1.425	0.000	0.000

## Seismic Segment Forces (Factored)

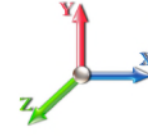
<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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**Load Case:** 1.2D + 1.0E

**Iterations** 21

<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.22	<b>Ss</b> 0.20	
<b>Dead Load Factor</b> 1.20	<b>Seismic Load Factor</b> 1.00	<b>Sd1</b> 0.10	<b>S1</b> 0.07
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.38	<b>SA</b> 0.04	<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.01	0.00	0.00	
5.00		1173.1	0.00	0.04	0.02	27.48	
10.00		1148.7	0.01	0.06	0.03	36.25	
15.00		1124.3	0.02	0.06	0.04	40.01	
20.00		1099.9	0.04	0.07	0.04	41.46	
25.00		1075.5	0.06	0.07	0.04	41.91	
30.00		1051.1	0.08	0.07	0.04	42.01	
35.00		1026.7	0.11	0.07	0.04	42.04	
40.00		1002.3	0.14	0.07	0.03	41.95	
45.00		977.93	0.18	0.07	0.03	41.49	
47.25	Bot - Section 2	432.11	0.20	0.06	0.02	18.35	
50.00		962.34	0.22	0.06	0.02	40.61	
53.25	Top - Section 1	1119.8	0.25	0.06	0.02	46.23	
55.00		272.76	0.26	0.05	0.02	11.03	
60.00		765.57	0.31	0.04	0.01	27.82	
63.00	Appurtenance(s)	489.58	0.34	0.03	0.01	15.85	
64.50	Appurtenance(s)	272.05	0.36	0.03	0.01	8.14	
65.00		73.61	0.37	0.03	0.01	2.14	
70.00		724.91	0.42	0.01	0.01	13.06	
75.00		704.57	0.49	-0.01	0.01	2.71	
80.00		684.24	0.55	-0.03	0.01	-8.01	
85.00		663.90	0.62	-0.06	0.02	-17.22	
90.00		643.57	0.70	-0.09	0.03	-23.43	
95.00		623.23	0.77	-0.11	0.05	-25.94	
96.00	Bot - Section 3	1055.3	0.79	-0.11	0.05	-44.28	
98.00	Appurtenance(s)	2777.5	0.82	-0.12	0.06	-116.52	
100.00		432.73	0.86	-0.12	0.07	-17.74	
100.75	Top - Section 2	160.76	0.87	-0.12	0.08	-6.49	
105.00		401.55	0.94	-0.12	0.11	-13.84	
110.00		457.36	1.03	-0.10	0.15	-10.13	
115.00		441.09	1.13	-0.05	0.21	-1.82	
120.00	Appurtenance(s)	4276.5	1.23	0.03	0.28	83.87	
125.00		408.56	1.33	0.17	0.37	20.05	
129.00	Top - Section 3	315.13	1.42	0.32	0.45	24.21	
130.00		57.77	1.44	0.37	0.48	4.87	
135.00		281.54	1.55	0.64	0.61	35.35	
138.00	Appurtenance(s)	2974.3	1.62	0.85	0.70	455.56	
140.00		106.27	1.67	1.01	0.77	18.36	
145.00		257.13	1.79	1.50	0.96	58.18	
146.00	Appurtenance(s)	3064.2	1.82	1.61	1.00	728.37	
148.00	Appurtenance(s)	212.46	1.86	1.85	1.09	55.53	
149.00		48.50	1.89	1.98	1.14	13.27	
<b>Totals:</b>		<b>35,841.0</b>				<b>1,752.7</b>	<b>Total Wind: 36,795.8</b>

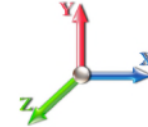
Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

## Calculated Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 43



<b>Load Case:</b> 1.2D + 1.0E		<b>Iterations</b> 21
<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.22	<b>Ss</b> 0.20
<b>Dead Load Factor</b> 1.20	<b>Seismic Load Factor</b> 1.00	<b>S1</b> 0.07
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.38	<b>SA</b> 0.04
	<b>Seismic Importance Factor</b> 1.00	



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-49.13	-2.04	0.00	-240.71	0.00	240.71	4419.23	2209.62	10644.5	5330.19	0.00	0.00	0.00	0.056
5.00	-47.48	-2.02	0.00	-230.50	0.00	230.50	4369.18	2184.59	10305.9	5160.65	0.01	-0.01	0.056	
10.00	-45.85	-2.00	0.00	-220.38	0.00	220.38	4317.41	2158.71	9968.41	4991.62	0.02	-0.02	0.055	
15.00	-44.26	-1.96	0.00	-210.41	0.00	210.41	4263.92	2131.96	9632.14	4823.23	0.05	-0.03	0.054	
20.00	-42.69	-1.93	0.00	-200.58	0.00	200.58	4208.71	2104.36	9297.40	4655.61	0.10	-0.05	0.053	
25.00	-41.15	-1.90	0.00	-190.93	0.00	190.93	4151.78	2075.89	8964.46	4488.89	0.15	-0.06	0.052	
30.00	-39.65	-1.86	0.00	-181.45	0.00	181.45	4093.13	2046.56	8633.57	4323.20	0.22	-0.07	0.052	
35.00	-38.17	-1.82	0.00	-172.15	0.00	172.15	4032.76	2016.38	8305.00	4158.67	0.30	-0.08	0.051	
40.00	-36.72	-1.79	0.00	-163.03	0.00	163.03	3970.67	1985.33	7978.99	3995.42	0.39	-0.09	0.050	
45.00	-35.30	-1.75	0.00	-154.08	0.00	154.08	3906.85	1953.43	7655.81	3833.59	0.50	-0.11	0.049	
47.25	-34.67	-1.74	0.00	-150.15	0.00	150.15	3877.58	1938.79	7511.37	3761.27	0.55	-0.11	0.049	
50.00	-33.38	-1.70	0.00	-145.37	0.00	145.37	3841.32	1920.66	7335.71	3673.31	0.62	-0.12	0.048	
53.25	-31.88	-1.65	0.00	-139.86	0.00	139.86	2984.31	1492.16	5695.15	2851.81	0.70	-0.13	0.060	
55.00	-31.46	-1.64	0.00	-136.97	0.00	136.97	2968.67	1484.33	5613.44	2810.89	0.75	-0.13	0.059	
60.00	-30.30	-1.62	0.00	-128.75	0.00	128.75	2922.80	1461.40	5380.87	2694.44	0.90	-0.15	0.058	
63.00	-29.56	-1.61	0.00	-123.89	0.00	123.89	2894.46	1447.23	5242.03	2624.91	1.00	-0.16	0.057	
64.50	-29.16	-1.60	0.00	-121.48	0.00	121.48	2880.06	1440.03	5172.83	2590.26	1.05	-0.16	0.057	
65.00	-29.05	-1.60	0.00	-120.68	0.00	120.68	2875.22	1437.61	5149.80	2578.73	1.06	-0.17	0.057	
70.00	-27.94	-1.59	0.00	-112.68	0.00	112.68	2825.92	1412.96	4920.48	2463.90	1.25	-0.18	0.056	
75.00	-26.85	-1.59	0.00	-104.72	0.00	104.72	2774.89	1387.45	4693.17	2350.07	1.45	-0.20	0.054	
80.00	-25.78	-1.60	0.00	-96.75	0.00	96.75	2722.15	1361.08	4468.13	2237.39	1.66	-0.21	0.053	
85.00	-24.74	-1.60	0.00	-88.76	0.00	88.76	2667.69	1333.84	4245.61	2125.96	1.90	-0.23	0.051	
90.00	-23.72	-1.60	0.00	-80.76	0.00	80.76	2611.50	1305.75	4025.88	2015.93	2.15	-0.25	0.049	
95.00	-22.73	-1.60	0.00	-72.75	0.00	72.75	2553.60	1276.80	3809.20	1907.43	2.42	-0.26	0.047	
96.00	-21.41	-1.60	0.00	-71.15	0.00	71.15	2541.81	1270.90	3766.25	1885.92	2.47	-0.27	0.046	
98.00	-17.98	-1.58	0.00	-67.95	0.00	67.95	2518.03	1259.01	3680.75	1843.11	2.59	-0.27	0.044	
100.00	-17.38	-1.58	0.00	-64.78	0.00	64.78	2493.97	1246.99	3595.81	1800.58	2.70	-0.28	0.043	
100.75	-17.16	-1.58	0.00	-63.60	0.00	63.60	1861.03	930.51	2717.30	1360.67	2.75	-0.28	0.056	
105.00	-16.51	-1.59	0.00	-56.86	0.00	56.86	1828.27	914.13	2591.91	1297.88	3.01	-0.30	0.053	
110.00	-15.77	-1.59	0.00	-48.94	0.00	48.94	1788.13	894.06	2445.78	1224.71	3.33	-0.32	0.049	
115.00	-15.05	-1.59	0.00	-41.01	0.00	41.01	1746.27	873.13	2301.39	1152.40	3.67	-0.33	0.044	
120.00	-9.72	-1.47	0.00	-33.07	0.00	33.07	1702.69	851.34	2158.99	1081.10	4.02	-0.35	0.036	
125.00	-9.12	-1.45	0.00	-25.71	0.00	25.71	1657.39	828.70	2018.85	1010.92	4.40	-0.36	0.031	
129.00	-8.65	-1.43	0.00	-19.90	0.00	19.90	1619.91	809.96	1908.53	955.68	4.71	-0.37	0.026	
129.00	-8.65	-1.43	0.00	-19.90	0.00	19.90	1091.97	545.98	1287.15	644.53	4.71	-0.37	0.039	
130.00	-8.56	-1.42	0.00	-18.47	0.00	18.47	1086.84	543.42	1270.26	636.07	4.78	-0.38	0.037	
135.00	-8.11	-1.38	0.00	-11.37	0.00	11.37	1060.16	530.08	1186.17	593.97	5.18	-0.39	0.027	
138.00	-4.48	-0.90	0.00	-7.21	0.00	7.21	1043.32	521.66	1136.10	568.89	5.43	-0.39	0.017	
140.00	-4.34	-0.89	0.00	-5.41	0.00	5.41	1031.75	515.88	1102.91	552.27	5.60	-0.40	0.014	
145.00	-4.00	-0.82	0.00	-0.98	0.00	0.98	1001.63	500.82	1020.73	511.12	6.01	-0.40	0.006	
146.00	-0.32	-0.07	0.00	-0.16	0.00	0.16	995.40	497.70	1004.44	502.97	6.10	-0.40	0.001	
148.00	-0.06	-0.01	0.00	-0.01	0.00	0.01	982.73	491.37	972.05	486.75	6.26	-0.40	0.000	
149.00	0.00	-0.01	0.00	0.00	0.00	0.00	976.29	488.15	955.94	478.68	6.35	-0.40	0.000	

## Seismic Segment Forces (Factored)

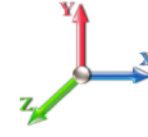
<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 44



**Load Case:** 0.9D + 1.0E

**Iterations** 21

<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.22	<b>Ss</b> 0.20	
<b>Dead Load Factor</b> 0.90	<b>Seismic Load Factor</b> 1.00	<b>Sd1</b> 0.10	<b>S1</b> 0.07
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.38	<b>SA</b> 0.04	<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	a	b	c	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.01	0.00	0.00	
5.00		1173.1	0.00	0.04	0.02	27.48	
10.00		1148.7	0.01	0.06	0.03	36.25	
15.00		1124.3	0.02	0.06	0.04	40.01	
20.00		1099.9	0.04	0.07	0.04	41.46	
25.00		1075.5	0.06	0.07	0.04	41.91	
30.00		1051.1	0.08	0.07	0.04	42.01	
35.00		1026.7	0.11	0.07	0.04	42.04	
40.00		1002.3	0.14	0.07	0.03	41.95	
45.00		977.93	0.18	0.07	0.03	41.49	
47.25	Bot - Section 2	432.11	0.20	0.06	0.02	18.35	
50.00		962.34	0.22	0.06	0.02	40.61	
53.25	Top - Section 1	1119.8	0.25	0.06	0.02	46.23	
55.00		272.76	0.26	0.05	0.02	11.03	
60.00		765.57	0.31	0.04	0.01	27.82	
63.00	Appurtenance(s)	489.58	0.34	0.03	0.01	15.85	
64.50	Appurtenance(s)	272.05	0.36	0.03	0.01	8.14	
65.00		73.61	0.37	0.03	0.01	2.14	
70.00		724.91	0.42	0.01	0.01	13.06	
75.00		704.57	0.49	-0.01	0.01	2.71	
80.00		684.24	0.55	-0.03	0.01	-8.01	
85.00		663.90	0.62	-0.06	0.02	-17.22	
90.00		643.57	0.70	-0.09	0.03	-23.43	
95.00		623.23	0.77	-0.11	0.05	-25.94	
96.00	Bot - Section 3	1055.3	0.79	-0.11	0.05	-44.28	
98.00	Appurtenance(s)	2777.5	0.82	-0.12	0.06	-116.52	
100.00		432.73	0.86	-0.12	0.07	-17.74	
100.75	Top - Section 2	160.76	0.87	-0.12	0.08	-6.49	
105.00		401.55	0.94	-0.12	0.11	-13.84	
110.00		457.36	1.03	-0.10	0.15	-10.13	
115.00		441.09	1.13	-0.05	0.21	-1.82	
120.00	Appurtenance(s)	4276.5	1.23	0.03	0.28	83.87	
125.00		408.56	1.33	0.17	0.37	20.05	
129.00	Top - Section 3	315.13	1.42	0.32	0.45	24.21	
130.00		57.77	1.44	0.37	0.48	4.87	
135.00		281.54	1.55	0.64	0.61	35.35	
138.00	Appurtenance(s)	2974.3	1.62	0.85	0.70	455.56	
140.00		106.27	1.67	1.01	0.77	18.36	
145.00		257.13	1.79	1.50	0.96	58.18	
146.00	Appurtenance(s)	3064.2	1.82	1.61	1.00	728.37	
148.00	Appurtenance(s)	212.46	1.86	1.85	1.09	55.53	
149.00		48.50	1.89	1.98	1.14	13.27	
<b>Totals:</b>		<b>35,841.0</b>				<b>1,752.7</b>	<b>Total Wind: 36,795.8</b>

Seismic Base Shear is Less Than 50% of Wind Force - An Analysis is NOT Required

## Calculated Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 45



**Load Case:** 0.9D + 1.0E

**Iterations** 21

<b>Gust Response Factor</b> 1.10	<b>Sds</b> 0.22	<b>Ss</b> 0.20	
<b>Dead Load Factor</b> 0.90	<b>Seismic Load Factor</b> 1.00	<b>Sd1</b> 0.10	<b>S1</b> 0.07
<b>Wind Load Factor</b> 0.00	<b>Structure Frequency (f1)</b> 0.38	<b>SA</b> 0.04	<b>Seismic Importance Factor</b> 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-36.85	-2.04	0.00	-238.21	0.00	238.21	4419.23	2209.62	10644.5	5330.19	0.00	0.00	0.00	0.053
5.00	-35.61	-2.02	0.00	-228.01	0.00	228.01	4369.18	2184.59	10305.9	5160.65	0.01	-0.01	0.00	0.052
10.00	-34.39	-1.99	0.00	-217.91	0.00	217.91	4317.41	2158.71	9968.41	4991.62	0.02	-0.02	0.00	0.052
15.00	-33.19	-1.96	0.00	-207.96	0.00	207.96	4263.92	2131.96	9632.14	4823.23	0.05	-0.03	0.00	0.051
20.00	-32.02	-1.92	0.00	-198.18	0.00	198.18	4208.71	2104.36	9297.40	4655.61	0.09	-0.05	0.00	0.050
25.00	-30.86	-1.88	0.00	-188.57	0.00	188.57	4151.78	2075.89	8964.46	4488.89	0.15	-0.06	0.00	0.049
30.00	-29.73	-1.85	0.00	-179.15	0.00	179.15	4093.13	2046.56	8633.57	4323.20	0.21	-0.07	0.00	0.049
35.00	-28.63	-1.81	0.00	-169.92	0.00	169.92	4032.76	2016.38	8305.00	4158.67	0.29	-0.08	0.00	0.048
40.00	-27.54	-1.77	0.00	-160.87	0.00	160.87	3970.67	1985.33	7978.99	3995.42	0.38	-0.09	0.00	0.047
45.00	-26.47	-1.73	0.00	-152.01	0.00	152.01	3906.85	1953.43	7655.81	3833.59	0.49	-0.11	0.00	0.046
47.25	-26.00	-1.72	0.00	-148.11	0.00	148.11	3877.58	1938.79	7511.37	3761.27	0.54	-0.11	0.00	0.046
50.00	-25.03	-1.68	0.00	-143.39	0.00	143.39	3841.32	1920.66	7335.71	3673.31	0.61	-0.12	0.00	0.046
53.25	-23.91	-1.63	0.00	-137.94	0.00	137.94	2984.31	1492.16	5695.15	2851.81	0.69	-0.13	0.00	0.056
55.00	-23.60	-1.62	0.00	-135.08	0.00	135.08	2968.67	1484.33	5613.44	2810.89	0.74	-0.13	0.00	0.056
60.00	-22.72	-1.60	0.00	-126.96	0.00	126.96	2922.80	1461.40	5380.87	2694.44	0.89	-0.15	0.00	0.055
63.00	-22.17	-1.58	0.00	-122.17	0.00	122.17	2894.46	1447.23	5242.03	2624.91	0.98	-0.16	0.00	0.054
64.50	-21.87	-1.58	0.00	-119.79	0.00	119.79	2880.06	1440.03	5172.83	2590.26	1.03	-0.16	0.00	0.054
65.00	-21.79	-1.58	0.00	-119.00	0.00	119.00	2875.22	1437.61	5149.80	2578.73	1.05	-0.16	0.00	0.054
70.00	-20.95	-1.57	0.00	-111.11	0.00	111.11	2825.92	1412.96	4920.48	2463.90	1.23	-0.18	0.00	0.053
75.00	-20.13	-1.57	0.00	-103.27	0.00	103.27	2774.89	1387.45	4693.17	2350.07	1.43	-0.20	0.00	0.051
80.00	-19.33	-1.57	0.00	-95.43	0.00	95.43	2722.15	1361.08	4468.13	2237.39	1.64	-0.21	0.00	0.050
85.00	-18.55	-1.57	0.00	-87.57	0.00	87.57	2667.69	1333.84	4245.61	2125.96	1.87	-0.23	0.00	0.048
90.00	-17.79	-1.58	0.00	-79.71	0.00	79.71	2611.50	1305.75	4025.88	2015.93	2.12	-0.24	0.00	0.046
95.00	-17.04	-1.57	0.00	-71.83	0.00	71.83	2553.60	1276.80	3809.20	1907.43	2.39	-0.26	0.00	0.044
96.00	-16.06	-1.57	0.00	-70.26	0.00	70.26	2541.81	1270.90	3766.25	1885.92	2.44	-0.26	0.00	0.044
98.00	-13.48	-1.56	0.00	-67.11	0.00	67.11	2518.03	1259.01	3680.75	1843.11	2.55	-0.27	0.00	0.042
100.00	-13.04	-1.56	0.00	-63.99	0.00	63.99	2493.97	1246.99	3595.81	1800.58	2.67	-0.28	0.00	0.041
100.75	-12.87	-1.56	0.00	-62.82	0.00	62.82	1861.03	930.51	2717.30	1360.67	2.71	-0.28	0.00	0.053
105.00	-12.38	-1.56	0.00	-56.18	0.00	56.18	1828.27	914.13	2591.91	1297.88	2.97	-0.29	0.00	0.050
110.00	-11.83	-1.56	0.00	-48.37	0.00	48.37	1788.13	894.06	2445.78	1224.71	3.28	-0.31	0.00	0.046
115.00	-11.28	-1.56	0.00	-40.56	0.00	40.56	1746.27	873.13	2301.39	1152.40	3.62	-0.33	0.00	0.042
120.00	-7.29	-1.46	0.00	-32.74	0.00	32.74	1702.69	851.34	2158.99	1081.10	3.97	-0.34	0.00	0.035
125.00	-6.84	-1.44	0.00	-25.45	0.00	25.45	1657.39	828.70	2018.85	1010.92	4.34	-0.36	0.00	0.029
129.00	-6.49	-1.41	0.00	-19.70	0.00	19.70	1619.91	809.96	1908.53	955.68	4.65	-0.37	0.00	0.025
129.00	-6.49	-1.41	0.00	-19.70	0.00	19.70	1091.97	545.98	1287.15	644.53	4.65	-0.37	0.00	0.037
130.00	-6.42	-1.41	0.00	-18.29	0.00	18.29	1086.84	543.42	1270.26	636.07	4.72	-0.37	0.00	0.035
135.00	-6.08	-1.37	0.00	-11.26	0.00	11.26	1060.16	530.08	1186.17	593.97	5.12	-0.38	0.00	0.025
138.00	-3.36	-0.90	0.00	-7.15	0.00	7.15	1043.32	521.66	1136.10	568.89	5.36	-0.39	0.00	0.016
140.00	-3.25	-0.88	0.00	-5.36	0.00	5.36	1031.75	515.88	1102.91	552.27	5.52	-0.39	0.00	0.013
145.00	-3.00	-0.82	0.00	-0.97	0.00	0.97	1001.63	500.82	1020.73	511.12	5.94	-0.39	0.00	0.005
146.00	-0.24	-0.07	0.00	-0.15	0.00	0.15	995.40	497.70	1004.44	502.97	6.02	-0.39	0.00	0.001
148.00	-0.04	-0.01	0.00	-0.01	0.00	0.01	982.73	491.37	972.05	486.75	6.18	-0.39	0.00	0.000
149.00	0.00	-0.01	0.00	0.00	0.00	0.00	976.29	488.15	955.94	478.68	6.27	-0.39	0.00	0.000

## Wind Loading - Shaft

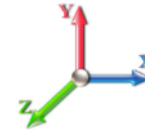
<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 22

**Dead Load Factor** 1.00  
**Wind Load Factor** 1.00



Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	7.442	8.19	275.75	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	7.442	8.19	270.11	0.650	0.000	5.00	24.670	16.04	131.3	0.0	1173.1
10.00		1.00	0.85	7.442	8.19	264.47	0.650	0.000	5.00	24.160	15.70	128.6	0.0	1148.7
15.00		1.00	0.86	7.534	8.29	260.42	0.650	0.000	5.00	23.650	15.37	127.4	0.0	1124.3
20.00		1.00	0.91	7.978	8.78	262.15	0.650	0.000	5.00	23.140	15.04	132.0	0.0	1099.9
25.00		1.00	0.95	8.345	9.18	262.13	0.650	0.000	5.00	22.630	14.71	135.0	0.0	1075.5
30.00		1.00	0.99	8.659	9.53	260.95	0.650	0.000	5.00	22.120	14.38	137.0	0.0	1051.1
35.00		1.00	1.02	8.936	9.83	258.91	0.650	0.000	5.00	21.611	14.05	138.1	0.0	1026.7
40.00		1.00	1.05	9.184	10.10	256.21	0.650	0.000	5.00	21.101	13.72	138.6	0.0	1002.3
45.00		1.00	1.07	9.410	10.35	252.99	0.650	0.000	5.00	20.591	13.38	138.5	0.0	977.9
47.25	Bot - Section 2	1.00	1.09	9.505	10.46	251.39	0.650	0.000	2.25	9.100	5.91	61.8	0.0	432.1
50.00		1.00	1.10	9.616	10.58	249.34	0.650	0.000	2.75	11.127	7.23	76.5	0.0	962.3
53.25	Top - Section 1	1.00	1.11	9.742	10.72	246.77	0.650	0.000	3.25	12.952	8.42	90.2	0.0	1119.9
55.00		1.00	1.12	9.807	10.79	248.70	0.650	0.000	1.75	6.885	4.48	48.3	0.0	272.8
60.00		1.00	1.14	9.986	10.98	244.42	0.650	0.000	5.00	19.327	12.56	138.0	0.0	765.6
63.00	Appurtenance(s)	1.00	1.15	10.087	11.10	241.71	0.650	0.000	3.00	11.351	7.38	81.9	0.0	449.6
64.50	Appurtenance(s)	1.00	1.16	10.136	11.15	240.33	0.650	0.000	1.50	5.607	3.64	40.6	0.0	222.0
65.00		1.00	1.16	10.153	11.17	239.86	0.650	0.000	0.50	1.859	1.21	13.5	0.0	73.6
70.00		1.00	1.18	10.310	11.34	235.08	0.650	0.000	5.00	18.307	11.90	135.0	0.0	724.9
75.00		1.00	1.19	10.459	11.50	230.08	0.650	0.000	5.00	17.797	11.57	133.1	0.0	704.6
80.00		1.00	1.21	10.600	11.66	224.90	0.650	0.000	5.00	17.288	11.24	131.0	0.0	684.2
85.00		1.00	1.23	10.734	11.81	219.54	0.650	0.000	5.00	16.778	10.91	128.8	0.0	663.9
90.00		1.00	1.24	10.863	11.95	214.04	0.650	0.000	5.00	16.268	10.57	126.4	0.0	643.6
95.00		1.00	1.25	10.986	12.08	208.39	0.650	0.000	5.00	15.758	10.24	123.8	0.0	623.2
96.00	Bot - Section 3	1.00	1.26	11.010	12.11	207.25	0.650	0.000	1.00	3.090	2.01	24.3	0.0	122.2
98.00	Appurtenance(s)	1.00	1.26	11.057	12.16	204.95	0.650	0.000	2.00	6.204	4.03	49.0	0.0	438.6
100.00		1.00	1.27	11.104	12.21	202.62	0.650	0.000	2.00	6.123	3.98	48.6	0.0	432.7
100.75	Top - Section 2	1.00	1.27	11.121	12.23	201.74	0.650	0.000	0.75	2.275	1.48	18.1	0.0	160.8
105.00		1.00	1.28	11.218	12.34	199.60	0.650	0.000	4.25	12.674	8.24	101.7	0.0	401.5
110.00		1.00	1.29	11.327	12.46	193.61	0.650	0.000	5.00	14.440	9.39	116.9	0.0	457.4
115.00		1.00	1.31	11.432	12.58	187.52	0.650	0.000	5.00	13.930	9.05	113.9	0.0	441.1
120.00	Appurtenance(s)	1.00	1.32	11.534	12.69	181.33	0.650	0.000	5.00	13.420	8.72	110.7	0.0	424.8
125.00		1.00	1.33	11.633	12.80	175.05	0.650	0.000	5.00	12.910	8.39	107.4	0.0	408.6
129.00	Top - Section 3	1.00	1.34	11.710	12.88	169.97	0.650	0.000	4.00	9.961	6.47	83.4	0.0	315.1
130.00		1.00	1.34	11.729	12.90	168.04	0.650	0.000	1.00	2.430	1.58	20.4	0.0	57.8
135.00		1.00	1.35	11.822	13.00	161.60	0.655 *	0.000	5.00	11.844	7.75	100.8	0.0	281.5
138.00	Appurtenance(s)	1.00	1.36	11.876	13.06	157.69	0.662 *	0.000	3.00	6.862	4.54	59.3	0.0	163.1
140.00		1.00	1.36	11.912	13.10	155.08	0.666 *	0.000	2.00	4.472	2.98	39.1	0.0	106.3
145.00		1.00	1.37	12.000	13.20	148.48	0.673 *	0.000	5.00	10.824	7.29	96.2	0.0	257.1
146.00	Appurtenance(s)	1.00	1.37	12.017	13.22	147.16	0.680 *	0.000	1.00	2.104	1.43	18.9	0.0	50.0
148.00	Appurtenance(s)	1.00	1.38	12.051	13.26	144.50	0.650	0.000	2.00	4.146	2.69	35.7	0.0	98.5
149.00		1.00	1.38	12.068	13.27	143.16	0.650	0.000	1.00	2.042	1.33	17.6	0.0	48.5
<b>Totals:</b>									<b>149.00</b>			<b>3,697.2</b>		<b>22,687.6</b>

\* Cf Adjusted by L inearL oad RaE ffect

## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

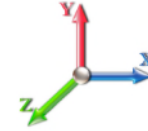


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 22

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	CaAa x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	Decibel DB404-B	1	12.093	13.303	1.00	1.00	1.03	14.00	0.000	2.500	13.70	0.00	34.25
2	148.00	Pipe Mount	1	12.051	13.256	1.00	1.00	2.50	100.00	0.000	0.000	33.14	0.00	0.00
3	146.00	RFS APXVTM14-C-120	3	12.017	13.219	0.71	0.90	13.52	168.00	0.000	0.000	178.76	0.00	0.00
4	146.00	Argus LLPX310R	3	12.017	13.219	0.66	0.90	8.48	85.80	0.000	0.000	112.03	0.00	0.00
5	146.00	Andrew VHLP2-11	1	12.017	13.219	1.00	1.00	3.73	27.00	0.000	0.000	49.31	0.00	0.00
6	146.00	U-RAS Flexible RRH	3	12.017	13.219	0.70	0.90	4.06	152.10	0.000	0.000	53.73	0.00	0.00
7	146.00	12.5' Low Profile Platform	1	12.017	13.219	1.00	1.00	36.05	1632.00	0.000	0.000	476.53	0.00	0.00
8	146.00	Andrew VHLP800-11-DW1	1	12.017	13.219	1.00	1.00	6.70	49.00	0.000	0.000	88.56	0.00	0.00
9	146.00	RFS APXVSP18-C-A20	3	12.017	13.219	0.75	0.90	17.97	171.00	0.000	0.000	237.58	0.00	0.00
10	146.00	ALU 1900MHz RRH	3	12.017	13.219	0.60	0.90	6.87	132.00	0.000	0.000	90.87	0.00	0.00
11	146.00	ALU 800MHz RRH	3	12.017	13.219	0.60	0.90	4.78	178.50	0.000	0.000	63.13	0.00	0.00
12	146.00	800MHz RRH w/ filter	3	12.017	13.219	0.90	0.90	9.34	204.90	0.000	0.000	123.49	0.00	0.00
13	146.00	RFS ACU-A20-N	4	12.017	13.219	0.71	0.90	0.40	4.00	0.000	0.000	5.26	0.00	0.00
14	146.00	ALU TD-RRH8x20-25	3	12.017	13.219	0.62	0.90	7.55	210.00	0.000	0.000	99.74	0.00	0.00
15	138.00	Raycap DC6-48-60-18-8F	2	11.876	13.064	1.00	1.00	2.94	65.60	0.000	0.000	38.41	0.00	0.00
16	138.00	Commscope	3	11.876	13.064	0.73	0.75	0.11	4.80	0.000	0.000	1.44	0.00	0.00
17	138.00	Low Profile Platform w/	1	11.876	13.064	1.00	1.00	23.81	1588.00	0.000	0.000	311.05	0.00	0.00
18	138.00	HPA-65R-BUJ-H6	3	11.876	13.064	0.64	0.75	18.47	153.00	0.000	0.000	241.35	0.00	0.00
19	138.00	7770	3	11.876	13.064	0.55	0.75	9.03	105.00	0.000	0.000	118.02	0.00	0.00
20	138.00	Powerwave LGP21901	6	11.876	13.064	0.56	0.75	0.78	33.00	0.000	0.000	10.14	0.00	0.00
21	138.00	Powerwave LGP13519	6	11.876	13.064	0.75	0.75	1.53	31.80	0.000	0.000	19.99	0.00	0.00
22	138.00	Powerwave 7020.00 RET	12	11.876	13.064	0.50	0.75	2.41	26.40	0.000	0.000	31.51	0.00	0.00
23	138.00	Ericsson RRUS-32 B2s	3	11.876	13.064	0.50	0.75	4.13	180.00	0.000	0.000	53.96	0.00	0.00
24	138.00	WCS-IMFQ-AMT	1	11.876	13.064	0.38	0.75	0.37	34.50	0.000	0.000	4.85	0.00	0.00
25	138.00	4449 B5/B12	3	11.876	13.064	0.50	0.75	2.97	213.00	0.000	0.000	38.80	0.00	0.00
26	138.00	DMP65R-BU6DA	3	11.876	13.064	0.54	0.75	20.59	238.20	0.000	0.000	268.99	0.00	0.00
27	138.00	4415 B30	3	11.876	13.064	0.50	0.75	2.47	138.00	0.000	0.000	32.30	0.00	0.00
28	120.00	HRK12 (Handrail Kit)	1	11.534	12.688	1.00	1.00	6.75	261.72	0.000	0.000	85.64	0.00	0.00
29	120.00	Low Profile Platform	1	11.534	12.688	1.00	1.00	36.10	1632.00	0.000	0.000	458.03	0.00	0.00
30	120.00	4449 B71 + B85	3	11.534	12.688	0.54	0.80	3.17	219.60	0.000	0.000	40.19	0.00	0.00
31	120.00	RRUS 4415 B25	3	11.534	12.688	0.54	0.80	2.64	138.00	0.000	0.000	33.46	0.00	0.00
32	120.00	Ericsson KRY 112 144/1	3	11.534	12.688	0.50	0.75	0.62	33.00	0.000	0.000	7.84	0.00	0.00
33	120.00	PRK-1245 (kicker kit)	1	11.534	12.688	1.00	1.00	9.50	464.91	0.000	0.000	120.54	0.00	0.00
34	120.00	AIR32 KR	3	11.534	12.688	0.70	0.80	13.59	396.60	0.000	0.000	172.47	0.00	0.00
35	120.00	AIR6449 B41	3	11.534	12.688	0.57	0.80	9.63	309.00	0.000	0.000	122.15	0.00	0.00
36	120.00	APXVAALL24_43-U-NA20	3	11.534	12.688	0.56	0.80	34.00	384.00	0.000	0.000	431.43	0.00	0.00
37	120.00	SDX1926Q-43	3	11.534	12.688	0.54	0.80	0.84	12.90	0.000	0.000	10.61	0.00	0.00
38	98.00	Quintel AS-005245 - Dual	3	11.057	12.163	1.00	1.00	3.60	180.00	0.000	0.000	43.79	0.00	0.00
39	98.00	B2/B66A RRH-BR049	3	11.057	12.163	0.54	0.80	3.02	253.50	0.000	0.000	36.77	0.00	0.00
40	98.00	12.5' Low Profile Platform	1	11.057	12.163	1.00	1.00	23.81	1588.00	0.000	0.000	289.60	0.00	0.00
41	98.00	B5/B13 RRH-BR04C	3	11.057	12.163	0.54	0.80	3.02	253.50	0.000	0.000	36.77	0.00	0.00
42	98.00	RFS DB-C1-12C-24AB-OZ	2	11.057	12.163	0.80	0.80	6.50	64.00	0.000	0.000	79.01	0.00	0.00
43	96.00	Samsung MT6407-77A	3	11.010	12.111	0.56	0.80	7.90	261.30	0.000	0.000	95.63	0.00	0.00
44	96.00	Amphenol	2	11.010	12.111	0.76	0.80	14.84	54.00	0.000	0.000	179.67	0.00	0.00
45	96.00	Celwave	4	11.010	12.111	0.74	0.80	12.05	62.80	0.000	0.000	145.97	0.00	0.00
46	96.00	Quintel QS6656-5D	6	11.010	12.111	0.74	0.80	35.90	555.00	0.000	0.000	434.81	0.00	0.00
47	64.50	Decibel 26OB	1	10.136	11.150	1.00	1.00	2.00	50.00	0.000	0.000	22.30	0.00	0.00



## Discrete Appurtenance Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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48	63.00	3 ft Standoff	1	10.087	11.096	1.00	1.00	2.63	40.00	0.000	0.000	29.18	0.00	0.00
<b>Totals:</b>												<b>13,153.43</b>	<b>5,672.47</b>	

## Total Applied Force Summary

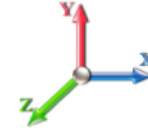
<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 49



**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 22

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
5.00		131.27	1377.84	0.00	0.00
10.00		128.55	1353.44	0.00	0.00
15.00		127.39	1329.04	0.00	0.00
20.00		131.99	1304.64	0.00	0.00
25.00		135.02	1280.24	0.00	0.00
30.00		136.96	1255.83	0.00	0.00
35.00		138.08	1231.43	0.00	0.00
40.00		138.57	1207.03	0.00	0.00
45.00		138.53	1182.63	0.00	0.00
47.25		61.84	524.22	0.00	0.00
50.00		76.51	1074.92	0.00	0.00
53.25		90.22	1252.92	0.00	0.00
55.00		48.28	344.40	0.00	0.00
60.00		137.99	970.28	0.00	0.00
63.00	(1) attachments	111.05	612.41	0.00	0.00
64.50	(1) attachments	62.94	333.22	0.00	0.00
65.00		13.49	94.00	0.00	0.00
70.00		134.95	928.81	0.00	0.00
75.00		133.09	908.48	0.00	0.00
80.00		131.02	888.14	0.00	0.00
85.00		128.77	867.81	0.00	0.00
90.00		126.35	847.47	0.00	0.00
95.00		123.78	827.14	0.00	0.00
96.00	(15) attachments	880.40	1096.09	0.00	0.00
98.00	(12) attachments	534.99	2859.14	0.00	0.00
100.00		48.61	497.41	0.00	0.00
100.75		18.09	185.02	0.00	0.00
105.00		101.66	539.00	0.00	0.00
110.00		116.94	619.07	0.00	0.00
115.00		113.86	602.80	0.00	0.00
120.00	(24) attachments	1593.04	4438.26	0.00	0.00
125.00		107.38	501.76	0.00	0.00
129.00		83.40	389.70	0.00	0.00
130.00		20.38	76.41	0.00	0.00
135.00		100.82	374.74	0.00	0.00
138.00	(49) attachments	1230.11	3030.29	0.00	0.00
140.00		39.06	116.82	0.00	0.00
145.00		96.22	283.50	0.00	0.00
146.00	(31) attachments	1597.88	3069.54	0.00	0.00
148.00	(2) attachments	82.57	216.13	0.00	34.25
149.00		17.62	49.81	0.00	0.00
	<b>Totals:</b>	<b>9,369.68</b>	<b>40,941.81</b>	<b>0.00</b>	<b>34.25</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.066	0.000	7.442	0.00	1.37
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.066	0.000	7.442	0.00	5.20
5.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.442	0.00	13.20
5.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.442	0.00	1.60
5.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.066	0.000	7.442	0.00	2.40
5.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.442	0.00	31.20
5.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	7.442	0.00	11.00
5.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.066	0.000	7.442	0.00	0.80
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.067	0.000	7.442	0.00	1.37
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.067	0.000	7.442	0.00	5.20
10.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	7.442	0.00	13.20
10.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	7.442	0.00	1.60
10.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.067	0.000	7.442	0.00	2.40
10.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	7.442	0.00	31.20
10.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.067	0.000	7.442	0.00	11.00
10.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.067	0.000	7.442	0.00	0.80
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.069	0.000	7.534	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.069	0.000	7.534	0.00	5.20
15.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	7.534	0.00	13.20
15.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	7.534	0.00	1.60
15.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.069	0.000	7.534	0.00	2.40
15.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	7.534	0.00	31.20
15.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.069	0.000	7.534	0.00	11.00
15.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.069	0.000	7.534	0.00	0.80
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.070	0.000	7.978	0.00	1.37
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.070	0.000	7.978	0.00	5.20
20.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.978	0.00	13.20
20.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.978	0.00	1.60
20.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.070	0.000	7.978	0.00	2.40
20.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.978	0.00	31.20
20.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	7.978	0.00	11.00
20.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.070	0.000	7.978	0.00	0.80
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.072	0.000	8.345	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.072	0.000	8.345	0.00	5.20
25.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.345	0.00	13.20
25.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.345	0.00	1.60
25.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.072	0.000	8.345	0.00	2.40
25.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.345	0.00	31.20
25.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	8.345	0.00	11.00
25.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.072	0.000	8.345	0.00	0.80
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.074	0.000	8.659	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.074	0.000	8.659	0.00	5.20
30.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	8.659	0.00	13.20
30.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	8.659	0.00	1.60
30.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.074	0.000	8.659	0.00	2.40
30.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	8.659	0.00	31.20
30.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.074	0.000	8.659	0.00	11.00

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
30.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.074	0.000	8.659	0.00	0.80
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.075	0.000	8.936	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.075	0.000	8.936	0.00	5.20
35.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	8.936	0.00	13.20
35.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	8.936	0.00	1.60
35.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.075	0.000	8.936	0.00	2.40
35.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	8.936	0.00	31.20
35.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	8.936	0.00	11.00
35.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.075	0.000	8.936	0.00	0.80
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.077	0.000	9.184	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.077	0.000	9.184	0.00	5.20
40.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	9.184	0.00	13.20
40.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	9.184	0.00	1.60
40.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.077	0.000	9.184	0.00	2.40
40.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	9.184	0.00	31.20
40.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	9.184	0.00	11.00
40.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.077	0.000	9.184	0.00	0.80
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.079	0.000	9.410	0.00	1.37
45.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.079	0.000	9.410	0.00	5.20
45.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	9.410	0.00	13.20
45.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	9.410	0.00	1.60
45.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.079	0.000	9.410	0.00	2.40
45.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	9.410	0.00	31.20
45.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.079	0.000	9.410	0.00	11.00
45.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.079	0.000	9.410	0.00	0.80
47.25	Safety Cable	Yes	2.25	0.000	0.38	0.07	0.00	0.081	0.000	9.505	0.00	0.61
47.25	Step bolts (ladder)	Yes	2.25	0.000	0.63	0.12	0.00	0.081	0.000	9.505	0.00	2.34
47.25	1 1/4" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	9.505	0.00	5.94
47.25	1/2" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	9.505	0.00	0.72
47.25	5/16" Coax	Yes	2.25	0.000	1.90	0.36	0.00	0.081	0.000	9.505	0.00	1.08
47.25	1 5/8" Coax	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	9.505	0.00	14.04
47.25	1 5/8" Hybrid	Yes	2.25	0.000	0.00	0.00	0.00	0.081	0.000	9.505	0.00	4.95
47.25	1/2" Coax	Yes	2.25	0.000	1.00	0.19	0.00	0.081	0.000	9.505	0.00	0.36
50.00	Safety Cable	Yes	2.75	0.000	0.38	0.09	0.00	0.082	0.000	9.616	0.00	0.75
50.00	Step bolts (ladder)	Yes	2.75	0.000	0.63	0.14	0.00	0.082	0.000	9.616	0.00	2.86
50.00	1 1/4" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	9.616	0.00	7.26
50.00	1/2" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	9.616	0.00	0.88
50.00	5/16" Coax	Yes	2.75	0.000	1.90	0.44	0.00	0.082	0.000	9.616	0.00	1.32
50.00	1 5/8" Coax	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	9.616	0.00	17.16
50.00	1 5/8" Hybrid	Yes	2.75	0.000	0.00	0.00	0.00	0.082	0.000	9.616	0.00	6.05
50.00	1/2" Coax	Yes	2.75	0.000	1.00	0.23	0.00	0.082	0.000	9.616	0.00	0.44
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.083	0.000	9.742	0.00	0.89
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.083	0.000	9.742	0.00	3.38
53.25	1 1/4" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	9.742	0.00	8.58
53.25	1/2" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	9.742	0.00	1.04
53.25	5/16" Coax	Yes	3.25	0.000	1.90	0.51	0.00	0.083	0.000	9.742	0.00	1.56
53.25	1 5/8" Coax	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	9.742	0.00	20.28

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
53.25	1 5/8" Hybrid	Yes	3.25	0.000	0.00	0.00	0.00	0.083	0.000	9.742	0.00	7.15
53.25	1/2" Coax	Yes	3.25	0.000	1.00	0.27	0.00	0.083	0.000	9.742	0.00	0.52
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.083	0.000	9.807	0.00	0.48
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.083	0.000	9.807	0.00	1.82
55.00	1 1/4" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	9.807	0.00	4.62
55.00	1/2" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	9.807	0.00	0.56
55.00	5/16" Coax	Yes	1.75	0.000	1.90	0.28	0.00	0.083	0.000	9.807	0.00	0.84
55.00	1 5/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	9.807	0.00	10.92
55.00	1 5/8" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.083	0.000	9.807	0.00	3.85
55.00	1/2" Coax	Yes	1.75	0.000	1.00	0.15	0.00	0.083	0.000	9.807	0.00	0.28
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.084	0.000	9.986	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.084	0.000	9.986	0.00	5.20
60.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	9.986	0.00	13.20
60.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	9.986	0.00	1.60
60.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.084	0.000	9.986	0.00	2.40
60.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	9.986	0.00	31.20
60.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	9.986	0.00	11.00
60.00	1/2" Coax	Yes	5.00	0.000	1.00	0.42	0.00	0.084	0.000	9.986	0.00	0.80
63.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.086	0.000	10.087	0.00	0.82
63.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.086	0.000	10.087	0.00	3.12
63.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	10.087	0.00	7.92
63.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	10.087	0.00	0.96
63.00	5/16" Coax	Yes	3.00	0.000	1.90	0.47	0.00	0.086	0.000	10.087	0.00	1.44
63.00	1 5/8" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	10.087	0.00	18.72
63.00	1 5/8" Hybrid	Yes	3.00	0.000	0.00	0.00	0.00	0.086	0.000	10.087	0.00	6.60
63.00	1/2" Coax	Yes	3.00	0.000	1.00	0.25	0.00	0.086	0.000	10.087	0.00	0.48
64.50	Safety Cable	Yes	1.50	0.000	0.38	0.05	0.00	0.065	0.000	10.136	0.00	0.41
64.50	Step bolts (ladder)	Yes	1.50	0.000	0.63	0.08	0.00	0.065	0.000	10.136	0.00	1.56
64.50	1 1/4" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	10.136	0.00	3.96
64.50	1/2" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	10.136	0.00	0.48
64.50	5/16" Coax	Yes	1.50	0.000	1.90	0.24	0.00	0.065	0.000	10.136	0.00	0.72
64.50	1 5/8" Coax	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	10.136	0.00	9.36
64.50	1 5/8" Hybrid	Yes	1.50	0.000	0.00	0.00	0.00	0.065	0.000	10.136	0.00	3.30
65.00	Safety Cable	Yes	0.50	0.000	0.38	0.02	0.00	0.065	0.000	10.153	0.00	0.14
65.00	Step bolts (ladder)	Yes	0.50	0.000	0.63	0.03	0.00	0.065	0.000	10.153	0.00	0.52
65.00	1 1/4" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	10.153	0.00	1.32
65.00	1/2" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	10.153	0.00	0.16
65.00	5/16" Coax	Yes	0.50	0.000	1.90	0.08	0.00	0.065	0.000	10.153	0.00	0.24
65.00	1 5/8" Coax	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	10.153	0.00	3.12
65.00	1 5/8" Hybrid	Yes	0.50	0.000	0.00	0.00	0.00	0.065	0.000	10.153	0.00	1.10
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.066	0.000	10.310	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.066	0.000	10.310	0.00	5.20
70.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	10.310	0.00	13.20
70.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	10.310	0.00	1.60
70.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.066	0.000	10.310	0.00	2.40
70.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	10.310	0.00	31.20
70.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.066	0.000	10.310	0.00	11.00

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.068	0.000	10.459	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.068	0.000	10.459	0.00	5.20
75.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	10.459	0.00	13.20
75.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	10.459	0.00	1.60
75.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.068	0.000	10.459	0.00	2.40
75.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	10.459	0.00	31.20
75.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.068	0.000	10.459	0.00	11.00
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.070	0.000	10.600	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.070	0.000	10.600	0.00	5.20
80.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	10.600	0.00	13.20
80.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	10.600	0.00	1.60
80.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.070	0.000	10.600	0.00	2.40
80.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	10.600	0.00	31.20
80.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.070	0.000	10.600	0.00	11.00
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.072	0.000	10.734	0.00	1.37
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.072	0.000	10.734	0.00	5.20
85.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	10.734	0.00	13.20
85.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	10.734	0.00	1.60
85.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.072	0.000	10.734	0.00	2.40
85.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	10.734	0.00	31.20
85.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.072	0.000	10.734	0.00	11.00
90.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.075	0.000	10.863	0.00	1.37
90.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.075	0.000	10.863	0.00	5.20
90.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	10.863	0.00	13.20
90.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	10.863	0.00	1.60
90.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.075	0.000	10.863	0.00	2.40
90.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	10.863	0.00	31.20
90.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.075	0.000	10.863	0.00	11.00
95.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.077	0.000	10.986	0.00	1.37
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.077	0.000	10.986	0.00	5.20
95.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	10.986	0.00	13.20
95.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	10.986	0.00	1.60
95.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.077	0.000	10.986	0.00	2.40
95.00	1 5/8" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	10.986	0.00	31.20
95.00	1 5/8" Hybrid	Yes	5.00	0.000	0.00	0.00	0.00	0.077	0.000	10.986	0.00	11.00
96.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.078	0.000	11.010	0.00	0.27
96.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.078	0.000	11.010	0.00	1.04
96.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	11.010	0.00	2.64
96.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	11.010	0.00	0.32
96.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.078	0.000	11.010	0.00	0.48
96.00	1 5/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	11.010	0.00	6.24
96.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.078	0.000	11.010	0.00	2.20
98.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.079	0.000	11.057	0.00	0.55
98.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.079	0.000	11.057	0.00	2.08
98.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	11.057	0.00	5.28
98.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	11.057	0.00	0.64
98.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.079	0.000	11.057	0.00	0.96

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	11.057	0.00	12.48
98.00	1 5/8" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	11.057	0.00	4.40
100.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.080	0.000	11.104	0.00	0.55
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.080	0.000	11.104	0.00	2.08
100.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	11.104	0.00	5.28
100.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	11.104	0.00	0.64
100.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.080	0.000	11.104	0.00	0.96
100.75	Safety Cable	Yes	0.75	0.000	0.38	0.02	0.00	0.081	0.000	11.121	0.00	0.20
100.75	Step bolts (ladder)	Yes	0.75	0.000	0.63	0.04	0.00	0.081	0.000	11.121	0.00	0.78
100.75	1 1/4" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	11.121	0.00	1.98
100.75	1/2" Coax	Yes	0.75	0.000	0.00	0.00	0.00	0.081	0.000	11.121	0.00	0.24
100.75	5/16" Coax	Yes	0.75	0.000	1.90	0.12	0.00	0.081	0.000	11.121	0.00	0.36
105.00	Safety Cable	Yes	4.25	0.000	0.38	0.13	0.00	0.081	0.000	11.218	0.00	1.16
105.00	Step bolts (ladder)	Yes	4.25	0.000	0.63	0.22	0.00	0.081	0.000	11.218	0.00	4.42
105.00	1 1/4" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	11.218	0.00	11.22
105.00	1/2" Coax	Yes	4.25	0.000	0.00	0.00	0.00	0.081	0.000	11.218	0.00	1.36
105.00	5/16" Coax	Yes	4.25	0.000	1.90	0.67	0.00	0.081	0.000	11.218	0.00	2.04
110.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.084	0.000	11.327	0.00	1.37
110.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.084	0.000	11.327	0.00	5.20
110.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	11.327	0.00	13.20
110.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.084	0.000	11.327	0.00	1.60
110.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.084	0.000	11.327	0.00	2.40
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.087	0.000	11.432	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.087	0.000	11.432	0.00	5.20
115.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	11.432	0.00	13.20
115.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.087	0.000	11.432	0.00	1.60
115.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.087	0.000	11.432	0.00	2.40
120.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.090	0.000	11.534	0.00	1.37
120.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.090	0.000	11.534	0.00	5.20
120.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	11.534	0.00	13.20
120.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.090	0.000	11.534	0.00	1.60
120.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.090	0.000	11.534	0.00	2.40
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.094	0.000	11.633	0.00	1.37
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.094	0.000	11.633	0.00	5.20
125.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	11.633	0.00	13.20
125.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.094	0.000	11.633	0.00	1.60
125.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.094	0.000	11.633	0.00	2.40
129.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.097	0.000	11.710	0.00	1.09
129.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.097	0.000	11.710	0.00	4.16
129.00	1 1/4" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	11.710	0.00	10.56
129.00	1/2" Coax	Yes	4.00	0.000	0.00	0.00	0.00	0.097	0.000	11.710	0.00	1.28
129.00	5/16" Coax	Yes	4.00	0.000	1.90	0.63	0.00	0.097	0.000	11.710	0.00	1.92
130.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.100	0.000	11.729	0.00	0.27
130.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.100	0.000	11.729	0.00	1.04
130.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	11.729	0.00	2.64
130.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.100	0.000	11.729	0.00	0.32
130.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.100	0.000	11.729	0.00	0.48

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 22
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
135.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.102	1.007	11.822	0.00	1.37
135.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.102	1.007	11.822	0.00	5.20
135.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	11.822	0.00	13.20
135.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.102	1.007	11.822	0.00	1.60
135.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.102	1.007	11.822	0.00	2.40
138.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.106	1.018	11.876	0.00	0.82
138.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.106	1.018	11.876	0.00	3.12
138.00	1 1/4" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	11.876	0.00	7.92
138.00	1/2" Coax	Yes	3.00	0.000	0.00	0.00	0.00	0.106	1.018	11.876	0.00	0.96
138.00	5/16" Coax	Yes	3.00	0.000	1.90	0.47	0.00	0.106	1.018	11.876	0.00	1.44
140.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.108	1.025	11.912	0.00	0.55
140.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.108	1.025	11.912	0.00	2.08
140.00	1 1/4" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	11.912	0.00	5.28
140.00	1/2" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.108	1.025	11.912	0.00	0.64
140.00	5/16" Coax	Yes	2.00	0.000	1.90	0.32	0.00	0.108	1.025	11.912	0.00	0.96
145.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.112	1.036	12.000	0.00	1.37
145.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.112	1.036	12.000	0.00	5.20
145.00	1 1/4" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	12.000	0.00	13.20
145.00	1/2" Coax	Yes	5.00	0.000	0.00	0.00	0.00	0.112	1.036	12.000	0.00	1.60
145.00	5/16" Coax	Yes	5.00	0.000	1.90	0.79	0.00	0.112	1.036	12.000	0.00	2.40
146.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.115	1.046	12.017	0.00	0.27
146.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.115	1.046	12.017	0.00	1.04
146.00	1 1/4" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	12.017	0.00	2.64
146.00	1/2" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.115	1.046	12.017	0.00	0.32
146.00	5/16" Coax	Yes	1.00	0.000	1.90	0.16	0.00	0.115	1.046	12.017	0.00	0.48
148.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.041	0.000	12.051	0.00	0.55
148.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.041	0.000	12.051	0.00	2.08
149.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.041	0.000	12.068	0.00	0.27
149.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.041	0.000	12.068	0.00	1.04
<b>Totals:</b>											<b>0.0</b>	<b>1,535.1</b>



## Calculated Forces

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	<b>6/22/2021</b>
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



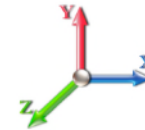
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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 22

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-40.94	-9.39	0.00	-1008.7	0.00	1008.75	4419.23	2209.62	10644.5	5330.19	0.00	0.000	0.000	0.199
5.00	-39.55	-9.29	0.00	-961.82	0.00	961.82	4369.18	2184.59	10305.9	5160.65	0.03	-0.046	0.000	0.195
10.00	-38.19	-9.19	0.00	-915.39	0.00	915.39	4317.41	2158.71	9968.41	4991.62	0.10	-0.094	0.000	0.192
15.00	-36.86	-9.09	0.00	-869.46	0.00	869.46	4263.92	2131.96	9632.14	4823.23	0.22	-0.141	0.000	0.189
20.00	-35.54	-8.98	0.00	-824.02	0.00	824.02	4208.71	2104.36	9297.40	4655.61	0.40	-0.190	0.000	0.185
25.00	-34.26	-8.87	0.00	-779.10	0.00	779.10	4151.78	2075.89	8964.46	4488.89	0.62	-0.239	0.000	0.182
30.00	-32.99	-8.76	0.00	-734.74	0.00	734.74	4093.13	2046.56	8633.57	4323.20	0.90	-0.288	0.000	0.178
35.00	-31.76	-8.64	0.00	-690.96	0.00	690.96	4032.76	2016.38	8305.00	4158.67	1.23	-0.338	0.000	0.174
40.00	-30.54	-8.52	0.00	-647.75	0.00	647.75	3970.67	1985.33	7978.99	3995.42	1.61	-0.388	0.000	0.170
45.00	-29.35	-8.39	0.00	-605.14	0.00	605.14	3906.85	1953.43	7655.81	3833.59	2.04	-0.439	0.000	0.165
47.25	-28.83	-8.34	0.00	-586.26	0.00	586.26	3877.58	1938.79	7511.37	3761.27	2.26	-0.462	0.000	0.163
50.00	-27.75	-8.27	0.00	-563.32	0.00	563.32	3841.32	1920.66	7335.71	3673.31	2.53	-0.491	0.000	0.161
53.25	-26.49	-8.18	0.00	-536.44	0.00	536.44	2984.31	1492.16	5695.15	2851.81	2.88	-0.525	0.000	0.197
55.00	-26.14	-8.15	0.00	-522.13	0.00	522.13	2968.67	1484.33	5613.44	2810.89	3.07	-0.543	0.000	0.195
60.00	-25.17	-8.02	0.00	-481.39	0.00	481.39	2922.80	1461.40	5380.87	2694.44	3.67	-0.602	0.000	0.187
63.00	-24.55	-7.91	0.00	-457.33	0.00	457.33	2894.46	1447.23	5242.03	2624.91	4.06	-0.637	0.000	0.183
64.50	-24.22	-7.85	0.00	-445.46	0.00	445.46	2880.06	1440.03	5172.83	2590.26	4.27	-0.655	0.000	0.180
65.00	-24.12	-7.85	0.00	-441.53	0.00	441.53	2875.22	1437.61	5149.80	2578.73	4.33	-0.661	0.000	0.180
70.00	-23.19	-7.73	0.00	-402.28	0.00	402.28	2825.92	1412.96	4920.48	2463.90	5.06	-0.719	0.000	0.172
75.00	-22.27	-7.61	0.00	-363.64	0.00	363.64	2774.89	1387.45	4693.17	2350.07	5.84	-0.776	0.000	0.163
80.00	-21.38	-7.48	0.00	-325.61	0.00	325.61	2722.15	1361.08	4468.13	2237.39	6.69	-0.833	0.000	0.153
85.00	-20.51	-7.36	0.00	-288.19	0.00	288.19	2667.69	1333.84	4245.61	2125.96	7.59	-0.887	0.000	0.143
90.00	-19.65	-7.24	0.00	-251.39	0.00	251.39	2611.50	1305.75	4025.88	2015.93	8.55	-0.940	0.000	0.132
95.00	-18.82	-7.11	0.00	-215.20	0.00	215.20	2553.60	1276.80	3809.20	1907.43	9.56	-0.990	0.000	0.120
96.00	-17.74	-6.22	0.00	-208.09	0.00	208.09	2541.81	1270.90	3766.25	1885.92	9.77	-1.000	0.000	0.117
98.00	-14.89	-5.64	0.00	-195.66	0.00	195.66	2518.03	1259.01	3680.75	1843.11	10.19	-1.020	0.000	0.112
100.00	-14.39	-5.58	0.00	-184.39	0.00	184.39	2493.97	1246.99	3595.81	1800.58	10.62	-1.039	0.000	0.108
100.75	-14.21	-5.57	0.00	-180.20	0.00	180.20	1861.03	930.51	2717.30	1360.67	10.79	-1.046	0.000	0.140
105.00	-13.67	-5.46	0.00	-156.55	0.00	156.55	1828.27	914.13	2591.91	1297.88	11.73	-1.084	0.000	0.128
110.00	-13.04	-5.35	0.00	-129.23	0.00	129.23	1788.13	894.06	2445.78	1224.71	12.90	-1.133	0.000	0.113
115.00	-12.44	-5.23	0.00	-102.50	0.00	102.50	1746.27	873.13	2301.39	1152.40	14.11	-1.178	0.000	0.096
120.00	-8.03	-3.55	0.00	-76.36	0.00	76.36	1702.69	851.34	2158.99	1081.10	15.36	-1.216	0.000	0.075
125.00	-7.53	-3.43	0.00	-58.61	0.00	58.61	1657.39	828.70	2018.85	1010.92	16.66	-1.249	0.000	0.063
129.00	-7.14	-3.34	0.00	-44.88	0.00	44.88	1619.91	809.96	1908.53	955.68	17.71	-1.272	0.000	0.051
129.00	-7.14	-3.34	0.00	-44.88	0.00	44.88	1091.97	545.98	1287.15	644.53	17.71	-1.272	0.000	0.076
130.00	-7.07	-3.32	0.00	-41.53	0.00	41.53	1086.84	543.42	1270.26	636.07	17.98	-1.277	0.000	0.072
135.00	-6.69	-3.22	0.00	-24.91	0.00	24.91	1060.16	530.08	1186.17	593.97	19.33	-1.304	0.000	0.048
138.00	-3.69	-1.92	0.00	-15.26	0.00	15.26	1043.32	521.66	1136.10	568.89	20.16	-1.315	0.000	0.030
140.00	-3.58	-1.88	0.00	-11.43	0.00	11.43	1031.75	515.88	1102.91	552.27	20.71	-1.321	0.000	0.024
145.00	-3.30	-1.77	0.00	-2.04	0.00	2.04	1001.63	500.82	1020.73	511.12	22.10	-1.328	0.000	0.007
146.00	-0.26	-0.11	0.00	-0.27	0.00	0.27	995.40	497.70	1004.44	502.97	22.38	-1.328	0.000	0.001
148.00	-0.05	-0.02	0.00	-0.02	0.00	0.02	982.73	491.37	972.05	486.75	22.93	-1.329	0.000	0.000
149.00	0.00	-0.02	0.00	0.00	0.00	0.00	976.29	488.15	955.94	478.68	23.21	-1.329	0.000	0.000

## Final Analysis Summary

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
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### Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.6W 94 mph Wind	36.9	0.00	49.07	0.00	0.00	3982.66
0.9D + 1.6W 94 mph Wind	36.9	0.00	36.79	0.00	0.00	3944.84
1.2D + 1.0Di + 1.0Wi 50 mph Wind	10.4	0.00	83.82	0.00	0.00	1098.49
1.2D + 1.0E	2.0	0.00	49.13	0.00	0.00	240.71
0.9D + 1.0E	2.0	0.00	36.85	0.00	0.00	238.21
1.0D + 1.0W 60 mph Wind	9.4	0.00	40.94	0.00	0.00	1008.75

### Max Stresses


Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.6W 94 mph Wind	-49.07	-36.88	0.00	-3982.6	0.00	-3982.6	4419.23	2209.6	10644.5	5330.19	0.00	0.759
0.9D + 1.6W 94 mph Wind	-36.79	-36.85	0.00	-3944.8	0.00	-3944.8	4419.23	2209.6	10644.5	5330.19	0.00	0.749
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-83.82	-10.35	0.00	-1098.4	0.00	-1098.4	4419.23	2209.6	10644.5	5330.19	0.00	0.225
1.2D + 1.0E	-31.88	-1.65	0.00	-139.86	0.00	-139.86	2984.31	1492.1	5695.15	2851.81	53.25	0.060
0.9D + 1.0E	-23.91	-1.63	0.00	-137.94	0.00	-137.94	2984.31	1492.1	5695.15	2851.81	53.25	0.056
1.0D + 1.0W 60 mph Wind	-40.94	-9.39	0.00	-1008.7	0.00	-1008.7	4419.23	2209.6	10644.5	5330.19	0.00	0.199

## Base Plate Summary

<b>Structure:</b> CT13056-A	<b>Code:</b> EIA/TIA-222-G	6/22/2021
<b>Site Name:</b> Moosehill	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II
		Page: 58



Reactions	Base Plate	Anchor Bolts
Original Design	<b>Yield (ksi):</b> 60.00	<b>Bolt Circle:</b> 66.00
<b>Moment (kip-ft):</b> 4184.00	<b>Width (in):</b> 64.00	<b>Number Bolts:</b> 16.00
<b>Axial (kip):</b> 45.00	<b>Style:</b> Clipped	<b>Bolt Type:</b> 2.25" 18J
<b>Shear (kip):</b> 39.00	<b>Polygon Sides:</b> 4.00	<b>Bolt Diameter (in):</b> 2.25
Analysis	<b>Clip Length (in):</b> 12.00	<b>Yield (ksi):</b> 75.00
<b>Moment (kip-ft):</b> 3982.66	<b>Effective Len (in):</b> 8.64	<b>Ultimate (ksi):</b> 100.00
<b>Axial (kip):</b> 49.07	<b>Moment (kip-in):</b> 660.32	<b>Arrangement:</b> Clustered
<b>Shear (kip):</b> 36.88	<b>Allow Stress (ksi):</b> 81.00	<b>Cluster Dist (in):</b> 6.00
	<b>Applied Stress (ksi):</b> 51.03	<b>Start Angle (deg):</b> 45.00
	<b>Stress Ratio:</b> 0.63	Compression
		<b>Force (kip):</b> 186.27
		<b>Allowable (kip):</b> 260.00
		<b>Ratio:</b> 0.73
		Tension
		<b>Force (kip):</b> 175.79
		<b>Allowable (kip):</b> 260.00
		<b>Ratio:</b> 0.69

	<b>Monopole Mat Foundation Design</b>		Date	
	<b>Customer Name:</b>		<b>EIA/TIA Standard:</b>	EIA-222-G
	<b>Site Name:</b>		<b>Structure Height (Ft.):</b>	149
	<b>Site Number:</b>	CT13056-ATT-062221	<b>Engineer Name:</b>	SBA Engineer
	<b>Engr. Number:</b>		<b>Engineer Login ID:</b>	

**Foundation Info Obtained from:**

Drawings/Calculations
Monopole
Analysis

**Structure Type:**

**Analysis or Design?**

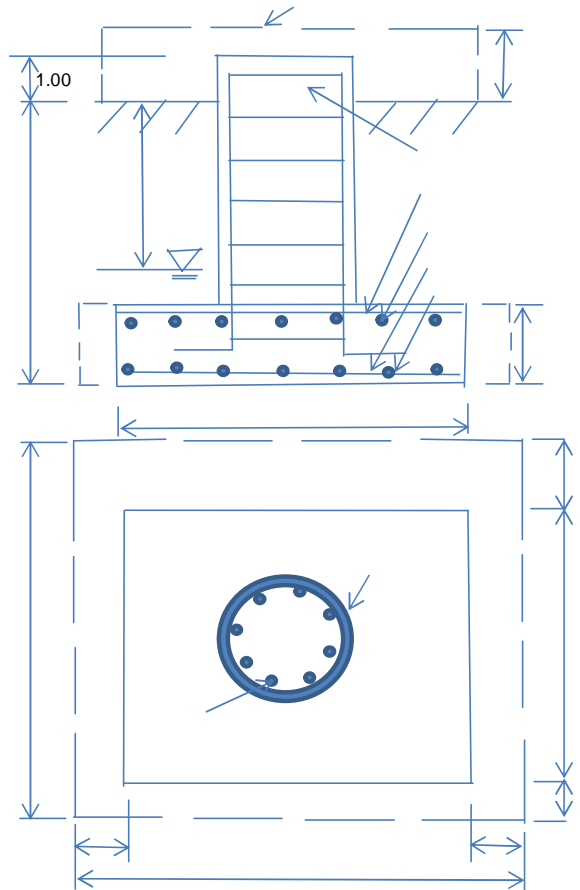
**Base Reactions (Factored):**

Axial Load (Kips):	49.1	Shear Force (Kips):	
Uplift Force (Kips):	0.0	Moment (Kips-ft):	

Allowable overstress %: 5.0%

**Foundation Geometries:**

		Mods required -Yes/No ?:	
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	
Length of Pad (ft.):	23.5	Width of Pad (ft.):	
Final Length of pad (ft)	23.5	Final width of pad (ft):	



**Material Properties and Reabr Info:**

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)		Tie steel yield (ksi):		
Vertical Rebar Size #:		Tie / Stirrup Size #:		
Qty. of Vertical Rebars:		Tie Spacing (in):		
Pad Rebar Yield (Ksi):		Pad Steel Rebar Size (#):		
Concrete Cover (in.):		Unit Weight of Concrete:	150.0	pcf
Rebar at the bottom of the concrete pad:				
Qty. of Rebar in Pad (L):		Qty. of Rebar in Pad (W):		
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):		Qty. of Rebar in Pad (W):		

Apply 1.35 factor for e/w Per G.

**Soil Design Parameters:**

Soil Unit Weight (pcf):	100.0	Soil Buoyant Weight:		Pcf
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:		pcf
Ultimate Bearing Pressure (psf):	8000	Ultimate Skin Friction:		Psf
Consider Friction for O.T.M. (Y/N):		Consider Friction for bearing (Y/N):		
Consider soil hor. resist. for OTM.:		Reduction factor on the maximum soil bearing pressure:		
		Angle from Top of Pad:		
		Angle from Bottom of Pad:		
		Angle from Bottom of Pad:		

**Foundation Analysis and Design:**

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	
Total Dry Soil Volume (cu. Ft.):	3853.24	Total Dry Soil Weight (Kips):	
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	
Total Effective Soil Weight (Kips):	385.32	Weight from the Concrete Block at Top (K):	
Total Dry Concrete Volume (cu. Ft.):	1707.74	Total Dry Concrete Weight (Kips):	
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	
Total Effective Concrete Weight (Kips):	256.16	Total Vertical Load on Base (Kips):	

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	<	Allowable Factored Soil Bearing (psf):	6000	Load/ Capacity Ratio
Allowable Foundation Overturning Resistance (kips-ft.):		Design Factored Momnt (kips-ft):		
Factor of Safety Against Overturning (O. R. Moment/Design Moment):				

**Check the capacities of Reinforcing Concrete:**

Strength reduction factor (Flexure and axial tension):  
 Strength reduction factor (Axial compression):

0.90 Strength reduction factor (Shear):  
 0.65 Wind Load Factor on Concrete Design:

d  
Capacity  
Ratio

**(1) Concrete Pier:**

Vertical Steel Rebar Area (sq. in./each):  
 Calculated Moment Capacity (Mn,Kips-Ft):  
 Calculated Shear Capacity (Kips):  
 Calculated Tension Capacity (Tn, Kips):  
 Calculated Compression Capacity (Pn, Kips):  
 Moment & Axial Strength Combination:  
 Pier Reinforcement Ratio:

Tie / Stirrup Area (sq. in./each):  
 > Design Factored Moment (Mu, Kips-Ft)  
 > Design Factored Shear (Kips):  
 > Design Factored Tension (Tu Kips):  
 > Design Factored Axial Load (Pu Kips):

OK! Check Tie Spacing (Design/Required):  
 Reinforcement Ratio is satisfied per ACI



**(2).Concrete Pad:**

One-Way Design Shear Capacity (L-Direction, Kips):  
 One-Way Design Shear Capacity (W-Direction, Kips):  
 One-Way Design Shear Capacity (Corner-Corner, Kips):  
 Lower Steel Pad Reinforcement Ratio (L-Direct. ):  
 Lower Steel Pad Moment Capacity (L-Direction, Kips-ft):  
 Lower Steel Pad Moment Capacity (W-Direction, Kips-ft):  
 Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):  
 Upper Steel Pad Reinforcement Ratio (L-Direct. ):  
 Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):  
 Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):  
 Upper Steel Pad Moment Capacity (Corner-Corner, K-ft):

One-Way Factored Shear (L-D. Kips): 288.2  
 One-Way Factored Shear (W-D., Kips)  
 One-Way Factored Shear (C-C, Kips): 283.2  
 Lower Steel Pad Reinf. Ratio (W-Direct  
 Moment at Bottom ( L-Dir. K-Ft):  
 Moment at Bottom ( W-Dir. K-Ft):  
 Moment at Bottom ( C-C Dir. K-Ft):  
 Upper Steel Reinf. Ratio (W-Dir. ):  
 Moment at the top (L-Dir K-Ft):  
 Moment at the top (W-Dir K-Ft):  
 Moment at the top (C-C Dir. K-Ft):

OK!

OK!

OK!



**(3).Check Punching Shear Capacity due to Moment in the Pier:**

Moment transferred by punching shear:  
 Max. factored shear stress  $v_{u\_AB}$   
 Max. factored shear stress  $v_u$

1593.1 k-ft. Max. factored shear stress  $v_{u\_CD}$   
 Psi Factored shear Strength  $\phi v_n$   
 Psi Check Usage of Punching Shear Capacity:

Psi  
Psi  
OK!



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## Post-Mod Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10061126  
Maser Consulting Connecticut Project #: 21777100A

April 28, 2021

### Site Information

Site ID: 468601-VZW / MONROE EAST CT  
Site Name: MONROE EAST CT  
Carrier Name: Verizon Wireless  
Address: 500 Moose Hill Rd  
Monroe, Connecticut 06468  
Fairfield County  
Latitude: 41.32096667°  
Longitude: -73.20142222°

### Structure Information

Tower Type: Monopole  
Mount Type: 12.50-Ft Platform

FUZE ID # 2486310

### Analysis Results

Platform: 55.4% 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: Selene Chen



Digitally signed by Justin Linette  
Date: 2021.04.28 16:29:39-04'00'

**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
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS, Site ID: 324391, dated March 17, 2021</i>
<i>Mount Mapping Report</i>	<i>Structural Components, Site ID: 2486310, dated February 25, 2021</i>
<i>Mount Analysis Report</i>	<i>Maser Consulting Connecticut, Project #: 21777100A, dated March 30, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Connecticut, Project #: 21777100A, dated April 28, 2021</i>

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust),	118 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K <sub>e</sub> :	0.978
Seismic Parameters:	S <sub>s</sub> :	0.208
	S <sub>1</sub> :	0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, L <sub>v</sub> :	250 lbs.
	Maintenance Live Load, L <sub>m</sub> :	500 lbs.
Analysis Software:	RISA-3D (V17)	

**Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
			Quintel		Added
			Samsung		
			Raycap		
			Samsung		
			Samsung		
			Amphenol Antel		Retained
			Raycap		

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut 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 Maser Consulting Connecticut, 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. Maser Consulting Connecticut 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:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                    F1554 (Gr. 36)
  - o 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 Maser Consulting Connecticut.**

**Analysis Results:**

Component	Utilization %	Pass/Fail
Mount Pipe		Pass
Standoff Horizontal		Pass
Grating Support		Pass
Face Plate		Pass
Crossmember		Pass
Face Horizontal		Pass
Support Rail		Pass
Support Rail Angle		Pass
Corner Plate		Pass
Kicker		Pass
Connection Check		Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>55.4%</b>
---	--------------

**Recommendation:**

The existing mount 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.

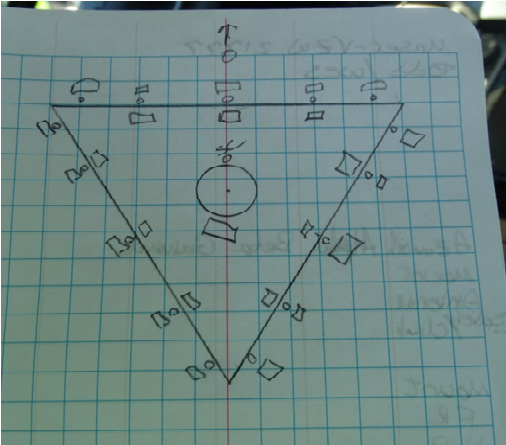
**Attachments:**

- Mount Photos
- Mount Mapping Report (for reference only)
- Analysis Calculations
- Contractor Required PMI Report Deliverables**
- Antenna Placement Diagrams
- TIA Adoption and Wind Speed Usage Letter

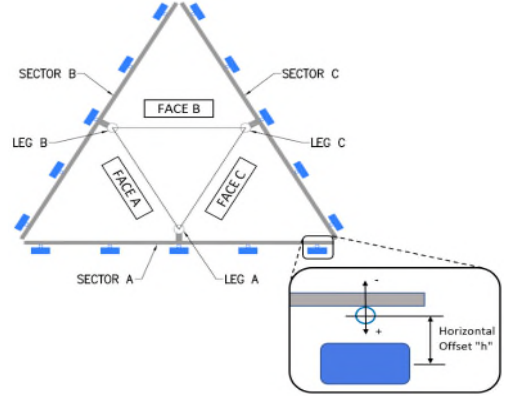


	<b>Antenna Mount Mapping Form (PATENT PENDING)</b>			FCC #
	<b>Tower Owner:</b>	SBA	<b>Mapping Date:</b>	2/25/2021
	<b>Site Name:</b>	Monroe East CT	<b>Tower Type:</b>	Monopole
	<b>Site Number or ID:</b>	2486310	<b>Tower Height (Ft.):</b>	
	<b>Mapping Contractor:</b>	Structural Components	<b>Mount Elevation (Ft.):</b>	95

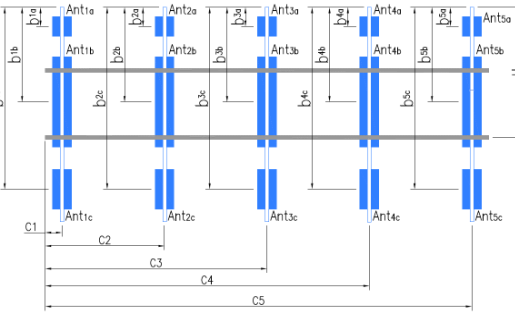
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.



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	2-3/8 x .154 x 72	36.00	5.00	C1	2-3/8 x .154 x 72	36.00	5.50	
A2	2-3/8 x .203 x 96	63.00	30.00	C2	2-3/8 x .203 x 96	63.00	29.50	
A3	2-3/8 x .154 x 72	36.00	75.00	C3	2-3/8 x .154 x 72	36.00	76.50	
A4	2-3/8 x .154 x 72	36.00	121.00	C4	2-3/8 x .154 x 72	36.00	122.50	
A5	2-3/8 x .154 x 72	36.00	145.00	C5	2-3/8 x .154 x 72	36.00	147.00	
A6				C6				
B1	2-3/8 x .154 x 72	36.00	6.00	D1				
B2	2-3/8 x .203 x 96	63.00	30.00	D2				
B3	2-3/8 x .154 x 72	36.00	75.00	D3				
B4	2-3/8 x .154 x 72	36.00	122.50	D4				
B5	2-3/8 x .154 x 72	36.00	146.50	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.):								
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):								
Please enter additional information or comments below.								
Tower Face Width at Mount Elev. (ft.):				Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				35

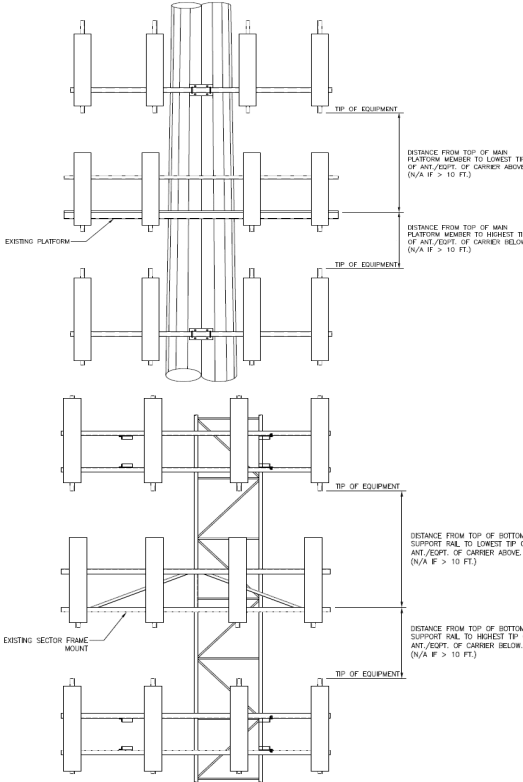


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".						Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
<b>Sector A</b>										
Ant <sub>1a</sub>										
Ant <sub>1b</sub>	LPA 80063-6CF EDIN2	15.00	12.00	71.00	1)1-5/8 t	95.5	30.00	15.00	0.00	10, 50
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	9442 RRH2x40 AWS-4	12.00	8.00	20.50	jumper	98	27.00	-8.00		10, 50
Ant <sub>2b</sub>	Kathrein 742213V01	6.00	3.00	77.00	Jumpers	97.0417	38.50	8.00	0.00	10, 50
Ant <sub>2c</sub>										
Ant <sub>2c</sub>	RFS	6.50	0.75	5.00	2)1-5/8 t	96.5	18.00	-4.00		50
Ant <sub>3a</sub>	BXA 70063/6CF EDIN	11.00	5.00	71.00	jumper	95.25	33.00	9.00	0.00	10, 50
Ant <sub>3c</sub>										
Ant <sub>4a</sub>	RFS	6.50	0.75	5.00	2)1-5/8 t	96.5	18.00	-4.00		10, 51
Ant <sub>4b</sub>	BXA 171063/12CF ED	6.00	4.00	72.00	jumper	95.0833	35.00	9.00	0.00	10, 51
Ant <sub>4c</sub>										
Ant <sub>5a</sub>										
Ant <sub>5b</sub>	LPA 80063-6CF EDIN2	15.00	12.00	71.00	1)1-5/8 t	95.5	30.00	15.00	0.00	10, 51
Ant <sub>5c</sub>										
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower										



**Antenna Layout (Looking Out From Tower)**

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector		Sector B															
Sector A:	0.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>															
Sector B:	120.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>	Maximizer APL??65	9.50	8.00	48.00	1)1-5/8 t	96.0833	23.00	10.50	120.00	19, 52					
Sector C:	240.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>															
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>	9442 RRH2x40 AWS-4	12.00	8.00	20.50	jumper	97.9167	28.00	-8.00		19, 52					
<b>Climbing Facility Information</b>						Ant <sub>2b</sub>	Kathrein 742213V01	6.00	3.00	77.00	Jumpers	97.0417	38.50	8.00	120.00	19, 52					
Location:	0.00	Deg	Sector A			Ant <sub>2c</sub>															
Climbing Facility	Corrosion Type:		Good condition.			Ant <sub>3a</sub>	RFS	6.50	0.75	5.00	2)1-5/8 t	96.5	18.00	-4.00		52					
	Access:		Climbing path was unobstructed.			Ant <sub>3b</sub>	swedcom SLC2X6014	14.00	11.00	53.00		95.9167	25.00	13.00	120.00	19, 52					
	Condition:		Good condition.			Ant <sub>3c</sub>															
						Ant <sub>4a</sub>	RFS	6.50	0.75	5.00	2)1-5/8 t	96.8333	14.00	-4.00		53, 281					
						Ant <sub>4b</sub>	BXA 1710638BF E-DIN	6.00	4.00	48.00		95.9167	25.00	8.00	120.00	19, 53					
						Ant <sub>4c</sub>															
						Ant <sub>5a</sub>															
						Ant <sub>5b</sub>	Maximizer APL??65	9.50	8.00	48.00	1)1-5/8 t	96	24.00	10.50	120.00	19, 53					
						Ant <sub>5c</sub>															
						Ant on Standoff															
						Ant on Standoff															
						Ant on Tower	RRFDC-3315-PF-48	14.50	11.00	19.00	1.5 HYB	100	62.00			19, 30, 289					
						Ant on Tower															
						<b>Sector C</b>															
						Ant <sub>1a</sub>															
						Ant <sub>1b</sub>	Maximizer APL??65	9.50	8.00	48.00	1)1-5/5 t	95.9167	25.00	10.50	240.00	29, 54					
						Ant <sub>1c</sub>															
						Ant <sub>2a</sub>	9442 RRH2x40 AWS-4	12.00	8.00	20.50	jumper	97.9167	28.00	-8.00		29, 54					
						Ant <sub>2b</sub>	Kathrein 742213V01	6.00	3.00	77.00	Jumpers	97.0417	38.50	8.00	240.00	29, 54					
						Ant <sub>2c</sub>															
						Ant <sub>3a</sub>	RFS	6.50	0.75	5.00	2)1-5/8 t	96.6667	16.00	-4.00		54, 55					
						Ant <sub>3b</sub>	BXA 70063/6CF EDIN	11.00	5.00	71.00	jumper	95.3333	32.00	13.50	240.00	29, 54, 55					
						Ant <sub>3c</sub>															
						Ant <sub>4a</sub>	RFS	6.50	0.75	5.00	2)1-5/8 t	96.75	15.00	-4.00		29, 55					
						Ant <sub>4b</sub>	BXA 1710638BF E-DIN	6.00	4.00	48.00	jumper	95.9167	25.00	9.00	240.00	29, 55					
						Ant <sub>4c</sub>															
						Ant <sub>5a</sub>															
						Ant <sub>5b</sub>	Maximizer APL??65	9.50	8.00	48.00	1)1-5/8 t	95.9167	25.00	10.50	240.00	29, 55					
						Ant <sub>5c</sub>															
						Ant on Standoff															
						Ant on Standoff															
						Ant on Tower															
						Ant on Tower															
						<b>Sector D</b>															
						Ant <sub>1a</sub>															
						Ant <sub>1b</sub>															
						Ant <sub>1c</sub>															
						Ant <sub>2a</sub>															
						Ant <sub>2b</sub>															
						Ant <sub>2c</sub>															
						Ant <sub>3a</sub>															
						Ant <sub>3b</sub>															
						Ant <sub>3c</sub>															
						Ant <sub>4a</sub>															
						Ant <sub>4b</sub>															
						Ant <sub>4c</sub>															
						Ant <sub>5a</sub>															
						Ant <sub>5b</sub>															
						Ant <sub>5c</sub>															
						Ant on Standoff															
						Ant on Standoff															
						Ant on Tower															
						Ant on Tower															



**Observed Safety and Structural Issues During the Mount Mapping**

Issue #	Description of Issue	Photo #

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.



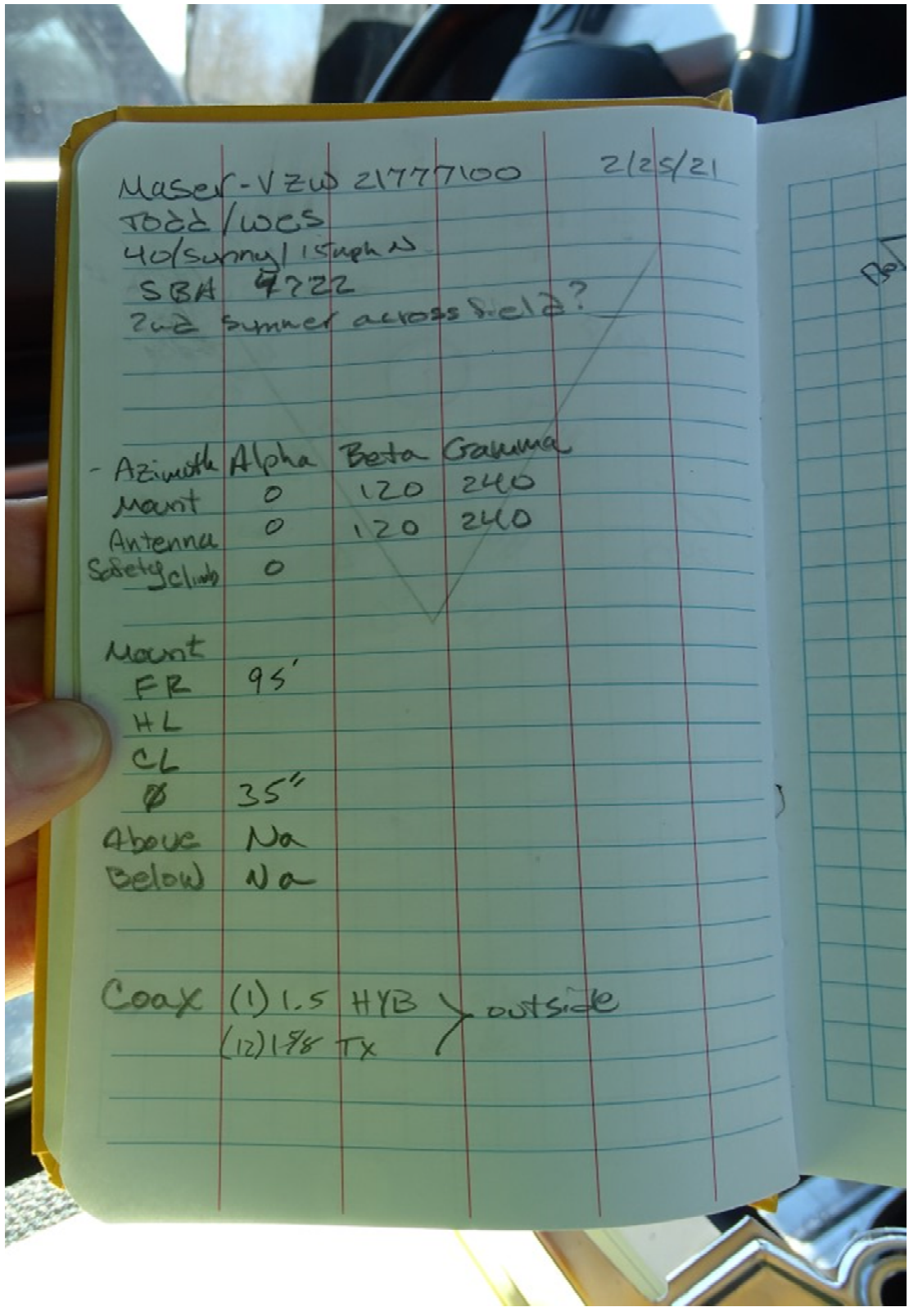
### Antenna Mount Mapping Form (PATENT PENDING)

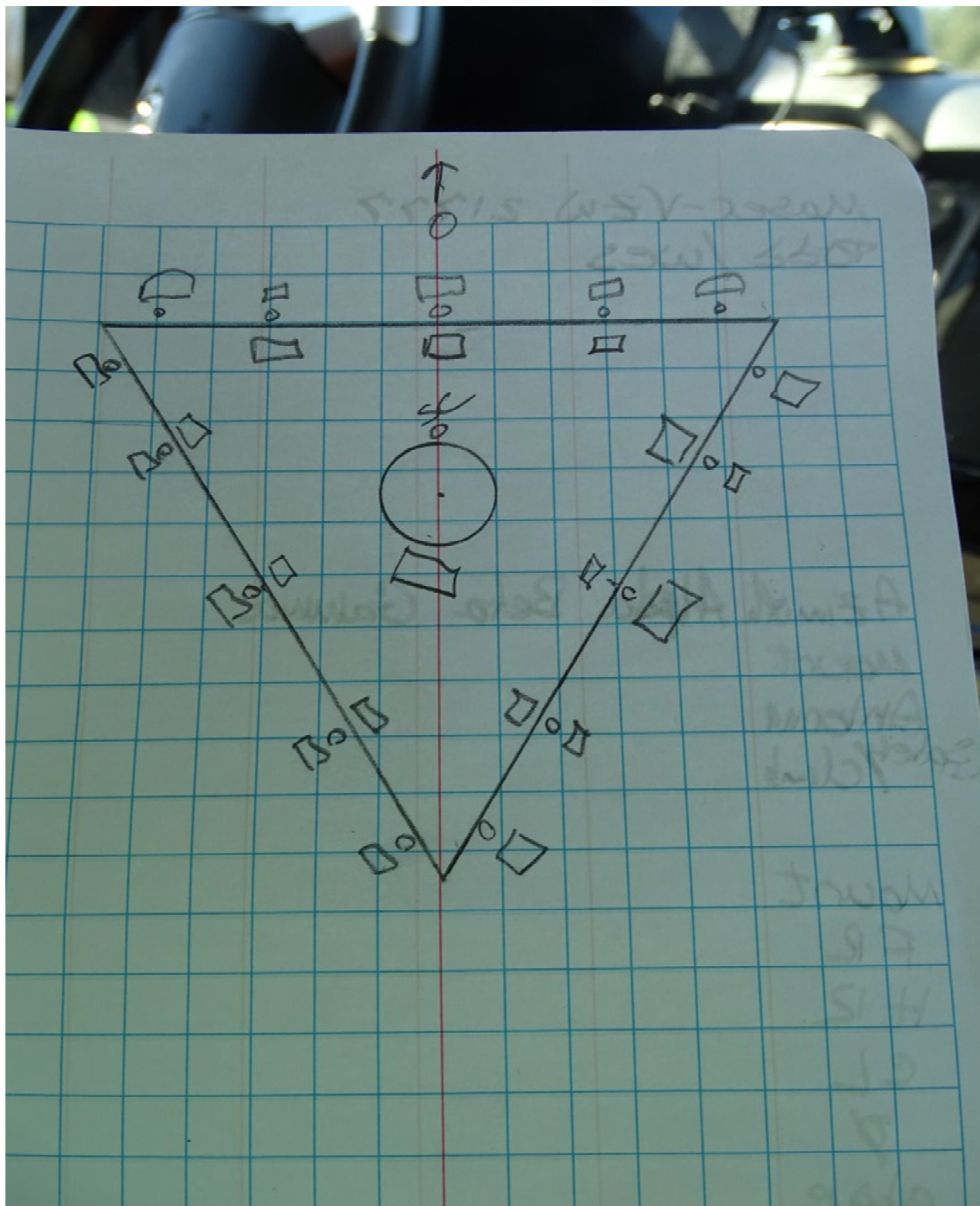
FCC #

Tower Owner:	SBA	Mapping Date:	2/25/2021
Site Name:	Monroe East CT	Tower Type:	Monopole
Site Number or ID:	2486310	Tower Height (Ft.):	
Mapping Contractor:	Structural Components	Mount Elevation (Ft.):	95

This antenna mapping form is the property of TES and under PATENT PENDING. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is prohibited except by express written permission of TES. All means and methods are the responsibility of the contractor and the work shall be compliant with ANSI/ASSE A 10.48, OSHA, FCC, FAA and other safety requirements that may apply. TES is not warranting the usability of the safety climb as it must be assessed prior to each use in compliance with OSHA requirements.

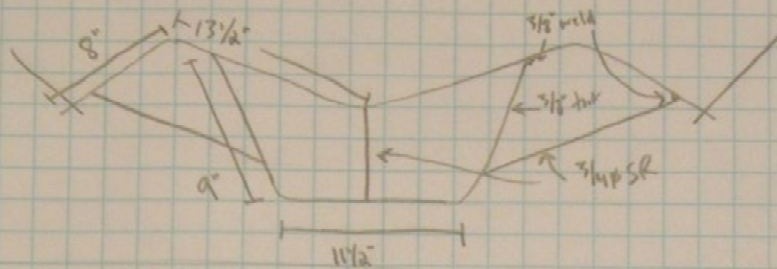
Please Insert Sketches of the Antenna Mount





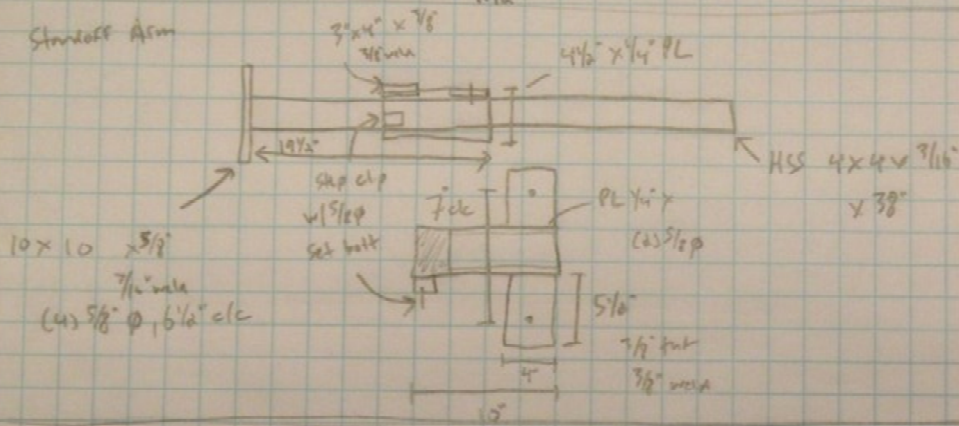
Monroe E. 2/25/21

Collar - 10" dia x 1/2"



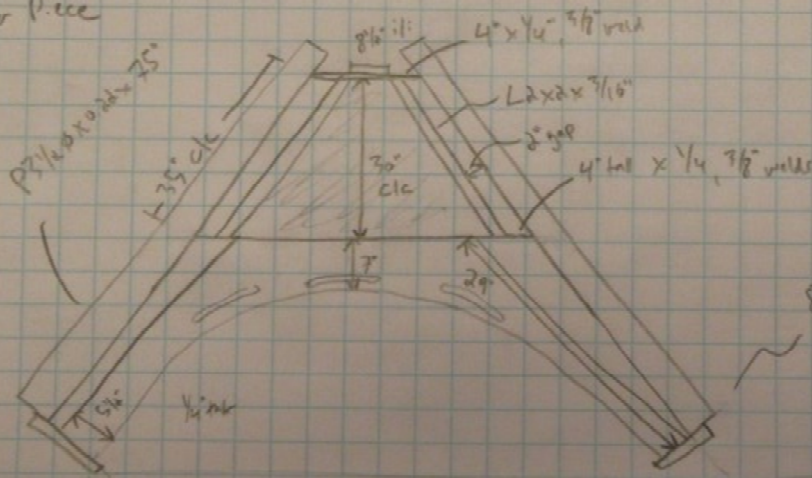
(2) 3/4" P.A.T.  
6" clc  
1 1/2" clc

Standoff Arm

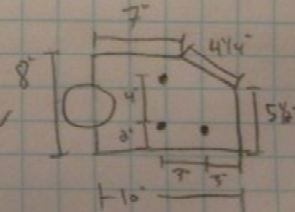


10 x 10 x 5/8"  
7/16" hole  
(4) 5/8" φ, 6 1/2" clc

Corner Piece

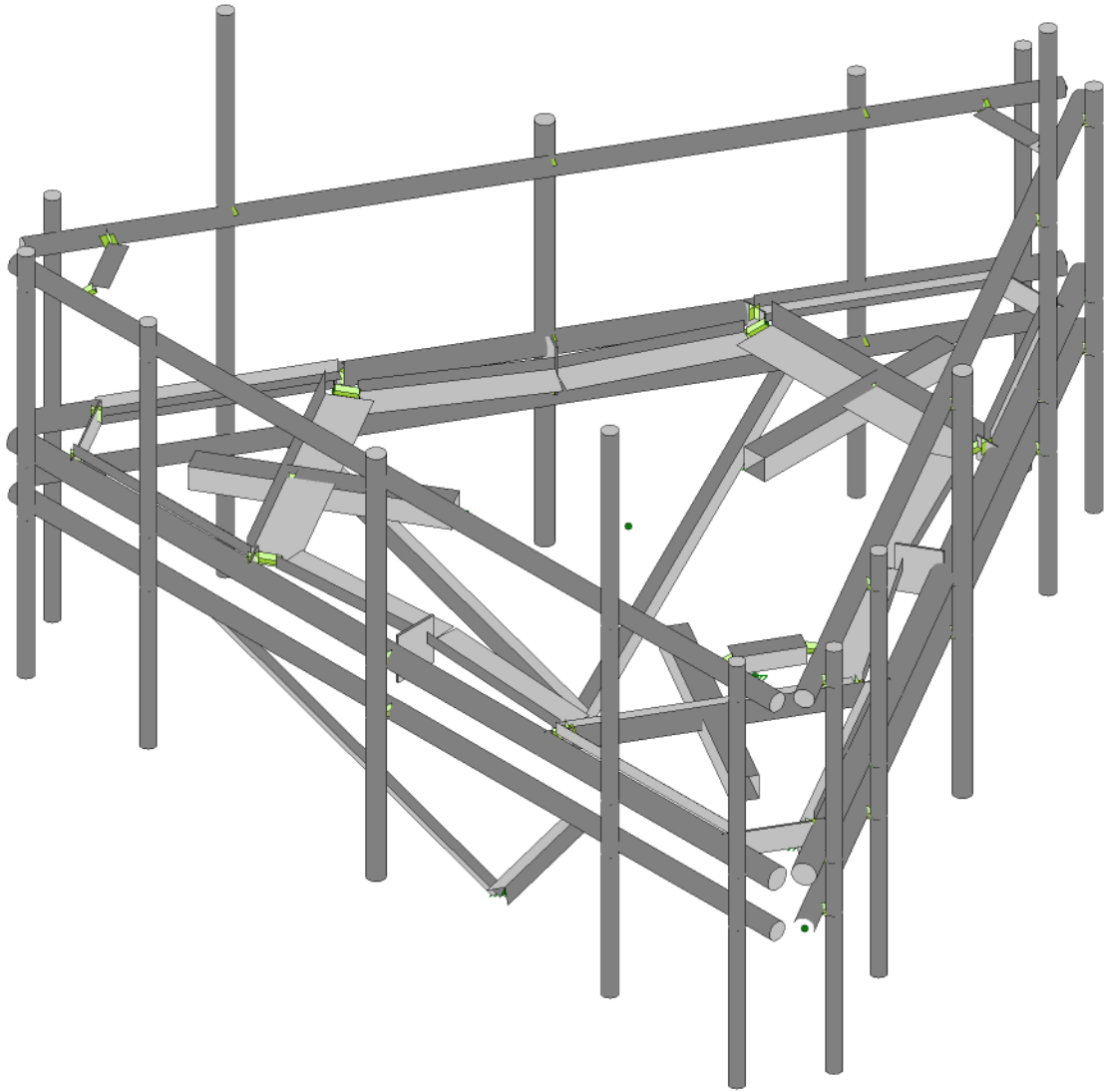
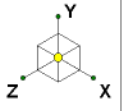


(3) 5/8" A 5/8" dia  
3/8" hole  
7"



Pipe Attach: BP 8" hole x 8" dia x 2" x 3/8"  
(4) 1/2" UB 4 1/2" clc, 6 1/2" clc





Envelope Only Solution

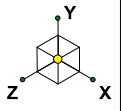
Maser Consulting

468601-VZW\_MT\_LO\_H

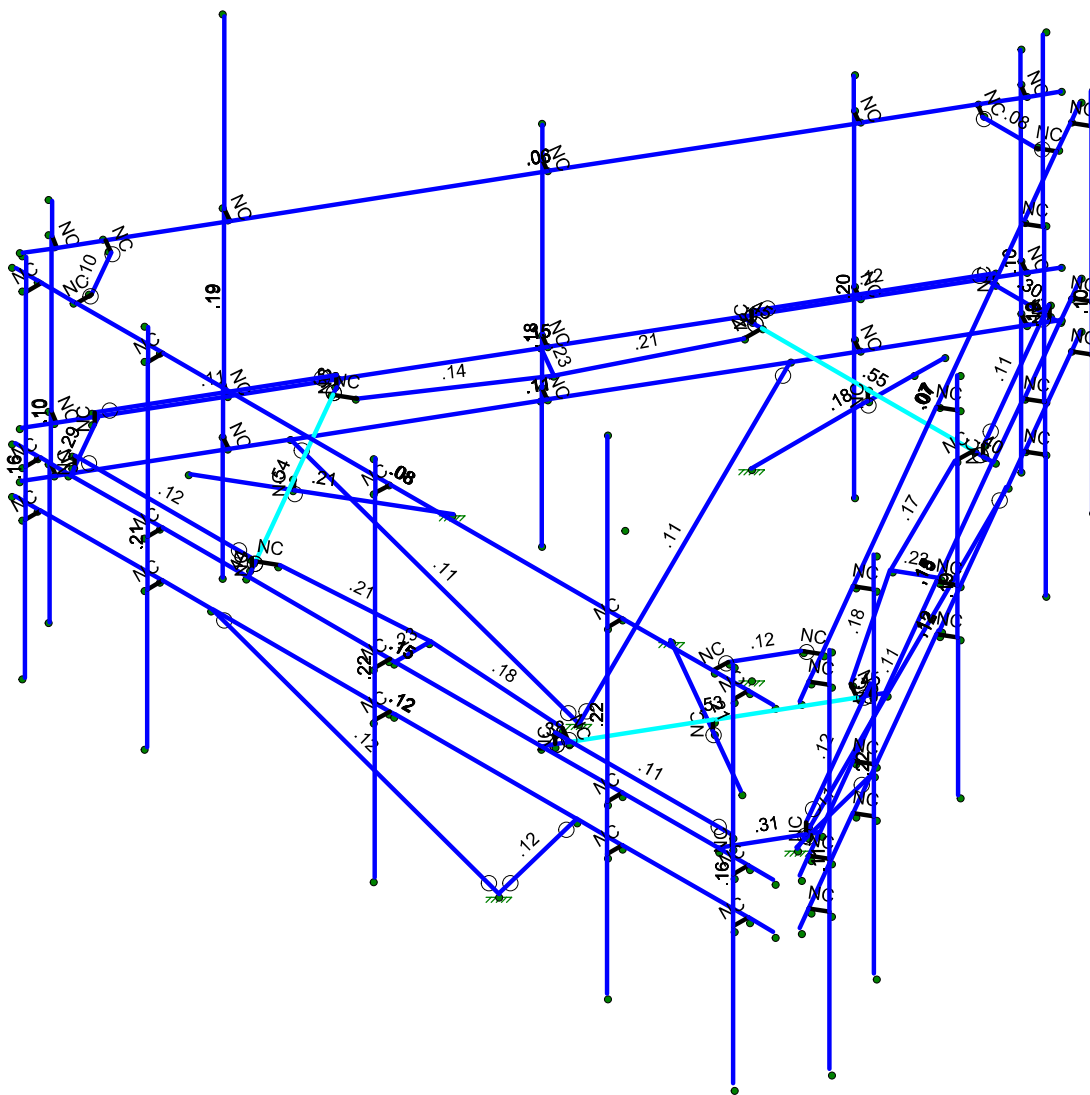
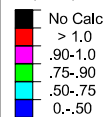
SK - 1

Apr 23, 2021 at 3:49 PM

MOD\_468601-VZW\_MT\_LO\_H.r3d



Code Check  
( Env )

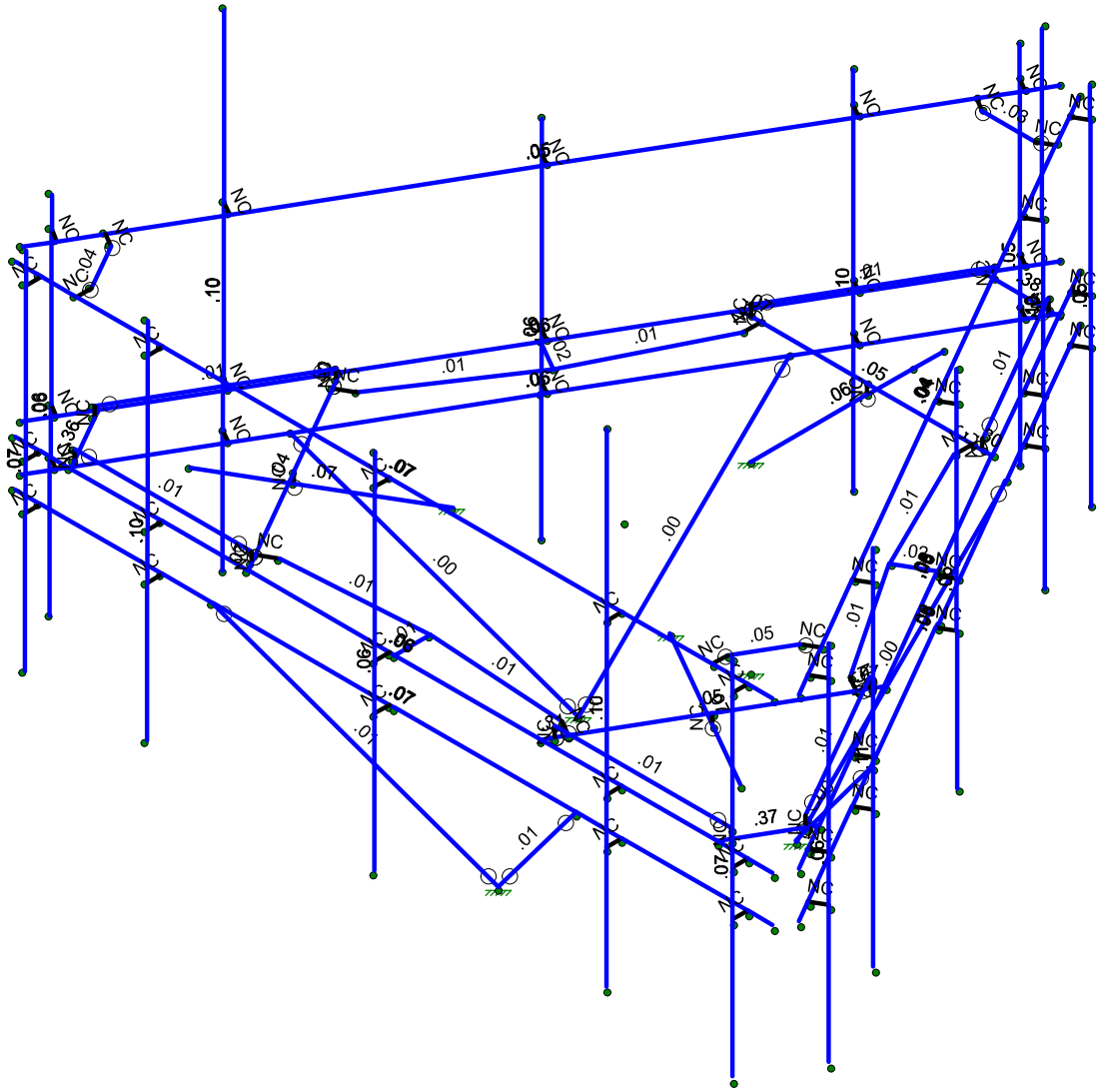
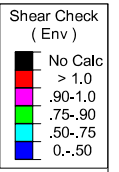
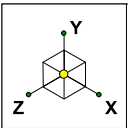


Member Code Checks Displayed (Enveloped)  
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SK - 2
Apr 23, 2021 at 3:50 PM
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Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

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468601-VZW\_MT\_LO\_H

SK - 3
Apr 23, 2021 at 3:50 PM
MOD_468601-VZW_MT_LO_H.r3d





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

**Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
52	Structure Wo (330 D...	None						126	
53	Structure Wi (0 Deg)	None						126	
54	Structure Wi (30 Deg)	None						126	
55	Structure Wi (60 Deg)	None						126	
56	Structure Wi (90 Deg)	None						126	
57	Structure Wi (120 De...	None						126	
58	Structure Wi (150 De...	None						126	
59	Structure Wi (180 De...	None						126	
60	Structure Wi (210 De...	None						126	
61	Structure Wi (240 De...	None						126	
62	Structure Wi (270 De...	None						126	
63	Structure Wi (300 De...	None						126	
64	Structure Wi (330 De...	None						126	
65	Structure Wm (0 Deg)	None						126	
66	Structure Wm (30 D...	None						126	
67	Structure Wm (60 D...	None						126	
68	Structure Wm (90 D...	None						126	
69	Structure Wm (120 ...	None						126	
70	Structure Wm (150 ...	None						126	
71	Structure Wm (180 ...	None						126	
72	Structure Wm (210 ...	None						126	
73	Structure Wm (240 ...	None						126	
74	Structure Wm (270 ...	None						126	
75	Structure Wm (300 ...	None						126	
76	Structure Wm (330 ...	None						126	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	BLC 39 Transient Are..	None						21	
82	BLC 40 Transient Are..	None						21	

**Load Combinations**

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	
1	1.2D+1.0Wo (0...	Yes	Y		1	1.2	39	1.2	3	1	41	1				
2	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	4	1	42	1				
3	1.2D+1.0Wo (6...	Yes	Y		1	1.2	39	1.2	5	1	43	1				
4	1.2D+1.0Wo (9...	Yes	Y		1	1.2	39	1.2	6	1	44	1				
5	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	7	1	45	1				
6	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	8	1	46	1				
7	1.2D+1.0Wo (1...	Yes	Y		1	1.2	39	1.2	9	1	47	1				
8	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	10	1	48	1				
9	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	11	1	49	1				
10	1.2D+1.0Wo (2...	Yes	Y		1	1.2	39	1.2	12	1	50	1				
11	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	13	1	51	1				
12	1.2D+1.0Wo (3...	Yes	Y		1	1.2	39	1.2	14	1	52	1				
13	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1
14	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1
15	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1
16	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1



### Load Combinations (Continued)

	Description	Solve	PDelta	S...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...	BLCFac...
17	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1		
18	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1		
19	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1		
20	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1		
21	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1		
22	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1		
23	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1		
24	1.2D + 1.0Di + ...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1		
25	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1				
26	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1				
27	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1				
28	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1				
29	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1				
30	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1				
31	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1				
32	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1				
33	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1				
34	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1				
35	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1				
36	1.2D + 1.5Lm1 ...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1				
37	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1				
38	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1				
39	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1				
40	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1				
41	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1				
42	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1				
43	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1				
44	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1				
45	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1				
46	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1				
47	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1				
48	1.2D + 1.5Lm2 ...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1				
49	1.2D + 1.5Lv1	Yes	Y		1	1.2	39	1.2	79	1.5								
50	1.2D + 1.5Lv2	Yes	Y		1	1.2	39	1.2	80	1.5								
51	1.4D	Yes	Y		1	1.4	39	1.4										

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	6.25	0	0	0	
3	N3	-6.25	0	0	0	
4	N4	0	0	-0.583333	0	
5	N5	-2.416667	0	0	0	
6	N6	2.416667	0	0	0	
7	N7	5.333333	0	0	0	
8	N8	-5.333333	0	0	0	
9	N9	0	0	-3.791667	0	
10	N10	3.28368	0	-5.6875	0	
11	N11	0.15868	0	-11.100159	0	
12	N12	6.40868	0	-0.274841	0	





**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
65	N73A	-1.794458	-0.166667	-2.755636	0	
66	N77	1.794458	-0.166667	-2.755636	0	
67	N74A	5.833333	0	0	0	
68	N75A	5.833333	0	.25	0	
69	N76A	5.833333	3	.25	0	
70	N77A	5.833333	-3	.25	0	
71	N78	3.75	0	0	0	
72	N79	3.75	0	.25	0	
73	N80	3.75	5.25	.25	0	
74	N81	3.75	-2.75	.25	0	
75	N86	-3.833333	0	0	0	
76	N87	-3.833333	0	.25	0	
77	N88	-3.833333	3	.25	0	
78	N89	-3.833333	-3	.25	0	
79	N90	-5.833333	0	0	0	
80	N91	-5.833333	0	.25	0	
81	N92	-5.833333	3	.25	0	
82	N93	-5.833333	-3	.25	0	
83	N95A	0.367013	0	-10.739315	0	
84	N96A	0.583519	0	-10.864315	0	
85	N97A	0.583519	3	-10.864315	0	
86	N98A	0.583519	-3	-10.864315	0	
87	N99A	1.40868	0	-8.935095	0	
88	N100A	1.625186	0	-9.060095	0	
89	N101A	1.625186	5.25	-9.060095	0	
90	N102A	1.625186	-2.75	-9.060095	0	
91	N106	5.200346	0	-2.367736	0	
92	N107	5.416853	0	-2.492736	0	
93	N108	5.416853	3	-2.492736	0	
94	N109	5.416853	-3	-2.492736	0	
95	N110	6.200346	0	-0.635685	0	
96	N111	6.416853	0	-0.760685	0	
97	N112	6.416853	3	-0.760685	0	
98	N113	6.416853	-3	-0.760685	0	
99	N116	-6.200346	0	-0.635685	0	
100	N117	-6.416853	0	-0.760685	0	
101	N118	-6.416853	3	-0.760685	0	
102	N119	-6.416853	-3	-0.760685	0	
103	N120	-5.15868	0	-2.439905	0	
104	N121	-5.375186	0	-2.564905	0	
105	N122	-5.375186	5.25	-2.564905	0	
106	N123	-5.375186	-2.75	-2.564905	0	
107	N127	-1.367013	0	-9.007264	0	
108	N128	-1.583519	0	-9.132264	0	
109	N129	-1.583519	3	-9.132264	0	
110	N130	-1.583519	-3	-9.132264	0	
111	N131	-0.367013	0	-10.739315	0	
112	N132	-0.583519	0	-10.864315	0	
113	N133	-0.583519	3	-10.864315	0	
114	N134	-0.583519	-3	-10.864315	0	
115	N131A	-0.	-0.166667	-9.030395	0	
116	N133A	-4.536872	-0.166667	-1.172303	0	





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
117	N135	4.536872	-0.166667	-1.172303	0	
118	N134A	-0.083333	0	0	0	
119	N136	-0.083333	0	.25	0	
120	N137	-0.083333	3	.25	0	
121	N138	-0.083333	-3	.25	0	
122	N136A	3.325346	0	-5.615331	0	
123	N138A	-3.242013	0	-5.759669	0	
124	N138B	3.541853	0	-5.740331	0	
125	N139	3.541853	3	-5.740331	0	
126	N140	3.541853	-3	-5.740331	0	
127	N138C	-3.458519	0	-5.884669	0	
128	N139A	-3.458519	3	-5.884669	0	
129	N140A	-3.458519	-3	-5.884669	0	
130	N137A	6.25	2.5	0	0	
131	N138D	-6.25	2.5	0	0	
132	N139B	0.15868	2.5	-11.100159	0	
133	N140B	6.40868	2.5	-0.274841	0	
134	N141	-6.40868	2.5	-0.274841	0	
135	N142	-0.15868	2.5	-11.100159	0	
136	N143	5.833333	2.5	0	0	
137	N144	5.833333	2.5	.25	0	
138	N145	3.75	2.5	0	0	
139	N146	3.75	2.5	.25	0	
140	N147	-3.833333	2.5	0	0	
141	N148	-3.833333	2.5	.25	0	
142	N149	-5.833333	2.5	0	0	
143	N150	-5.833333	2.5	.25	0	
144	N151	0.367013	2.5	-10.739315	0	
145	N152	0.583519	2.5	-10.864315	0	
146	N153	1.40868	2.5	-8.935095	0	
147	N154	1.625186	2.5	-9.060095	0	
148	N155	5.200346	2.5	-2.367736	0	
149	N156	5.416853	2.5	-2.492736	0	
150	N157	6.200346	2.5	-0.635685	0	
151	N158	6.416853	2.5	-0.760685	0	
152	N159	-6.200346	2.5	-0.635685	0	
153	N160	-6.416853	2.5	-0.760685	0	
154	N161	-5.15868	2.5	-2.439905	0	
155	N162	-5.375186	2.5	-2.564905	0	
156	N163	-1.367013	2.5	-9.007264	0	
157	N164	-1.583519	2.5	-9.132264	0	
158	N165	-0.367013	2.5	-10.739315	0	
159	N166	-0.583519	2.5	-10.864315	0	
160	N167	-0.083333	2.5	0	0	
161	N168	-0.083333	2.5	.25	0	
162	N169	3.325346	2.5	-5.615331	0	
163	N170	-3.242013	2.5	-5.759669	0	
164	N171	3.541853	2.5	-5.740331	0	
165	N172	-3.458519	2.5	-5.884669	0	
166	N173	-5.25	2.5	0	0	
167	N174	5.25	2.5	0	0	
168	N175	-5.25	2.5	-.25	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
169	N176	5.25	2.5	-.25	0	
170	N180	5.90868	2.5	-1.140867	0	
171	N181	0.65868	2.5	-10.234133	0	
172	N182	5.692173	2.5	-1.015867	0	
173	N183	0.442173	2.5	-10.109133	0	
174	N187	-0.65868	2.5	-10.234133	0	
175	N188	-5.90868	2.5	-1.140867	0	
176	N189	-0.442173	2.5	-10.109133	0	
177	N190	-5.692173	2.5	-1.015867	0	
178	N185	-0.	-0.166667	-8.530395	0	
179	N186	-0.	-3.166667	-5.863728	0	
180	N187A	-1.794458	-4.166667	-4.827697	0	
181	N188A	0.	-4.166667	-1.719605	0	
182	N189A	1.794458	-4.166667	-4.827697	0	
183	N190A	6.25	-.75	0	0	
184	N191	-6.25	-.75	0	0	
185	N192	5.833333	-.75	0	0	
186	N193	5.833333	-.75	.25	0	
187	N194	3.75	-.75	0	0	
188	N195	3.75	-.75	.25	0	
189	N196	-3.833333	-.75	0	0	
190	N197	-3.833333	-.75	.25	0	
191	N198	-5.833333	-.75	0	0	
192	N199	-5.833333	-.75	.25	0	
193	N200	-0.083333	-.75	0	0	
194	N201	-0.083333	-.75	.25	0	
195	N202	0	-.75	0	0	
196	N203	3	-.75	0	0	
197	N204	-3	-.75	0	0	
198	N206	0.158968	-.75	-11.100659	0	
199	N207	6.408968	-.75	-0.275341	0	
200	N208	0.367302	-.75	-10.739815	0	
201	N209	0.583519	-.75	-10.864315	0	
202	N210	1.408968	-.75	-8.935595	0	
203	N211	1.625186	-.75	-9.060095	0	
204	N212	5.200635	-.75	-2.368236	0	
205	N213	5.416853	-.75	-2.492736	0	
206	N214	6.200635	-.75	-0.636185	0	
207	N215	6.416853	-.75	-0.760685	0	
208	N216	3.325635	-.75	-5.615831	0	
209	N217	3.541853	-.75	-5.740331	0	
210	N218	3.283968	-.75	-5.688	0	
211	N219	1.783968	-.75	-8.286076	0	
212	N220	4.783968	-.75	-3.089924	0	
213	N222	-6.408968	-.75	-0.275341	0	
214	N223	-0.158968	-.75	-11.100659	0	
215	N224	-6.200635	-.75	-0.636185	0	
216	N225	-6.416853	-.75	-0.760685	0	
217	N226	-5.158968	-.75	-2.440405	0	
218	N227	-5.375186	-.75	-2.564905	0	
219	N228	-1.367302	-.75	-9.007764	0	
220	N229	-1.583519	-.75	-9.132264	0	





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
7	M7	N25	N8			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
8	M9	N32	N28			RIGID	None	None	RIGID	Typical
9	M10	N33	N29			RIGID	None	None	RIGID	Typical
10	M11	N30	N26A			RIGID	None	None	RIGID	Typical
11	M12	N31	N27			RIGID	None	None	RIGID	Typical
12	M13	N33	N30			Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
13	M14	N32	N31		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
14	M21	N7	N17			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
15	M23	N66	N62			RIGID	None	None	RIGID	Typical
16	M24	N67	N63			RIGID	None	None	RIGID	Typical
17	M25	N64	N60			RIGID	None	None	RIGID	Typical
18	M26	N65	N61			RIGID	None	None	RIGID	Typical
19	M27	N67	N64			Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
20	M28	N66	N65		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
21	M35	N16	N26			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
22	M37	N100	N96			RIGID	None	None	RIGID	Typical
23	M38	N101	N97			RIGID	None	None	RIGID	Typical
24	M39	N98	N94			RIGID	None	None	RIGID	Typical
25	M40	N99	N95			RIGID	None	None	RIGID	Typical
26	M41	N101	N98			Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
27	M42	N100	N99		270	Platform Angle	Beam	Single Angle	A36 Gr.36	Typical
28	M44	N54	N59			RIGID	None	None	RIGID	Typical
29	M46	N53	N58			RIGID	None	None	RIGID	Typical
30	M48	N59	N22		270	Circular Angle ...	Beam	Single Angle	A36 Gr.36	Typical
31	M49	N13	N58		270	Circular Angle ...	Beam	Single Angle	A36 Gr.36	Typical
32	M49A	N63A	N66A			RIGID	None	None	RIGID	Typical
33	M51	N62A	N65A			RIGID	None	None	RIGID	Typical
34	M53	N66A	N4		270	Circular Angle ...	Beam	Single Angle	A36 Gr.36	Typical
35	M54	N22	N65A		270	Circular Angle ...	Beam	Single Angle	A36 Gr.36	Typical
36	M55	N72	N75			RIGID	None	None	RIGID	Typical
37	M57	N71	N74			RIGID	None	None	RIGID	Typical
38	M59	N75	N13		270	Circular Angle ...	Beam	Single Angle	A36 Gr.36	Typical
39	M60	N4	N74		270	Circular Angle ...	Beam	Single Angle	A36 Gr.36	Typical
40	M61	N102	N68A	N9		RIGID	None	None	RIGID	Typical
41	M62	N131A	N69			Standoff HSS	Beam	Tube	A500 Gr. ...	Typical
42	M64	N133A	N73A			Standoff HSS	Beam	Tube	A500 Gr. ...	Typical
43	M66	N135	N77			Standoff HSS	Beam	Tube	A500 Gr. ...	Typical
44	M67	N74A	N75A			RIGID	None	None	RIGID	Typical
45	MP1A	N76A	N77A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
46	M69	N78	N79			RIGID	None	None	RIGID	Typical
47	MP2A	N80	N81			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
48	M73	N86	N87			RIGID	None	None	RIGID	Typical
49	MP4A	N88	N89			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
50	M75	N90	N91			RIGID	None	None	RIGID	Typical
51	MP5A	N92	N93			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
52	M77	N95A	N96A			RIGID	None	None	RIGID	Typical
53	MP1C	N97A	N98A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
54	M79	N99A	N100A			RIGID	None	None	RIGID	Typical
55	MP2C	N101A	N102A			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
56	M83	N106	N107			RIGID	None	None	RIGID	Typical
57	MP4C	N108	N109			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
58	M85	N110	N111			RIGID	None	None	RIGID	Typical

**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
59	MP5C	N112	N113			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
60	M87	N116	N117			RIGID	None	None	RIGID	Typical
61	MP1B	N118	N119			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
62	M89	N120	N121			RIGID	None	None	RIGID	Typical
63	MP2B	N122	N123			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
64	M93	N127	N128			RIGID	None	None	RIGID	Typical
65	MP4B	N129	N130			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
66	M95	N131	N132			RIGID	None	None	RIGID	Typical
67	MP5B	N133	N134			Mount Pipe	Column	Pipe	A53 Gr. B	Typical
68	M85A	N134A	N136			RIGID	None	None	RIGID	Typical
69	MP3A	N137	N138			Dual Antenna ...	Column	Pipe	A53 Gr. B	Typical
70	M85B	N136A	N138B			RIGID	None	None	RIGID	Typical
71	MP3C	N139	N140			Dual Antenna ...	Column	Pipe	A53 Gr. B	Typical
72	M85C	N138A	N138C			RIGID	None	None	RIGID	Typical
73	MP3B	N139A	N140A			Dual Antenna ...	Column	Pipe	A53 Gr. B	Typical
74	M85D	N143	N144			RIGID	None	None	RIGID	Typical
75	M86C	N145	N146			RIGID	None	None	RIGID	Typical
76	M87A	N147	N148			RIGID	None	None	RIGID	Typical
77	M88	N149	N150			RIGID	None	None	RIGID	Typical
78	M89A	N151	N152			RIGID	None	None	RIGID	Typical
79	M90	N153	N154			RIGID	None	None	RIGID	Typical
80	M91	N155	N156			RIGID	None	None	RIGID	Typical
81	M92	N157	N158			RIGID	None	None	RIGID	Typical
82	M93A	N159	N160			RIGID	None	None	RIGID	Typical
83	M94	N161	N162			RIGID	None	None	RIGID	Typical
84	M95A	N163	N164			RIGID	None	None	RIGID	Typical
85	M96	N165	N166			RIGID	None	None	RIGID	Typical
86	M97	N167	N168			RIGID	None	None	RIGID	Typical
87	M98	N169	N171			RIGID	None	None	RIGID	Typical
88	M99	N170	N172			RIGID	None	None	RIGID	Typical
89	M100	N138D	N137A			MOD Support ...	Beam	RECT	A53 Gr. B	Typical
90	M101	N140B	N139B			MOD Support ...	Beam	RECT	A53 Gr. B	Typical
91	M102	N142	N141			MOD Support ...	Beam	RECT	A53 Gr. B	Typical
92	M103	N175	N173			RIGID	None	None	RIGID	Typical
93	M104	N190	N188			RIGID	None	None	RIGID	Typical
94	M105	N190	N175		180	MOD Connecti...	Beam	RECT	A36 Gr.36	Typical
95	M106	N182	N180			RIGID	None	None	RIGID	Typical
96	M107	N176	N174			RIGID	None	None	RIGID	Typical
97	M108	N176	N182		180	MOD Connecti...	Beam	RECT	A36 Gr.36	Typical
98	M109	N189	N187			RIGID	None	None	RIGID	Typical
99	M110	N183	N181			RIGID	None	None	RIGID	Typical
100	M111	N183	N189		180	MOD Connecti...	Beam	RECT	A36 Gr.36	Typical
101	M112	N192	N193			RIGID	None	None	RIGID	Typical
102	M113	N194	N195			RIGID	None	None	RIGID	Typical
103	M114	N196	N197			RIGID	None	None	RIGID	Typical
104	M115	N198	N199			RIGID	None	None	RIGID	Typical
105	M116	N200	N201			RIGID	None	None	RIGID	Typical
106	M117	N191	N190A			MOD Support ...	Beam	RECT	A53 Gr. B	Typical
107	M118	N188A	N204		180	MOD Kicker	Beam	RECT	A36 Gr.36	Typical
108	M119	N188A	N203		90	MOD Kicker	Beam	RECT	A36 Gr.36	Typical
109	M120	N208	N209			RIGID	None	None	RIGID	Typical
110	M121	N210	N211			RIGID	None	None	RIGID	Typical



**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
111	M122	N212	N213			RIGID	None	None	RIGID	Typical
112	M123	N214	N215			RIGID	None	None	RIGID	Typical
113	M124	N216	N217			RIGID	None	None	RIGID	Typical
114	M125	N207	N206			MOD Support ...	Beam	RECT	A53 Gr. B	Typical
115	M126	N189A	N220		180	MOD Kicker	Beam	RECT	A36 Gr.36	Typical
116	M127	N189A	N219		90	MOD Kicker	Beam	RECT	A36 Gr.36	Typical
117	M128	N224	N225			RIGID	None	None	RIGID	Typical
118	M129	N226	N227			RIGID	None	None	RIGID	Typical
119	M130	N228	N229			RIGID	None	None	RIGID	Typical
120	M131	N230	N231			RIGID	None	None	RIGID	Typical
121	M132	N232	N233			RIGID	None	None	RIGID	Typical
122	M133	N223	N222			MOD Support ...	Beam	RECT	A53 Gr. B	Typical
123	M134	N187A	N236		180	MOD Kicker	Beam	RECT	A36 Gr.36	Typical
124	M135	N187A	N235		90	MOD Kicker	Beam	RECT	A36 Gr.36	Typical
125	M134A	N53	N54		270	Circle Angle	Beam	RECT	A36 Gr.36	Typical
126	M135A	N54	N23			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
127	M136	N53	N15			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
128	M129A	N230A	N233A	N9		RIGID	None	None	RIGID	Typical
129	M130A	N62A	N63A		270	Circle Angle	Beam	RECT	A36 Gr.36	Typical
130	M131A	N63A	N5			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
131	M132A	N62A	N24			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
132	M133A	N236A	N239	N9		RIGID	None	None	RIGID	Typical
133	M134B	N71	N72		270	Circle Angle	Beam	RECT	A36 Gr.36	Typical
134	M135B	N72	N14			Connection Pla...	Beam	RECT	A36 Gr.36	Typical
135	M136A	N71	N6			Connection Pla...	Beam	RECT	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M2						Yes				None
3	M3						Yes				None
4	M4						Yes				None
5	M5						Yes				None
6	M6						Yes				None
7	M7						Yes				None
8	M9						Yes	** NA **			None
9	M10						Yes	** NA **			None
10	M11						Yes	** NA **			None
11	M12						Yes	** NA **			None
12	M13	OOOOOX	OOOOOX				Yes	Default			None
13	M14	OOOOXO	OOOOXO				Yes	Default			None
14	M21						Yes				None
15	M23						Yes	** NA **			None
16	M24						Yes	** NA **			None
17	M25						Yes	** NA **			None
18	M26						Yes	** NA **			None
19	M27	OOOOOX	OOOOOX				Yes	Default			None
20	M28	OOOOXO	OOOOXO				Yes	Default			None
21	M35						Yes				None
22	M37						Yes	** NA **			None

***Member Advanced Data (Continued)***

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
23	M38						Yes	** NA **			None
24	M39						Yes	** NA **			None
25	M40						Yes	** NA **			None
26	M41	OOOOOX	OOOOOX				Yes	Default			None
27	M42	OOOOXO	OOOOXO				Yes	Default			None
28	M44						Yes	** NA **			None
29	M46						Yes	** NA **			None
30	M48						Yes				None
31	M49						Yes				None
32	M49A						Yes	** NA **			None
33	M51						Yes	** NA **			None
34	M53						Yes				None
35	M54						Yes				None
36	M55						Yes	** NA **			None
37	M57						Yes	** NA **			None
38	M59						Yes				None
39	M60						Yes				None
40	M61	OOOOOX					Yes	** NA **			None
41	M62						Yes				None
42	M64						Yes				None
43	M66						Yes				None
44	M67						Yes	** NA **			None
45	MP1A						Yes	** NA **			None
46	M69						Yes	** NA **			None
47	MP2A						Yes	** NA **			None
48	M73						Yes	** NA **			None
49	MP4A						Yes	** NA **			None
50	M75						Yes	** NA **			None
51	MP5A						Yes	** NA **			None
52	M77						Yes	** NA **			None
53	MP1C						Yes	** NA **			None
54	M79						Yes	** NA **			None
55	MP2C						Yes	** NA **			None
56	M83						Yes	** NA **			None
57	MP4C						Yes	** NA **			None
58	M85						Yes	** NA **			None
59	MP5C						Yes	** NA **			None
60	M87						Yes	** NA **			None
61	MP1B						Yes	** NA **			None
62	M89						Yes	** NA **			None
63	MP2B						Yes	** NA **			None
64	M93						Yes	** NA **			None
65	MP4B						Yes	** NA **			None
66	M95						Yes	** NA **			None
67	MP5B						Yes	** NA **			None
68	M85A						Yes	** NA **			None
69	MP3A						Yes	** NA **			None
70	M85B						Yes	** NA **			None
71	MP3C						Yes	** NA **			None
72	M85C						Yes	** NA **			None
73	MP3B						Yes	** NA **			None
74	M85D						Yes	** NA **			None







**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
127	M136		BenPIN				Yes	Default			None
128	M129A	OOOOOX					Yes	** NA **			None
129	M130A						Yes				None
130	M131A		BenPIN				Yes	Default			None
131	M132A		BenPIN				Yes	Default			None
132	M133A	OOOOOX					Yes	** NA **			None
133	M134B						Yes				None
134	M135B		BenPIN				Yes	Default			None
135	M136A		BenPIN				Yes	Default			None

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-32.5	1.25
2	MP3A	My	-.016	1.25
3	MP3A	Mz	.018	1.25
4	MP3A	Y	-32.5	4.25
5	MP3A	My	-.016	4.25
6	MP3A	Mz	.018	4.25
7	MP3B	Y	-32.5	1.25
8	MP3B	My	-.007	1.25
9	MP3B	Mz	-.023	1.25
10	MP3B	Y	-32.5	4.25
11	MP3B	My	-.007	4.25
12	MP3B	Mz	-.023	4.25
13	MP3C	Y	-32.5	1.25
14	MP3C	My	.023	1.25
15	MP3C	Mz	.005	1.25
16	MP3C	Y	-32.5	4.25
17	MP3C	My	.023	4.25
18	MP3C	Mz	.005	4.25
19	MP3A	Y	-32.5	1.25
20	MP3A	My	-.016	1.25
21	MP3A	Mz	-.018	1.25
22	MP3A	Y	-32.5	4.25
23	MP3A	My	-.016	4.25
24	MP3A	Mz	-.018	4.25
25	MP3B	Y	-32.5	1.25
26	MP3B	My	.023	1.25
27	MP3B	Mz	-.005	1.25
28	MP3B	Y	-32.5	4.25
29	MP3B	My	.023	4.25
30	MP3B	Mz	-.005	4.25
31	MP3C	Y	-32.5	1.25
32	MP3C	My	-.007	1.25
33	MP3C	Mz	.023	1.25
34	MP3C	Y	-32.5	4.25
35	MP3C	My	-.007	4.25
36	MP3C	Mz	.023	4.25
37	MP4A	Y	-43.55	1.75
38	MP4A	My	-.022	1.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP1B	Y	-7.85	3.25
92	MP1B	My	.002	3.25
93	MP1B	Mz	-.003	3.25
94	MP1C	Y	-7.85	.25
95	MP1C	My	.002	.25
96	MP1C	Mz	.003	.25
97	MP1C	Y	-7.85	3.25
98	MP1C	My	.002	3.25
99	MP1C	Mz	.003	3.25
100	MP5C	Y	-7.85	.25
101	MP5C	My	.002	.25
102	MP5C	Mz	.003	.25
103	MP5C	Y	-7.85	3.25
104	MP5C	My	.002	3.25
105	MP5C	Mz	.003	3.25
106	MP5B	Y	-7.85	.25
107	MP5B	My	.002	.25
108	MP5B	Mz	-.003	.25
109	MP5B	Y	-7.85	3.25
110	MP5B	My	.002	3.25
111	MP5B	Mz	-.003	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	Y	-66.301	1.25
2	MP3A	My	-.033	1.25
3	MP3A	Mz	.036	1.25
4	MP3A	Y	-66.301	4.25
5	MP3A	My	-.033	4.25
6	MP3A	Mz	.036	4.25
7	MP3B	Y	-66.301	1.25
8	MP3B	My	-.015	1.25
9	MP3B	Mz	-.047	1.25
10	MP3B	Y	-66.301	4.25
11	MP3B	My	-.015	4.25
12	MP3B	Mz	-.047	4.25
13	MP3C	Y	-66.301	1.25
14	MP3C	My	.048	1.25
15	MP3C	Mz	.011	1.25
16	MP3C	Y	-66.301	4.25
17	MP3C	My	.048	4.25
18	MP3C	Mz	.011	4.25
19	MP3A	Y	-66.301	1.25
20	MP3A	My	-.033	1.25
21	MP3A	Mz	-.036	1.25
22	MP3A	Y	-66.301	4.25
23	MP3A	My	-.033	4.25
24	MP3A	Mz	-.036	4.25
25	MP3B	Y	-66.301	1.25
26	MP3B	My	.048	1.25
27	MP3B	Mz	-.011	1.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP1A	My	-.043	5.25
81	MP1A	Mz	0	5.25
82	MP5A	Y	-86.191	.25
83	MP5A	My	-.043	.25
84	MP5A	Mz	0	.25
85	MP5A	Y	-86.191	5.25
86	MP5A	My	-.043	5.25
87	MP5A	Mz	0	5.25
88	MP1B	Y	-36.67	.25
89	MP1B	My	.009	.25
90	MP1B	Mz	-.016	.25
91	MP1B	Y	-36.67	3.25
92	MP1B	My	.009	3.25
93	MP1B	Mz	-.016	3.25
94	MP1C	Y	-36.67	.25
95	MP1C	My	.009	.25
96	MP1C	Mz	.016	.25
97	MP1C	Y	-36.67	3.25
98	MP1C	My	.009	3.25
99	MP1C	Mz	.016	3.25
100	MP5C	Y	-36.67	.25
101	MP5C	My	.009	.25
102	MP5C	Mz	.016	.25
103	MP5C	Y	-36.67	3.25
104	MP5C	My	.009	3.25
105	MP5C	Mz	.016	3.25
106	MP5B	Y	-36.67	.25
107	MP5B	My	.009	.25
108	MP5B	Mz	-.016	.25
109	MP5B	Y	-36.67	3.25
110	MP5B	My	.009	3.25
111	MP5B	Mz	-.016	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.25
2	MP3A	Z	-152.32	1.25
3	MP3A	Mx	-.083	1.25
4	MP3A	X	0	4.25
5	MP3A	Z	-152.32	4.25
6	MP3A	Mx	-.083	4.25
7	MP3B	X	0	1.25
8	MP3B	Z	-133.631	1.25
9	MP3B	Mx	.094	1.25
10	MP3B	X	0	4.25
11	MP3B	Z	-133.631	4.25
12	MP3B	Mx	.094	4.25
13	MP3C	X	0	1.25
14	MP3C	Z	-133.631	1.25
15	MP3C	Mx	-.022	1.25
16	MP3C	X	0	4.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP3C	Z	-133.631	4.25
18	MP3C	Mx	-.022	4.25
19	MP3A	X	0	1.25
20	MP3A	Z	-152.32	1.25
21	MP3A	Mx	.083	1.25
22	MP3A	X	0	4.25
23	MP3A	Z	-152.32	4.25
24	MP3A	Mx	.083	4.25
25	MP3B	X	0	1.25
26	MP3B	Z	-133.631	1.25
27	MP3B	Mx	.022	1.25
28	MP3B	X	0	4.25
29	MP3B	Z	-133.631	4.25
30	MP3B	Mx	.022	4.25
31	MP3C	X	0	1.25
32	MP3C	Z	-133.631	1.25
33	MP3C	Mx	-.094	1.25
34	MP3C	X	0	4.25
35	MP3C	Z	-133.631	4.25
36	MP3C	Mx	-.094	4.25
37	MP4A	X	0	1.75
38	MP4A	Z	-88.057	1.75
39	MP4A	Mx	0	1.75
40	MP4A	X	0	3.75
41	MP4A	Z	-88.057	3.75
42	MP4A	Mx	0	3.75
43	MP4B	X	0	1.75
44	MP4B	Z	-47.87	1.75
45	MP4B	Mx	.021	1.75
46	MP4B	X	0	3.75
47	MP4B	Z	-47.87	3.75
48	MP4B	Mx	.021	3.75
49	MP4C	X	0	1.75
50	MP4C	Z	-47.87	1.75
51	MP4C	Mx	-.021	1.75
52	MP4C	X	0	3.75
53	MP4C	Z	-47.87	3.75
54	MP4C	Mx	-.021	3.75
55	MP2A	X	0	.25
56	MP2A	Z	-97.799	.25
57	MP2A	Mx	0	.25
58	MP2A	X	0	2
59	MP2A	Z	-70.071	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	-52.647	2
63	MP2B	Mx	-.023	2
64	MP2C	X	0	2
65	MP2C	Z	-52.647	2
66	MP2C	Mx	.023	2
67	MP3A	X	0	1.75
68	MP3A	Z	-70.071	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP3A	Mx	0	1.75
70	MP3B	X	0	1.75
71	MP3B	Z	-45.972	1.75
72	MP3B	Mx	-.02	1.75
73	MP3C	X	0	1.75
74	MP3C	Z	-45.972	1.75
75	MP3C	Mx	.02	1.75
76	MP1A	X	0	.25
77	MP1A	Z	-182.858	.25
78	MP1A	Mx	0	.25
79	MP1A	X	0	5.25
80	MP1A	Z	-182.858	5.25
81	MP1A	Mx	0	5.25
82	MP5A	X	0	.25
83	MP5A	Z	-182.858	.25
84	MP5A	Mx	0	.25
85	MP5A	X	0	5.25
86	MP5A	Z	-182.858	5.25
87	MP5A	Mx	0	5.25
88	MP1B	X	0	.25
89	MP1B	Z	-69.764	.25
90	MP1B	Mx	.03	.25
91	MP1B	X	0	3.25
92	MP1B	Z	-69.764	3.25
93	MP1B	Mx	.03	3.25
94	MP1C	X	0	.25
95	MP1C	Z	-69.764	.25
96	MP1C	Mx	-.03	.25
97	MP1C	X	0	3.25
98	MP1C	Z	-69.764	3.25
99	MP1C	Mx	-.03	3.25
100	MP5C	X	0	.25
101	MP5C	Z	-69.764	.25
102	MP5C	Mx	-.03	.25
103	MP5C	X	0	3.25
104	MP5C	Z	-69.764	3.25
105	MP5C	Mx	-.03	3.25
106	MP5B	X	0	.25
107	MP5B	Z	-69.764	.25
108	MP5B	Mx	.03	.25
109	MP5B	X	0	3.25
110	MP5B	Z	-69.764	3.25
111	MP5B	Mx	.03	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	73.045	1.25
2	MP3A	Z	-126.518	1.25
3	MP3A	Mx	-.105	1.25
4	MP3A	X	73.045	4.25
5	MP3A	Z	-126.518	4.25









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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
110	MP5B	Z	-58.652	3.25
111	MP5B	Mx	.034	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	115.728	1.25
2	MP3A	Z	-66.815	1.25
3	MP3A	Mx	-.094	1.25
4	MP3A	X	115.728	4.25
5	MP3A	Z	-66.815	4.25
6	MP3A	Mx	-.094	4.25
7	MP3B	X	115.728	1.25
8	MP3B	Z	-66.815	1.25
9	MP3B	Mx	.022	1.25
10	MP3B	X	115.728	4.25
11	MP3B	Z	-66.815	4.25
12	MP3B	Mx	.022	4.25
13	MP3C	X	131.913	1.25
14	MP3C	Z	-76.16	1.25
15	MP3C	Mx	.083	1.25
16	MP3C	X	131.913	4.25
17	MP3C	Z	-76.16	4.25
18	MP3C	Mx	.083	4.25
19	MP3A	X	115.728	1.25
20	MP3A	Z	-66.815	1.25
21	MP3A	Mx	-.022	1.25
22	MP3A	X	115.728	4.25
23	MP3A	Z	-66.815	4.25
24	MP3A	Mx	-.022	4.25
25	MP3B	X	115.728	1.25
26	MP3B	Z	-66.815	1.25
27	MP3B	Mx	.094	1.25
28	MP3B	X	115.728	4.25
29	MP3B	Z	-66.815	4.25
30	MP3B	Mx	.094	4.25
31	MP3C	X	131.913	1.25
32	MP3C	Z	-76.16	1.25
33	MP3C	Mx	-.083	1.25
34	MP3C	X	131.913	4.25
35	MP3C	Z	-76.16	4.25
36	MP3C	Mx	-.083	4.25
37	MP4A	X	41.456	1.75
38	MP4A	Z	-23.935	1.75
39	MP4A	Mx	-.021	1.75
40	MP4A	X	41.456	3.75
41	MP4A	Z	-23.935	3.75
42	MP4A	Mx	-.021	3.75
43	MP4B	X	41.456	1.75
44	MP4B	Z	-23.935	1.75
45	MP4B	Mx	.021	1.75
46	MP4B	X	41.456	3.75





Company : Maser Consulting  
Designer :  
Job Number :  
Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
3:50 PM  
Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP1C	Mx	0	3.25
100	MP5C	X	65.713	.25
101	MP5C	Z	-37.939	.25
102	MP5C	Mx	0	.25
103	MP5C	X	65.713	3.25
104	MP5C	Z	-37.939	3.25
105	MP5C	Mx	0	3.25
106	MP5B	X	60.417	.25
107	MP5B	Z	-34.882	.25
108	MP5B	Mx	.03	.25
109	MP5B	X	60.417	3.25
110	MP5B	Z	-34.882	3.25
111	MP5B	Mx	.03	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	127.401	1.25
2	MP3A	Z	0	1.25
3	MP3A	Mx	-.064	1.25
4	MP3A	X	127.401	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	-.064	4.25
7	MP3B	X	146.09	1.25
8	MP3B	Z	0	1.25
9	MP3B	Mx	-.032	1.25
10	MP3B	X	146.09	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	-.032	4.25
13	MP3C	X	146.09	1.25
14	MP3C	Z	0	1.25
15	MP3C	Mx	.105	1.25
16	MP3C	X	146.09	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	.105	4.25
19	MP3A	X	127.401	1.25
20	MP3A	Z	0	1.25
21	MP3A	Mx	-.064	1.25
22	MP3A	X	127.401	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	-.064	4.25
25	MP3B	X	146.09	1.25
26	MP3B	Z	0	1.25
27	MP3B	Mx	.105	1.25
28	MP3B	X	146.09	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	.105	4.25
31	MP3C	X	146.09	1.25
32	MP3C	Z	0	1.25
33	MP3C	Mx	-.032	1.25
34	MP3C	X	146.09	4.25
35	MP3C	Z	0	4.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
36	MP3C	Mx	-.032	4.25
37	MP4A	X	34.474	1.75
38	MP4A	Z	0	1.75
39	MP4A	Mx	-.017	1.75
40	MP4A	X	34.474	3.75
41	MP4A	Z	0	3.75
42	MP4A	Mx	-.017	3.75
43	MP4B	X	74.661	1.75
44	MP4B	Z	0	1.75
45	MP4B	Mx	.019	1.75
46	MP4B	X	74.661	3.75
47	MP4B	Z	0	3.75
48	MP4B	Mx	.019	3.75
49	MP4C	X	74.661	1.75
50	MP4C	Z	0	1.75
51	MP4C	Mx	.019	1.75
52	MP4C	X	74.661	3.75
53	MP4C	Z	0	3.75
54	MP4C	Mx	.019	3.75
55	MP2A	X	74.755	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	.037	.25
58	MP2A	X	46.839	2
59	MP2A	Z	0	2
60	MP2A	Mx	.023	2
61	MP2B	X	64.263	2
62	MP2B	Z	0	2
63	MP2B	Mx	-.016	2
64	MP2C	X	64.263	2
65	MP2C	Z	0	2
66	MP2C	Mx	-.016	2
67	MP3A	X	37.939	1.75
68	MP3A	Z	0	1.75
69	MP3A	Mx	.019	1.75
70	MP3B	X	62.038	1.75
71	MP3B	Z	0	1.75
72	MP3B	Mx	-.016	1.75
73	MP3C	X	62.038	1.75
74	MP3C	Z	0	1.75
75	MP3C	Mx	-.016	1.75
76	MP1A	X	161.187	.25
77	MP1A	Z	0	.25
78	MP1A	Mx	-.081	.25
79	MP1A	X	161.187	5.25
80	MP1A	Z	0	5.25
81	MP1A	Mx	-.081	5.25
82	MP5A	X	161.187	.25
83	MP5A	Z	0	.25
84	MP5A	Mx	-.081	.25
85	MP5A	X	161.187	5.25
86	MP5A	Z	0	5.25
87	MP5A	Mx	-.081	5.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
88	MP1B	X	73.84	.25
89	MP1B	Z	0	.25
90	MP1B	Mx	.018	.25
91	MP1B	X	73.84	3.25
92	MP1B	Z	0	3.25
93	MP1B	Mx	.018	3.25
94	MP1C	X	73.84	.25
95	MP1C	Z	0	.25
96	MP1C	Mx	.018	.25
97	MP1C	X	73.84	3.25
98	MP1C	Z	0	3.25
99	MP1C	Mx	.018	3.25
100	MP5C	X	73.84	.25
101	MP5C	Z	0	.25
102	MP5C	Mx	.018	.25
103	MP5C	X	73.84	3.25
104	MP5C	Z	0	3.25
105	MP5C	Mx	.018	3.25
106	MP5B	X	73.84	.25
107	MP5B	Z	0	.25
108	MP5B	Mx	.018	.25
109	MP5B	X	73.84	3.25
110	MP5B	Z	0	3.25
111	MP5B	Mx	.018	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	115.728	1.25
2	MP3A	Z	66.815	1.25
3	MP3A	Mx	-.022	1.25
4	MP3A	X	115.728	4.25
5	MP3A	Z	66.815	4.25
6	MP3A	Mx	-.022	4.25
7	MP3B	X	131.913	1.25
8	MP3B	Z	76.16	1.25
9	MP3B	Mx	-.083	1.25
10	MP3B	X	131.913	4.25
11	MP3B	Z	76.16	4.25
12	MP3B	Mx	-.083	4.25
13	MP3C	X	115.728	1.25
14	MP3C	Z	66.815	1.25
15	MP3C	Mx	.094	1.25
16	MP3C	X	115.728	4.25
17	MP3C	Z	66.815	4.25
18	MP3C	Mx	.094	4.25
19	MP3A	X	115.728	1.25
20	MP3A	Z	66.815	1.25
21	MP3A	Mx	-.094	1.25
22	MP3A	X	115.728	4.25
23	MP3A	Z	66.815	4.25
24	MP3A	Mx	-.094	4.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP1A	Z	83.303	.25
78	MP1A	Mx	-.072	.25
79	MP1A	X	144.284	5.25
80	MP1A	Z	83.303	5.25
81	MP1A	Mx	-.072	5.25
82	MP5A	X	144.284	.25
83	MP5A	Z	83.303	.25
84	MP5A	Mx	-.072	.25
85	MP5A	X	144.284	5.25
86	MP5A	Z	83.303	5.25
87	MP5A	Mx	-.072	5.25
88	MP1B	X	65.713	.25
89	MP1B	Z	37.939	.25
90	MP1B	Mx	0	.25
91	MP1B	X	65.713	3.25
92	MP1B	Z	37.939	3.25
93	MP1B	Mx	0	3.25
94	MP1C	X	60.417	.25
95	MP1C	Z	34.882	.25
96	MP1C	Mx	.03	.25
97	MP1C	X	60.417	3.25
98	MP1C	Z	34.882	3.25
99	MP1C	Mx	.03	3.25
100	MP5C	X	60.417	.25
101	MP5C	Z	34.882	.25
102	MP5C	Mx	.03	.25
103	MP5C	X	60.417	3.25
104	MP5C	Z	34.882	3.25
105	MP5C	Mx	.03	3.25
106	MP5B	X	65.713	.25
107	MP5B	Z	37.939	.25
108	MP5B	Mx	0	.25
109	MP5B	X	65.713	3.25
110	MP5B	Z	37.939	3.25
111	MP5B	Mx	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	73.045	1.25
2	MP3A	Z	126.518	1.25
3	MP3A	Mx	.032	1.25
4	MP3A	X	73.045	4.25
5	MP3A	Z	126.518	4.25
6	MP3A	Mx	.032	4.25
7	MP3B	X	73.045	1.25
8	MP3B	Z	126.518	1.25
9	MP3B	Mx	-.105	1.25
10	MP3B	X	73.045	4.25
11	MP3B	Z	126.518	4.25
12	MP3B	Mx	-.105	4.25
13	MP3C	X	63.701	1.25







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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
66	MP2C	Mx	-.023	2
67	MP3A	X	31.019	1.75
68	MP3A	Z	53.726	1.75
69	MP3A	Mx	.016	1.75
70	MP3B	X	31.019	1.75
71	MP3B	Z	53.726	1.75
72	MP3B	Mx	.016	1.75
73	MP3C	X	18.97	1.75
74	MP3C	Z	32.856	1.75
75	MP3C	Mx	-.019	1.75
76	MP1A	X	88.72	.25
77	MP1A	Z	153.668	.25
78	MP1A	Mx	-.044	.25
79	MP1A	X	88.72	5.25
80	MP1A	Z	153.668	5.25
81	MP1A	Mx	-.044	5.25
82	MP5A	X	88.72	.25
83	MP5A	Z	153.668	.25
84	MP5A	Mx	-.044	.25
85	MP5A	X	88.72	5.25
86	MP5A	Z	153.668	5.25
87	MP5A	Mx	-.044	5.25
88	MP1B	X	36.92	.25
89	MP1B	Z	63.948	.25
90	MP1B	Mx	-.018	.25
91	MP1B	X	36.92	3.25
92	MP1B	Z	63.948	3.25
93	MP1B	Mx	-.018	3.25
94	MP1C	X	33.863	.25
95	MP1C	Z	58.652	.25
96	MP1C	Mx	.034	.25
97	MP1C	X	33.863	3.25
98	MP1C	Z	58.652	3.25
99	MP1C	Mx	.034	3.25
100	MP5C	X	33.863	.25
101	MP5C	Z	58.652	.25
102	MP5C	Mx	.034	.25
103	MP5C	X	33.863	3.25
104	MP5C	Z	58.652	3.25
105	MP5C	Mx	.034	3.25
106	MP5B	X	36.92	.25
107	MP5B	Z	63.948	.25
108	MP5B	Mx	-.018	.25
109	MP5B	X	36.92	3.25
110	MP5B	Z	63.948	3.25
111	MP5B	Mx	-.018	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.25
2	MP3A	Z	152.32	1.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
55	MP2A	X	0	.25
56	MP2A	Z	97.799	.25
57	MP2A	Mx	0	.25
58	MP2A	X	0	2
59	MP2A	Z	70.071	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	52.647	2
63	MP2B	Mx	.023	2
64	MP2C	X	0	2
65	MP2C	Z	52.647	2
66	MP2C	Mx	-.023	2
67	MP3A	X	0	1.75
68	MP3A	Z	70.071	1.75
69	MP3A	Mx	0	1.75
70	MP3B	X	0	1.75
71	MP3B	Z	45.972	1.75
72	MP3B	Mx	.02	1.75
73	MP3C	X	0	1.75
74	MP3C	Z	45.972	1.75
75	MP3C	Mx	-.02	1.75
76	MP1A	X	0	.25
77	MP1A	Z	182.858	.25
78	MP1A	Mx	0	.25
79	MP1A	X	0	5.25
80	MP1A	Z	182.858	5.25
81	MP1A	Mx	0	5.25
82	MP5A	X	0	.25
83	MP5A	Z	182.858	.25
84	MP5A	Mx	0	.25
85	MP5A	X	0	5.25
86	MP5A	Z	182.858	5.25
87	MP5A	Mx	0	5.25
88	MP1B	X	0	.25
89	MP1B	Z	69.764	.25
90	MP1B	Mx	-.03	.25
91	MP1B	X	0	3.25
92	MP1B	Z	69.764	3.25
93	MP1B	Mx	-.03	3.25
94	MP1C	X	0	.25
95	MP1C	Z	69.764	.25
96	MP1C	Mx	.03	.25
97	MP1C	X	0	3.25
98	MP1C	Z	69.764	3.25
99	MP1C	Mx	.03	3.25
100	MP5C	X	0	.25
101	MP5C	Z	69.764	.25
102	MP5C	Mx	.03	.25
103	MP5C	X	0	3.25
104	MP5C	Z	69.764	3.25
105	MP5C	Mx	.03	3.25
106	MP5B	X	0	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
107	MP5B	Z	69.764	.25
108	MP5B	Mx	-.03	.25
109	MP5B	X	0	3.25
110	MP5B	Z	69.764	3.25
111	MP5B	Mx	-.03	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-73.045	1.25
2	MP3A	Z	126.518	1.25
3	MP3A	Mx	.105	1.25
4	MP3A	X	-73.045	4.25
5	MP3A	Z	126.518	4.25
6	MP3A	Mx	.105	4.25
7	MP3B	X	-63.701	1.25
8	MP3B	Z	110.333	1.25
9	MP3B	Mx	-.064	1.25
10	MP3B	X	-63.701	4.25
11	MP3B	Z	110.333	4.25
12	MP3B	Mx	-.064	4.25
13	MP3C	X	-73.045	1.25
14	MP3C	Z	126.518	1.25
15	MP3C	Mx	-.032	1.25
16	MP3C	X	-73.045	4.25
17	MP3C	Z	126.518	4.25
18	MP3C	Mx	-.032	4.25
19	MP3A	X	-73.045	1.25
20	MP3A	Z	126.518	1.25
21	MP3A	Mx	-.032	1.25
22	MP3A	X	-73.045	4.25
23	MP3A	Z	126.518	4.25
24	MP3A	Mx	-.032	4.25
25	MP3B	X	-63.701	1.25
26	MP3B	Z	110.333	1.25
27	MP3B	Mx	-.064	1.25
28	MP3B	X	-63.701	4.25
29	MP3B	Z	110.333	4.25
30	MP3B	Mx	-.064	4.25
31	MP3C	X	-73.045	1.25
32	MP3C	Z	126.518	1.25
33	MP3C	Mx	.105	1.25
34	MP3C	X	-73.045	4.25
35	MP3C	Z	126.518	4.25
36	MP3C	Mx	.105	4.25
37	MP4A	X	-37.331	1.75
38	MP4A	Z	64.658	1.75
39	MP4A	Mx	.019	1.75
40	MP4A	X	-37.331	3.75
41	MP4A	Z	64.658	3.75
42	MP4A	Mx	.019	3.75
43	MP4B	X	-17.237	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP4B	Z	29.855	1.75
45	MP4B	Mx	-.017	1.75
46	MP4B	X	-17.237	3.75
47	MP4B	Z	29.855	3.75
48	MP4B	Mx	-.017	3.75
49	MP4C	X	-37.331	1.75
50	MP4C	Z	64.658	1.75
51	MP4C	Mx	.019	1.75
52	MP4C	X	-37.331	3.75
53	MP4C	Z	64.658	3.75
54	MP4C	Mx	.019	3.75
55	MP2A	X	-46.019	.25
56	MP2A	Z	79.707	.25
57	MP2A	Mx	-.023	.25
58	MP2A	X	-32.131	2
59	MP2A	Z	55.653	2
60	MP2A	Mx	-.016	2
61	MP2B	X	-23.419	2
62	MP2B	Z	40.564	2
63	MP2B	Mx	.023	2
64	MP2C	X	-32.131	2
65	MP2C	Z	55.653	2
66	MP2C	Mx	-.016	2
67	MP3A	X	-31.019	1.75
68	MP3A	Z	53.726	1.75
69	MP3A	Mx	-.016	1.75
70	MP3B	X	-18.97	1.75
71	MP3B	Z	32.856	1.75
72	MP3B	Mx	.019	1.75
73	MP3C	X	-31.019	1.75
74	MP3C	Z	53.726	1.75
75	MP3C	Mx	-.016	1.75
76	MP1A	X	-88.72	.25
77	MP1A	Z	153.668	.25
78	MP1A	Mx	.044	.25
79	MP1A	X	-88.72	5.25
80	MP1A	Z	153.668	5.25
81	MP1A	Mx	.044	5.25
82	MP5A	X	-88.72	.25
83	MP5A	Z	153.668	.25
84	MP5A	Mx	.044	.25
85	MP5A	X	-88.72	5.25
86	MP5A	Z	153.668	5.25
87	MP5A	Mx	.044	5.25
88	MP1B	X	-33.863	.25
89	MP1B	Z	58.652	.25
90	MP1B	Mx	-.034	.25
91	MP1B	X	-33.863	3.25
92	MP1B	Z	58.652	3.25
93	MP1B	Mx	-.034	3.25
94	MP1C	X	-36.92	.25
95	MP1C	Z	63.948	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
96	MP1C	Mx	.018	.25
97	MP1C	X	-36.92	3.25
98	MP1C	Z	63.948	3.25
99	MP1C	Mx	.018	3.25
100	MP5C	X	-36.92	.25
101	MP5C	Z	63.948	.25
102	MP5C	Mx	.018	.25
103	MP5C	X	-36.92	3.25
104	MP5C	Z	63.948	3.25
105	MP5C	Mx	.018	3.25
106	MP5B	X	-33.863	.25
107	MP5B	Z	58.652	.25
108	MP5B	Mx	-.034	.25
109	MP5B	X	-33.863	3.25
110	MP5B	Z	58.652	3.25
111	MP5B	Mx	-.034	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-115.728	1.25
2	MP3A	Z	66.815	1.25
3	MP3A	Mx	.094	1.25
4	MP3A	X	-115.728	4.25
5	MP3A	Z	66.815	4.25
6	MP3A	Mx	.094	4.25
7	MP3B	X	-115.728	1.25
8	MP3B	Z	66.815	1.25
9	MP3B	Mx	-.022	1.25
10	MP3B	X	-115.728	4.25
11	MP3B	Z	66.815	4.25
12	MP3B	Mx	-.022	4.25
13	MP3C	X	-131.913	1.25
14	MP3C	Z	76.16	1.25
15	MP3C	Mx	-.083	1.25
16	MP3C	X	-131.913	4.25
17	MP3C	Z	76.16	4.25
18	MP3C	Mx	-.083	4.25
19	MP3A	X	-115.728	1.25
20	MP3A	Z	66.815	1.25
21	MP3A	Mx	.022	1.25
22	MP3A	X	-115.728	4.25
23	MP3A	Z	66.815	4.25
24	MP3A	Mx	.022	4.25
25	MP3B	X	-115.728	1.25
26	MP3B	Z	66.815	1.25
27	MP3B	Mx	-.094	1.25
28	MP3B	X	-115.728	4.25
29	MP3B	Z	66.815	4.25
30	MP3B	Mx	-.094	4.25
31	MP3C	X	-131.913	1.25
32	MP3C	Z	76.16	1.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	.083	1.25
34	MP3C	X	-131.913	4.25
35	MP3C	Z	76.16	4.25
36	MP3C	Mx	.083	4.25
37	MP4A	X	-41.456	1.75
38	MP4A	Z	23.935	1.75
39	MP4A	Mx	.021	1.75
40	MP4A	X	-41.456	3.75
41	MP4A	Z	23.935	3.75
42	MP4A	Mx	.021	3.75
43	MP4B	X	-41.456	1.75
44	MP4B	Z	23.935	1.75
45	MP4B	Mx	-.021	1.75
46	MP4B	X	-41.456	3.75
47	MP4B	Z	23.935	3.75
48	MP4B	Mx	-.021	3.75
49	MP4C	X	-76.259	1.75
50	MP4C	Z	44.028	1.75
51	MP4C	Mx	0	1.75
52	MP4C	X	-76.259	3.75
53	MP4C	Z	44.028	3.75
54	MP4C	Mx	0	3.75
55	MP2A	X	-69.729	.25
56	MP2A	Z	40.258	.25
57	MP2A	Mx	-.035	.25
58	MP2A	X	-45.593	2
59	MP2A	Z	26.323	2
60	MP2A	Mx	-.023	2
61	MP2B	X	-45.593	2
62	MP2B	Z	26.323	2
63	MP2B	Mx	.023	2
64	MP2C	X	-60.683	2
65	MP2C	Z	35.035	2
66	MP2C	Mx	0	2
67	MP3A	X	-39.813	1.75
68	MP3A	Z	22.986	1.75
69	MP3A	Mx	-.02	1.75
70	MP3B	X	-39.813	1.75
71	MP3B	Z	22.986	1.75
72	MP3B	Mx	.02	1.75
73	MP3C	X	-60.683	1.75
74	MP3C	Z	35.035	1.75
75	MP3C	Mx	0	1.75
76	MP1A	X	-144.284	.25
77	MP1A	Z	83.303	.25
78	MP1A	Mx	.072	.25
79	MP1A	X	-144.284	5.25
80	MP1A	Z	83.303	5.25
81	MP1A	Mx	.072	5.25
82	MP5A	X	-144.284	.25
83	MP5A	Z	83.303	.25
84	MP5A	Mx	.072	.25







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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP3A	X	-127.401	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	.064	4.25
25	MP3B	X	-146.09	1.25
26	MP3B	Z	0	1.25
27	MP3B	Mx	-.105	1.25
28	MP3B	X	-146.09	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	-.105	4.25
31	MP3C	X	-146.09	1.25
32	MP3C	Z	0	1.25
33	MP3C	Mx	.032	1.25
34	MP3C	X	-146.09	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	.032	4.25
37	MP4A	X	-34.474	1.75
38	MP4A	Z	0	1.75
39	MP4A	Mx	.017	1.75
40	MP4A	X	-34.474	3.75
41	MP4A	Z	0	3.75
42	MP4A	Mx	.017	3.75
43	MP4B	X	-74.661	1.75
44	MP4B	Z	0	1.75
45	MP4B	Mx	-.019	1.75
46	MP4B	X	-74.661	3.75
47	MP4B	Z	0	3.75
48	MP4B	Mx	-.019	3.75
49	MP4C	X	-74.661	1.75
50	MP4C	Z	0	1.75
51	MP4C	Mx	-.019	1.75
52	MP4C	X	-74.661	3.75
53	MP4C	Z	0	3.75
54	MP4C	Mx	-.019	3.75
55	MP2A	X	-74.755	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	-.037	.25
58	MP2A	X	-46.839	2
59	MP2A	Z	0	2
60	MP2A	Mx	-.023	2
61	MP2B	X	-64.263	2
62	MP2B	Z	0	2
63	MP2B	Mx	.016	2
64	MP2C	X	-64.263	2
65	MP2C	Z	0	2
66	MP2C	Mx	.016	2
67	MP3A	X	-37.939	1.75
68	MP3A	Z	0	1.75
69	MP3A	Mx	-.019	1.75
70	MP3B	X	-62.038	1.75
71	MP3B	Z	0	1.75
72	MP3B	Mx	.016	1.75
73	MP3C	X	-62.038	1.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP3B	Z	-76.16	4.25
12	MP3B	Mx	.083	4.25
13	MP3C	X	-115.728	1.25
14	MP3C	Z	-66.815	1.25
15	MP3C	Mx	-.094	1.25
16	MP3C	X	-115.728	4.25
17	MP3C	Z	-66.815	4.25
18	MP3C	Mx	-.094	4.25
19	MP3A	X	-115.728	1.25
20	MP3A	Z	-66.815	1.25
21	MP3A	Mx	.094	1.25
22	MP3A	X	-115.728	4.25
23	MP3A	Z	-66.815	4.25
24	MP3A	Mx	.094	4.25
25	MP3B	X	-131.913	1.25
26	MP3B	Z	-76.16	1.25
27	MP3B	Mx	-.083	1.25
28	MP3B	X	-131.913	4.25
29	MP3B	Z	-76.16	4.25
30	MP3B	Mx	-.083	4.25
31	MP3C	X	-115.728	1.25
32	MP3C	Z	-66.815	1.25
33	MP3C	Mx	-.022	1.25
34	MP3C	X	-115.728	4.25
35	MP3C	Z	-66.815	4.25
36	MP3C	Mx	-.022	4.25
37	MP4A	X	-41.456	1.75
38	MP4A	Z	-23.935	1.75
39	MP4A	Mx	.021	1.75
40	MP4A	X	-41.456	3.75
41	MP4A	Z	-23.935	3.75
42	MP4A	Mx	.021	3.75
43	MP4B	X	-76.259	1.75
44	MP4B	Z	-44.028	1.75
45	MP4B	Mx	0	1.75
46	MP4B	X	-76.259	3.75
47	MP4B	Z	-44.028	3.75
48	MP4B	Mx	0	3.75
49	MP4C	X	-41.456	1.75
50	MP4C	Z	-23.935	1.75
51	MP4C	Mx	-.021	1.75
52	MP4C	X	-41.456	3.75
53	MP4C	Z	-23.935	3.75
54	MP4C	Mx	-.021	3.75
55	MP2A	X	-69.729	.25
56	MP2A	Z	-40.258	.25
57	MP2A	Mx	-.035	.25
58	MP2A	X	-45.593	2
59	MP2A	Z	-26.323	2
60	MP2A	Mx	-.023	2
61	MP2B	X	-60.683	2
62	MP2B	Z	-35.035	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2B	Mx	0	2
64	MP2C	X	-45.593	2
65	MP2C	Z	-26.323	2
66	MP2C	Mx	.023	2
67	MP3A	X	-39.813	1.75
68	MP3A	Z	-22.986	1.75
69	MP3A	Mx	-.02	1.75
70	MP3B	X	-60.683	1.75
71	MP3B	Z	-35.035	1.75
72	MP3B	Mx	0	1.75
73	MP3C	X	-39.813	1.75
74	MP3C	Z	-22.986	1.75
75	MP3C	Mx	.02	1.75
76	MP1A	X	-144.284	.25
77	MP1A	Z	-83.303	.25
78	MP1A	Mx	.072	.25
79	MP1A	X	-144.284	5.25
80	MP1A	Z	-83.303	5.25
81	MP1A	Mx	.072	5.25
82	MP5A	X	-144.284	.25
83	MP5A	Z	-83.303	.25
84	MP5A	Mx	.072	.25
85	MP5A	X	-144.284	5.25
86	MP5A	Z	-83.303	5.25
87	MP5A	Mx	.072	5.25
88	MP1B	X	-65.713	.25
89	MP1B	Z	-37.939	.25
90	MP1B	Mx	0	.25
91	MP1B	X	-65.713	3.25
92	MP1B	Z	-37.939	3.25
93	MP1B	Mx	0	3.25
94	MP1C	X	-60.417	.25
95	MP1C	Z	-34.882	.25
96	MP1C	Mx	-.03	.25
97	MP1C	X	-60.417	3.25
98	MP1C	Z	-34.882	3.25
99	MP1C	Mx	-.03	3.25
100	MP5C	X	-60.417	.25
101	MP5C	Z	-34.882	.25
102	MP5C	Mx	-.03	.25
103	MP5C	X	-60.417	3.25
104	MP5C	Z	-34.882	3.25
105	MP5C	Mx	-.03	3.25
106	MP5B	X	-65.713	.25
107	MP5B	Z	-37.939	.25
108	MP5B	Mx	0	.25
109	MP5B	X	-65.713	3.25
110	MP5B	Z	-37.939	3.25
111	MP5B	Mx	0	3.25

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-73.045	1.25
2	MP3A	Z	-126.518	1.25
3	MP3A	Mx	-.032	1.25
4	MP3A	X	-73.045	4.25
5	MP3A	Z	-126.518	4.25
6	MP3A	Mx	-.032	4.25
7	MP3B	X	-73.045	1.25
8	MP3B	Z	-126.518	1.25
9	MP3B	Mx	.105	1.25
10	MP3B	X	-73.045	4.25
11	MP3B	Z	-126.518	4.25
12	MP3B	Mx	.105	4.25
13	MP3C	X	-63.701	1.25
14	MP3C	Z	-110.333	1.25
15	MP3C	Mx	-.064	1.25
16	MP3C	X	-63.701	4.25
17	MP3C	Z	-110.333	4.25
18	MP3C	Mx	-.064	4.25
19	MP3A	X	-73.045	1.25
20	MP3A	Z	-126.518	1.25
21	MP3A	Mx	.105	1.25
22	MP3A	X	-73.045	4.25
23	MP3A	Z	-126.518	4.25
24	MP3A	Mx	.105	4.25
25	MP3B	X	-73.045	1.25
26	MP3B	Z	-126.518	1.25
27	MP3B	Mx	-.032	1.25
28	MP3B	X	-73.045	4.25
29	MP3B	Z	-126.518	4.25
30	MP3B	Mx	-.032	4.25
31	MP3C	X	-63.701	1.25
32	MP3C	Z	-110.333	1.25
33	MP3C	Mx	-.064	1.25
34	MP3C	X	-63.701	4.25
35	MP3C	Z	-110.333	4.25
36	MP3C	Mx	-.064	4.25
37	MP4A	X	-37.331	1.75
38	MP4A	Z	-64.658	1.75
39	MP4A	Mx	.019	1.75
40	MP4A	X	-37.331	3.75
41	MP4A	Z	-64.658	3.75
42	MP4A	Mx	.019	3.75
43	MP4B	X	-37.331	1.75
44	MP4B	Z	-64.658	1.75
45	MP4B	Mx	.019	1.75
46	MP4B	X	-37.331	3.75
47	MP4B	Z	-64.658	3.75
48	MP4B	Mx	.019	3.75
49	MP4C	X	-17.237	1.75
50	MP4C	Z	-29.855	1.75
51	MP4C	Mx	-.017	1.75
52	MP4C	X	-17.237	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	-29.855	3.75
54	MP4C	Mx	-.017	3.75
55	MP2A	X	-46.019	.25
56	MP2A	Z	-79.707	.25
57	MP2A	Mx	-.023	.25
58	MP2A	X	-32.131	2
59	MP2A	Z	-55.653	2
60	MP2A	Mx	-.016	2
61	MP2B	X	-32.131	2
62	MP2B	Z	-55.653	2
63	MP2B	Mx	-.016	2
64	MP2C	X	-23.419	2
65	MP2C	Z	-40.564	2
66	MP2C	Mx	.023	2
67	MP3A	X	-31.019	1.75
68	MP3A	Z	-53.726	1.75
69	MP3A	Mx	-.016	1.75
70	MP3B	X	-31.019	1.75
71	MP3B	Z	-53.726	1.75
72	MP3B	Mx	-.016	1.75
73	MP3C	X	-18.97	1.75
74	MP3C	Z	-32.856	1.75
75	MP3C	Mx	.019	1.75
76	MP1A	X	-88.72	.25
77	MP1A	Z	-153.668	.25
78	MP1A	Mx	.044	.25
79	MP1A	X	-88.72	5.25
80	MP1A	Z	-153.668	5.25
81	MP1A	Mx	.044	5.25
82	MP5A	X	-88.72	.25
83	MP5A	Z	-153.668	.25
84	MP5A	Mx	.044	.25
85	MP5A	X	-88.72	5.25
86	MP5A	Z	-153.668	5.25
87	MP5A	Mx	.044	5.25
88	MP1B	X	-36.92	.25
89	MP1B	Z	-63.948	.25
90	MP1B	Mx	.018	.25
91	MP1B	X	-36.92	3.25
92	MP1B	Z	-63.948	3.25
93	MP1B	Mx	.018	3.25
94	MP1C	X	-33.863	.25
95	MP1C	Z	-58.652	.25
96	MP1C	Mx	-.034	.25
97	MP1C	X	-33.863	3.25
98	MP1C	Z	-58.652	3.25
99	MP1C	Mx	-.034	3.25
100	MP5C	X	-33.863	.25
101	MP5C	Z	-58.652	.25
102	MP5C	Mx	-.034	.25
103	MP5C	X	-33.863	3.25
104	MP5C	Z	-58.652	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	-.034	3.25
106	MP5B	X	-36.92	.25
107	MP5B	Z	-63.948	.25
108	MP5B	Mx	.018	.25
109	MP5B	X	-36.92	3.25
110	MP5B	Z	-63.948	3.25
111	MP5B	Mx	.018	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.25
2	MP3A	Z	-30.069	1.25
3	MP3A	Mx	-.016	1.25
4	MP3A	X	0	4.25
5	MP3A	Z	-30.069	4.25
6	MP3A	Mx	-.016	4.25
7	MP3B	X	0	1.25
8	MP3B	Z	-26.646	1.25
9	MP3B	Mx	.019	1.25
10	MP3B	X	0	4.25
11	MP3B	Z	-26.646	4.25
12	MP3B	Mx	.019	4.25
13	MP3C	X	0	1.25
14	MP3C	Z	-26.646	1.25
15	MP3C	Mx	-.004	1.25
16	MP3C	X	0	4.25
17	MP3C	Z	-26.646	4.25
18	MP3C	Mx	-.004	4.25
19	MP3A	X	0	1.25
20	MP3A	Z	-30.069	1.25
21	MP3A	Mx	.016	1.25
22	MP3A	X	0	4.25
23	MP3A	Z	-30.069	4.25
24	MP3A	Mx	.016	4.25
25	MP3B	X	0	1.25
26	MP3B	Z	-26.646	1.25
27	MP3B	Mx	.004	1.25
28	MP3B	X	0	4.25
29	MP3B	Z	-26.646	4.25
30	MP3B	Mx	.004	4.25
31	MP3C	X	0	1.25
32	MP3C	Z	-26.646	1.25
33	MP3C	Mx	-.019	1.25
34	MP3C	X	0	4.25
35	MP3C	Z	-26.646	4.25
36	MP3C	Mx	-.019	4.25
37	MP4A	X	0	1.75
38	MP4A	Z	-17.788	1.75
39	MP4A	Mx	0	1.75
40	MP4A	X	0	3.75
41	MP4A	Z	-17.788	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP4A	Mx	0	3.75
43	MP4B	X	0	1.75
44	MP4B	Z	-10.113	1.75
45	MP4B	Mx	.004	1.75
46	MP4B	X	0	3.75
47	MP4B	Z	-10.113	3.75
48	MP4B	Mx	.004	3.75
49	MP4C	X	0	1.75
50	MP4C	Z	-10.113	1.75
51	MP4C	Mx	-.004	1.75
52	MP4C	X	0	3.75
53	MP4C	Z	-10.113	3.75
54	MP4C	Mx	-.004	3.75
55	MP2A	X	0	.25
56	MP2A	Z	-20.325	.25
57	MP2A	Mx	0	.25
58	MP2A	X	0	2
59	MP2A	Z	-14.963	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	-11.536	2
63	MP2B	Mx	-.005	2
64	MP2C	X	0	2
65	MP2C	Z	-11.536	2
66	MP2C	Mx	.005	2
67	MP3A	X	0	1.75
68	MP3A	Z	-14.963	1.75
69	MP3A	Mx	0	1.75
70	MP3B	X	0	1.75
71	MP3B	Z	-10.233	1.75
72	MP3B	Mx	-.004	1.75
73	MP3C	X	0	1.75
74	MP3C	Z	-10.233	1.75
75	MP3C	Mx	.004	1.75
76	MP1A	X	0	.25
77	MP1A	Z	-35.611	.25
78	MP1A	Mx	0	.25
79	MP1A	X	0	5.25
80	MP1A	Z	-35.611	5.25
81	MP1A	Mx	0	5.25
82	MP5A	X	0	.25
83	MP5A	Z	-35.611	.25
84	MP5A	Mx	0	.25
85	MP5A	X	0	5.25
86	MP5A	Z	-35.611	5.25
87	MP5A	Mx	0	5.25
88	MP1B	X	0	.25
89	MP1B	Z	-14.393	.25
90	MP1B	Mx	.006	.25
91	MP1B	X	0	3.25
92	MP1B	Z	-14.393	3.25
93	MP1B	Mx	.006	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP1C	X	0	.25
95	MP1C	Z	-14.393	.25
96	MP1C	Mx	-.006	.25
97	MP1C	X	0	3.25
98	MP1C	Z	-14.393	3.25
99	MP1C	Mx	-.006	3.25
100	MP5C	X	0	.25
101	MP5C	Z	-14.393	.25
102	MP5C	Mx	-.006	.25
103	MP5C	X	0	3.25
104	MP5C	Z	-14.393	3.25
105	MP5C	Mx	-.006	3.25
106	MP5B	X	0	.25
107	MP5B	Z	-14.393	.25
108	MP5B	Mx	.006	.25
109	MP5B	X	0	3.25
110	MP5B	Z	-14.393	3.25
111	MP5B	Mx	.006	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	14.464	1.25
2	MP3A	Z	-25.053	1.25
3	MP3A	Mx	-.021	1.25
4	MP3A	X	14.464	4.25
5	MP3A	Z	-25.053	4.25
6	MP3A	Mx	-.021	4.25
7	MP3B	X	12.753	1.25
8	MP3B	Z	-22.088	1.25
9	MP3B	Mx	.013	1.25
10	MP3B	X	12.753	4.25
11	MP3B	Z	-22.088	4.25
12	MP3B	Mx	.013	4.25
13	MP3C	X	14.464	1.25
14	MP3C	Z	-25.053	1.25
15	MP3C	Mx	.006	1.25
16	MP3C	X	14.464	4.25
17	MP3C	Z	-25.053	4.25
18	MP3C	Mx	.006	4.25
19	MP3A	X	14.464	1.25
20	MP3A	Z	-25.053	1.25
21	MP3A	Mx	.006	1.25
22	MP3A	X	14.464	4.25
23	MP3A	Z	-25.053	4.25
24	MP3A	Mx	.006	4.25
25	MP3B	X	12.753	1.25
26	MP3B	Z	-22.088	1.25
27	MP3B	Mx	.013	1.25
28	MP3B	X	12.753	4.25
29	MP3B	Z	-22.088	4.25
30	MP3B	Mx	.013	4.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP3C	X	14.464	1.25
32	MP3C	Z	-25.053	1.25
33	MP3C	Mx	-.021	1.25
34	MP3C	X	14.464	4.25
35	MP3C	Z	-25.053	4.25
36	MP3C	Mx	-.021	4.25
37	MP4A	X	7.615	1.75
38	MP4A	Z	-13.189	1.75
39	MP4A	Mx	-.004	1.75
40	MP4A	X	7.615	3.75
41	MP4A	Z	-13.189	3.75
42	MP4A	Mx	-.004	3.75
43	MP4B	X	3.777	1.75
44	MP4B	Z	-6.542	1.75
45	MP4B	Mx	.004	1.75
46	MP4B	X	3.777	3.75
47	MP4B	Z	-6.542	3.75
48	MP4B	Mx	.004	3.75
49	MP4C	X	7.615	1.75
50	MP4C	Z	-13.189	1.75
51	MP4C	Mx	-.004	1.75
52	MP4C	X	7.615	3.75
53	MP4C	Z	-13.189	3.75
54	MP4C	Mx	-.004	3.75
55	MP2A	X	9.608	.25
56	MP2A	Z	-16.641	.25
57	MP2A	Mx	.005	.25
58	MP2A	X	6.91	2
59	MP2A	Z	-11.969	2
60	MP2A	Mx	.003	2
61	MP2B	X	5.197	2
62	MP2B	Z	-9.001	2
63	MP2B	Mx	-.005	2
64	MP2C	X	6.91	2
65	MP2C	Z	-11.969	2
66	MP2C	Mx	.003	2
67	MP3A	X	6.693	1.75
68	MP3A	Z	-11.593	1.75
69	MP3A	Mx	.003	1.75
70	MP3B	X	4.329	1.75
71	MP3B	Z	-7.497	1.75
72	MP3B	Mx	-.004	1.75
73	MP3C	X	6.693	1.75
74	MP3C	Z	-11.593	1.75
75	MP3C	Mx	.003	1.75
76	MP1A	X	17.316	.25
77	MP1A	Z	-29.992	.25
78	MP1A	Mx	-.009	.25
79	MP1A	X	17.316	5.25
80	MP1A	Z	-29.992	5.25
81	MP1A	Mx	-.009	5.25
82	MP5A	X	17.316	.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP3A	Z	-13.323	1.25
21	MP3A	Mx	-.004	1.25
22	MP3A	X	23.076	4.25
23	MP3A	Z	-13.323	4.25
24	MP3A	Mx	-.004	4.25
25	MP3B	X	23.076	1.25
26	MP3B	Z	-13.323	1.25
27	MP3B	Mx	.019	1.25
28	MP3B	X	23.076	4.25
29	MP3B	Z	-13.323	4.25
30	MP3B	Mx	.019	4.25
31	MP3C	X	26.041	1.25
32	MP3C	Z	-15.035	1.25
33	MP3C	Mx	-.016	1.25
34	MP3C	X	26.041	4.25
35	MP3C	Z	-15.035	4.25
36	MP3C	Mx	-.016	4.25
37	MP4A	X	8.758	1.75
38	MP4A	Z	-5.056	1.75
39	MP4A	Mx	-.004	1.75
40	MP4A	X	8.758	3.75
41	MP4A	Z	-5.056	3.75
42	MP4A	Mx	-.004	3.75
43	MP4B	X	8.758	1.75
44	MP4B	Z	-5.056	1.75
45	MP4B	Mx	.004	1.75
46	MP4B	X	8.758	3.75
47	MP4B	Z	-5.056	3.75
48	MP4B	Mx	.004	3.75
49	MP4C	X	15.405	1.75
50	MP4C	Z	-8.894	1.75
51	MP4C	Mx	0	1.75
52	MP4C	X	15.405	3.75
53	MP4C	Z	-8.894	3.75
54	MP4C	Mx	0	3.75
55	MP2A	X	14.719	.25
56	MP2A	Z	-8.498	.25
57	MP2A	Mx	.007	.25
58	MP2A	X	9.99	2
59	MP2A	Z	-5.768	2
60	MP2A	Mx	.005	2
61	MP2B	X	9.99	2
62	MP2B	Z	-5.768	2
63	MP2B	Mx	-.005	2
64	MP2C	X	12.958	2
65	MP2C	Z	-7.481	2
66	MP2C	Mx	0	2
67	MP3A	X	8.862	1.75
68	MP3A	Z	-5.117	1.75
69	MP3A	Mx	.004	1.75
70	MP3B	X	8.862	1.75
71	MP3B	Z	-5.117	1.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	-.004	1.75
73	MP3C	X	12.958	1.75
74	MP3C	Z	-7.481	1.75
75	MP3C	Mx	0	1.75
76	MP1A	X	28.296	.25
77	MP1A	Z	-16.337	.25
78	MP1A	Mx	-.014	.25
79	MP1A	X	28.296	5.25
80	MP1A	Z	-16.337	5.25
81	MP1A	Mx	-.014	5.25
82	MP5A	X	28.296	.25
83	MP5A	Z	-16.337	.25
84	MP5A	Mx	-.014	.25
85	MP5A	X	28.296	5.25
86	MP5A	Z	-16.337	5.25
87	MP5A	Mx	-.014	5.25
88	MP1B	X	12.464	.25
89	MP1B	Z	-7.196	.25
90	MP1B	Mx	.006	.25
91	MP1B	X	12.464	3.25
92	MP1B	Z	-7.196	3.25
93	MP1B	Mx	.006	3.25
94	MP1C	X	13.461	.25
95	MP1C	Z	-7.772	.25
96	MP1C	Mx	0	.25
97	MP1C	X	13.461	3.25
98	MP1C	Z	-7.772	3.25
99	MP1C	Mx	0	3.25
100	MP5C	X	13.461	.25
101	MP5C	Z	-7.772	.25
102	MP5C	Mx	0	.25
103	MP5C	X	13.461	3.25
104	MP5C	Z	-7.772	3.25
105	MP5C	Mx	0	3.25
106	MP5B	X	12.464	.25
107	MP5B	Z	-7.196	.25
108	MP5B	Mx	.006	.25
109	MP5B	X	12.464	3.25
110	MP5B	Z	-7.196	3.25
111	MP5B	Mx	.006	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	25.505	1.25
2	MP3A	Z	0	1.25
3	MP3A	Mx	-.013	1.25
4	MP3A	X	25.505	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	-.013	4.25
7	MP3B	X	28.928	1.25
8	MP3B	Z	0	1.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP3B	Mx	-.006	1.25
10	MP3B	X	28.928	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	-.006	4.25
13	MP3C	X	28.928	1.25
14	MP3C	Z	0	1.25
15	MP3C	Mx	.021	1.25
16	MP3C	X	28.928	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	.021	4.25
19	MP3A	X	25.505	1.25
20	MP3A	Z	0	1.25
21	MP3A	Mx	-.013	1.25
22	MP3A	X	25.505	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	-.013	4.25
25	MP3B	X	28.928	1.25
26	MP3B	Z	0	1.25
27	MP3B	Mx	.021	1.25
28	MP3B	X	28.928	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	.021	4.25
31	MP3C	X	28.928	1.25
32	MP3C	Z	0	1.25
33	MP3C	Mx	-.006	1.25
34	MP3C	X	28.928	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	-.006	4.25
37	MP4A	X	7.554	1.75
38	MP4A	Z	0	1.75
39	MP4A	Mx	-.004	1.75
40	MP4A	X	7.554	3.75
41	MP4A	Z	0	3.75
42	MP4A	Mx	-.004	3.75
43	MP4B	X	15.229	1.75
44	MP4B	Z	0	1.75
45	MP4B	Mx	.004	1.75
46	MP4B	X	15.229	3.75
47	MP4B	Z	0	3.75
48	MP4B	Mx	.004	3.75
49	MP4C	X	15.229	1.75
50	MP4C	Z	0	1.75
51	MP4C	Mx	.004	1.75
52	MP4C	X	15.229	3.75
53	MP4C	Z	0	3.75
54	MP4C	Mx	.004	3.75
55	MP2A	X	15.886	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	.008	.25
58	MP2A	X	10.393	2
59	MP2A	Z	0	2
60	MP2A	Mx	.005	2









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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	5.056	3.75
54	MP4C	Mx	.004	3.75
55	MP2A	X	14.719	.25
56	MP2A	Z	8.498	.25
57	MP2A	Mx	.007	.25
58	MP2A	X	9.99	2
59	MP2A	Z	5.768	2
60	MP2A	Mx	.005	2
61	MP2B	X	12.958	2
62	MP2B	Z	7.481	2
63	MP2B	Mx	0	2
64	MP2C	X	9.99	2
65	MP2C	Z	5.768	2
66	MP2C	Mx	-.005	2
67	MP3A	X	8.862	1.75
68	MP3A	Z	5.117	1.75
69	MP3A	Mx	.004	1.75
70	MP3B	X	12.958	1.75
71	MP3B	Z	7.481	1.75
72	MP3B	Mx	0	1.75
73	MP3C	X	8.862	1.75
74	MP3C	Z	5.117	1.75
75	MP3C	Mx	-.004	1.75
76	MP1A	X	28.296	.25
77	MP1A	Z	16.337	.25
78	MP1A	Mx	-.014	.25
79	MP1A	X	28.296	5.25
80	MP1A	Z	16.337	5.25
81	MP1A	Mx	-.014	5.25
82	MP5A	X	28.296	.25
83	MP5A	Z	16.337	.25
84	MP5A	Mx	-.014	.25
85	MP5A	X	28.296	5.25
86	MP5A	Z	16.337	5.25
87	MP5A	Mx	-.014	5.25
88	MP1B	X	13.461	.25
89	MP1B	Z	7.772	.25
90	MP1B	Mx	0	.25
91	MP1B	X	13.461	3.25
92	MP1B	Z	7.772	3.25
93	MP1B	Mx	0	3.25
94	MP1C	X	12.464	.25
95	MP1C	Z	7.196	.25
96	MP1C	Mx	.006	.25
97	MP1C	X	12.464	3.25
98	MP1C	Z	7.196	3.25
99	MP1C	Mx	.006	3.25
100	MP5C	X	12.464	.25
101	MP5C	Z	7.196	.25
102	MP5C	Mx	.006	.25
103	MP5C	X	12.464	3.25
104	MP5C	Z	7.196	3.25



Company : Maser Consulting  
Designer :  
Job Number :  
Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
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Checked By: \_\_\_\_\_

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	.006	3.25
106	MP5B	X	13.461	.25
107	MP5B	Z	7.772	.25
108	MP5B	Mx	0	.25
109	MP5B	X	13.461	3.25
110	MP5B	Z	7.772	3.25
111	MP5B	Mx	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	14.464	1.25
2	MP3A	Z	25.053	1.25
3	MP3A	Mx	.006	1.25
4	MP3A	X	14.464	4.25
5	MP3A	Z	25.053	4.25
6	MP3A	Mx	.006	4.25
7	MP3B	X	14.464	1.25
8	MP3B	Z	25.053	1.25
9	MP3B	Mx	-.021	1.25
10	MP3B	X	14.464	4.25
11	MP3B	Z	25.053	4.25
12	MP3B	Mx	-.021	4.25
13	MP3C	X	12.753	1.25
14	MP3C	Z	22.088	1.25
15	MP3C	Mx	.013	1.25
16	MP3C	X	12.753	4.25
17	MP3C	Z	22.088	4.25
18	MP3C	Mx	.013	4.25
19	MP3A	X	14.464	1.25
20	MP3A	Z	25.053	1.25
21	MP3A	Mx	-.021	1.25
22	MP3A	X	14.464	4.25
23	MP3A	Z	25.053	4.25
24	MP3A	Mx	-.021	4.25
25	MP3B	X	14.464	1.25
26	MP3B	Z	25.053	1.25
27	MP3B	Mx	.006	1.25
28	MP3B	X	14.464	4.25
29	MP3B	Z	25.053	4.25
30	MP3B	Mx	.006	4.25
31	MP3C	X	12.753	1.25
32	MP3C	Z	22.088	1.25
33	MP3C	Mx	.013	1.25
34	MP3C	X	12.753	4.25
35	MP3C	Z	22.088	4.25
36	MP3C	Mx	.013	4.25
37	MP4A	X	7.615	1.75
38	MP4A	Z	13.189	1.75
39	MP4A	Mx	-.004	1.75
40	MP4A	X	7.615	3.75
41	MP4A	Z	13.189	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP4A	Mx	-.004	3.75
43	MP4B	X	7.615	1.75
44	MP4B	Z	13.189	1.75
45	MP4B	Mx	-.004	1.75
46	MP4B	X	7.615	3.75
47	MP4B	Z	13.189	3.75
48	MP4B	Mx	-.004	3.75
49	MP4C	X	3.777	1.75
50	MP4C	Z	6.542	1.75
51	MP4C	Mx	.004	1.75
52	MP4C	X	3.777	3.75
53	MP4C	Z	6.542	3.75
54	MP4C	Mx	.004	3.75
55	MP2A	X	9.608	.25
56	MP2A	Z	16.641	.25
57	MP2A	Mx	.005	.25
58	MP2A	X	6.91	2
59	MP2A	Z	11.969	2
60	MP2A	Mx	.003	2
61	MP2B	X	6.91	2
62	MP2B	Z	11.969	2
63	MP2B	Mx	.003	2
64	MP2C	X	5.197	2
65	MP2C	Z	9.001	2
66	MP2C	Mx	-.005	2
67	MP3A	X	6.693	1.75
68	MP3A	Z	11.593	1.75
69	MP3A	Mx	.003	1.75
70	MP3B	X	6.693	1.75
71	MP3B	Z	11.593	1.75
72	MP3B	Mx	.003	1.75
73	MP3C	X	4.329	1.75
74	MP3C	Z	7.497	1.75
75	MP3C	Mx	-.004	1.75
76	MP1A	X	17.316	.25
77	MP1A	Z	29.992	.25
78	MP1A	Mx	-.009	.25
79	MP1A	X	17.316	5.25
80	MP1A	Z	29.992	5.25
81	MP1A	Mx	-.009	5.25
82	MP5A	X	17.316	.25
83	MP5A	Z	29.992	.25
84	MP5A	Mx	-.009	.25
85	MP5A	X	17.316	5.25
86	MP5A	Z	29.992	5.25
87	MP5A	Mx	-.009	5.25
88	MP1B	X	7.58	.25
89	MP1B	Z	13.129	.25
90	MP1B	Mx	-.004	.25
91	MP1B	X	7.58	3.25
92	MP1B	Z	13.129	3.25
93	MP1B	Mx	-.004	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
94	MP1C	X	7.005	.25
95	MP1C	Z	12.132	.25
96	MP1C	Mx	.007	.25
97	MP1C	X	7.005	3.25
98	MP1C	Z	12.132	3.25
99	MP1C	Mx	.007	3.25
100	MP5C	X	7.005	.25
101	MP5C	Z	12.132	.25
102	MP5C	Mx	.007	.25
103	MP5C	X	7.005	3.25
104	MP5C	Z	12.132	3.25
105	MP5C	Mx	.007	3.25
106	MP5B	X	7.58	.25
107	MP5B	Z	13.129	.25
108	MP5B	Mx	-.004	.25
109	MP5B	X	7.58	3.25
110	MP5B	Z	13.129	3.25
111	MP5B	Mx	-.004	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP3A	X	0	1.25
2	MP3A	Z	30.069	1.25
3	MP3A	Mx	.016	1.25
4	MP3A	X	0	4.25
5	MP3A	Z	30.069	4.25
6	MP3A	Mx	.016	4.25
7	MP3B	X	0	1.25
8	MP3B	Z	26.646	1.25
9	MP3B	Mx	-.019	1.25
10	MP3B	X	0	4.25
11	MP3B	Z	26.646	4.25
12	MP3B	Mx	-.019	4.25
13	MP3C	X	0	1.25
14	MP3C	Z	26.646	1.25
15	MP3C	Mx	.004	1.25
16	MP3C	X	0	4.25
17	MP3C	Z	26.646	4.25
18	MP3C	Mx	.004	4.25
19	MP3A	X	0	1.25
20	MP3A	Z	30.069	1.25
21	MP3A	Mx	-.016	1.25
22	MP3A	X	0	4.25
23	MP3A	Z	30.069	4.25
24	MP3A	Mx	-.016	4.25
25	MP3B	X	0	1.25
26	MP3B	Z	26.646	1.25
27	MP3B	Mx	-.004	1.25
28	MP3B	X	0	4.25
29	MP3B	Z	26.646	4.25
30	MP3B	Mx	-.004	4.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP3C	X	0	1.25
32	MP3C	Z	26.646	1.25
33	MP3C	Mx	.019	1.25
34	MP3C	X	0	4.25
35	MP3C	Z	26.646	4.25
36	MP3C	Mx	.019	4.25
37	MP4A	X	0	1.75
38	MP4A	Z	17.788	1.75
39	MP4A	Mx	0	1.75
40	MP4A	X	0	3.75
41	MP4A	Z	17.788	3.75
42	MP4A	Mx	0	3.75
43	MP4B	X	0	1.75
44	MP4B	Z	10.113	1.75
45	MP4B	Mx	-.004	1.75
46	MP4B	X	0	3.75
47	MP4B	Z	10.113	3.75
48	MP4B	Mx	-.004	3.75
49	MP4C	X	0	1.75
50	MP4C	Z	10.113	1.75
51	MP4C	Mx	.004	1.75
52	MP4C	X	0	3.75
53	MP4C	Z	10.113	3.75
54	MP4C	Mx	.004	3.75
55	MP2A	X	0	.25
56	MP2A	Z	20.325	.25
57	MP2A	Mx	0	.25
58	MP2A	X	0	2
59	MP2A	Z	14.963	2
60	MP2A	Mx	0	2
61	MP2B	X	0	2
62	MP2B	Z	11.536	2
63	MP2B	Mx	.005	2
64	MP2C	X	0	2
65	MP2C	Z	11.536	2
66	MP2C	Mx	-.005	2
67	MP3A	X	0	1.75
68	MP3A	Z	14.963	1.75
69	MP3A	Mx	0	1.75
70	MP3B	X	0	1.75
71	MP3B	Z	10.233	1.75
72	MP3B	Mx	.004	1.75
73	MP3C	X	0	1.75
74	MP3C	Z	10.233	1.75
75	MP3C	Mx	-.004	1.75
76	MP1A	X	0	.25
77	MP1A	Z	35.611	.25
78	MP1A	Mx	0	.25
79	MP1A	X	0	5.25
80	MP1A	Z	35.611	5.25
81	MP1A	Mx	0	5.25
82	MP5A	X	0	.25









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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	.004	1.75
73	MP3C	X	-6.693	1.75
74	MP3C	Z	11.593	1.75
75	MP3C	Mx	-.003	1.75
76	MP1A	X	-17.316	.25
77	MP1A	Z	29.992	.25
78	MP1A	Mx	.009	.25
79	MP1A	X	-17.316	5.25
80	MP1A	Z	29.992	5.25
81	MP1A	Mx	.009	5.25
82	MP5A	X	-17.316	.25
83	MP5A	Z	29.992	.25
84	MP5A	Mx	.009	.25
85	MP5A	X	-17.316	5.25
86	MP5A	Z	29.992	5.25
87	MP5A	Mx	.009	5.25
88	MP1B	X	-7.005	.25
89	MP1B	Z	12.132	.25
90	MP1B	Mx	-.007	.25
91	MP1B	X	-7.005	3.25
92	MP1B	Z	12.132	3.25
93	MP1B	Mx	-.007	3.25
94	MP1C	X	-7.58	.25
95	MP1C	Z	13.129	.25
96	MP1C	Mx	.004	.25
97	MP1C	X	-7.58	3.25
98	MP1C	Z	13.129	3.25
99	MP1C	Mx	.004	3.25
100	MP5C	X	-7.58	.25
101	MP5C	Z	13.129	.25
102	MP5C	Mx	.004	.25
103	MP5C	X	-7.58	3.25
104	MP5C	Z	13.129	3.25
105	MP5C	Mx	.004	3.25
106	MP5B	X	-7.005	.25
107	MP5B	Z	12.132	.25
108	MP5B	Mx	-.007	.25
109	MP5B	X	-7.005	3.25
110	MP5B	Z	12.132	3.25
111	MP5B	Mx	-.007	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-23.076	1.25
2	MP3A	Z	13.323	1.25
3	MP3A	Mx	.019	1.25
4	MP3A	X	-23.076	4.25
5	MP3A	Z	13.323	4.25
6	MP3A	Mx	.019	4.25
7	MP3B	X	-23.076	1.25
8	MP3B	Z	13.323	1.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-25.505	1.25
2	MP3A	Z	0	1.25
3	MP3A	Mx	.013	1.25
4	MP3A	X	-25.505	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	.013	4.25
7	MP3B	X	-28.928	1.25
8	MP3B	Z	0	1.25
9	MP3B	Mx	.006	1.25
10	MP3B	X	-28.928	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	.006	4.25
13	MP3C	X	-28.928	1.25
14	MP3C	Z	0	1.25
15	MP3C	Mx	-.021	1.25
16	MP3C	X	-28.928	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	-.021	4.25
19	MP3A	X	-25.505	1.25
20	MP3A	Z	0	1.25
21	MP3A	Mx	.013	1.25
22	MP3A	X	-25.505	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	.013	4.25
25	MP3B	X	-28.928	1.25
26	MP3B	Z	0	1.25
27	MP3B	Mx	-.021	1.25
28	MP3B	X	-28.928	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	-.021	4.25
31	MP3C	X	-28.928	1.25
32	MP3C	Z	0	1.25
33	MP3C	Mx	.006	1.25
34	MP3C	X	-28.928	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	.006	4.25
37	MP4A	X	-7.554	1.75
38	MP4A	Z	0	1.75
39	MP4A	Mx	.004	1.75
40	MP4A	X	-7.554	3.75
41	MP4A	Z	0	3.75
42	MP4A	Mx	.004	3.75
43	MP4B	X	-15.229	1.75
44	MP4B	Z	0	1.75
45	MP4B	Mx	-.004	1.75
46	MP4B	X	-15.229	3.75
47	MP4B	Z	0	3.75
48	MP4B	Mx	-.004	3.75
49	MP4C	X	-15.229	1.75
50	MP4C	Z	0	1.75
51	MP4C	Mx	-.004	1.75
52	MP4C	X	-15.229	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	0	3.75
54	MP4C	Mx	-.004	3.75
55	MP2A	X	-15.886	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	-.008	.25
58	MP2A	X	-10.393	2
59	MP2A	Z	0	2
60	MP2A	Mx	-.005	2
61	MP2B	X	-13.82	2
62	MP2B	Z	0	2
63	MP2B	Mx	.003	2
64	MP2C	X	-13.82	2
65	MP2C	Z	0	2
66	MP2C	Mx	.003	2
67	MP3A	X	-8.657	1.75
68	MP3A	Z	0	1.75
69	MP3A	Mx	-.004	1.75
70	MP3B	X	-13.386	1.75
71	MP3B	Z	0	1.75
72	MP3B	Mx	.003	1.75
73	MP3C	X	-13.386	1.75
74	MP3C	Z	0	1.75
75	MP3C	Mx	.003	1.75
76	MP1A	X	-31.695	.25
77	MP1A	Z	0	.25
78	MP1A	Mx	.016	.25
79	MP1A	X	-31.695	5.25
80	MP1A	Z	0	5.25
81	MP1A	Mx	.016	5.25
82	MP5A	X	-31.695	.25
83	MP5A	Z	0	.25
84	MP5A	Mx	.016	.25
85	MP5A	X	-31.695	5.25
86	MP5A	Z	0	5.25
87	MP5A	Mx	.016	5.25
88	MP1B	X	-15.16	.25
89	MP1B	Z	0	.25
90	MP1B	Mx	-.004	.25
91	MP1B	X	-15.16	3.25
92	MP1B	Z	0	3.25
93	MP1B	Mx	-.004	3.25
94	MP1C	X	-15.16	.25
95	MP1C	Z	0	.25
96	MP1C	Mx	-.004	.25
97	MP1C	X	-15.16	3.25
98	MP1C	Z	0	3.25
99	MP1C	Mx	-.004	3.25
100	MP5C	X	-15.16	.25
101	MP5C	Z	0	.25
102	MP5C	Mx	-.004	.25
103	MP5C	X	-15.16	3.25
104	MP5C	Z	0	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	-.004	3.25
106	MP5B	X	-15.16	.25
107	MP5B	Z	0	.25
108	MP5B	Mx	-.004	.25
109	MP5B	X	-15.16	3.25
110	MP5B	Z	0	3.25
111	MP5B	Mx	-.004	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-23.076	1.25
2	MP3A	Z	-13.323	1.25
3	MP3A	Mx	.004	1.25
4	MP3A	X	-23.076	4.25
5	MP3A	Z	-13.323	4.25
6	MP3A	Mx	.004	4.25
7	MP3B	X	-26.041	1.25
8	MP3B	Z	-15.035	1.25
9	MP3B	Mx	.016	1.25
10	MP3B	X	-26.041	4.25
11	MP3B	Z	-15.035	4.25
12	MP3B	Mx	.016	4.25
13	MP3C	X	-23.076	1.25
14	MP3C	Z	-13.323	1.25
15	MP3C	Mx	-.019	1.25
16	MP3C	X	-23.076	4.25
17	MP3C	Z	-13.323	4.25
18	MP3C	Mx	-.019	4.25
19	MP3A	X	-23.076	1.25
20	MP3A	Z	-13.323	1.25
21	MP3A	Mx	.019	1.25
22	MP3A	X	-23.076	4.25
23	MP3A	Z	-13.323	4.25
24	MP3A	Mx	.019	4.25
25	MP3B	X	-26.041	1.25
26	MP3B	Z	-15.035	1.25
27	MP3B	Mx	-.016	1.25
28	MP3B	X	-26.041	4.25
29	MP3B	Z	-15.035	4.25
30	MP3B	Mx	-.016	4.25
31	MP3C	X	-23.076	1.25
32	MP3C	Z	-13.323	1.25
33	MP3C	Mx	-.004	1.25
34	MP3C	X	-23.076	4.25
35	MP3C	Z	-13.323	4.25
36	MP3C	Mx	-.004	4.25
37	MP4A	X	-8.758	1.75
38	MP4A	Z	-5.056	1.75
39	MP4A	Mx	.004	1.75
40	MP4A	X	-8.758	3.75
41	MP4A	Z	-5.056	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP4A	Mx	.004	3.75
43	MP4B	X	-15.405	1.75
44	MP4B	Z	-8.894	1.75
45	MP4B	Mx	0	1.75
46	MP4B	X	-15.405	3.75
47	MP4B	Z	-8.894	3.75
48	MP4B	Mx	0	3.75
49	MP4C	X	-8.758	1.75
50	MP4C	Z	-5.056	1.75
51	MP4C	Mx	-.004	1.75
52	MP4C	X	-8.758	3.75
53	MP4C	Z	-5.056	3.75
54	MP4C	Mx	-.004	3.75
55	MP2A	X	-14.719	.25
56	MP2A	Z	-8.498	.25
57	MP2A	Mx	-.007	.25
58	MP2A	X	-9.99	2
59	MP2A	Z	-5.768	2
60	MP2A	Mx	-.005	2
61	MP2B	X	-12.958	2
62	MP2B	Z	-7.481	2
63	MP2B	Mx	0	2
64	MP2C	X	-9.99	2
65	MP2C	Z	-5.768	2
66	MP2C	Mx	.005	2
67	MP3A	X	-8.862	1.75
68	MP3A	Z	-5.117	1.75
69	MP3A	Mx	-.004	1.75
70	MP3B	X	-12.958	1.75
71	MP3B	Z	-7.481	1.75
72	MP3B	Mx	0	1.75
73	MP3C	X	-8.862	1.75
74	MP3C	Z	-5.117	1.75
75	MP3C	Mx	.004	1.75
76	MP1A	X	-28.296	.25
77	MP1A	Z	-16.337	.25
78	MP1A	Mx	.014	.25
79	MP1A	X	-28.296	5.25
80	MP1A	Z	-16.337	5.25
81	MP1A	Mx	.014	5.25
82	MP5A	X	-28.296	.25
83	MP5A	Z	-16.337	.25
84	MP5A	Mx	.014	.25
85	MP5A	X	-28.296	5.25
86	MP5A	Z	-16.337	5.25
87	MP5A	Mx	.014	5.25
88	MP1B	X	-13.461	.25
89	MP1B	Z	-7.772	.25
90	MP1B	Mx	0	.25
91	MP1B	X	-13.461	3.25
92	MP1B	Z	-7.772	3.25
93	MP1B	Mx	0	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP1C	X	-12.464	.25
95	MP1C	Z	-7.196	.25
96	MP1C	Mx	-.006	.25
97	MP1C	X	-12.464	3.25
98	MP1C	Z	-7.196	3.25
99	MP1C	Mx	-.006	3.25
100	MP5C	X	-12.464	.25
101	MP5C	Z	-7.196	.25
102	MP5C	Mx	-.006	.25
103	MP5C	X	-12.464	3.25
104	MP5C	Z	-7.196	3.25
105	MP5C	Mx	-.006	3.25
106	MP5B	X	-13.461	.25
107	MP5B	Z	-7.772	.25
108	MP5B	Mx	0	.25
109	MP5B	X	-13.461	3.25
110	MP5B	Z	-7.772	3.25
111	MP5B	Mx	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-14.464	1.25
2	MP3A	Z	-25.053	1.25
3	MP3A	Mx	-.006	1.25
4	MP3A	X	-14.464	4.25
5	MP3A	Z	-25.053	4.25
6	MP3A	Mx	-.006	4.25
7	MP3B	X	-14.464	1.25
8	MP3B	Z	-25.053	1.25
9	MP3B	Mx	.021	1.25
10	MP3B	X	-14.464	4.25
11	MP3B	Z	-25.053	4.25
12	MP3B	Mx	.021	4.25
13	MP3C	X	-12.753	1.25
14	MP3C	Z	-22.088	1.25
15	MP3C	Mx	-.013	1.25
16	MP3C	X	-12.753	4.25
17	MP3C	Z	-22.088	4.25
18	MP3C	Mx	-.013	4.25
19	MP3A	X	-14.464	1.25
20	MP3A	Z	-25.053	1.25
21	MP3A	Mx	.021	1.25
22	MP3A	X	-14.464	4.25
23	MP3A	Z	-25.053	4.25
24	MP3A	Mx	.021	4.25
25	MP3B	X	-14.464	1.25
26	MP3B	Z	-25.053	1.25
27	MP3B	Mx	-.006	1.25
28	MP3B	X	-14.464	4.25
29	MP3B	Z	-25.053	4.25
30	MP3B	Mx	-.006	4.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP3C	X	-12.753	1.25
32	MP3C	Z	-22.088	1.25
33	MP3C	Mx	-.013	1.25
34	MP3C	X	-12.753	4.25
35	MP3C	Z	-22.088	4.25
36	MP3C	Mx	-.013	4.25
37	MP4A	X	-7.615	1.75
38	MP4A	Z	-13.189	1.75
39	MP4A	Mx	.004	1.75
40	MP4A	X	-7.615	3.75
41	MP4A	Z	-13.189	3.75
42	MP4A	Mx	.004	3.75
43	MP4B	X	-7.615	1.75
44	MP4B	Z	-13.189	1.75
45	MP4B	Mx	.004	1.75
46	MP4B	X	-7.615	3.75
47	MP4B	Z	-13.189	3.75
48	MP4B	Mx	.004	3.75
49	MP4C	X	-3.777	1.75
50	MP4C	Z	-6.542	1.75
51	MP4C	Mx	-.004	1.75
52	MP4C	X	-3.777	3.75
53	MP4C	Z	-6.542	3.75
54	MP4C	Mx	-.004	3.75
55	MP2A	X	-9.608	.25
56	MP2A	Z	-16.641	.25
57	MP2A	Mx	-.005	.25
58	MP2A	X	-6.91	2
59	MP2A	Z	-11.969	2
60	MP2A	Mx	-.003	2
61	MP2B	X	-6.91	2
62	MP2B	Z	-11.969	2
63	MP2B	Mx	-.003	2
64	MP2C	X	-5.197	2
65	MP2C	Z	-9.001	2
66	MP2C	Mx	.005	2
67	MP3A	X	-6.693	1.75
68	MP3A	Z	-11.593	1.75
69	MP3A	Mx	-.003	1.75
70	MP3B	X	-6.693	1.75
71	MP3B	Z	-11.593	1.75
72	MP3B	Mx	-.003	1.75
73	MP3C	X	-4.329	1.75
74	MP3C	Z	-7.497	1.75
75	MP3C	Mx	.004	1.75
76	MP1A	X	-17.316	.25
77	MP1A	Z	-29.992	.25
78	MP1A	Mx	.009	.25
79	MP1A	X	-17.316	5.25
80	MP1A	Z	-29.992	5.25
81	MP1A	Mx	.009	5.25
82	MP5A	X	-17.316	.25



Company : Maser Consulting  
Designer :  
Job Number :  
Model Name : 468601-VZW\_MT\_LO\_H

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP5A	Z	-29.992	.25
84	MP5A	Mx	.009	.25
85	MP5A	X	-17.316	5.25
86	MP5A	Z	-29.992	5.25
87	MP5A	Mx	.009	5.25
88	MP1B	X	-7.58	.25
89	MP1B	Z	-13.129	.25
90	MP1B	Mx	.004	.25
91	MP1B	X	-7.58	3.25
92	MP1B	Z	-13.129	3.25
93	MP1B	Mx	.004	3.25
94	MP1C	X	-7.005	.25
95	MP1C	Z	-12.132	.25
96	MP1C	Mx	-.007	.25
97	MP1C	X	-7.005	3.25
98	MP1C	Z	-12.132	3.25
99	MP1C	Mx	-.007	3.25
100	MP5C	X	-7.005	.25
101	MP5C	Z	-12.132	.25
102	MP5C	Mx	-.007	.25
103	MP5C	X	-7.005	3.25
104	MP5C	Z	-12.132	3.25
105	MP5C	Mx	-.007	3.25
106	MP5B	X	-7.58	.25
107	MP5B	Z	-13.129	.25
108	MP5B	Mx	.004	.25
109	MP5B	X	-7.58	3.25
110	MP5B	Z	-13.129	3.25
111	MP5B	Mx	.004	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.25
2	MP3A	Z	-9.845	1.25
3	MP3A	Mx	-.005	1.25
4	MP3A	X	0	4.25
5	MP3A	Z	-9.845	4.25
6	MP3A	Mx	-.005	4.25
7	MP3B	X	0	1.25
8	MP3B	Z	-8.637	1.25
9	MP3B	Mx	.006	1.25
10	MP3B	X	0	4.25
11	MP3B	Z	-8.637	4.25
12	MP3B	Mx	.006	4.25
13	MP3C	X	0	1.25
14	MP3C	Z	-8.637	1.25
15	MP3C	Mx	-.001	1.25
16	MP3C	X	0	4.25
17	MP3C	Z	-8.637	4.25
18	MP3C	Mx	-.001	4.25
19	MP3A	X	0	1.25



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
72	MP3B	Mx	-1.75
73	MP3C	X	1.75
74	MP3C	Z	-2.971
75	MP3C	Mx	.001
76	MP1A	X	0
77	MP1A	Z	-11.819
78	MP1A	Mx	0
79	MP1A	X	5.25
80	MP1A	Z	-11.819
81	MP1A	Mx	0
82	MP5A	X	.25
83	MP5A	Z	-11.819
84	MP5A	Mx	.25
85	MP5A	X	5.25
86	MP5A	Z	-11.819
87	MP5A	Mx	5.25
88	MP1B	X	.25
89	MP1B	Z	-4.509
90	MP1B	Mx	.002
91	MP1B	X	3.25
92	MP1B	Z	-4.509
93	MP1B	Mx	.002
94	MP1C	X	.25
95	MP1C	Z	-4.509
96	MP1C	Mx	-.002
97	MP1C	X	3.25
98	MP1C	Z	-4.509
99	MP1C	Mx	-.002
100	MP5C	X	.25
101	MP5C	Z	-4.509
102	MP5C	Mx	-.002
103	MP5C	X	3.25
104	MP5C	Z	-4.509
105	MP5C	Mx	-.002
106	MP5B	X	.25
107	MP5B	Z	-4.509
108	MP5B	Mx	.002
109	MP5B	X	3.25
110	MP5B	Z	-4.509
111	MP5B	Mx	.002

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP3A	X	4.721
2	MP3A	Z	-8.178
3	MP3A	Mx	-.007
4	MP3A	X	4.721
5	MP3A	Z	-8.178
6	MP3A	Mx	-.007
7	MP3B	X	4.117
8	MP3B	Z	-7.132

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP3B	Mx	.004	1.25
10	MP3B	X	4.117	4.25
11	MP3B	Z	-7.132	4.25
12	MP3B	Mx	.004	4.25
13	MP3C	X	4.721	1.25
14	MP3C	Z	-8.178	1.25
15	MP3C	Mx	.002	1.25
16	MP3C	X	4.721	4.25
17	MP3C	Z	-8.178	4.25
18	MP3C	Mx	.002	4.25
19	MP3A	X	4.721	1.25
20	MP3A	Z	-8.178	1.25
21	MP3A	Mx	.002	1.25
22	MP3A	X	4.721	4.25
23	MP3A	Z	-8.178	4.25
24	MP3A	Mx	.002	4.25
25	MP3B	X	4.117	1.25
26	MP3B	Z	-7.132	1.25
27	MP3B	Mx	.004	1.25
28	MP3B	X	4.117	4.25
29	MP3B	Z	-7.132	4.25
30	MP3B	Mx	.004	4.25
31	MP3C	X	4.721	1.25
32	MP3C	Z	-8.178	1.25
33	MP3C	Mx	-.007	1.25
34	MP3C	X	4.721	4.25
35	MP3C	Z	-8.178	4.25
36	MP3C	Mx	-.007	4.25
37	MP4A	X	2.413	1.75
38	MP4A	Z	-4.179	1.75
39	MP4A	Mx	-.001	1.75
40	MP4A	X	2.413	3.75
41	MP4A	Z	-4.179	3.75
42	MP4A	Mx	-.001	3.75
43	MP4B	X	1.114	1.75
44	MP4B	Z	-1.93	1.75
45	MP4B	Mx	.001	1.75
46	MP4B	X	1.114	3.75
47	MP4B	Z	-1.93	3.75
48	MP4B	Mx	.001	3.75
49	MP4C	X	2.413	1.75
50	MP4C	Z	-4.179	1.75
51	MP4C	Mx	-.001	1.75
52	MP4C	X	2.413	3.75
53	MP4C	Z	-4.179	3.75
54	MP4C	Mx	-.001	3.75
55	MP2A	X	2.975	.25
56	MP2A	Z	-5.152	.25
57	MP2A	Mx	.001	.25
58	MP2A	X	2.077	2
59	MP2A	Z	-3.597	2
60	MP2A	Mx	.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
61	MP2B	X	1.514	2
62	MP2B	Z	-2.622	2
63	MP2B	Mx	-.002	2
64	MP2C	X	2.077	2
65	MP2C	Z	-3.597	2
66	MP2C	Mx	.001	2
67	MP3A	X	2.005	1.75
68	MP3A	Z	-3.473	1.75
69	MP3A	Mx	.001	1.75
70	MP3B	X	1.226	1.75
71	MP3B	Z	-2.124	1.75
72	MP3B	Mx	-.001	1.75
73	MP3C	X	2.005	1.75
74	MP3C	Z	-3.473	1.75
75	MP3C	Mx	.001	1.75
76	MP1A	X	5.735	.25
77	MP1A	Z	-9.933	.25
78	MP1A	Mx	-.003	.25
79	MP1A	X	5.735	5.25
80	MP1A	Z	-9.933	5.25
81	MP1A	Mx	-.003	5.25
82	MP5A	X	5.735	.25
83	MP5A	Z	-9.933	.25
84	MP5A	Mx	-.003	.25
85	MP5A	X	5.735	5.25
86	MP5A	Z	-9.933	5.25
87	MP5A	Mx	-.003	5.25
88	MP1B	X	2.189	.25
89	MP1B	Z	-3.791	.25
90	MP1B	Mx	.002	.25
91	MP1B	X	2.189	3.25
92	MP1B	Z	-3.791	3.25
93	MP1B	Mx	.002	3.25
94	MP1C	X	2.386	.25
95	MP1C	Z	-4.133	.25
96	MP1C	Mx	-.001	.25
97	MP1C	X	2.386	3.25
98	MP1C	Z	-4.133	3.25
99	MP1C	Mx	-.001	3.25
100	MP5C	X	2.386	.25
101	MP5C	Z	-4.133	.25
102	MP5C	Mx	-.001	.25
103	MP5C	X	2.386	3.25
104	MP5C	Z	-4.133	3.25
105	MP5C	Mx	-.001	3.25
106	MP5B	X	2.189	.25
107	MP5B	Z	-3.791	.25
108	MP5B	Mx	.002	.25
109	MP5B	X	2.189	3.25
110	MP5B	Z	-3.791	3.25
111	MP5B	Mx	.002	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.48	1.25
2	MP3A	Z	-4.319	1.25
3	MP3A	Mx	-.006	1.25
4	MP3A	X	7.48	4.25
5	MP3A	Z	-4.319	4.25
6	MP3A	Mx	-.006	4.25
7	MP3B	X	7.48	1.25
8	MP3B	Z	-4.319	1.25
9	MP3B	Mx	.001	1.25
10	MP3B	X	7.48	4.25
11	MP3B	Z	-4.319	4.25
12	MP3B	Mx	.001	4.25
13	MP3C	X	8.526	1.25
14	MP3C	Z	-4.923	1.25
15	MP3C	Mx	.005	1.25
16	MP3C	X	8.526	4.25
17	MP3C	Z	-4.923	4.25
18	MP3C	Mx	.005	4.25
19	MP3A	X	7.48	1.25
20	MP3A	Z	-4.319	1.25
21	MP3A	Mx	-.001	1.25
22	MP3A	X	7.48	4.25
23	MP3A	Z	-4.319	4.25
24	MP3A	Mx	-.001	4.25
25	MP3B	X	7.48	1.25
26	MP3B	Z	-4.319	1.25
27	MP3B	Mx	.006	1.25
28	MP3B	X	7.48	4.25
29	MP3B	Z	-4.319	4.25
30	MP3B	Mx	.006	4.25
31	MP3C	X	8.526	1.25
32	MP3C	Z	-4.923	1.25
33	MP3C	Mx	-.005	1.25
34	MP3C	X	8.526	4.25
35	MP3C	Z	-4.923	4.25
36	MP3C	Mx	-.005	4.25
37	MP4A	X	2.68	1.75
38	MP4A	Z	-1.547	1.75
39	MP4A	Mx	-.001	1.75
40	MP4A	X	2.68	3.75
41	MP4A	Z	-1.547	3.75
42	MP4A	Mx	-.001	3.75
43	MP4B	X	2.68	1.75
44	MP4B	Z	-1.547	1.75
45	MP4B	Mx	.001	1.75
46	MP4B	X	2.68	3.75
47	MP4B	Z	-1.547	3.75
48	MP4B	Mx	.001	3.75
49	MP4C	X	4.929	1.75
50	MP4C	Z	-2.846	1.75
51	MP4C	Mx	0	1.75
52	MP4C	X	4.929	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	-2.846	3.75
54	MP4C	Mx	0	3.75
55	MP2A	X	4.507	.25
56	MP2A	Z	-2.602	.25
57	MP2A	Mx	.002	.25
58	MP2A	X	2.947	2
59	MP2A	Z	-1.701	2
60	MP2A	Mx	.001	2
61	MP2B	X	2.947	2
62	MP2B	Z	-1.701	2
63	MP2B	Mx	-.001	2
64	MP2C	X	3.922	2
65	MP2C	Z	-2.265	2
66	MP2C	Mx	0	2
67	MP3A	X	2.573	1.75
68	MP3A	Z	-1.486	1.75
69	MP3A	Mx	.001	1.75
70	MP3B	X	2.573	1.75
71	MP3B	Z	-1.486	1.75
72	MP3B	Mx	-.001	1.75
73	MP3C	X	3.922	1.75
74	MP3C	Z	-2.265	1.75
75	MP3C	Mx	0	1.75
76	MP1A	X	9.326	.25
77	MP1A	Z	-5.384	.25
78	MP1A	Mx	-.005	.25
79	MP1A	X	9.326	5.25
80	MP1A	Z	-5.384	5.25
81	MP1A	Mx	-.005	5.25
82	MP5A	X	9.326	.25
83	MP5A	Z	-5.384	.25
84	MP5A	Mx	-.005	.25
85	MP5A	X	9.326	5.25
86	MP5A	Z	-5.384	5.25
87	MP5A	Mx	-.005	5.25
88	MP1B	X	3.905	.25
89	MP1B	Z	-2.255	.25
90	MP1B	Mx	.002	.25
91	MP1B	X	3.905	3.25
92	MP1B	Z	-2.255	3.25
93	MP1B	Mx	.002	3.25
94	MP1C	X	4.247	.25
95	MP1C	Z	-2.452	.25
96	MP1C	Mx	0	.25
97	MP1C	X	4.247	3.25
98	MP1C	Z	-2.452	3.25
99	MP1C	Mx	0	3.25
100	MP5C	X	4.247	.25
101	MP5C	Z	-2.452	.25
102	MP5C	Mx	0	.25
103	MP5C	X	4.247	3.25
104	MP5C	Z	-2.452	3.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	0	3.25
106	MP5B	X	3.905	.25
107	MP5B	Z	-2.255	.25
108	MP5B	Mx	.002	.25
109	MP5B	X	3.905	3.25
110	MP5B	Z	-2.255	3.25
111	MP5B	Mx	.002	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	8.235	1.25
2	MP3A	Z	0	1.25
3	MP3A	Mx	-.004	1.25
4	MP3A	X	8.235	4.25
5	MP3A	Z	0	4.25
6	MP3A	Mx	-.004	4.25
7	MP3B	X	9.443	1.25
8	MP3B	Z	0	1.25
9	MP3B	Mx	-.002	1.25
10	MP3B	X	9.443	4.25
11	MP3B	Z	0	4.25
12	MP3B	Mx	-.002	4.25
13	MP3C	X	9.443	1.25
14	MP3C	Z	0	1.25
15	MP3C	Mx	.007	1.25
16	MP3C	X	9.443	4.25
17	MP3C	Z	0	4.25
18	MP3C	Mx	.007	4.25
19	MP3A	X	8.235	1.25
20	MP3A	Z	0	1.25
21	MP3A	Mx	-.004	1.25
22	MP3A	X	8.235	4.25
23	MP3A	Z	0	4.25
24	MP3A	Mx	-.004	4.25
25	MP3B	X	9.443	1.25
26	MP3B	Z	0	1.25
27	MP3B	Mx	.007	1.25
28	MP3B	X	9.443	4.25
29	MP3B	Z	0	4.25
30	MP3B	Mx	.007	4.25
31	MP3C	X	9.443	1.25
32	MP3C	Z	0	1.25
33	MP3C	Mx	-.002	1.25
34	MP3C	X	9.443	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	-.002	4.25
37	MP4A	X	2.228	1.75
38	MP4A	Z	0	1.75
39	MP4A	Mx	-.001	1.75
40	MP4A	X	2.228	3.75
41	MP4A	Z	0	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP4A	Mx	-.001	3.75
43	MP4B	X	4.826	1.75
44	MP4B	Z	0	1.75
45	MP4B	Mx	.001	1.75
46	MP4B	X	4.826	3.75
47	MP4B	Z	0	3.75
48	MP4B	Mx	.001	3.75
49	MP4C	X	4.826	1.75
50	MP4C	Z	0	1.75
51	MP4C	Mx	.001	1.75
52	MP4C	X	4.826	3.75
53	MP4C	Z	0	3.75
54	MP4C	Mx	.001	3.75
55	MP2A	X	4.832	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	.002	.25
58	MP2A	X	3.027	2
59	MP2A	Z	0	2
60	MP2A	Mx	.002	2
61	MP2B	X	4.154	2
62	MP2B	Z	0	2
63	MP2B	Mx	-.001	2
64	MP2C	X	4.154	2
65	MP2C	Z	0	2
66	MP2C	Mx	-.001	2
67	MP3A	X	2.452	1.75
68	MP3A	Z	0	1.75
69	MP3A	Mx	.001	1.75
70	MP3B	X	4.01	1.75
71	MP3B	Z	0	1.75
72	MP3B	Mx	-.001	1.75
73	MP3C	X	4.01	1.75
74	MP3C	Z	0	1.75
75	MP3C	Mx	-.001	1.75
76	MP1A	X	10.419	.25
77	MP1A	Z	0	.25
78	MP1A	Mx	-.005	.25
79	MP1A	X	10.419	5.25
80	MP1A	Z	0	5.25
81	MP1A	Mx	-.005	5.25
82	MP5A	X	10.419	.25
83	MP5A	Z	0	.25
84	MP5A	Mx	-.005	.25
85	MP5A	X	10.419	5.25
86	MP5A	Z	0	5.25
87	MP5A	Mx	-.005	5.25
88	MP1B	X	4.773	.25
89	MP1B	Z	0	.25
90	MP1B	Mx	.001	.25
91	MP1B	X	4.773	3.25
92	MP1B	Z	0	3.25
93	MP1B	Mx	.001	3.25



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
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**Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP1C	X	4.773	.25
95	MP1C	Z	0	.25
96	MP1C	Mx	.001	.25
97	MP1C	X	4.773	3.25
98	MP1C	Z	0	3.25
99	MP1C	Mx	.001	3.25
100	MP5C	X	4.773	.25
101	MP5C	Z	0	.25
102	MP5C	Mx	.001	.25
103	MP5C	X	4.773	3.25
104	MP5C	Z	0	3.25
105	MP5C	Mx	.001	3.25
106	MP5B	X	4.773	.25
107	MP5B	Z	0	.25
108	MP5B	Mx	.001	.25
109	MP5B	X	4.773	3.25
110	MP5B	Z	0	3.25
111	MP5B	Mx	.001	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	7.48	1.25
2	MP3A	Z	4.319	1.25
3	MP3A	Mx	-.001	1.25
4	MP3A	X	7.48	4.25
5	MP3A	Z	4.319	4.25
6	MP3A	Mx	-.001	4.25
7	MP3B	X	8.526	1.25
8	MP3B	Z	4.923	1.25
9	MP3B	Mx	-.005	1.25
10	MP3B	X	8.526	4.25
11	MP3B	Z	4.923	4.25
12	MP3B	Mx	-.005	4.25
13	MP3C	X	7.48	1.25
14	MP3C	Z	4.319	1.25
15	MP3C	Mx	.006	1.25
16	MP3C	X	7.48	4.25
17	MP3C	Z	4.319	4.25
18	MP3C	Mx	.006	4.25
19	MP3A	X	7.48	1.25
20	MP3A	Z	4.319	1.25
21	MP3A	Mx	-.006	1.25
22	MP3A	X	7.48	4.25
23	MP3A	Z	4.319	4.25
24	MP3A	Mx	-.006	4.25
25	MP3B	X	8.526	1.25
26	MP3B	Z	4.923	1.25
27	MP3B	Mx	.005	1.25
28	MP3B	X	8.526	4.25
29	MP3B	Z	4.923	4.25
30	MP3B	Mx	.005	4.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP5A	Z	5.384	.25
84	MP5A	Mx	-.005	.25
85	MP5A	X	9.326	5.25
86	MP5A	Z	5.384	5.25
87	MP5A	Mx	-.005	5.25
88	MP1B	X	4.247	.25
89	MP1B	Z	2.452	.25
90	MP1B	Mx	0	.25
91	MP1B	X	4.247	3.25
92	MP1B	Z	2.452	3.25
93	MP1B	Mx	0	3.25
94	MP1C	X	3.905	.25
95	MP1C	Z	2.255	.25
96	MP1C	Mx	.002	.25
97	MP1C	X	3.905	3.25
98	MP1C	Z	2.255	3.25
99	MP1C	Mx	.002	3.25
100	MP5C	X	3.905	.25
101	MP5C	Z	2.255	.25
102	MP5C	Mx	.002	.25
103	MP5C	X	3.905	3.25
104	MP5C	Z	2.255	3.25
105	MP5C	Mx	.002	3.25
106	MP5B	X	4.247	.25
107	MP5B	Z	2.452	.25
108	MP5B	Mx	0	.25
109	MP5B	X	4.247	3.25
110	MP5B	Z	2.452	3.25
111	MP5B	Mx	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	4.721	1.25
2	MP3A	Z	8.178	1.25
3	MP3A	Mx	.002	1.25
4	MP3A	X	4.721	4.25
5	MP3A	Z	8.178	4.25
6	MP3A	Mx	.002	4.25
7	MP3B	X	4.721	1.25
8	MP3B	Z	8.178	1.25
9	MP3B	Mx	-.007	1.25
10	MP3B	X	4.721	4.25
11	MP3B	Z	8.178	4.25
12	MP3B	Mx	-.007	4.25
13	MP3C	X	4.117	1.25
14	MP3C	Z	7.132	1.25
15	MP3C	Mx	.004	1.25
16	MP3C	X	4.117	4.25
17	MP3C	Z	7.132	4.25
18	MP3C	Mx	.004	4.25
19	MP3A	X	4.721	1.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP3A	Z	8.178	1.25
21	MP3A	Mx	-.007	1.25
22	MP3A	X	4.721	4.25
23	MP3A	Z	8.178	4.25
24	MP3A	Mx	-.007	4.25
25	MP3B	X	4.721	1.25
26	MP3B	Z	8.178	1.25
27	MP3B	Mx	.002	1.25
28	MP3B	X	4.721	4.25
29	MP3B	Z	8.178	4.25
30	MP3B	Mx	.002	4.25
31	MP3C	X	4.117	1.25
32	MP3C	Z	7.132	1.25
33	MP3C	Mx	.004	1.25
34	MP3C	X	4.117	4.25
35	MP3C	Z	7.132	4.25
36	MP3C	Mx	.004	4.25
37	MP4A	X	2.413	1.75
38	MP4A	Z	4.179	1.75
39	MP4A	Mx	-.001	1.75
40	MP4A	X	2.413	3.75
41	MP4A	Z	4.179	3.75
42	MP4A	Mx	-.001	3.75
43	MP4B	X	2.413	1.75
44	MP4B	Z	4.179	1.75
45	MP4B	Mx	-.001	1.75
46	MP4B	X	2.413	3.75
47	MP4B	Z	4.179	3.75
48	MP4B	Mx	-.001	3.75
49	MP4C	X	1.114	1.75
50	MP4C	Z	1.93	1.75
51	MP4C	Mx	.001	1.75
52	MP4C	X	1.114	3.75
53	MP4C	Z	1.93	3.75
54	MP4C	Mx	.001	3.75
55	MP2A	X	2.975	.25
56	MP2A	Z	5.152	.25
57	MP2A	Mx	.001	.25
58	MP2A	X	2.077	2
59	MP2A	Z	3.597	2
60	MP2A	Mx	.001	2
61	MP2B	X	2.077	2
62	MP2B	Z	3.597	2
63	MP2B	Mx	.001	2
64	MP2C	X	1.514	2
65	MP2C	Z	2.622	2
66	MP2C	Mx	-.002	2
67	MP3A	X	2.005	1.75
68	MP3A	Z	3.473	1.75
69	MP3A	Mx	.001	1.75
70	MP3B	X	2.005	1.75
71	MP3B	Z	3.473	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	.001	1.75
73	MP3C	X	1.226	1.75
74	MP3C	Z	2.124	1.75
75	MP3C	Mx	-.001	1.75
76	MP1A	X	5.735	.25
77	MP1A	Z	9.933	.25
78	MP1A	Mx	-.003	.25
79	MP1A	X	5.735	5.25
80	MP1A	Z	9.933	5.25
81	MP1A	Mx	-.003	5.25
82	MP5A	X	5.735	.25
83	MP5A	Z	9.933	.25
84	MP5A	Mx	-.003	.25
85	MP5A	X	5.735	5.25
86	MP5A	Z	9.933	5.25
87	MP5A	Mx	-.003	5.25
88	MP1B	X	2.386	.25
89	MP1B	Z	4.133	.25
90	MP1B	Mx	-.001	.25
91	MP1B	X	2.386	3.25
92	MP1B	Z	4.133	3.25
93	MP1B	Mx	-.001	3.25
94	MP1C	X	2.189	.25
95	MP1C	Z	3.791	.25
96	MP1C	Mx	.002	.25
97	MP1C	X	2.189	3.25
98	MP1C	Z	3.791	3.25
99	MP1C	Mx	.002	3.25
100	MP5C	X	2.189	.25
101	MP5C	Z	3.791	.25
102	MP5C	Mx	.002	.25
103	MP5C	X	2.189	3.25
104	MP5C	Z	3.791	3.25
105	MP5C	Mx	.002	3.25
106	MP5B	X	2.386	.25
107	MP5B	Z	4.133	.25
108	MP5B	Mx	-.001	.25
109	MP5B	X	2.386	3.25
110	MP5B	Z	4.133	3.25
111	MP5B	Mx	-.001	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	0	1.25
2	MP3A	Z	9.845	1.25
3	MP3A	Mx	.005	1.25
4	MP3A	X	0	4.25
5	MP3A	Z	9.845	4.25
6	MP3A	Mx	.005	4.25
7	MP3B	X	0	1.25
8	MP3B	Z	8.637	1.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
9	MP3B	Mx	-.006	1.25
10	MP3B	X	0	4.25
11	MP3B	Z	8.637	4.25
12	MP3B	Mx	-.006	4.25
13	MP3C	X	0	1.25
14	MP3C	Z	8.637	1.25
15	MP3C	Mx	.001	1.25
16	MP3C	X	0	4.25
17	MP3C	Z	8.637	4.25
18	MP3C	Mx	.001	4.25
19	MP3A	X	0	1.25
20	MP3A	Z	9.845	1.25
21	MP3A	Mx	-.005	1.25
22	MP3A	X	0	4.25
23	MP3A	Z	9.845	4.25
24	MP3A	Mx	-.005	4.25
25	MP3B	X	0	1.25
26	MP3B	Z	8.637	1.25
27	MP3B	Mx	-.001	1.25
28	MP3B	X	0	4.25
29	MP3B	Z	8.637	4.25
30	MP3B	Mx	-.001	4.25
31	MP3C	X	0	1.25
32	MP3C	Z	8.637	1.25
33	MP3C	Mx	.006	1.25
34	MP3C	X	0	4.25
35	MP3C	Z	8.637	4.25
36	MP3C	Mx	.006	4.25
37	MP4A	X	0	1.75
38	MP4A	Z	5.692	1.75
39	MP4A	Mx	0	1.75
40	MP4A	X	0	3.75
41	MP4A	Z	5.692	3.75
42	MP4A	Mx	0	3.75
43	MP4B	X	0	1.75
44	MP4B	Z	3.094	1.75
45	MP4B	Mx	-.001	1.75
46	MP4B	X	0	3.75
47	MP4B	Z	3.094	3.75
48	MP4B	Mx	-.001	3.75
49	MP4C	X	0	1.75
50	MP4C	Z	3.094	1.75
51	MP4C	Mx	.001	1.75
52	MP4C	X	0	3.75
53	MP4C	Z	3.094	3.75
54	MP4C	Mx	.001	3.75
55	MP2A	X	0	.25
56	MP2A	Z	6.321	.25
57	MP2A	Mx	0	.25
58	MP2A	X	0	2
59	MP2A	Z	4.529	2
60	MP2A	Mx	0	2





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-4.721	1.25
2	MP3A	Z	8.178	1.25
3	MP3A	Mx	.007	1.25
4	MP3A	X	-4.721	4.25
5	MP3A	Z	8.178	4.25
6	MP3A	Mx	.007	4.25
7	MP3B	X	-4.117	1.25
8	MP3B	Z	7.132	1.25
9	MP3B	Mx	-.004	1.25
10	MP3B	X	-4.117	4.25
11	MP3B	Z	7.132	4.25
12	MP3B	Mx	-.004	4.25
13	MP3C	X	-4.721	1.25
14	MP3C	Z	8.178	1.25
15	MP3C	Mx	-.002	1.25
16	MP3C	X	-4.721	4.25
17	MP3C	Z	8.178	4.25
18	MP3C	Mx	-.002	4.25
19	MP3A	X	-4.721	1.25
20	MP3A	Z	8.178	1.25
21	MP3A	Mx	-.002	1.25
22	MP3A	X	-4.721	4.25
23	MP3A	Z	8.178	4.25
24	MP3A	Mx	-.002	4.25
25	MP3B	X	-4.117	1.25
26	MP3B	Z	7.132	1.25
27	MP3B	Mx	-.004	1.25
28	MP3B	X	-4.117	4.25
29	MP3B	Z	7.132	4.25
30	MP3B	Mx	-.004	4.25
31	MP3C	X	-4.721	1.25
32	MP3C	Z	8.178	1.25
33	MP3C	Mx	.007	1.25
34	MP3C	X	-4.721	4.25
35	MP3C	Z	8.178	4.25
36	MP3C	Mx	.007	4.25
37	MP4A	X	-2.413	1.75
38	MP4A	Z	4.179	1.75
39	MP4A	Mx	.001	1.75
40	MP4A	X	-2.413	3.75
41	MP4A	Z	4.179	3.75
42	MP4A	Mx	.001	3.75
43	MP4B	X	-1.114	1.75
44	MP4B	Z	1.93	1.75
45	MP4B	Mx	-.001	1.75
46	MP4B	X	-1.114	3.75
47	MP4B	Z	1.93	3.75
48	MP4B	Mx	-.001	3.75
49	MP4C	X	-2.413	1.75
50	MP4C	Z	4.179	1.75
51	MP4C	Mx	.001	1.75
52	MP4C	X	-2.413	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP4C	Z	4.179	3.75
54	MP4C	Mx	.001	3.75
55	MP2A	X	-2.975	.25
56	MP2A	Z	5.152	.25
57	MP2A	Mx	-.001	.25
58	MP2A	X	-2.077	2
59	MP2A	Z	3.597	2
60	MP2A	Mx	-.001	2
61	MP2B	X	-1.514	2
62	MP2B	Z	2.622	2
63	MP2B	Mx	.002	2
64	MP2C	X	-2.077	2
65	MP2C	Z	3.597	2
66	MP2C	Mx	-.001	2
67	MP3A	X	-2.005	1.75
68	MP3A	Z	3.473	1.75
69	MP3A	Mx	-.001	1.75
70	MP3B	X	-1.226	1.75
71	MP3B	Z	2.124	1.75
72	MP3B	Mx	.001	1.75
73	MP3C	X	-2.005	1.75
74	MP3C	Z	3.473	1.75
75	MP3C	Mx	-.001	1.75
76	MP1A	X	-5.735	.25
77	MP1A	Z	9.933	.25
78	MP1A	Mx	.003	.25
79	MP1A	X	-5.735	5.25
80	MP1A	Z	9.933	5.25
81	MP1A	Mx	.003	5.25
82	MP5A	X	-5.735	.25
83	MP5A	Z	9.933	.25
84	MP5A	Mx	.003	.25
85	MP5A	X	-5.735	5.25
86	MP5A	Z	9.933	5.25
87	MP5A	Mx	.003	5.25
88	MP1B	X	-2.189	.25
89	MP1B	Z	3.791	.25
90	MP1B	Mx	-.002	.25
91	MP1B	X	-2.189	3.25
92	MP1B	Z	3.791	3.25
93	MP1B	Mx	-.002	3.25
94	MP1C	X	-2.386	.25
95	MP1C	Z	4.133	.25
96	MP1C	Mx	.001	.25
97	MP1C	X	-2.386	3.25
98	MP1C	Z	4.133	3.25
99	MP1C	Mx	.001	3.25
100	MP5C	X	-2.386	.25
101	MP5C	Z	4.133	.25
102	MP5C	Mx	.001	.25
103	MP5C	X	-2.386	3.25
104	MP5C	Z	4.133	3.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP5C	Mx	.001	3.25
106	MP5B	X	-2.189	.25
107	MP5B	Z	3.791	.25
108	MP5B	Mx	-.002	.25
109	MP5B	X	-2.189	3.25
110	MP5B	Z	3.791	3.25
111	MP5B	Mx	-.002	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.48	1.25
2	MP3A	Z	4.319	1.25
3	MP3A	Mx	.006	1.25
4	MP3A	X	-7.48	4.25
5	MP3A	Z	4.319	4.25
6	MP3A	Mx	.006	4.25
7	MP3B	X	-7.48	1.25
8	MP3B	Z	4.319	1.25
9	MP3B	Mx	-.001	1.25
10	MP3B	X	-7.48	4.25
11	MP3B	Z	4.319	4.25
12	MP3B	Mx	-.001	4.25
13	MP3C	X	-8.526	1.25
14	MP3C	Z	4.923	1.25
15	MP3C	Mx	-.005	1.25
16	MP3C	X	-8.526	4.25
17	MP3C	Z	4.923	4.25
18	MP3C	Mx	-.005	4.25
19	MP3A	X	-7.48	1.25
20	MP3A	Z	4.319	1.25
21	MP3A	Mx	.001	1.25
22	MP3A	X	-7.48	4.25
23	MP3A	Z	4.319	4.25
24	MP3A	Mx	.001	4.25
25	MP3B	X	-7.48	1.25
26	MP3B	Z	4.319	1.25
27	MP3B	Mx	-.006	1.25
28	MP3B	X	-7.48	4.25
29	MP3B	Z	4.319	4.25
30	MP3B	Mx	-.006	4.25
31	MP3C	X	-8.526	1.25
32	MP3C	Z	4.923	1.25
33	MP3C	Mx	.005	1.25
34	MP3C	X	-8.526	4.25
35	MP3C	Z	4.923	4.25
36	MP3C	Mx	.005	4.25
37	MP4A	X	-2.68	1.75
38	MP4A	Z	1.547	1.75
39	MP4A	Mx	.001	1.75
40	MP4A	X	-2.68	3.75
41	MP4A	Z	1.547	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP4A	Mx	.001	3.75
43	MP4B	X	-2.68	1.75
44	MP4B	Z	1.547	1.75
45	MP4B	Mx	-.001	1.75
46	MP4B	X	-2.68	3.75
47	MP4B	Z	1.547	3.75
48	MP4B	Mx	-.001	3.75
49	MP4C	X	-4.929	1.75
50	MP4C	Z	2.846	1.75
51	MP4C	Mx	0	1.75
52	MP4C	X	-4.929	3.75
53	MP4C	Z	2.846	3.75
54	MP4C	Mx	0	3.75
55	MP2A	X	-4.507	.25
56	MP2A	Z	2.602	.25
57	MP2A	Mx	-.002	.25
58	MP2A	X	-2.947	2
59	MP2A	Z	1.701	2
60	MP2A	Mx	-.001	2
61	MP2B	X	-2.947	2
62	MP2B	Z	1.701	2
63	MP2B	Mx	.001	2
64	MP2C	X	-3.922	2
65	MP2C	Z	2.265	2
66	MP2C	Mx	0	2
67	MP3A	X	-2.573	1.75
68	MP3A	Z	1.486	1.75
69	MP3A	Mx	-.001	1.75
70	MP3B	X	-2.573	1.75
71	MP3B	Z	1.486	1.75
72	MP3B	Mx	.001	1.75
73	MP3C	X	-3.922	1.75
74	MP3C	Z	2.265	1.75
75	MP3C	Mx	0	1.75
76	MP1A	X	-9.326	.25
77	MP1A	Z	5.384	.25
78	MP1A	Mx	.005	.25
79	MP1A	X	-9.326	5.25
80	MP1A	Z	5.384	5.25
81	MP1A	Mx	.005	5.25
82	MP5A	X	-9.326	.25
83	MP5A	Z	5.384	.25
84	MP5A	Mx	.005	.25
85	MP5A	X	-9.326	5.25
86	MP5A	Z	5.384	5.25
87	MP5A	Mx	.005	5.25
88	MP1B	X	-3.905	.25
89	MP1B	Z	2.255	.25
90	MP1B	Mx	-.002	.25
91	MP1B	X	-3.905	3.25
92	MP1B	Z	2.255	3.25
93	MP1B	Mx	-.002	3.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
31	MP3C	X	-9.443	1.25
32	MP3C	Z	0	1.25
33	MP3C	Mx	.002	1.25
34	MP3C	X	-9.443	4.25
35	MP3C	Z	0	4.25
36	MP3C	Mx	.002	4.25
37	MP4A	X	-2.228	1.75
38	MP4A	Z	0	1.75
39	MP4A	Mx	.001	1.75
40	MP4A	X	-2.228	3.75
41	MP4A	Z	0	3.75
42	MP4A	Mx	.001	3.75
43	MP4B	X	-4.826	1.75
44	MP4B	Z	0	1.75
45	MP4B	Mx	-.001	1.75
46	MP4B	X	-4.826	3.75
47	MP4B	Z	0	3.75
48	MP4B	Mx	-.001	3.75
49	MP4C	X	-4.826	1.75
50	MP4C	Z	0	1.75
51	MP4C	Mx	-.001	1.75
52	MP4C	X	-4.826	3.75
53	MP4C	Z	0	3.75
54	MP4C	Mx	-.001	3.75
55	MP2A	X	-4.832	.25
56	MP2A	Z	0	.25
57	MP2A	Mx	-.002	.25
58	MP2A	X	-3.027	2
59	MP2A	Z	0	2
60	MP2A	Mx	-.002	2
61	MP2B	X	-4.154	2
62	MP2B	Z	0	2
63	MP2B	Mx	.001	2
64	MP2C	X	-4.154	2
65	MP2C	Z	0	2
66	MP2C	Mx	.001	2
67	MP3A	X	-2.452	1.75
68	MP3A	Z	0	1.75
69	MP3A	Mx	-.001	1.75
70	MP3B	X	-4.01	1.75
71	MP3B	Z	0	1.75
72	MP3B	Mx	.001	1.75
73	MP3C	X	-4.01	1.75
74	MP3C	Z	0	1.75
75	MP3C	Mx	.001	1.75
76	MP1A	X	-10.419	.25
77	MP1A	Z	0	.25
78	MP1A	Mx	.005	.25
79	MP1A	X	-10.419	5.25
80	MP1A	Z	0	5.25
81	MP1A	Mx	.005	5.25
82	MP5A	X	-10.419	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP5A	Z	0	.25
84	MP5A	Mx	.005	.25
85	MP5A	X	-10.419	5.25
86	MP5A	Z	0	5.25
87	MP5A	Mx	.005	5.25
88	MP1B	X	-4.773	.25
89	MP1B	Z	0	.25
90	MP1B	Mx	-.001	.25
91	MP1B	X	-4.773	3.25
92	MP1B	Z	0	3.25
93	MP1B	Mx	-.001	3.25
94	MP1C	X	-4.773	.25
95	MP1C	Z	0	.25
96	MP1C	Mx	-.001	.25
97	MP1C	X	-4.773	3.25
98	MP1C	Z	0	3.25
99	MP1C	Mx	-.001	3.25
100	MP5C	X	-4.773	.25
101	MP5C	Z	0	.25
102	MP5C	Mx	-.001	.25
103	MP5C	X	-4.773	3.25
104	MP5C	Z	0	3.25
105	MP5C	Mx	-.001	3.25
106	MP5B	X	-4.773	.25
107	MP5B	Z	0	.25
108	MP5B	Mx	-.001	.25
109	MP5B	X	-4.773	3.25
110	MP5B	Z	0	3.25
111	MP5B	Mx	-.001	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-7.48	1.25
2	MP3A	Z	-4.319	1.25
3	MP3A	Mx	.001	1.25
4	MP3A	X	-7.48	4.25
5	MP3A	Z	-4.319	4.25
6	MP3A	Mx	.001	4.25
7	MP3B	X	-8.526	1.25
8	MP3B	Z	-4.923	1.25
9	MP3B	Mx	.005	1.25
10	MP3B	X	-8.526	4.25
11	MP3B	Z	-4.923	4.25
12	MP3B	Mx	.005	4.25
13	MP3C	X	-7.48	1.25
14	MP3C	Z	-4.319	1.25
15	MP3C	Mx	-.006	1.25
16	MP3C	X	-7.48	4.25
17	MP3C	Z	-4.319	4.25
18	MP3C	Mx	-.006	4.25
19	MP3A	X	-7.48	1.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
20	MP3A	Z	-4.319	1.25
21	MP3A	Mx	.006	1.25
22	MP3A	X	-7.48	4.25
23	MP3A	Z	-4.319	4.25
24	MP3A	Mx	.006	4.25
25	MP3B	X	-8.526	1.25
26	MP3B	Z	-4.923	1.25
27	MP3B	Mx	-.005	1.25
28	MP3B	X	-8.526	4.25
29	MP3B	Z	-4.923	4.25
30	MP3B	Mx	-.005	4.25
31	MP3C	X	-7.48	1.25
32	MP3C	Z	-4.319	1.25
33	MP3C	Mx	-.001	1.25
34	MP3C	X	-7.48	4.25
35	MP3C	Z	-4.319	4.25
36	MP3C	Mx	-.001	4.25
37	MP4A	X	-2.68	1.75
38	MP4A	Z	-1.547	1.75
39	MP4A	Mx	.001	1.75
40	MP4A	X	-2.68	3.75
41	MP4A	Z	-1.547	3.75
42	MP4A	Mx	.001	3.75
43	MP4B	X	-4.929	1.75
44	MP4B	Z	-2.846	1.75
45	MP4B	Mx	0	1.75
46	MP4B	X	-4.929	3.75
47	MP4B	Z	-2.846	3.75
48	MP4B	Mx	0	3.75
49	MP4C	X	-2.68	1.75
50	MP4C	Z	-1.547	1.75
51	MP4C	Mx	-.001	1.75
52	MP4C	X	-2.68	3.75
53	MP4C	Z	-1.547	3.75
54	MP4C	Mx	-.001	3.75
55	MP2A	X	-4.507	.25
56	MP2A	Z	-2.602	.25
57	MP2A	Mx	-.002	.25
58	MP2A	X	-2.947	2
59	MP2A	Z	-1.701	2
60	MP2A	Mx	-.001	2
61	MP2B	X	-3.922	2
62	MP2B	Z	-2.265	2
63	MP2B	Mx	0	2
64	MP2C	X	-2.947	2
65	MP2C	Z	-1.701	2
66	MP2C	Mx	.001	2
67	MP3A	X	-2.573	1.75
68	MP3A	Z	-1.486	1.75
69	MP3A	Mx	-.001	1.75
70	MP3B	X	-3.922	1.75
71	MP3B	Z	-2.265	1.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP3B	Mx	0	1.75
73	MP3C	X	-2.573	1.75
74	MP3C	Z	-1.486	1.75
75	MP3C	Mx	.001	1.75
76	MP1A	X	-9.326	.25
77	MP1A	Z	-5.384	.25
78	MP1A	Mx	.005	.25
79	MP1A	X	-9.326	5.25
80	MP1A	Z	-5.384	5.25
81	MP1A	Mx	.005	5.25
82	MP5A	X	-9.326	.25
83	MP5A	Z	-5.384	.25
84	MP5A	Mx	.005	.25
85	MP5A	X	-9.326	5.25
86	MP5A	Z	-5.384	5.25
87	MP5A	Mx	.005	5.25
88	MP1B	X	-4.247	.25
89	MP1B	Z	-2.452	.25
90	MP1B	Mx	0	.25
91	MP1B	X	-4.247	3.25
92	MP1B	Z	-2.452	3.25
93	MP1B	Mx	0	3.25
94	MP1C	X	-3.905	.25
95	MP1C	Z	-2.255	.25
96	MP1C	Mx	-.002	.25
97	MP1C	X	-3.905	3.25
98	MP1C	Z	-2.255	3.25
99	MP1C	Mx	-.002	3.25
100	MP5C	X	-3.905	.25
101	MP5C	Z	-2.255	.25
102	MP5C	Mx	-.002	.25
103	MP5C	X	-3.905	3.25
104	MP5C	Z	-2.255	3.25
105	MP5C	Mx	-.002	3.25
106	MP5B	X	-4.247	.25
107	MP5B	Z	-2.452	.25
108	MP5B	Mx	0	.25
109	MP5B	X	-4.247	3.25
110	MP5B	Z	-2.452	3.25
111	MP5B	Mx	0	3.25

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP3A	X	-4.721	1.25
2	MP3A	Z	-8.178	1.25
3	MP3A	Mx	-.002	1.25
4	MP3A	X	-4.721	4.25
5	MP3A	Z	-8.178	4.25
6	MP3A	Mx	-.002	4.25
7	MP3B	X	-4.721	1.25
8	MP3B	Z	-8.178	1.25







**Member Point Loads (BLC 77 : Lm1)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%50

**Member Point Loads (BLC 78 : Lm2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-500	%80

**Member Point Loads (BLC 79 : Lv1)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	0

**Member Point Loads (BLC 80 : Lv2)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M1	Y	-250	%50

**Member Distributed Loads (BLC 40 : Structure Di)**

	Member Label	Direction	Start Magnitude[lb/ft,...]	End Magnitude[lb/ft,F...]	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-6.279	-6.279	0	%100
2	M2	Y	-12.414	-12.414	0	%100
3	M3	Y	-6.279	-6.279	0	%100
4	M4	Y	-12.414	-12.414	0	%100
5	M5	Y	-6.279	-6.279	0	%100
6	M6	Y	-12.414	-12.414	0	%100
7	M7	Y	-6.97	-6.97	0	%100
8	M13	Y	-5.365	-5.365	0	%100
9	M14	Y	-5.365	-5.365	0	%100
10	M21	Y	-6.97	-6.97	0	%100
11	M27	Y	-5.365	-5.365	0	%100
12	M28	Y	-5.365	-5.365	0	%100
13	M35	Y	-6.97	-6.97	0	%100
14	M41	Y	-5.365	-5.365	0	%100
15	M42	Y	-5.365	-5.365	0	%100
16	M48	Y	-9.451	-9.451	0	%100
17	M49	Y	-9.451	-9.451	0	%100
18	M53	Y	-9.451	-9.451	0	%100
19	M54	Y	-9.451	-9.451	0	%100
20	M59	Y	-9.451	-9.451	0	%100
21	M60	Y	-9.451	-9.451	0	%100
22	M62	Y	-9.214	-9.214	0	%100
23	M64	Y	-9.214	-9.214	0	%100
24	M66	Y	-9.214	-9.214	0	%100
25	MP1A	Y	-4.748	-4.748	0	%100
26	MP2A	Y	-4.748	-4.748	0	%100
27	MP4A	Y	-4.748	-4.748	0	%100
28	MP5A	Y	-4.748	-4.748	0	%100
29	MP1C	Y	-4.748	-4.748	0	%100
30	MP2C	Y	-4.748	-4.748	0	%100
31	MP4C	Y	-4.748	-4.748	0	%100
32	MP5C	Y	-4.748	-4.748	0	%100
33	MP1B	Y	-4.748	-4.748	0	%100

**Member Distributed Loads (BLC 40 : Structure Di) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
34	MP2B	Y	-4.748	-4.748	0	%100
35	MP4B	Y	-4.748	-4.748	0	%100
36	MP5B	Y	-4.748	-4.748	0	%100
37	MP3A	Y	-5.428	-5.428	0	%100
38	MP3C	Y	-5.428	-5.428	0	%100
39	MP3B	Y	-5.428	-5.428	0	%100
40	M100	Y	-5.428	-5.428	0	%100
41	M101	Y	-5.428	-5.428	0	%100
42	M102	Y	-5.428	-5.428	0	%100
43	M105	Y	-7.289	-7.289	0	%100
44	M108	Y	-7.289	-7.289	0	%100
45	M111	Y	-7.289	-7.289	0	%100
46	M117	Y	-5.428	-5.428	0	%100
47	M118	Y	-6.327	-6.327	0	%100
48	M119	Y	-6.327	-6.327	0	%100
49	M125	Y	-5.428	-5.428	0	%100
50	M126	Y	-6.327	-6.327	0	%100
51	M127	Y	-6.327	-6.327	0	%100
52	M133	Y	-5.428	-5.428	0	%100
53	M134	Y	-6.327	-6.327	0	%100
54	M135	Y	-6.327	-6.327	0	%100
55	M134A	Y	-13.063	-13.063	0	%100
56	M135A	Y	-6.97	-6.97	0	%100
57	M136	Y	-6.97	-6.97	0	%100
58	M130A	Y	-13.063	-13.063	0	%100
59	M131A	Y	-6.97	-6.97	0	%100
60	M132A	Y	-6.97	-6.97	0	%100
61	M134B	Y	-13.063	-13.063	0	%100
62	M135B	Y	-6.97	-6.97	0	%100
63	M136A	Y	-6.97	-6.97	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-13.115	-13.115	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-3.279	-3.279	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-22.483	-22.483	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-3.279	-3.279	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-22.483	-22.483	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-3.914	-3.914	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	-2.732	-2.732	0	%100
17	M14	X	0	0	0	%100
18	M14	Z	-10.929	-10.929	0	%100





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 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
71	MP5B	X	0	0	0	%100
72	MP5B	Z	-8.899	-8.899	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	-10.773	-10.773	0	%100
75	MP3C	X	0	0	0	%100
76	MP3C	Z	-10.773	-10.773	0	%100
77	MP3B	X	0	0	0	%100
78	MP3B	Z	-10.773	-10.773	0	%100
79	M100	X	0	0	0	%100
80	M100	Z	-10.773	-10.773	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	-2.693	-2.693	0	%100
83	M102	X	0	0	0	%100
84	M102	Z	-2.693	-2.693	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	-2.918	-2.918	0	%100
87	M108	X	0	0	0	%100
88	M108	Z	-2.918	-2.918	0	%100
89	M111	X	0	0	0	%100
90	M111	Z	-11.673	-11.673	0	%100
91	M117	X	0	0	0	%100
92	M117	Z	-10.773	-10.773	0	%100
93	M118	X	0	0	0	%100
94	M118	Z	-13.28	-13.28	0	%100
95	M119	X	0	0	0	%100
96	M119	Z	-13.28	-13.28	0	%100
97	M125	X	0	0	0	%100
98	M125	Z	-2.693	-2.693	0	%100
99	M126	X	0	0	0	%100
100	M126	Z	-13.239	-13.239	0	%100
101	M127	X	0	0	0	%100
102	M127	Z	-7.498	-7.498	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	-2.693	-2.693	0	%100
105	M134	X	0	0	0	%100
106	M134	Z	-7.498	-7.498	0	%100
107	M135	X	0	0	0	%100
108	M135	Z	-13.239	-13.239	0	%100
109	M134A	X	0	0	0	%100
110	M134A	Z	-26.203	-26.203	0	%100
111	M135A	X	0	0	0	%100
112	M135A	Z	-14.988	-14.988	0	%100
113	M136	X	0	0	0	%100
114	M136	Z	-14.988	-14.988	0	%100
115	M130A	X	0	0	0	%100
116	M130A	Z	-6.551	-6.551	0	%100
117	M131A	X	0	0	0	%100
118	M131A	Z	-3.747	-3.747	0	%100
119	M132A	X	0	0	0	%100
120	M132A	Z	-3.747	-3.747	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	-6.551	-6.551	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	0	0	0	%100
124	M135B	Z	-3.747	-3.747	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	-3.747	-3.747	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	4.918	4.918	0	%100
2	M1	Z	-8.518	-8.518	0	%100
3	M2	X	3.747	3.747	0	%100
4	M2	Z	-6.49	-6.49	0	%100
5	M3	X	4.918	4.918	0	%100
6	M3	Z	-8.518	-8.518	0	%100
7	M4	X	3.747	3.747	0	%100
8	M4	Z	-6.49	-6.49	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	14.988	14.988	0	%100
12	M6	Z	-25.961	-25.961	0	%100
13	M7	X	5.871	5.871	0	%100
14	M7	Z	-10.169	-10.169	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14	X	4.098	4.098	0	%100
18	M14	Z	-7.099	-7.099	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M27	X	4.098	4.098	0	%100
22	M27	Z	-7.099	-7.099	0	%100
23	M28	X	4.098	4.098	0	%100
24	M28	Z	-7.099	-7.099	0	%100
25	M35	X	5.871	5.871	0	%100
26	M35	Z	-10.169	-10.169	0	%100
27	M41	X	4.098	4.098	0	%100
28	M41	Z	-7.099	-7.099	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	0	0	0	%100
31	M48	X	.025	.025	0	%100
32	M48	Z	-.044	-.044	0	%100
33	M49	X	4.342	4.342	0	%100
34	M49	Z	-7.521	-7.521	0	%100
35	M53	X	4.342	4.342	0	%100
36	M53	Z	-7.521	-7.521	0	%100
37	M54	X	.025	.025	0	%100
38	M54	Z	-.044	-.044	0	%100
39	M59	X	5.033	5.033	0	%100
40	M59	Z	-8.717	-8.717	0	%100
41	M60	X	5.033	5.033	0	%100
42	M60	Z	-8.717	-8.717	0	%100
43	M62	X	1.612	1.612	0	%100
44	M62	Z	-2.791	-2.791	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M64	X	1.612	1.612	0	%100
46	M64	Z	-2.791	-2.791	0	%100
47	M66	X	6.446	6.446	0	%100
48	M66	Z	-11.165	-11.165	0	%100
49	MP1A	X	4.45	4.45	0	%100
50	MP1A	Z	-7.707	-7.707	0	%100
51	MP2A	X	4.45	4.45	0	%100
52	MP2A	Z	-7.707	-7.707	0	%100
53	MP4A	X	4.45	4.45	0	%100
54	MP4A	Z	-7.707	-7.707	0	%100
55	MP5A	X	4.45	4.45	0	%100
56	MP5A	Z	-7.707	-7.707	0	%100
57	MP1C	X	4.45	4.45	0	%100
58	MP1C	Z	-7.707	-7.707	0	%100
59	MP2C	X	4.45	4.45	0	%100
60	MP2C	Z	-7.707	-7.707	0	%100
61	MP4C	X	4.45	4.45	0	%100
62	MP4C	Z	-7.707	-7.707	0	%100
63	MP5C	X	4.45	4.45	0	%100
64	MP5C	Z	-7.707	-7.707	0	%100
65	MP1B	X	4.45	4.45	0	%100
66	MP1B	Z	-7.707	-7.707	0	%100
67	MP2B	X	4.45	4.45	0	%100
68	MP2B	Z	-7.707	-7.707	0	%100
69	MP4B	X	4.45	4.45	0	%100
70	MP4B	Z	-7.707	-7.707	0	%100
71	MP5B	X	4.45	4.45	0	%100
72	MP5B	Z	-7.707	-7.707	0	%100
73	MP3A	X	5.386	5.386	0	%100
74	MP3A	Z	-9.33	-9.33	0	%100
75	MP3C	X	5.386	5.386	0	%100
76	MP3C	Z	-9.33	-9.33	0	%100
77	MP3B	X	5.386	5.386	0	%100
78	MP3B	Z	-9.33	-9.33	0	%100
79	M100	X	4.04	4.04	0	%100
80	M100	Z	-6.997	-6.997	0	%100
81	M101	X	4.04	4.04	0	%100
82	M101	Z	-6.997	-6.997	0	%100
83	M102	X	0	0	0	%100
84	M102	Z	0	0	0	%100
85	M105	X	4.377	4.377	0	%100
86	M105	Z	-7.582	-7.582	0	%100
87	M108	X	0	0	0	%100
88	M108	Z	0	0	0	%100
89	M111	X	4.377	4.377	0	%100
90	M111	Z	-7.582	-7.582	0	%100
91	M117	X	4.04	4.04	0	%100
92	M117	Z	-6.997	-6.997	0	%100
93	M118	X	4.72	4.72	0	%100
94	M118	Z	-8.175	-8.175	0	%100
95	M119	X	7.59	7.59	0	%100
96	M119	Z	-13.146	-13.146	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	M125	X	4.04	4.04	0	%100
98	M125	Z	-6.997	-6.997	0	%100
99	M126	X	7.59	7.59	0	%100
100	M126	Z	-13.146	-13.146	0	%100
101	M127	X	4.719	4.719	0	%100
102	M127	Z	-8.174	-8.174	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	4.699	4.699	0	%100
106	M134	Z	-8.139	-8.139	0	%100
107	M135	X	4.7	4.7	0	%100
108	M135	Z	-8.14	-8.14	0	%100
109	M134A	X	9.826	9.826	0	%100
110	M134A	Z	-17.019	-17.019	0	%100
111	M135A	X	5.621	5.621	0	%100
112	M135A	Z	-9.735	-9.735	0	%100
113	M136	X	5.621	5.621	0	%100
114	M136	Z	-9.735	-9.735	0	%100
115	M130A	X	9.826	9.826	0	%100
116	M130A	Z	-17.019	-17.019	0	%100
117	M131A	X	5.621	5.621	0	%100
118	M131A	Z	-9.735	-9.735	0	%100
119	M132A	X	5.621	5.621	0	%100
120	M132A	Z	-9.735	-9.735	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	0	0	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.839	2.839	0	%100
2	M1	Z	-1.639	-1.639	0	%100
3	M2	X	19.471	19.471	0	%100
4	M2	Z	-11.241	-11.241	0	%100
5	M3	X	11.358	11.358	0	%100
6	M3	Z	-6.557	-6.557	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	2.839	2.839	0	%100
10	M5	Z	-1.639	-1.639	0	%100
11	M6	X	19.471	19.471	0	%100
12	M6	Z	-11.241	-11.241	0	%100
13	M7	X	13.558	13.558	0	%100
14	M7	Z	-7.828	-7.828	0	%100
15	M13	X	2.366	2.366	0	%100
16	M13	Z	-1.366	-1.366	0	%100
17	M14	X	2.366	2.366	0	%100
18	M14	Z	-1.366	-1.366	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	3.245	3.245	0	%100
124	M135B	Z	-1.874	-1.874	0	%100
125	M136A	X	3.245	3.245	0	%100
126	M136A	Z	-1.874	-1.874	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	29.977	29.977	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	9.836	9.836	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	7.494	7.494	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	9.836	9.836	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	7.494	7.494	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	11.742	11.742	0	%100
14	M7	Z	0	0	0	%100
15	M13	X	8.197	8.197	0	%100
16	M13	Z	0	0	0	%100
17	M14	X	0	0	0	%100
18	M14	Z	0	0	0	%100
19	M21	X	11.742	11.742	0	%100
20	M21	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	8.197	8.197	0	%100
24	M28	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M41	X	8.197	8.197	0	%100
28	M41	Z	0	0	0	%100
29	M42	X	8.197	8.197	0	%100
30	M42	Z	0	0	0	%100
31	M48	X	10.065	10.065	0	%100
32	M48	Z	0	0	0	%100
33	M49	X	10.065	10.065	0	%100
34	M49	Z	0	0	0	%100
35	M53	X	.051	.051	0	%100
36	M53	Z	0	0	0	%100
37	M54	X	8.685	8.685	0	%100
38	M54	Z	0	0	0	%100
39	M59	X	8.685	8.685	0	%100
40	M59	Z	0	0	0	%100
41	M60	X	.051	.051	0	%100
42	M60	Z	0	0	0	%100
43	M62	X	12.892	12.892	0	%100
44	M62	Z	0	0	0	%100



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 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	3.223	3.223	0 %100
46	M64	Z	0	0	0 %100
47	M66	X	3.223	3.223	0 %100
48	M66	Z	0	0	0 %100
49	MP1A	X	8.899	8.899	0 %100
50	MP1A	Z	0	0	0 %100
51	MP2A	X	8.899	8.899	0 %100
52	MP2A	Z	0	0	0 %100
53	MP4A	X	8.899	8.899	0 %100
54	MP4A	Z	0	0	0 %100
55	MP5A	X	8.899	8.899	0 %100
56	MP5A	Z	0	0	0 %100
57	MP1C	X	8.899	8.899	0 %100
58	MP1C	Z	0	0	0 %100
59	MP2C	X	8.899	8.899	0 %100
60	MP2C	Z	0	0	0 %100
61	MP4C	X	8.899	8.899	0 %100
62	MP4C	Z	0	0	0 %100
63	MP5C	X	8.899	8.899	0 %100
64	MP5C	Z	0	0	0 %100
65	MP1B	X	8.899	8.899	0 %100
66	MP1B	Z	0	0	0 %100
67	MP2B	X	8.899	8.899	0 %100
68	MP2B	Z	0	0	0 %100
69	MP4B	X	8.899	8.899	0 %100
70	MP4B	Z	0	0	0 %100
71	MP5B	X	8.899	8.899	0 %100
72	MP5B	Z	0	0	0 %100
73	MP3A	X	10.773	10.773	0 %100
74	MP3A	Z	0	0	0 %100
75	MP3C	X	10.773	10.773	0 %100
76	MP3C	Z	0	0	0 %100
77	MP3B	X	10.773	10.773	0 %100
78	MP3B	Z	0	0	0 %100
79	M100	X	0	0	0 %100
80	M100	Z	0	0	0 %100
81	M101	X	8.08	8.08	0 %100
82	M101	Z	0	0	0 %100
83	M102	X	8.08	8.08	0 %100
84	M102	Z	0	0	0 %100
85	M105	X	8.755	8.755	0 %100
86	M105	Z	0	0	0 %100
87	M108	X	8.755	8.755	0 %100
88	M108	Z	0	0	0 %100
89	M111	X	0	0	0 %100
90	M111	Z	0	0	0 %100
91	M117	X	0	0	0 %100
92	M117	Z	0	0	0 %100
93	M118	X	9.398	9.398	0 %100
94	M118	Z	0	0	0 %100
95	M119	X	9.398	9.398	0 %100
96	M119	Z	0	0	0 %100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	M125	X	8.08	8.08	0	%100
98	M125	Z	0	0	0	%100
99	M126	X	9.438	9.438	0	%100
100	M126	Z	0	0	0	%100
101	M127	X	15.18	15.18	0	%100
102	M127	Z	0	0	0	%100
103	M133	X	8.08	8.08	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	15.18	15.18	0	%100
106	M134	Z	0	0	0	%100
107	M135	X	9.438	9.438	0	%100
108	M135	Z	0	0	0	%100
109	M134A	X	0	0	0	%100
110	M134A	Z	0	0	0	%100
111	M135A	X	0	0	0	%100
112	M135A	Z	0	0	0	%100
113	M136	X	0	0	0	%100
114	M136	Z	0	0	0	%100
115	M130A	X	19.652	19.652	0	%100
116	M130A	Z	0	0	0	%100
117	M131A	X	11.241	11.241	0	%100
118	M131A	Z	0	0	0	%100
119	M132A	X	11.241	11.241	0	%100
120	M132A	Z	0	0	0	%100
121	M134B	X	19.652	19.652	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	11.241	11.241	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	11.241	11.241	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	2.839	2.839	0	%100
2	M1	Z	1.639	1.639	0	%100
3	M2	X	19.471	19.471	0	%100
4	M2	Z	11.241	11.241	0	%100
5	M3	X	2.839	2.839	0	%100
6	M3	Z	1.639	1.639	0	%100
7	M4	X	19.471	19.471	0	%100
8	M4	Z	11.241	11.241	0	%100
9	M5	X	11.358	11.358	0	%100
10	M5	Z	6.557	6.557	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	3.39	3.39	0	%100
14	M7	Z	1.957	1.957	0	%100
15	M13	X	9.465	9.465	0	%100
16	M13	Z	5.465	5.465	0	%100
17	M14	X	2.366	2.366	0	%100
18	M14	Z	1.366	1.366	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	13.558	13.558	0	%100
20	M21	Z	7.828	7.828	0	%100
21	M27	X	2.366	2.366	0	%100
22	M27	Z	1.366	1.366	0	%100
23	M28	X	2.366	2.366	0	%100
24	M28	Z	1.366	1.366	0	%100
25	M35	X	3.39	3.39	0	%100
26	M35	Z	1.957	1.957	0	%100
27	M41	X	2.366	2.366	0	%100
28	M41	Z	1.366	1.366	0	%100
29	M42	X	9.465	9.465	0	%100
30	M42	Z	5.465	5.465	0	%100
31	M48	X	10.811	10.811	0	%100
32	M48	Z	6.242	6.242	0	%100
33	M49	X	3.334	3.334	0	%100
34	M49	Z	1.925	1.925	0	%100
35	M53	X	3.333	3.333	0	%100
36	M53	Z	1.925	1.925	0	%100
37	M54	X	10.811	10.811	0	%100
38	M54	Z	6.242	6.242	0	%100
39	M59	X	2.138	2.138	0	%100
40	M59	Z	1.234	1.234	0	%100
41	M60	X	2.138	2.138	0	%100
42	M60	Z	1.234	1.234	0	%100
43	M62	X	8.374	8.374	0	%100
44	M62	Z	4.835	4.835	0	%100
45	M64	X	8.374	8.374	0	%100
46	M64	Z	4.835	4.835	0	%100
47	M66	X	0	0	0	%100
48	M66	Z	0	0	0	%100
49	MP1A	X	7.707	7.707	0	%100
50	MP1A	Z	4.45	4.45	0	%100
51	MP2A	X	7.707	7.707	0	%100
52	MP2A	Z	4.45	4.45	0	%100
53	MP4A	X	7.707	7.707	0	%100
54	MP4A	Z	4.45	4.45	0	%100
55	MP5A	X	7.707	7.707	0	%100
56	MP5A	Z	4.45	4.45	0	%100
57	MP1C	X	7.707	7.707	0	%100
58	MP1C	Z	4.45	4.45	0	%100
59	MP2C	X	7.707	7.707	0	%100
60	MP2C	Z	4.45	4.45	0	%100
61	MP4C	X	7.707	7.707	0	%100
62	MP4C	Z	4.45	4.45	0	%100
63	MP5C	X	7.707	7.707	0	%100
64	MP5C	Z	4.45	4.45	0	%100
65	MP1B	X	7.707	7.707	0	%100
66	MP1B	Z	4.45	4.45	0	%100
67	MP2B	X	7.707	7.707	0	%100
68	MP2B	Z	4.45	4.45	0	%100
69	MP4B	X	7.707	7.707	0	%100
70	MP4B	Z	4.45	4.45	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	7.707	7.707	0 %100
72	MP5B	Z	4.45	4.45	0 %100
73	MP3A	X	9.33	9.33	0 %100
74	MP3A	Z	5.386	5.386	0 %100
75	MP3C	X	9.33	9.33	0 %100
76	MP3C	Z	5.386	5.386	0 %100
77	MP3B	X	9.33	9.33	0 %100
78	MP3B	Z	5.386	5.386	0 %100
79	M100	X	2.332	2.332	0 %100
80	M100	Z	1.347	1.347	0 %100
81	M101	X	2.332	2.332	0 %100
82	M101	Z	1.347	1.347	0 %100
83	M102	X	9.33	9.33	0 %100
84	M102	Z	5.386	5.386	0 %100
85	M105	X	2.527	2.527	0 %100
86	M105	Z	1.459	1.459	0 %100
87	M108	X	10.109	10.109	0 %100
88	M108	Z	5.837	5.837	0 %100
89	M111	X	2.527	2.527	0 %100
90	M111	Z	1.459	1.459	0 %100
91	M117	X	2.332	2.332	0 %100
92	M117	Z	1.347	1.347	0 %100
93	M118	X	11.465	11.465	0 %100
94	M118	Z	6.619	6.619	0 %100
95	M119	X	6.494	6.494	0 %100
96	M119	Z	3.749	3.749	0 %100
97	M125	X	2.332	2.332	0 %100
98	M125	Z	1.347	1.347	0 %100
99	M126	X	6.494	6.494	0 %100
100	M126	Z	3.749	3.749	0 %100
101	M127	X	11.465	11.465	0 %100
102	M127	Z	6.619	6.619	0 %100
103	M133	X	9.33	9.33	0 %100
104	M133	Z	5.386	5.386	0 %100
105	M134	X	11.5	11.5	0 %100
106	M134	Z	6.64	6.64	0 %100
107	M135	X	11.5	11.5	0 %100
108	M135	Z	6.639	6.639	0 %100
109	M134A	X	5.673	5.673	0 %100
110	M134A	Z	3.275	3.275	0 %100
111	M135A	X	3.245	3.245	0 %100
112	M135A	Z	1.874	1.874	0 %100
113	M136	X	3.245	3.245	0 %100
114	M136	Z	1.874	1.874	0 %100
115	M130A	X	5.673	5.673	0 %100
116	M130A	Z	3.275	3.275	0 %100
117	M131A	X	3.245	3.245	0 %100
118	M131A	Z	1.874	1.874	0 %100
119	M132A	X	3.245	3.245	0 %100
120	M132A	Z	1.874	1.874	0 %100
121	M134B	X	22.693	22.693	0 %100
122	M134B	Z	13.102	13.102	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	12.98	12.98	0	%100
124	M135B	Z	7.494	7.494	0	%100
125	M136A	X	12.98	12.98	0	%100
126	M136A	Z	7.494	7.494	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	4.918	4.918	0	%100
2	M1	Z	8.518	8.518	0	%100
3	M2	X	3.747	3.747	0	%100
4	M2	Z	6.49	6.49	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	14.988	14.988	0	%100
8	M4	Z	25.961	25.961	0	%100
9	M5	X	4.918	4.918	0	%100
10	M5	Z	8.518	8.518	0	%100
11	M6	X	3.747	3.747	0	%100
12	M6	Z	6.49	6.49	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M13	X	4.098	4.098	0	%100
16	M13	Z	7.099	7.099	0	%100
17	M14	X	4.098	4.098	0	%100
18	M14	Z	7.099	7.099	0	%100
19	M21	X	5.871	5.871	0	%100
20	M21	Z	10.169	10.169	0	%100
21	M27	X	4.098	4.098	0	%100
22	M27	Z	7.099	7.099	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M35	X	5.871	5.871	0	%100
26	M35	Z	10.169	10.169	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	0	0	0	%100
29	M42	X	4.098	4.098	0	%100
30	M42	Z	7.099	7.099	0	%100
31	M48	X	4.342	4.342	0	%100
32	M48	Z	7.521	7.521	0	%100
33	M49	X	.025	.025	0	%100
34	M49	Z	.044	.044	0	%100
35	M53	X	5.033	5.033	0	%100
36	M53	Z	8.717	8.717	0	%100
37	M54	X	5.033	5.033	0	%100
38	M54	Z	8.717	8.717	0	%100
39	M59	X	.025	.025	0	%100
40	M59	Z	.044	.044	0	%100
41	M60	X	4.342	4.342	0	%100
42	M60	Z	7.521	7.521	0	%100
43	M62	X	1.612	1.612	0	%100
44	M62	Z	2.791	2.791	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	6.446	6.446	0	%100
46	M64	Z	11.165	11.165	0	%100
47	M66	X	1.612	1.612	0	%100
48	M66	Z	2.791	2.791	0	%100
49	MP1A	X	4.45	4.45	0	%100
50	MP1A	Z	7.707	7.707	0	%100
51	MP2A	X	4.45	4.45	0	%100
52	MP2A	Z	7.707	7.707	0	%100
53	MP4A	X	4.45	4.45	0	%100
54	MP4A	Z	7.707	7.707	0	%100
55	MP5A	X	4.45	4.45	0	%100
56	MP5A	Z	7.707	7.707	0	%100
57	MP1C	X	4.45	4.45	0	%100
58	MP1C	Z	7.707	7.707	0	%100
59	MP2C	X	4.45	4.45	0	%100
60	MP2C	Z	7.707	7.707	0	%100
61	MP4C	X	4.45	4.45	0	%100
62	MP4C	Z	7.707	7.707	0	%100
63	MP5C	X	4.45	4.45	0	%100
64	MP5C	Z	7.707	7.707	0	%100
65	MP1B	X	4.45	4.45	0	%100
66	MP1B	Z	7.707	7.707	0	%100
67	MP2B	X	4.45	4.45	0	%100
68	MP2B	Z	7.707	7.707	0	%100
69	MP4B	X	4.45	4.45	0	%100
70	MP4B	Z	7.707	7.707	0	%100
71	MP5B	X	4.45	4.45	0	%100
72	MP5B	Z	7.707	7.707	0	%100
73	MP3A	X	5.386	5.386	0	%100
74	MP3A	Z	9.33	9.33	0	%100
75	MP3C	X	5.386	5.386	0	%100
76	MP3C	Z	9.33	9.33	0	%100
77	MP3B	X	5.386	5.386	0	%100
78	MP3B	Z	9.33	9.33	0	%100
79	M100	X	4.04	4.04	0	%100
80	M100	Z	6.997	6.997	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	4.04	4.04	0	%100
84	M102	Z	6.997	6.997	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	4.377	4.377	0	%100
88	M108	Z	7.582	7.582	0	%100
89	M111	X	4.377	4.377	0	%100
90	M111	Z	7.582	7.582	0	%100
91	M117	X	4.04	4.04	0	%100
92	M117	Z	6.997	6.997	0	%100
93	M118	X	7.59	7.59	0	%100
94	M118	Z	13.146	13.146	0	%100
95	M119	X	4.72	4.72	0	%100
96	M119	Z	8.175	8.175	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
97	M125	X	0	0	0	% 100
98	M125	Z	0	0	0	% 100
99	M126	X	4.7	4.7	0	% 100
100	M126	Z	8.14	8.14	0	% 100
101	M127	X	4.699	4.699	0	% 100
102	M127	Z	8.139	8.139	0	% 100
103	M133	X	4.04	4.04	0	% 100
104	M133	Z	6.997	6.997	0	% 100
105	M134	X	4.719	4.719	0	% 100
106	M134	Z	8.174	8.174	0	% 100
107	M135	X	7.59	7.59	0	% 100
108	M135	Z	13.146	13.146	0	% 100
109	M134A	X	9.826	9.826	0	% 100
110	M134A	Z	17.019	17.019	0	% 100
111	M135A	X	5.621	5.621	0	% 100
112	M135A	Z	9.735	9.735	0	% 100
113	M136	X	5.621	5.621	0	% 100
114	M136	Z	9.735	9.735	0	% 100
115	M130A	X	0	0	0	% 100
116	M130A	Z	0	0	0	% 100
117	M131A	X	0	0	0	% 100
118	M131A	Z	0	0	0	% 100
119	M132A	X	0	0	0	% 100
120	M132A	Z	0	0	0	% 100
121	M134B	X	9.826	9.826	0	% 100
122	M134B	Z	17.019	17.019	0	% 100
123	M135B	X	5.621	5.621	0	% 100
124	M135B	Z	9.735	9.735	0	% 100
125	M136A	X	5.621	5.621	0	% 100
126	M136A	Z	9.735	9.735	0	% 100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
1	M1	X	0	0	0	% 100
2	M1	Z	13.115	13.115	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	3.279	3.279	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	22.483	22.483	0	% 100
9	M5	X	0	0	0	% 100
10	M5	Z	3.279	3.279	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	22.483	22.483	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	3.914	3.914	0	% 100
15	M13	X	0	0	0	% 100
16	M13	Z	2.732	2.732	0	% 100
17	M14	X	0	0	0	% 100
18	M14	Z	10.929	10.929	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	0	0	0	%100
20	M21	Z	3.914	3.914	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	10.929	10.929	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	2.732	2.732	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	15.656	15.656	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	2.732	2.732	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	2.732	2.732	0	%100
31	M48	X	0	0	0	%100
32	M48	Z	2.469	2.469	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	2.469	2.469	0	%100
35	M53	X	0	0	0	%100
36	M53	Z	12.483	12.483	0	%100
37	M54	X	0	0	0	%100
38	M54	Z	3.849	3.849	0	%100
39	M59	X	0	0	0	%100
40	M59	Z	3.849	3.849	0	%100
41	M60	X	0	0	0	%100
42	M60	Z	12.483	12.483	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	0	0	0	%100
45	M64	X	0	0	0	%100
46	M64	Z	9.669	9.669	0	%100
47	M66	X	0	0	0	%100
48	M66	Z	9.669	9.669	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	8.899	8.899	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	8.899	8.899	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	8.899	8.899	0	%100
55	MP5A	X	0	0	0	%100
56	MP5A	Z	8.899	8.899	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	8.899	8.899	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	8.899	8.899	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	8.899	8.899	0	%100
63	MP5C	X	0	0	0	%100
64	MP5C	Z	8.899	8.899	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	8.899	8.899	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	8.899	8.899	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	8.899	8.899	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
71	MP5B	X	0	0	0	%100
72	MP5B	Z	8.899	8.899	0	%100
73	MP3A	X	0	0	0	%100
74	MP3A	Z	10.773	10.773	0	%100
75	MP3C	X	0	0	0	%100
76	MP3C	Z	10.773	10.773	0	%100
77	MP3B	X	0	0	0	%100
78	MP3B	Z	10.773	10.773	0	%100
79	M100	X	0	0	0	%100
80	M100	Z	10.773	10.773	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	2.693	2.693	0	%100
83	M102	X	0	0	0	%100
84	M102	Z	2.693	2.693	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	2.918	2.918	0	%100
87	M108	X	0	0	0	%100
88	M108	Z	2.918	2.918	0	%100
89	M111	X	0	0	0	%100
90	M111	Z	11.673	11.673	0	%100
91	M117	X	0	0	0	%100
92	M117	Z	10.773	10.773	0	%100
93	M118	X	0	0	0	%100
94	M118	Z	13.28	13.28	0	%100
95	M119	X	0	0	0	%100
96	M119	Z	13.28	13.28	0	%100
97	M125	X	0	0	0	%100
98	M125	Z	2.693	2.693	0	%100
99	M126	X	0	0	0	%100
100	M126	Z	13.239	13.239	0	%100
101	M127	X	0	0	0	%100
102	M127	Z	7.498	7.498	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	2.693	2.693	0	%100
105	M134	X	0	0	0	%100
106	M134	Z	7.498	7.498	0	%100
107	M135	X	0	0	0	%100
108	M135	Z	13.239	13.239	0	%100
109	M134A	X	0	0	0	%100
110	M134A	Z	26.203	26.203	0	%100
111	M135A	X	0	0	0	%100
112	M135A	Z	14.988	14.988	0	%100
113	M136	X	0	0	0	%100
114	M136	Z	14.988	14.988	0	%100
115	M130A	X	0	0	0	%100
116	M130A	Z	6.551	6.551	0	%100
117	M131A	X	0	0	0	%100
118	M131A	Z	3.747	3.747	0	%100
119	M132A	X	0	0	0	%100
120	M132A	Z	3.747	3.747	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	6.551	6.551	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	0	0	0	%100
124	M135B	Z	3.747	3.747	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	3.747	3.747	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-4.918	-4.918	0	%100
2	M1	Z	8.518	8.518	0	%100
3	M2	X	-3.747	-3.747	0	%100
4	M2	Z	6.49	6.49	0	%100
5	M3	X	-4.918	-4.918	0	%100
6	M3	Z	8.518	8.518	0	%100
7	M4	X	-3.747	-3.747	0	%100
8	M4	Z	6.49	6.49	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-14.988	-14.988	0	%100
12	M6	Z	25.961	25.961	0	%100
13	M7	X	-5.871	-5.871	0	%100
14	M7	Z	10.169	10.169	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14	X	-4.098	-4.098	0	%100
18	M14	Z	7.099	7.099	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M27	X	-4.098	-4.098	0	%100
22	M27	Z	7.099	7.099	0	%100
23	M28	X	-4.098	-4.098	0	%100
24	M28	Z	7.099	7.099	0	%100
25	M35	X	-5.871	-5.871	0	%100
26	M35	Z	10.169	10.169	0	%100
27	M41	X	-4.098	-4.098	0	%100
28	M41	Z	7.099	7.099	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	0	0	0	%100
31	M48	X	-.025	-.025	0	%100
32	M48	Z	.044	.044	0	%100
33	M49	X	-4.342	-4.342	0	%100
34	M49	Z	7.521	7.521	0	%100
35	M53	X	-4.342	-4.342	0	%100
36	M53	Z	7.521	7.521	0	%100
37	M54	X	-.025	-.025	0	%100
38	M54	Z	.044	.044	0	%100
39	M59	X	-5.033	-5.033	0	%100
40	M59	Z	8.717	8.717	0	%100
41	M60	X	-5.033	-5.033	0	%100
42	M60	Z	8.717	8.717	0	%100
43	M62	X	-1.612	-1.612	0	%100
44	M62	Z	2.791	2.791	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M64	X	-1.612	-1.612	0 %100
46	M64	Z	2.791	2.791	0 %100
47	M66	X	-6.446	-6.446	0 %100
48	M66	Z	11.165	11.165	0 %100
49	MP1A	X	-4.45	-4.45	0 %100
50	MP1A	Z	7.707	7.707	0 %100
51	MP2A	X	-4.45	-4.45	0 %100
52	MP2A	Z	7.707	7.707	0 %100
53	MP4A	X	-4.45	-4.45	0 %100
54	MP4A	Z	7.707	7.707	0 %100
55	MP5A	X	-4.45	-4.45	0 %100
56	MP5A	Z	7.707	7.707	0 %100
57	MP1C	X	-4.45	-4.45	0 %100
58	MP1C	Z	7.707	7.707	0 %100
59	MP2C	X	-4.45	-4.45	0 %100
60	MP2C	Z	7.707	7.707	0 %100
61	MP4C	X	-4.45	-4.45	0 %100
62	MP4C	Z	7.707	7.707	0 %100
63	MP5C	X	-4.45	-4.45	0 %100
64	MP5C	Z	7.707	7.707	0 %100
65	MP1B	X	-4.45	-4.45	0 %100
66	MP1B	Z	7.707	7.707	0 %100
67	MP2B	X	-4.45	-4.45	0 %100
68	MP2B	Z	7.707	7.707	0 %100
69	MP4B	X	-4.45	-4.45	0 %100
70	MP4B	Z	7.707	7.707	0 %100
71	MP5B	X	-4.45	-4.45	0 %100
72	MP5B	Z	7.707	7.707	0 %100
73	MP3A	X	-5.386	-5.386	0 %100
74	MP3A	Z	9.33	9.33	0 %100
75	MP3C	X	-5.386	-5.386	0 %100
76	MP3C	Z	9.33	9.33	0 %100
77	MP3B	X	-5.386	-5.386	0 %100
78	MP3B	Z	9.33	9.33	0 %100
79	M100	X	-4.04	-4.04	0 %100
80	M100	Z	6.997	6.997	0 %100
81	M101	X	-4.04	-4.04	0 %100
82	M101	Z	6.997	6.997	0 %100
83	M102	X	0	0	0 %100
84	M102	Z	0	0	0 %100
85	M105	X	-4.377	-4.377	0 %100
86	M105	Z	7.582	7.582	0 %100
87	M108	X	0	0	0 %100
88	M108	Z	0	0	0 %100
89	M111	X	-4.377	-4.377	0 %100
90	M111	Z	7.582	7.582	0 %100
91	M117	X	-4.04	-4.04	0 %100
92	M117	Z	6.997	6.997	0 %100
93	M118	X	-4.72	-4.72	0 %100
94	M118	Z	8.175	8.175	0 %100
95	M119	X	-7.59	-7.59	0 %100
96	M119	Z	13.146	13.146	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	M125	X	-4.04	-4.04	0	%100
98	M125	Z	6.997	6.997	0	%100
99	M126	X	-7.59	-7.59	0	%100
100	M126	Z	13.146	13.146	0	%100
101	M127	X	-4.719	-4.719	0	%100
102	M127	Z	8.174	8.174	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	-4.699	-4.699	0	%100
106	M134	Z	8.139	8.139	0	%100
107	M135	X	-4.7	-4.7	0	%100
108	M135	Z	8.14	8.14	0	%100
109	M134A	X	-9.826	-9.826	0	%100
110	M134A	Z	17.019	17.019	0	%100
111	M135A	X	-5.621	-5.621	0	%100
112	M135A	Z	9.735	9.735	0	%100
113	M136	X	-5.621	-5.621	0	%100
114	M136	Z	9.735	9.735	0	%100
115	M130A	X	-9.826	-9.826	0	%100
116	M130A	Z	17.019	17.019	0	%100
117	M131A	X	-5.621	-5.621	0	%100
118	M131A	Z	9.735	9.735	0	%100
119	M132A	X	-5.621	-5.621	0	%100
120	M132A	Z	9.735	9.735	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	0	0	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-2.839	-2.839	0	%100
2	M1	Z	1.639	1.639	0	%100
3	M2	X	-19.471	-19.471	0	%100
4	M2	Z	11.241	11.241	0	%100
5	M3	X	-11.358	-11.358	0	%100
6	M3	Z	6.557	6.557	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-2.839	-2.839	0	%100
10	M5	Z	1.639	1.639	0	%100
11	M6	X	-19.471	-19.471	0	%100
12	M6	Z	11.241	11.241	0	%100
13	M7	X	-13.558	-13.558	0	%100
14	M7	Z	7.828	7.828	0	%100
15	M13	X	-2.366	-2.366	0	%100
16	M13	Z	1.366	1.366	0	%100
17	M14	X	-2.366	-2.366	0	%100
18	M14	Z	1.366	1.366	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	-3.39	-3.39	0	%100
20	M21	Z	1.957	1.957	0	%100
21	M27	X	-2.366	-2.366	0	%100
22	M27	Z	1.366	1.366	0	%100
23	M28	X	-9.465	-9.465	0	%100
24	M28	Z	5.465	5.465	0	%100
25	M35	X	-3.39	-3.39	0	%100
26	M35	Z	1.957	1.957	0	%100
27	M41	X	-9.465	-9.465	0	%100
28	M41	Z	5.465	5.465	0	%100
29	M42	X	-2.366	-2.366	0	%100
30	M42	Z	1.366	1.366	0	%100
31	M48	X	-3.333	-3.333	0	%100
32	M48	Z	1.925	1.925	0	%100
33	M49	X	-10.811	-10.811	0	%100
34	M49	Z	6.242	6.242	0	%100
35	M53	X	-2.138	-2.138	0	%100
36	M53	Z	1.234	1.234	0	%100
37	M54	X	-2.138	-2.138	0	%100
38	M54	Z	1.234	1.234	0	%100
39	M59	X	-10.811	-10.811	0	%100
40	M59	Z	6.242	6.242	0	%100
41	M60	X	-3.334	-3.334	0	%100
42	M60	Z	1.925	1.925	0	%100
43	M62	X	-8.374	-8.374	0	%100
44	M62	Z	4.835	4.835	0	%100
45	M64	X	0	0	0	%100
46	M64	Z	0	0	0	%100
47	M66	X	-8.374	-8.374	0	%100
48	M66	Z	4.835	4.835	0	%100
49	MP1A	X	-7.707	-7.707	0	%100
50	MP1A	Z	4.45	4.45	0	%100
51	MP2A	X	-7.707	-7.707	0	%100
52	MP2A	Z	4.45	4.45	0	%100
53	MP4A	X	-7.707	-7.707	0	%100
54	MP4A	Z	4.45	4.45	0	%100
55	MP5A	X	-7.707	-7.707	0	%100
56	MP5A	Z	4.45	4.45	0	%100
57	MP1C	X	-7.707	-7.707	0	%100
58	MP1C	Z	4.45	4.45	0	%100
59	MP2C	X	-7.707	-7.707	0	%100
60	MP2C	Z	4.45	4.45	0	%100
61	MP4C	X	-7.707	-7.707	0	%100
62	MP4C	Z	4.45	4.45	0	%100
63	MP5C	X	-7.707	-7.707	0	%100
64	MP5C	Z	4.45	4.45	0	%100
65	MP1B	X	-7.707	-7.707	0	%100
66	MP1B	Z	4.45	4.45	0	%100
67	MP2B	X	-7.707	-7.707	0	%100
68	MP2B	Z	4.45	4.45	0	%100
69	MP4B	X	-7.707	-7.707	0	%100
70	MP4B	Z	4.45	4.45	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	MP5B	X	-7.707	-7.707	0 %100
72	MP5B	Z	4.45	4.45	0 %100
73	MP3A	X	-9.33	-9.33	0 %100
74	MP3A	Z	5.386	5.386	0 %100
75	MP3C	X	-9.33	-9.33	0 %100
76	MP3C	Z	5.386	5.386	0 %100
77	MP3B	X	-9.33	-9.33	0 %100
78	MP3B	Z	5.386	5.386	0 %100
79	M100	X	-2.332	-2.332	0 %100
80	M100	Z	1.347	1.347	0 %100
81	M101	X	-9.33	-9.33	0 %100
82	M101	Z	5.386	5.386	0 %100
83	M102	X	-2.332	-2.332	0 %100
84	M102	Z	1.347	1.347	0 %100
85	M105	X	-10.109	-10.109	0 %100
86	M105	Z	5.837	5.837	0 %100
87	M108	X	-2.527	-2.527	0 %100
88	M108	Z	1.459	1.459	0 %100
89	M111	X	-2.527	-2.527	0 %100
90	M111	Z	1.459	1.459	0 %100
91	M117	X	-2.332	-2.332	0 %100
92	M117	Z	1.347	1.347	0 %100
93	M118	X	-6.494	-6.494	0 %100
94	M118	Z	3.749	3.749	0 %100
95	M119	X	-11.465	-11.465	0 %100
96	M119	Z	6.619	6.619	0 %100
97	M125	X	-9.33	-9.33	0 %100
98	M125	Z	5.386	5.386	0 %100
99	M126	X	-11.5	-11.5	0 %100
100	M126	Z	6.639	6.639	0 %100
101	M127	X	-11.5	-11.5	0 %100
102	M127	Z	6.64	6.64	0 %100
103	M133	X	-2.332	-2.332	0 %100
104	M133	Z	1.347	1.347	0 %100
105	M134	X	-11.465	-11.465	0 %100
106	M134	Z	6.619	6.619	0 %100
107	M135	X	-6.494	-6.494	0 %100
108	M135	Z	3.749	3.749	0 %100
109	M134A	X	-5.673	-5.673	0 %100
110	M134A	Z	3.275	3.275	0 %100
111	M135A	X	-3.245	-3.245	0 %100
112	M135A	Z	1.874	1.874	0 %100
113	M136	X	-3.245	-3.245	0 %100
114	M136	Z	1.874	1.874	0 %100
115	M130A	X	-22.693	-22.693	0 %100
116	M130A	Z	13.102	13.102	0 %100
117	M131A	X	-12.98	-12.98	0 %100
118	M131A	Z	7.494	7.494	0 %100
119	M132A	X	-12.98	-12.98	0 %100
120	M132A	Z	7.494	7.494	0 %100
121	M134B	X	-5.673	-5.673	0 %100
122	M134B	Z	3.275	3.275	0 %100





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M64	X	-3.223	-3.223	0	%100
46	M64	Z	0	0	0	%100
47	M66	X	-3.223	-3.223	0	%100
48	M66	Z	0	0	0	%100
49	MP1A	X	-8.899	-8.899	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	-8.899	-8.899	0	%100
52	MP2A	Z	0	0	0	%100
53	MP4A	X	-8.899	-8.899	0	%100
54	MP4A	Z	0	0	0	%100
55	MP5A	X	-8.899	-8.899	0	%100
56	MP5A	Z	0	0	0	%100
57	MP1C	X	-8.899	-8.899	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	-8.899	-8.899	0	%100
60	MP2C	Z	0	0	0	%100
61	MP4C	X	-8.899	-8.899	0	%100
62	MP4C	Z	0	0	0	%100
63	MP5C	X	-8.899	-8.899	0	%100
64	MP5C	Z	0	0	0	%100
65	MP1B	X	-8.899	-8.899	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	-8.899	-8.899	0	%100
68	MP2B	Z	0	0	0	%100
69	MP4B	X	-8.899	-8.899	0	%100
70	MP4B	Z	0	0	0	%100
71	MP5B	X	-8.899	-8.899	0	%100
72	MP5B	Z	0	0	0	%100
73	MP3A	X	-10.773	-10.773	0	%100
74	MP3A	Z	0	0	0	%100
75	MP3C	X	-10.773	-10.773	0	%100
76	MP3C	Z	0	0	0	%100
77	MP3B	X	-10.773	-10.773	0	%100
78	MP3B	Z	0	0	0	%100
79	M100	X	0	0	0	%100
80	M100	Z	0	0	0	%100
81	M101	X	-8.08	-8.08	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	-8.08	-8.08	0	%100
84	M102	Z	0	0	0	%100
85	M105	X	-8.755	-8.755	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	-8.755	-8.755	0	%100
88	M108	Z	0	0	0	%100
89	M111	X	0	0	0	%100
90	M111	Z	0	0	0	%100
91	M117	X	0	0	0	%100
92	M117	Z	0	0	0	%100
93	M118	X	-9.398	-9.398	0	%100
94	M118	Z	0	0	0	%100
95	M119	X	-9.398	-9.398	0	%100
96	M119	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	-8.08	-8.08	0 %100
98	M125	Z	0	0	0 %100
99	M126	X	-9.438	-9.438	0 %100
100	M126	Z	0	0	0 %100
101	M127	X	-15.18	-15.18	0 %100
102	M127	Z	0	0	0 %100
103	M133	X	-8.08	-8.08	0 %100
104	M133	Z	0	0	0 %100
105	M134	X	-15.18	-15.18	0 %100
106	M134	Z	0	0	0 %100
107	M135	X	-9.438	-9.438	0 %100
108	M135	Z	0	0	0 %100
109	M134A	X	0	0	0 %100
110	M134A	Z	0	0	0 %100
111	M135A	X	0	0	0 %100
112	M135A	Z	0	0	0 %100
113	M136	X	0	0	0 %100
114	M136	Z	0	0	0 %100
115	M130A	X	-19.652	-19.652	0 %100
116	M130A	Z	0	0	0 %100
117	M131A	X	-11.241	-11.241	0 %100
118	M131A	Z	0	0	0 %100
119	M132A	X	-11.241	-11.241	0 %100
120	M132A	Z	0	0	0 %100
121	M134B	X	-19.652	-19.652	0 %100
122	M134B	Z	0	0	0 %100
123	M135B	X	-11.241	-11.241	0 %100
124	M135B	Z	0	0	0 %100
125	M136A	X	-11.241	-11.241	0 %100
126	M136A	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.839	-2.839	0 %100
2	M1	Z	-1.639	-1.639	0 %100
3	M2	X	-19.471	-19.471	0 %100
4	M2	Z	-11.241	-11.241	0 %100
5	M3	X	-2.839	-2.839	0 %100
6	M3	Z	-1.639	-1.639	0 %100
7	M4	X	-19.471	-19.471	0 %100
8	M4	Z	-11.241	-11.241	0 %100
9	M5	X	-11.358	-11.358	0 %100
10	M5	Z	-6.557	-6.557	0 %100
11	M6	X	0	0	0 %100
12	M6	Z	0	0	0 %100
13	M7	X	-3.39	-3.39	0 %100
14	M7	Z	-1.957	-1.957	0 %100
15	M13	X	-9.465	-9.465	0 %100
16	M13	Z	-5.465	-5.465	0 %100
17	M14	X	-2.366	-2.366	0 %100
18	M14	Z	-1.366	-1.366	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
19	M21	X	-13.558	-13.558	0	% 100
20	M21	Z	-7.828	-7.828	0	% 100
21	M27	X	-2.366	-2.366	0	% 100
22	M27	Z	-1.366	-1.366	0	% 100
23	M28	X	-2.366	-2.366	0	% 100
24	M28	Z	-1.366	-1.366	0	% 100
25	M35	X	-3.39	-3.39	0	% 100
26	M35	Z	-1.957	-1.957	0	% 100
27	M41	X	-2.366	-2.366	0	% 100
28	M41	Z	-1.366	-1.366	0	% 100
29	M42	X	-9.465	-9.465	0	% 100
30	M42	Z	-5.465	-5.465	0	% 100
31	M48	X	-10.811	-10.811	0	% 100
32	M48	Z	-6.242	-6.242	0	% 100
33	M49	X	-3.334	-3.334	0	% 100
34	M49	Z	-1.925	-1.925	0	% 100
35	M53	X	-3.333	-3.333	0	% 100
36	M53	Z	-1.925	-1.925	0	% 100
37	M54	X	-10.811	-10.811	0	% 100
38	M54	Z	-6.242	-6.242	0	% 100
39	M59	X	-2.138	-2.138	0	% 100
40	M59	Z	-1.234	-1.234	0	% 100
41	M60	X	-2.138	-2.138	0	% 100
42	M60	Z	-1.234	-1.234	0	% 100
43	M62	X	-8.374	-8.374	0	% 100
44	M62	Z	-4.835	-4.835	0	% 100
45	M64	X	-8.374	-8.374	0	% 100
46	M64	Z	-4.835	-4.835	0	% 100
47	M66	X	0	0	0	% 100
48	M66	Z	0	0	0	% 100
49	MP1A	X	-7.707	-7.707	0	% 100
50	MP1A	Z	-4.45	-4.45	0	% 100
51	MP2A	X	-7.707	-7.707	0	% 100
52	MP2A	Z	-4.45	-4.45	0	% 100
53	MP4A	X	-7.707	-7.707	0	% 100
54	MP4A	Z	-4.45	-4.45	0	% 100
55	MP5A	X	-7.707	-7.707	0	% 100
56	MP5A	Z	-4.45	-4.45	0	% 100
57	MP1C	X	-7.707	-7.707	0	% 100
58	MP1C	Z	-4.45	-4.45	0	% 100
59	MP2C	X	-7.707	-7.707	0	% 100
60	MP2C	Z	-4.45	-4.45	0	% 100
61	MP4C	X	-7.707	-7.707	0	% 100
62	MP4C	Z	-4.45	-4.45	0	% 100
63	MP5C	X	-7.707	-7.707	0	% 100
64	MP5C	Z	-4.45	-4.45	0	% 100
65	MP1B	X	-7.707	-7.707	0	% 100
66	MP1B	Z	-4.45	-4.45	0	% 100
67	MP2B	X	-7.707	-7.707	0	% 100
68	MP2B	Z	-4.45	-4.45	0	% 100
69	MP4B	X	-7.707	-7.707	0	% 100
70	MP4B	Z	-4.45	-4.45	0	% 100







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 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	-12.98	-12.98	0	%100
124	M135B	Z	-7.494	-7.494	0	%100
125	M136A	X	-12.98	-12.98	0	%100
126	M136A	Z	-7.494	-7.494	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-4.918	-4.918	0	%100
2	M1	Z	-8.518	-8.518	0	%100
3	M2	X	-3.747	-3.747	0	%100
4	M2	Z	-6.49	-6.49	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-14.988	-14.988	0	%100
8	M4	Z	-25.961	-25.961	0	%100
9	M5	X	-4.918	-4.918	0	%100
10	M5	Z	-8.518	-8.518	0	%100
11	M6	X	-3.747	-3.747	0	%100
12	M6	Z	-6.49	-6.49	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M13	X	-4.098	-4.098	0	%100
16	M13	Z	-7.099	-7.099	0	%100
17	M14	X	-4.098	-4.098	0	%100
18	M14	Z	-7.099	-7.099	0	%100
19	M21	X	-5.871	-5.871	0	%100
20	M21	Z	-10.169	-10.169	0	%100
21	M27	X	-4.098	-4.098	0	%100
22	M27	Z	-7.099	-7.099	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M35	X	-5.871	-5.871	0	%100
26	M35	Z	-10.169	-10.169	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	0	0	0	%100
29	M42	X	-4.098	-4.098	0	%100
30	M42	Z	-7.099	-7.099	0	%100
31	M48	X	-4.342	-4.342	0	%100
32	M48	Z	-7.521	-7.521	0	%100
33	M49	X	-.025	-.025	0	%100
34	M49	Z	-.044	-.044	0	%100
35	M53	X	-5.033	-5.033	0	%100
36	M53	Z	-8.717	-8.717	0	%100
37	M54	X	-5.033	-5.033	0	%100
38	M54	Z	-8.717	-8.717	0	%100
39	M59	X	-.025	-.025	0	%100
40	M59	Z	-.044	-.044	0	%100
41	M60	X	-4.342	-4.342	0	%100
42	M60	Z	-7.521	-7.521	0	%100
43	M62	X	-1.612	-1.612	0	%100
44	M62	Z	-2.791	-2.791	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	-6.446	-6.446	0	%100
46	M64	Z	-11.165	-11.165	0	%100
47	M66	X	-1.612	-1.612	0	%100
48	M66	Z	-2.791	-2.791	0	%100
49	MP1A	X	-4.45	-4.45	0	%100
50	MP1A	Z	-7.707	-7.707	0	%100
51	MP2A	X	-4.45	-4.45	0	%100
52	MP2A	Z	-7.707	-7.707	0	%100
53	MP4A	X	-4.45	-4.45	0	%100
54	MP4A	Z	-7.707	-7.707	0	%100
55	MP5A	X	-4.45	-4.45	0	%100
56	MP5A	Z	-7.707	-7.707	0	%100
57	MP1C	X	-4.45	-4.45	0	%100
58	MP1C	Z	-7.707	-7.707	0	%100
59	MP2C	X	-4.45	-4.45	0	%100
60	MP2C	Z	-7.707	-7.707	0	%100
61	MP4C	X	-4.45	-4.45	0	%100
62	MP4C	Z	-7.707	-7.707	0	%100
63	MP5C	X	-4.45	-4.45	0	%100
64	MP5C	Z	-7.707	-7.707	0	%100
65	MP1B	X	-4.45	-4.45	0	%100
66	MP1B	Z	-7.707	-7.707	0	%100
67	MP2B	X	-4.45	-4.45	0	%100
68	MP2B	Z	-7.707	-7.707	0	%100
69	MP4B	X	-4.45	-4.45	0	%100
70	MP4B	Z	-7.707	-7.707	0	%100
71	MP5B	X	-4.45	-4.45	0	%100
72	MP5B	Z	-7.707	-7.707	0	%100
73	MP3A	X	-5.386	-5.386	0	%100
74	MP3A	Z	-9.33	-9.33	0	%100
75	MP3C	X	-5.386	-5.386	0	%100
76	MP3C	Z	-9.33	-9.33	0	%100
77	MP3B	X	-5.386	-5.386	0	%100
78	MP3B	Z	-9.33	-9.33	0	%100
79	M100	X	-4.04	-4.04	0	%100
80	M100	Z	-6.997	-6.997	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	-4.04	-4.04	0	%100
84	M102	Z	-6.997	-6.997	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	-4.377	-4.377	0	%100
88	M108	Z	-7.582	-7.582	0	%100
89	M111	X	-4.377	-4.377	0	%100
90	M111	Z	-7.582	-7.582	0	%100
91	M117	X	-4.04	-4.04	0	%100
92	M117	Z	-6.997	-6.997	0	%100
93	M118	X	-7.59	-7.59	0	%100
94	M118	Z	-13.146	-13.146	0	%100
95	M119	X	-4.72	-4.72	0	%100
96	M119	Z	-8.175	-8.175	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	0	0	0	%100
98	M125	Z	0	0	0	%100
99	M126	X	-4.7	-4.7	0	%100
100	M126	Z	-8.14	-8.14	0	%100
101	M127	X	-4.699	-4.699	0	%100
102	M127	Z	-8.139	-8.139	0	%100
103	M133	X	-4.04	-4.04	0	%100
104	M133	Z	-6.997	-6.997	0	%100
105	M134	X	-4.719	-4.719	0	%100
106	M134	Z	-8.174	-8.174	0	%100
107	M135	X	-7.59	-7.59	0	%100
108	M135	Z	-13.146	-13.146	0	%100
109	M134A	X	-9.826	-9.826	0	%100
110	M134A	Z	-17.019	-17.019	0	%100
111	M135A	X	-5.621	-5.621	0	%100
112	M135A	Z	-9.735	-9.735	0	%100
113	M136	X	-5.621	-5.621	0	%100
114	M136	Z	-9.735	-9.735	0	%100
115	M130A	X	0	0	0	%100
116	M130A	Z	0	0	0	%100
117	M131A	X	0	0	0	%100
118	M131A	Z	0	0	0	%100
119	M132A	X	0	0	0	%100
120	M132A	Z	0	0	0	%100
121	M134B	X	-9.826	-9.826	0	%100
122	M134B	Z	-17.019	-17.019	0	%100
123	M135B	X	-5.621	-5.621	0	%100
124	M135B	Z	-9.735	-9.735	0	%100
125	M136A	X	-5.621	-5.621	0	%100
126	M136A	Z	-9.735	-9.735	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-3.853	-3.853	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	-.963	-.963	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	-4.706	-4.706	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	-.963	-.963	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	-4.706	-4.706	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	-.95	-.95	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	-.801	-.801	0	%100
17	M14	X	0	0	0	%100
18	M14	Z	-3.203	-3.203	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	0	0	%100
72	MP5B	Z	-3.097	-3.097	%100
73	MP3A	X	0	0	%100
74	MP3A	Z	-3.433	-3.433	%100
75	MP3C	X	0	0	%100
76	MP3C	Z	-3.433	-3.433	%100
77	MP3B	X	0	0	%100
78	MP3B	Z	-3.433	-3.433	%100
79	M100	X	0	0	%100
80	M100	Z	-3.433	-3.433	%100
81	M101	X	0	0	%100
82	M101	Z	-.858	-.858	%100
83	M102	X	0	0	%100
84	M102	Z	-.858	-.858	%100
85	M105	X	0	0	%100
86	M105	Z	-.758	-.758	%100
87	M108	X	0	0	%100
88	M108	Z	-.758	-.758	%100
89	M111	X	0	0	%100
90	M111	Z	-3.033	-3.033	%100
91	M117	X	0	0	%100
92	M117	Z	-3.433	-3.433	%100
93	M118	X	0	0	%100
94	M118	Z	-3.696	-3.696	%100
95	M119	X	0	0	%100
96	M119	Z	-3.696	-3.696	%100
97	M125	X	0	0	%100
98	M125	Z	-.858	-.858	%100
99	M126	X	0	0	%100
100	M126	Z	-3.684	-3.684	%100
101	M127	X	0	0	%100
102	M127	Z	-2.086	-2.086	%100
103	M133	X	0	0	%100
104	M133	Z	-.858	-.858	%100
105	M134	X	0	0	%100
106	M134	Z	-2.086	-2.086	%100
107	M135	X	0	0	%100
108	M135	Z	-3.684	-3.684	%100
109	M134A	X	0	0	%100
110	M134A	Z	-6.03	-6.03	%100
111	M135A	X	0	0	%100
112	M135A	Z	-3.565	-3.565	%100
113	M136	X	0	0	%100
114	M136	Z	-3.565	-3.565	%100
115	M130A	X	0	0	%100
116	M130A	Z	-1.508	-1.508	%100
117	M131A	X	0	0	%100
118	M131A	Z	-.891	-.891	%100
119	M132A	X	0	0	%100
120	M132A	Z	-.891	-.891	%100
121	M134B	X	0	0	%100
122	M134B	Z	-1.508	-1.508	%100



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 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	0	0	0	%100
124	M135B	Z	-.891	-.891	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	-.891	-.891	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.445	1.445	0	%100
2	M1	Z	-2.503	-2.503	0	%100
3	M2	X	.784	.784	0	%100
4	M2	Z	-1.358	-1.358	0	%100
5	M3	X	1.445	1.445	0	%100
6	M3	Z	-2.503	-2.503	0	%100
7	M4	X	.784	.784	0	%100
8	M4	Z	-1.358	-1.358	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	3.137	3.137	0	%100
12	M6	Z	-5.434	-5.434	0	%100
13	M7	X	1.425	1.425	0	%100
14	M7	Z	-2.468	-2.468	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14	X	1.201	1.201	0	%100
18	M14	Z	-2.081	-2.081	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M27	X	1.201	1.201	0	%100
22	M27	Z	-2.081	-2.081	0	%100
23	M28	X	1.201	1.201	0	%100
24	M28	Z	-2.081	-2.081	0	%100
25	M35	X	1.425	1.425	0	%100
26	M35	Z	-2.468	-2.468	0	%100
27	M41	X	1.201	1.201	0	%100
28	M41	Z	-2.081	-2.081	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	0	0	0	%100
31	M48	X	.007	.007	0	%100
32	M48	Z	-.012	-.012	0	%100
33	M49	X	1.179	1.179	0	%100
34	M49	Z	-2.043	-2.043	0	%100
35	M53	X	1.179	1.179	0	%100
36	M53	Z	-2.043	-2.043	0	%100
37	M54	X	.007	.007	0	%100
38	M54	Z	-.012	-.012	0	%100
39	M59	X	1.367	1.367	0	%100
40	M59	Z	-2.368	-2.368	0	%100
41	M60	X	1.367	1.367	0	%100
42	M60	Z	-2.368	-2.368	0	%100
43	M62	X	.449	.449	0	%100
44	M62	Z	-.778	-.778	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M64	X	.449	.449	0	%100
46	M64	Z	-.778	-.778	0	%100
47	M66	X	1.797	1.797	0	%100
48	M66	Z	-3.112	-3.112	0	%100
49	MP1A	X	1.548	1.548	0	%100
50	MP1A	Z	-2.682	-2.682	0	%100
51	MP2A	X	1.548	1.548	0	%100
52	MP2A	Z	-2.682	-2.682	0	%100
53	MP4A	X	1.548	1.548	0	%100
54	MP4A	Z	-2.682	-2.682	0	%100
55	MP5A	X	1.548	1.548	0	%100
56	MP5A	Z	-2.682	-2.682	0	%100
57	MP1C	X	1.548	1.548	0	%100
58	MP1C	Z	-2.682	-2.682	0	%100
59	MP2C	X	1.548	1.548	0	%100
60	MP2C	Z	-2.682	-2.682	0	%100
61	MP4C	X	1.548	1.548	0	%100
62	MP4C	Z	-2.682	-2.682	0	%100
63	MP5C	X	1.548	1.548	0	%100
64	MP5C	Z	-2.682	-2.682	0	%100
65	MP1B	X	1.548	1.548	0	%100
66	MP1B	Z	-2.682	-2.682	0	%100
67	MP2B	X	1.548	1.548	0	%100
68	MP2B	Z	-2.682	-2.682	0	%100
69	MP4B	X	1.548	1.548	0	%100
70	MP4B	Z	-2.682	-2.682	0	%100
71	MP5B	X	1.548	1.548	0	%100
72	MP5B	Z	-2.682	-2.682	0	%100
73	MP3A	X	1.716	1.716	0	%100
74	MP3A	Z	-2.973	-2.973	0	%100
75	MP3C	X	1.716	1.716	0	%100
76	MP3C	Z	-2.973	-2.973	0	%100
77	MP3B	X	1.716	1.716	0	%100
78	MP3B	Z	-2.973	-2.973	0	%100
79	M100	X	1.287	1.287	0	%100
80	M100	Z	-2.23	-2.23	0	%100
81	M101	X	1.287	1.287	0	%100
82	M101	Z	-2.23	-2.23	0	%100
83	M102	X	0	0	0	%100
84	M102	Z	0	0	0	%100
85	M105	X	1.137	1.137	0	%100
86	M105	Z	-1.97	-1.97	0	%100
87	M108	X	0	0	0	%100
88	M108	Z	0	0	0	%100
89	M111	X	1.137	1.137	0	%100
90	M111	Z	-1.97	-1.97	0	%100
91	M117	X	1.287	1.287	0	%100
92	M117	Z	-2.23	-2.23	0	%100
93	M118	X	1.313	1.313	0	%100
94	M118	Z	-2.275	-2.275	0	%100
95	M119	X	2.112	2.112	0	%100
96	M119	Z	-3.658	-3.658	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	1.287	1.287	0	%100
98	M125	Z	-2.23	-2.23	0	%100
99	M126	X	2.112	2.112	0	%100
100	M126	Z	-3.658	-3.658	0	%100
101	M127	X	1.313	1.313	0	%100
102	M127	Z	-2.275	-2.275	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	1.308	1.308	0	%100
106	M134	Z	-2.265	-2.265	0	%100
107	M135	X	1.308	1.308	0	%100
108	M135	Z	-2.265	-2.265	0	%100
109	M134A	X	2.261	2.261	0	%100
110	M134A	Z	-3.917	-3.917	0	%100
111	M135A	X	1.337	1.337	0	%100
112	M135A	Z	-2.316	-2.316	0	%100
113	M136	X	1.337	1.337	0	%100
114	M136	Z	-2.316	-2.316	0	%100
115	M130A	X	2.261	2.261	0	%100
116	M130A	Z	-3.917	-3.917	0	%100
117	M131A	X	1.337	1.337	0	%100
118	M131A	Z	-2.316	-2.316	0	%100
119	M132A	X	1.337	1.337	0	%100
120	M132A	Z	-2.316	-2.316	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	0	0	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.834	.834	0	%100
2	M1	Z	-.482	-.482	0	%100
3	M2	X	4.075	4.075	0	%100
4	M2	Z	-2.353	-2.353	0	%100
5	M3	X	3.337	3.337	0	%100
6	M3	Z	-1.927	-1.927	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.834	.834	0	%100
10	M5	Z	-.482	-.482	0	%100
11	M6	X	4.075	4.075	0	%100
12	M6	Z	-2.353	-2.353	0	%100
13	M7	X	3.291	3.291	0	%100
14	M7	Z	-1.9	-1.9	0	%100
15	M13	X	.694	.694	0	%100
16	M13	Z	-.4	-.4	0	%100
17	M14	X	.694	.694	0	%100
18	M14	Z	-.4	-.4	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	.823	.823	0 %100
20	M21	Z	-.475	-.475	0 %100
21	M27	X	.694	.694	0 %100
22	M27	Z	-.4	-.4	0 %100
23	M28	X	2.774	2.774	0 %100
24	M28	Z	-1.602	-1.602	0 %100
25	M35	X	.823	.823	0 %100
26	M35	Z	-.475	-.475	0 %100
27	M41	X	2.774	2.774	0 %100
28	M41	Z	-1.602	-1.602	0 %100
29	M42	X	.694	.694	0 %100
30	M42	Z	-.4	-.4	0 %100
31	M48	X	.905	.905	0 %100
32	M48	Z	-.523	-.523	0 %100
33	M49	X	2.936	2.936	0 %100
34	M49	Z	-1.695	-1.695	0 %100
35	M53	X	.581	.581	0 %100
36	M53	Z	-.335	-.335	0 %100
37	M54	X	.581	.581	0 %100
38	M54	Z	-.335	-.335	0 %100
39	M59	X	2.936	2.936	0 %100
40	M59	Z	-1.695	-1.695	0 %100
41	M60	X	.905	.905	0 %100
42	M60	Z	-.523	-.523	0 %100
43	M62	X	2.334	2.334	0 %100
44	M62	Z	-1.347	-1.347	0 %100
45	M64	X	0	0	0 %100
46	M64	Z	0	0	0 %100
47	M66	X	2.334	2.334	0 %100
48	M66	Z	-1.347	-1.347	0 %100
49	MP1A	X	2.682	2.682	0 %100
50	MP1A	Z	-1.548	-1.548	0 %100
51	MP2A	X	2.682	2.682	0 %100
52	MP2A	Z	-1.548	-1.548	0 %100
53	MP4A	X	2.682	2.682	0 %100
54	MP4A	Z	-1.548	-1.548	0 %100
55	MP5A	X	2.682	2.682	0 %100
56	MP5A	Z	-1.548	-1.548	0 %100
57	MP1C	X	2.682	2.682	0 %100
58	MP1C	Z	-1.548	-1.548	0 %100
59	MP2C	X	2.682	2.682	0 %100
60	MP2C	Z	-1.548	-1.548	0 %100
61	MP4C	X	2.682	2.682	0 %100
62	MP4C	Z	-1.548	-1.548	0 %100
63	MP5C	X	2.682	2.682	0 %100
64	MP5C	Z	-1.548	-1.548	0 %100
65	MP1B	X	2.682	2.682	0 %100
66	MP1B	Z	-1.548	-1.548	0 %100
67	MP2B	X	2.682	2.682	0 %100
68	MP2B	Z	-1.548	-1.548	0 %100
69	MP4B	X	2.682	2.682	0 %100
70	MP4B	Z	-1.548	-1.548	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	2.682	2.682	0 %100
72	MP5B	Z	-1.548	-1.548	0 %100
73	MP3A	X	2.973	2.973	0 %100
74	MP3A	Z	-1.716	-1.716	0 %100
75	MP3C	X	2.973	2.973	0 %100
76	MP3C	Z	-1.716	-1.716	0 %100
77	MP3B	X	2.973	2.973	0 %100
78	MP3B	Z	-1.716	-1.716	0 %100
79	M100	X	.743	.743	0 %100
80	M100	Z	-.429	-.429	0 %100
81	M101	X	2.973	2.973	0 %100
82	M101	Z	-1.716	-1.716	0 %100
83	M102	X	.743	.743	0 %100
84	M102	Z	-.429	-.429	0 %100
85	M105	X	2.627	2.627	0 %100
86	M105	Z	-1.516	-1.516	0 %100
87	M108	X	.657	.657	0 %100
88	M108	Z	-.379	-.379	0 %100
89	M111	X	.657	.657	0 %100
90	M111	Z	-.379	-.379	0 %100
91	M117	X	.743	.743	0 %100
92	M117	Z	-.429	-.429	0 %100
93	M118	X	1.807	1.807	0 %100
94	M118	Z	-1.043	-1.043	0 %100
95	M119	X	3.19	3.19	0 %100
96	M119	Z	-1.842	-1.842	0 %100
97	M125	X	2.973	2.973	0 %100
98	M125	Z	-1.716	-1.716	0 %100
99	M126	X	3.2	3.2	0 %100
100	M126	Z	-1.848	-1.848	0 %100
101	M127	X	3.2	3.2	0 %100
102	M127	Z	-1.848	-1.848	0 %100
103	M133	X	.743	.743	0 %100
104	M133	Z	-.429	-.429	0 %100
105	M134	X	3.191	3.191	0 %100
106	M134	Z	-1.842	-1.842	0 %100
107	M135	X	1.807	1.807	0 %100
108	M135	Z	-1.043	-1.043	0 %100
109	M134A	X	1.306	1.306	0 %100
110	M134A	Z	-.754	-.754	0 %100
111	M135A	X	.772	.772	0 %100
112	M135A	Z	-.446	-.446	0 %100
113	M136	X	.772	.772	0 %100
114	M136	Z	-.446	-.446	0 %100
115	M130A	X	5.222	5.222	0 %100
116	M130A	Z	-3.015	-3.015	0 %100
117	M131A	X	3.088	3.088	0 %100
118	M131A	Z	-1.783	-1.783	0 %100
119	M132A	X	3.088	3.088	0 %100
120	M132A	Z	-1.783	-1.783	0 %100
121	M134B	X	1.306	1.306	0 %100
122	M134B	Z	-.754	-.754	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
123	M135B	X	.772	.772	0	% 100
124	M135B	Z	-.446	-.446	0	% 100
125	M136A	X	.772	.772	0	% 100
126	M136A	Z	-.446	-.446	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	6.274	6.274	0	% 100
4	M2	Z	0	0	0	% 100
5	M3	X	2.89	2.89	0	% 100
6	M3	Z	0	0	0	% 100
7	M4	X	1.569	1.569	0	% 100
8	M4	Z	0	0	0	% 100
9	M5	X	2.89	2.89	0	% 100
10	M5	Z	0	0	0	% 100
11	M6	X	1.569	1.569	0	% 100
12	M6	Z	0	0	0	% 100
13	M7	X	2.85	2.85	0	% 100
14	M7	Z	0	0	0	% 100
15	M13	X	2.402	2.402	0	% 100
16	M13	Z	0	0	0	% 100
17	M14	X	0	0	0	% 100
18	M14	Z	0	0	0	% 100
19	M21	X	2.85	2.85	0	% 100
20	M21	Z	0	0	0	% 100
21	M27	X	0	0	0	% 100
22	M27	Z	0	0	0	% 100
23	M28	X	2.402	2.402	0	% 100
24	M28	Z	0	0	0	% 100
25	M35	X	0	0	0	% 100
26	M35	Z	0	0	0	% 100
27	M41	X	2.402	2.402	0	% 100
28	M41	Z	0	0	0	% 100
29	M42	X	2.402	2.402	0	% 100
30	M42	Z	0	0	0	% 100
31	M48	X	2.734	2.734	0	% 100
32	M48	Z	0	0	0	% 100
33	M49	X	2.734	2.734	0	% 100
34	M49	Z	0	0	0	% 100
35	M53	X	.014	.014	0	% 100
36	M53	Z	0	0	0	% 100
37	M54	X	2.359	2.359	0	% 100
38	M54	Z	0	0	0	% 100
39	M59	X	2.359	2.359	0	% 100
40	M59	Z	0	0	0	% 100
41	M60	X	.014	.014	0	% 100
42	M60	Z	0	0	0	% 100
43	M62	X	3.593	3.593	0	% 100
44	M62	Z	0	0	0	% 100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	.898	.898	0 %100
46	M64	Z	0	0	0 %100
47	M66	X	.898	.898	0 %100
48	M66	Z	0	0	0 %100
49	MP1A	X	3.097	3.097	0 %100
50	MP1A	Z	0	0	0 %100
51	MP2A	X	3.097	3.097	0 %100
52	MP2A	Z	0	0	0 %100
53	MP4A	X	3.097	3.097	0 %100
54	MP4A	Z	0	0	0 %100
55	MP5A	X	3.097	3.097	0 %100
56	MP5A	Z	0	0	0 %100
57	MP1C	X	3.097	3.097	0 %100
58	MP1C	Z	0	0	0 %100
59	MP2C	X	3.097	3.097	0 %100
60	MP2C	Z	0	0	0 %100
61	MP4C	X	3.097	3.097	0 %100
62	MP4C	Z	0	0	0 %100
63	MP5C	X	3.097	3.097	0 %100
64	MP5C	Z	0	0	0 %100
65	MP1B	X	3.097	3.097	0 %100
66	MP1B	Z	0	0	0 %100
67	MP2B	X	3.097	3.097	0 %100
68	MP2B	Z	0	0	0 %100
69	MP4B	X	3.097	3.097	0 %100
70	MP4B	Z	0	0	0 %100
71	MP5B	X	3.097	3.097	0 %100
72	MP5B	Z	0	0	0 %100
73	MP3A	X	3.433	3.433	0 %100
74	MP3A	Z	0	0	0 %100
75	MP3C	X	3.433	3.433	0 %100
76	MP3C	Z	0	0	0 %100
77	MP3B	X	3.433	3.433	0 %100
78	MP3B	Z	0	0	0 %100
79	M100	X	0	0	0 %100
80	M100	Z	0	0	0 %100
81	M101	X	2.575	2.575	0 %100
82	M101	Z	0	0	0 %100
83	M102	X	2.575	2.575	0 %100
84	M102	Z	0	0	0 %100
85	M105	X	2.275	2.275	0 %100
86	M105	Z	0	0	0 %100
87	M108	X	2.275	2.275	0 %100
88	M108	Z	0	0	0 %100
89	M111	X	0	0	0 %100
90	M111	Z	0	0	0 %100
91	M117	X	0	0	0 %100
92	M117	Z	0	0	0 %100
93	M118	X	2.615	2.615	0 %100
94	M118	Z	0	0	0 %100
95	M119	X	2.615	2.615	0 %100
96	M119	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	2.575	2.575	0	%100
98	M125	Z	0	0	0	%100
99	M126	X	2.627	2.627	0	%100
100	M126	Z	0	0	0	%100
101	M127	X	4.224	4.224	0	%100
102	M127	Z	0	0	0	%100
103	M133	X	2.575	2.575	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	4.224	4.224	0	%100
106	M134	Z	0	0	0	%100
107	M135	X	2.627	2.627	0	%100
108	M135	Z	0	0	0	%100
109	M134A	X	0	0	0	%100
110	M134A	Z	0	0	0	%100
111	M135A	X	0	0	0	%100
112	M135A	Z	0	0	0	%100
113	M136	X	0	0	0	%100
114	M136	Z	0	0	0	%100
115	M130A	X	4.523	4.523	0	%100
116	M130A	Z	0	0	0	%100
117	M131A	X	2.674	2.674	0	%100
118	M131A	Z	0	0	0	%100
119	M132A	X	2.674	2.674	0	%100
120	M132A	Z	0	0	0	%100
121	M134B	X	4.523	4.523	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	2.674	2.674	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	2.674	2.674	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.834	.834	0	%100
2	M1	Z	.482	.482	0	%100
3	M2	X	4.075	4.075	0	%100
4	M2	Z	2.353	2.353	0	%100
5	M3	X	.834	.834	0	%100
6	M3	Z	.482	.482	0	%100
7	M4	X	4.075	4.075	0	%100
8	M4	Z	2.353	2.353	0	%100
9	M5	X	3.337	3.337	0	%100
10	M5	Z	1.927	1.927	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.823	.823	0	%100
14	M7	Z	.475	.475	0	%100
15	M13	X	2.774	2.774	0	%100
16	M13	Z	1.602	1.602	0	%100
17	M14	X	.694	.694	0	%100
18	M14	Z	.4	.4	0	%100







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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	3.088	3.088	0	%100
124	M135B	Z	1.783	1.783	0	%100
125	M136A	X	3.088	3.088	0	%100
126	M136A	Z	1.783	1.783	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.445	1.445	0	%100
2	M1	Z	2.503	2.503	0	%100
3	M2	X	.784	.784	0	%100
4	M2	Z	1.358	1.358	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	3.137	3.137	0	%100
8	M4	Z	5.434	5.434	0	%100
9	M5	X	1.445	1.445	0	%100
10	M5	Z	2.503	2.503	0	%100
11	M6	X	.784	.784	0	%100
12	M6	Z	1.358	1.358	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M13	X	1.201	1.201	0	%100
16	M13	Z	2.081	2.081	0	%100
17	M14	X	1.201	1.201	0	%100
18	M14	Z	2.081	2.081	0	%100
19	M21	X	1.425	1.425	0	%100
20	M21	Z	2.468	2.468	0	%100
21	M27	X	1.201	1.201	0	%100
22	M27	Z	2.081	2.081	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M35	X	1.425	1.425	0	%100
26	M35	Z	2.468	2.468	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	0	0	0	%100
29	M42	X	1.201	1.201	0	%100
30	M42	Z	2.081	2.081	0	%100
31	M48	X	1.179	1.179	0	%100
32	M48	Z	2.043	2.043	0	%100
33	M49	X	.007	.007	0	%100
34	M49	Z	.012	.012	0	%100
35	M53	X	1.367	1.367	0	%100
36	M53	Z	2.368	2.368	0	%100
37	M54	X	1.367	1.367	0	%100
38	M54	Z	2.368	2.368	0	%100
39	M59	X	.007	.007	0	%100
40	M59	Z	.012	.012	0	%100
41	M60	X	1.179	1.179	0	%100
42	M60	Z	2.043	2.043	0	%100
43	M62	X	.449	.449	0	%100
44	M62	Z	.778	.778	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	1.797	1.797	0	%100
46	M64	Z	3.112	3.112	0	%100
47	M66	X	.449	.449	0	%100
48	M66	Z	.778	.778	0	%100
49	MP1A	X	1.548	1.548	0	%100
50	MP1A	Z	2.682	2.682	0	%100
51	MP2A	X	1.548	1.548	0	%100
52	MP2A	Z	2.682	2.682	0	%100
53	MP4A	X	1.548	1.548	0	%100
54	MP4A	Z	2.682	2.682	0	%100
55	MP5A	X	1.548	1.548	0	%100
56	MP5A	Z	2.682	2.682	0	%100
57	MP1C	X	1.548	1.548	0	%100
58	MP1C	Z	2.682	2.682	0	%100
59	MP2C	X	1.548	1.548	0	%100
60	MP2C	Z	2.682	2.682	0	%100
61	MP4C	X	1.548	1.548	0	%100
62	MP4C	Z	2.682	2.682	0	%100
63	MP5C	X	1.548	1.548	0	%100
64	MP5C	Z	2.682	2.682	0	%100
65	MP1B	X	1.548	1.548	0	%100
66	MP1B	Z	2.682	2.682	0	%100
67	MP2B	X	1.548	1.548	0	%100
68	MP2B	Z	2.682	2.682	0	%100
69	MP4B	X	1.548	1.548	0	%100
70	MP4B	Z	2.682	2.682	0	%100
71	MP5B	X	1.548	1.548	0	%100
72	MP5B	Z	2.682	2.682	0	%100
73	MP3A	X	1.716	1.716	0	%100
74	MP3A	Z	2.973	2.973	0	%100
75	MP3C	X	1.716	1.716	0	%100
76	MP3C	Z	2.973	2.973	0	%100
77	MP3B	X	1.716	1.716	0	%100
78	MP3B	Z	2.973	2.973	0	%100
79	M100	X	1.287	1.287	0	%100
80	M100	Z	2.23	2.23	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	1.287	1.287	0	%100
84	M102	Z	2.23	2.23	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	1.137	1.137	0	%100
88	M108	Z	1.97	1.97	0	%100
89	M111	X	1.137	1.137	0	%100
90	M111	Z	1.97	1.97	0	%100
91	M117	X	1.287	1.287	0	%100
92	M117	Z	2.23	2.23	0	%100
93	M118	X	2.112	2.112	0	%100
94	M118	Z	3.658	3.658	0	%100
95	M119	X	1.313	1.313	0	%100
96	M119	Z	2.275	2.275	0	%100











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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	-1.287	-1.287	0	%100
98	M125	Z	2.23	2.23	0	%100
99	M126	X	-2.112	-2.112	0	%100
100	M126	Z	3.658	3.658	0	%100
101	M127	X	-1.313	-1.313	0	%100
102	M127	Z	2.275	2.275	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	-1.308	-1.308	0	%100
106	M134	Z	2.265	2.265	0	%100
107	M135	X	-1.308	-1.308	0	%100
108	M135	Z	2.265	2.265	0	%100
109	M134A	X	-2.261	-2.261	0	%100
110	M134A	Z	3.917	3.917	0	%100
111	M135A	X	-1.337	-1.337	0	%100
112	M135A	Z	2.316	2.316	0	%100
113	M136	X	-1.337	-1.337	0	%100
114	M136	Z	2.316	2.316	0	%100
115	M130A	X	-2.261	-2.261	0	%100
116	M130A	Z	3.917	3.917	0	%100
117	M131A	X	-1.337	-1.337	0	%100
118	M131A	Z	2.316	2.316	0	%100
119	M132A	X	-1.337	-1.337	0	%100
120	M132A	Z	2.316	2.316	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	0	0	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.834	-.834	0	%100
2	M1	Z	.482	.482	0	%100
3	M2	X	-4.075	-4.075	0	%100
4	M2	Z	2.353	2.353	0	%100
5	M3	X	-3.337	-3.337	0	%100
6	M3	Z	1.927	1.927	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.834	-.834	0	%100
10	M5	Z	.482	.482	0	%100
11	M6	X	-4.075	-4.075	0	%100
12	M6	Z	2.353	2.353	0	%100
13	M7	X	-3.291	-3.291	0	%100
14	M7	Z	1.9	1.9	0	%100
15	M13	X	-.694	-.694	0	%100
16	M13	Z	.4	.4	0	%100
17	M14	X	-.694	-.694	0	%100
18	M14	Z	.4	.4	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	MP5B	X	-2.682	-2.682	0 %100
72	MP5B	Z	1.548	1.548	0 %100
73	MP3A	X	-2.973	-2.973	0 %100
74	MP3A	Z	1.716	1.716	0 %100
75	MP3C	X	-2.973	-2.973	0 %100
76	MP3C	Z	1.716	1.716	0 %100
77	MP3B	X	-2.973	-2.973	0 %100
78	MP3B	Z	1.716	1.716	0 %100
79	M100	X	-.743	-.743	0 %100
80	M100	Z	.429	.429	0 %100
81	M101	X	-2.973	-2.973	0 %100
82	M101	Z	1.716	1.716	0 %100
83	M102	X	-.743	-.743	0 %100
84	M102	Z	.429	.429	0 %100
85	M105	X	-2.627	-2.627	0 %100
86	M105	Z	1.516	1.516	0 %100
87	M108	X	-.657	-.657	0 %100
88	M108	Z	.379	.379	0 %100
89	M111	X	-.657	-.657	0 %100
90	M111	Z	.379	.379	0 %100
91	M117	X	-.743	-.743	0 %100
92	M117	Z	.429	.429	0 %100
93	M118	X	-1.807	-1.807	0 %100
94	M118	Z	1.043	1.043	0 %100
95	M119	X	-3.19	-3.19	0 %100
96	M119	Z	1.842	1.842	0 %100
97	M125	X	-2.973	-2.973	0 %100
98	M125	Z	1.716	1.716	0 %100
99	M126	X	-3.2	-3.2	0 %100
100	M126	Z	1.848	1.848	0 %100
101	M127	X	-3.2	-3.2	0 %100
102	M127	Z	1.848	1.848	0 %100
103	M133	X	-.743	-.743	0 %100
104	M133	Z	.429	.429	0 %100
105	M134	X	-3.191	-3.191	0 %100
106	M134	Z	1.842	1.842	0 %100
107	M135	X	-1.807	-1.807	0 %100
108	M135	Z	1.043	1.043	0 %100
109	M134A	X	-1.306	-1.306	0 %100
110	M134A	Z	.754	.754	0 %100
111	M135A	X	-.772	-.772	0 %100
112	M135A	Z	.446	.446	0 %100
113	M136	X	-.772	-.772	0 %100
114	M136	Z	.446	.446	0 %100
115	M130A	X	-5.222	-5.222	0 %100
116	M130A	Z	3.015	3.015	0 %100
117	M131A	X	-3.088	-3.088	0 %100
118	M131A	Z	1.783	1.783	0 %100
119	M132A	X	-3.088	-3.088	0 %100
120	M132A	Z	1.783	1.783	0 %100
121	M134B	X	-1.306	-1.306	0 %100
122	M134B	Z	.754	.754	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	-.772	-.772	0	%100
124	M135B	Z	.446	.446	0	%100
125	M136A	X	-.772	-.772	0	%100
126	M136A	Z	.446	.446	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-6.274	-6.274	0	%100
4	M2	Z	0	0	0	%100
5	M3	X	-2.89	-2.89	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	-1.569	-1.569	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-2.89	-2.89	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-1.569	-1.569	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-2.85	-2.85	0	%100
14	M7	Z	0	0	0	%100
15	M13	X	-2.402	-2.402	0	%100
16	M13	Z	0	0	0	%100
17	M14	X	0	0	0	%100
18	M14	Z	0	0	0	%100
19	M21	X	-2.85	-2.85	0	%100
20	M21	Z	0	0	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	0	0	0	%100
23	M28	X	-2.402	-2.402	0	%100
24	M28	Z	0	0	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	0	0	0	%100
27	M41	X	-2.402	-2.402	0	%100
28	M41	Z	0	0	0	%100
29	M42	X	-2.402	-2.402	0	%100
30	M42	Z	0	0	0	%100
31	M48	X	-2.734	-2.734	0	%100
32	M48	Z	0	0	0	%100
33	M49	X	-2.734	-2.734	0	%100
34	M49	Z	0	0	0	%100
35	M53	X	-.014	-.014	0	%100
36	M53	Z	0	0	0	%100
37	M54	X	-2.359	-2.359	0	%100
38	M54	Z	0	0	0	%100
39	M59	X	-2.359	-2.359	0	%100
40	M59	Z	0	0	0	%100
41	M60	X	-.014	-.014	0	%100
42	M60	Z	0	0	0	%100
43	M62	X	-3.593	-3.593	0	%100
44	M62	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	-.898	-.898	0 %100
46	M64	Z	0	0	0 %100
47	M66	X	-.898	-.898	0 %100
48	M66	Z	0	0	0 %100
49	MP1A	X	-3.097	-3.097	0 %100
50	MP1A	Z	0	0	0 %100
51	MP2A	X	-3.097	-3.097	0 %100
52	MP2A	Z	0	0	0 %100
53	MP4A	X	-3.097	-3.097	0 %100
54	MP4A	Z	0	0	0 %100
55	MP5A	X	-3.097	-3.097	0 %100
56	MP5A	Z	0	0	0 %100
57	MP1C	X	-3.097	-3.097	0 %100
58	MP1C	Z	0	0	0 %100
59	MP2C	X	-3.097	-3.097	0 %100
60	MP2C	Z	0	0	0 %100
61	MP4C	X	-3.097	-3.097	0 %100
62	MP4C	Z	0	0	0 %100
63	MP5C	X	-3.097	-3.097	0 %100
64	MP5C	Z	0	0	0 %100
65	MP1B	X	-3.097	-3.097	0 %100
66	MP1B	Z	0	0	0 %100
67	MP2B	X	-3.097	-3.097	0 %100
68	MP2B	Z	0	0	0 %100
69	MP4B	X	-3.097	-3.097	0 %100
70	MP4B	Z	0	0	0 %100
71	MP5B	X	-3.097	-3.097	0 %100
72	MP5B	Z	0	0	0 %100
73	MP3A	X	-3.433	-3.433	0 %100
74	MP3A	Z	0	0	0 %100
75	MP3C	X	-3.433	-3.433	0 %100
76	MP3C	Z	0	0	0 %100
77	MP3B	X	-3.433	-3.433	0 %100
78	MP3B	Z	0	0	0 %100
79	M100	X	0	0	0 %100
80	M100	Z	0	0	0 %100
81	M101	X	-2.575	-2.575	0 %100
82	M101	Z	0	0	0 %100
83	M102	X	-2.575	-2.575	0 %100
84	M102	Z	0	0	0 %100
85	M105	X	-2.275	-2.275	0 %100
86	M105	Z	0	0	0 %100
87	M108	X	-2.275	-2.275	0 %100
88	M108	Z	0	0	0 %100
89	M111	X	0	0	0 %100
90	M111	Z	0	0	0 %100
91	M117	X	0	0	0 %100
92	M117	Z	0	0	0 %100
93	M118	X	-2.615	-2.615	0 %100
94	M118	Z	0	0	0 %100
95	M119	X	-2.615	-2.615	0 %100
96	M119	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	M125	X	-2.575	-2.575	0	%100
98	M125	Z	0	0	0	%100
99	M126	X	-2.627	-2.627	0	%100
100	M126	Z	0	0	0	%100
101	M127	X	-4.224	-4.224	0	%100
102	M127	Z	0	0	0	%100
103	M133	X	-2.575	-2.575	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	-4.224	-4.224	0	%100
106	M134	Z	0	0	0	%100
107	M135	X	-2.627	-2.627	0	%100
108	M135	Z	0	0	0	%100
109	M134A	X	0	0	0	%100
110	M134A	Z	0	0	0	%100
111	M135A	X	0	0	0	%100
112	M135A	Z	0	0	0	%100
113	M136	X	0	0	0	%100
114	M136	Z	0	0	0	%100
115	M130A	X	-4.523	-4.523	0	%100
116	M130A	Z	0	0	0	%100
117	M131A	X	-2.674	-2.674	0	%100
118	M131A	Z	0	0	0	%100
119	M132A	X	-2.674	-2.674	0	%100
120	M132A	Z	0	0	0	%100
121	M134B	X	-4.523	-4.523	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	-2.674	-2.674	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	-2.674	-2.674	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.834	-.834	0	%100
2	M1	Z	-.482	-.482	0	%100
3	M2	X	-4.075	-4.075	0	%100
4	M2	Z	-2.353	-2.353	0	%100
5	M3	X	-.834	-.834	0	%100
6	M3	Z	-.482	-.482	0	%100
7	M4	X	-4.075	-4.075	0	%100
8	M4	Z	-2.353	-2.353	0	%100
9	M5	X	-3.337	-3.337	0	%100
10	M5	Z	-1.927	-1.927	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	-.823	-.823	0	%100
14	M7	Z	-.475	-.475	0	%100
15	M13	X	-2.774	-2.774	0	%100
16	M13	Z	-1.602	-1.602	0	%100
17	M14	X	-.694	-.694	0	%100
18	M14	Z	-.4	-.4	0	%100



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 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	-3.291	-3.291	0	%100
20	M21	Z	-1.9	-1.9	0	%100
21	M27	X	-.694	-.694	0	%100
22	M27	Z	-.4	-.4	0	%100
23	M28	X	-.694	-.694	0	%100
24	M28	Z	-.4	-.4	0	%100
25	M35	X	-.823	-.823	0	%100
26	M35	Z	-.475	-.475	0	%100
27	M41	X	-.694	-.694	0	%100
28	M41	Z	-.4	-.4	0	%100
29	M42	X	-2.774	-2.774	0	%100
30	M42	Z	-1.602	-1.602	0	%100
31	M48	X	-2.936	-2.936	0	%100
32	M48	Z	-1.695	-1.695	0	%100
33	M49	X	-.905	-.905	0	%100
34	M49	Z	-.523	-.523	0	%100
35	M53	X	-.905	-.905	0	%100
36	M53	Z	-.523	-.523	0	%100
37	M54	X	-2.936	-2.936	0	%100
38	M54	Z	-1.695	-1.695	0	%100
39	M59	X	-.581	-.581	0	%100
40	M59	Z	-.335	-.335	0	%100
41	M60	X	-.581	-.581	0	%100
42	M60	Z	-.335	-.335	0	%100
43	M62	X	-2.334	-2.334	0	%100
44	M62	Z	-1.347	-1.347	0	%100
45	M64	X	-2.334	-2.334	0	%100
46	M64	Z	-1.347	-1.347	0	%100
47	M66	X	0	0	0	%100
48	M66	Z	0	0	0	%100
49	MP1A	X	-2.682	-2.682	0	%100
50	MP1A	Z	-1.548	-1.548	0	%100
51	MP2A	X	-2.682	-2.682	0	%100
52	MP2A	Z	-1.548	-1.548	0	%100
53	MP4A	X	-2.682	-2.682	0	%100
54	MP4A	Z	-1.548	-1.548	0	%100
55	MP5A	X	-2.682	-2.682	0	%100
56	MP5A	Z	-1.548	-1.548	0	%100
57	MP1C	X	-2.682	-2.682	0	%100
58	MP1C	Z	-1.548	-1.548	0	%100
59	MP2C	X	-2.682	-2.682	0	%100
60	MP2C	Z	-1.548	-1.548	0	%100
61	MP4C	X	-2.682	-2.682	0	%100
62	MP4C	Z	-1.548	-1.548	0	%100
63	MP5C	X	-2.682	-2.682	0	%100
64	MP5C	Z	-1.548	-1.548	0	%100
65	MP1B	X	-2.682	-2.682	0	%100
66	MP1B	Z	-1.548	-1.548	0	%100
67	MP2B	X	-2.682	-2.682	0	%100
68	MP2B	Z	-1.548	-1.548	0	%100
69	MP4B	X	-2.682	-2.682	0	%100
70	MP4B	Z	-1.548	-1.548	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	-2.682	-2.682	0 %100
72	MP5B	Z	-1.548	-1.548	0 %100
73	MP3A	X	-2.973	-2.973	0 %100
74	MP3A	Z	-1.716	-1.716	0 %100
75	MP3C	X	-2.973	-2.973	0 %100
76	MP3C	Z	-1.716	-1.716	0 %100
77	MP3B	X	-2.973	-2.973	0 %100
78	MP3B	Z	-1.716	-1.716	0 %100
79	M100	X	-.743	-.743	0 %100
80	M100	Z	-.429	-.429	0 %100
81	M101	X	-.743	-.743	0 %100
82	M101	Z	-.429	-.429	0 %100
83	M102	X	-2.973	-2.973	0 %100
84	M102	Z	-1.716	-1.716	0 %100
85	M105	X	-.657	-.657	0 %100
86	M105	Z	-.379	-.379	0 %100
87	M108	X	-2.627	-2.627	0 %100
88	M108	Z	-1.516	-1.516	0 %100
89	M111	X	-.657	-.657	0 %100
90	M111	Z	-.379	-.379	0 %100
91	M117	X	-.743	-.743	0 %100
92	M117	Z	-.429	-.429	0 %100
93	M118	X	-3.19	-3.19	0 %100
94	M118	Z	-1.842	-1.842	0 %100
95	M119	X	-1.807	-1.807	0 %100
96	M119	Z	-1.043	-1.043	0 %100
97	M125	X	-.743	-.743	0 %100
98	M125	Z	-.429	-.429	0 %100
99	M126	X	-1.807	-1.807	0 %100
100	M126	Z	-1.043	-1.043	0 %100
101	M127	X	-3.191	-3.191	0 %100
102	M127	Z	-1.842	-1.842	0 %100
103	M133	X	-2.973	-2.973	0 %100
104	M133	Z	-1.716	-1.716	0 %100
105	M134	X	-3.2	-3.2	0 %100
106	M134	Z	-1.848	-1.848	0 %100
107	M135	X	-3.2	-3.2	0 %100
108	M135	Z	-1.848	-1.848	0 %100
109	M134A	X	-1.306	-1.306	0 %100
110	M134A	Z	-.754	-.754	0 %100
111	M135A	X	-.772	-.772	0 %100
112	M135A	Z	-.446	-.446	0 %100
113	M136	X	-.772	-.772	0 %100
114	M136	Z	-.446	-.446	0 %100
115	M130A	X	-1.306	-1.306	0 %100
116	M130A	Z	-.754	-.754	0 %100
117	M131A	X	-.772	-.772	0 %100
118	M131A	Z	-.446	-.446	0 %100
119	M132A	X	-.772	-.772	0 %100
120	M132A	Z	-.446	-.446	0 %100
121	M134B	X	-5.222	-5.222	0 %100
122	M134B	Z	-3.015	-3.015	0 %100







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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	-1.797	-1.797	0	%100
46	M64	Z	-3.112	-3.112	0	%100
47	M66	X	-.449	-.449	0	%100
48	M66	Z	-.778	-.778	0	%100
49	MP1A	X	-1.548	-1.548	0	%100
50	MP1A	Z	-2.682	-2.682	0	%100
51	MP2A	X	-1.548	-1.548	0	%100
52	MP2A	Z	-2.682	-2.682	0	%100
53	MP4A	X	-1.548	-1.548	0	%100
54	MP4A	Z	-2.682	-2.682	0	%100
55	MP5A	X	-1.548	-1.548	0	%100
56	MP5A	Z	-2.682	-2.682	0	%100
57	MP1C	X	-1.548	-1.548	0	%100
58	MP1C	Z	-2.682	-2.682	0	%100
59	MP2C	X	-1.548	-1.548	0	%100
60	MP2C	Z	-2.682	-2.682	0	%100
61	MP4C	X	-1.548	-1.548	0	%100
62	MP4C	Z	-2.682	-2.682	0	%100
63	MP5C	X	-1.548	-1.548	0	%100
64	MP5C	Z	-2.682	-2.682	0	%100
65	MP1B	X	-1.548	-1.548	0	%100
66	MP1B	Z	-2.682	-2.682	0	%100
67	MP2B	X	-1.548	-1.548	0	%100
68	MP2B	Z	-2.682	-2.682	0	%100
69	MP4B	X	-1.548	-1.548	0	%100
70	MP4B	Z	-2.682	-2.682	0	%100
71	MP5B	X	-1.548	-1.548	0	%100
72	MP5B	Z	-2.682	-2.682	0	%100
73	MP3A	X	-1.716	-1.716	0	%100
74	MP3A	Z	-2.973	-2.973	0	%100
75	MP3C	X	-1.716	-1.716	0	%100
76	MP3C	Z	-2.973	-2.973	0	%100
77	MP3B	X	-1.716	-1.716	0	%100
78	MP3B	Z	-2.973	-2.973	0	%100
79	M100	X	-1.287	-1.287	0	%100
80	M100	Z	-2.23	-2.23	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	-1.287	-1.287	0	%100
84	M102	Z	-2.23	-2.23	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	-1.137	-1.137	0	%100
88	M108	Z	-1.97	-1.97	0	%100
89	M111	X	-1.137	-1.137	0	%100
90	M111	Z	-1.97	-1.97	0	%100
91	M117	X	-1.287	-1.287	0	%100
92	M117	Z	-2.23	-2.23	0	%100
93	M118	X	-2.112	-2.112	0	%100
94	M118	Z	-3.658	-3.658	0	%100
95	M119	X	-1.313	-1.313	0	%100
96	M119	Z	-2.275	-2.275	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	0	0	0	% 100
98	M125	Z	0	0	0	% 100
99	M126	X	-1.308	-1.308	0	% 100
100	M126	Z	-2.265	-2.265	0	% 100
101	M127	X	-1.308	-1.308	0	% 100
102	M127	Z	-2.265	-2.265	0	% 100
103	M133	X	-1.287	-1.287	0	% 100
104	M133	Z	-2.23	-2.23	0	% 100
105	M134	X	-1.313	-1.313	0	% 100
106	M134	Z	-2.275	-2.275	0	% 100
107	M135	X	-2.112	-2.112	0	% 100
108	M135	Z	-3.658	-3.658	0	% 100
109	M134A	X	-2.261	-2.261	0	% 100
110	M134A	Z	-3.917	-3.917	0	% 100
111	M135A	X	-1.337	-1.337	0	% 100
112	M135A	Z	-2.316	-2.316	0	% 100
113	M136	X	-1.337	-1.337	0	% 100
114	M136	Z	-2.316	-2.316	0	% 100
115	M130A	X	0	0	0	% 100
116	M130A	Z	0	0	0	% 100
117	M131A	X	0	0	0	% 100
118	M131A	Z	0	0	0	% 100
119	M132A	X	0	0	0	% 100
120	M132A	Z	0	0	0	% 100
121	M134B	X	-2.261	-2.261	0	% 100
122	M134B	Z	-3.917	-3.917	0	% 100
123	M135B	X	-1.337	-1.337	0	% 100
124	M135B	Z	-2.316	-2.316	0	% 100
125	M136A	X	-1.337	-1.337	0	% 100
126	M136A	Z	-2.316	-2.316	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	% 100
2	M1	Z	-.848	-.848	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M3	X	0	0	0	% 100
6	M3	Z	-.212	-.212	0	% 100
7	M4	X	0	0	0	% 100
8	M4	Z	-1.453	-1.453	0	% 100
9	M5	X	0	0	0	% 100
10	M5	Z	-.212	-.212	0	% 100
11	M6	X	0	0	0	% 100
12	M6	Z	-1.453	-1.453	0	% 100
13	M7	X	0	0	0	% 100
14	M7	Z	-.253	-.253	0	% 100
15	M13	X	0	0	0	% 100
16	M13	Z	-.177	-.177	0	% 100
17	M14	X	0	0	0	% 100
18	M14	Z	-.706	-.706	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	0	0	0	%100
20	M21	Z	-.253	-.253	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	-.706	-.706	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	-.177	-.177	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	-1.012	-1.012	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	-.177	-.177	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	-.177	-.177	0	%100
31	M48	X	0	0	0	%100
32	M48	Z	-.16	-.16	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	-.16	-.16	0	%100
35	M53	X	0	0	0	%100
36	M53	Z	-.807	-.807	0	%100
37	M54	X	0	0	0	%100
38	M54	Z	-.249	-.249	0	%100
39	M59	X	0	0	0	%100
40	M59	Z	-.249	-.249	0	%100
41	M60	X	0	0	0	%100
42	M60	Z	-.807	-.807	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	0	0	0	%100
45	M64	X	0	0	0	%100
46	M64	Z	-.625	-.625	0	%100
47	M66	X	0	0	0	%100
48	M66	Z	-.625	-.625	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	-.575	-.575	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	-.575	-.575	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	-.575	-.575	0	%100
55	MP5A	X	0	0	0	%100
56	MP5A	Z	-.575	-.575	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	-.575	-.575	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	-.575	-.575	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	-.575	-.575	0	%100
63	MP5C	X	0	0	0	%100
64	MP5C	Z	-.575	-.575	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	-.575	-.575	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	-.575	-.575	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	-.575	-.575	0	%100







Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	.104	.104	0 %100
46	M64	Z	-.18	-.18	0 %100
47	M66	X	.417	.417	0 %100
48	M66	Z	-.722	-.722	0 %100
49	MP1A	X	.288	.288	0 %100
50	MP1A	Z	-.498	-.498	0 %100
51	MP2A	X	.288	.288	0 %100
52	MP2A	Z	-.498	-.498	0 %100
53	MP4A	X	.288	.288	0 %100
54	MP4A	Z	-.498	-.498	0 %100
55	MP5A	X	.288	.288	0 %100
56	MP5A	Z	-.498	-.498	0 %100
57	MP1C	X	.288	.288	0 %100
58	MP1C	Z	-.498	-.498	0 %100
59	MP2C	X	.288	.288	0 %100
60	MP2C	Z	-.498	-.498	0 %100
61	MP4C	X	.288	.288	0 %100
62	MP4C	Z	-.498	-.498	0 %100
63	MP5C	X	.288	.288	0 %100
64	MP5C	Z	-.498	-.498	0 %100
65	MP1B	X	.288	.288	0 %100
66	MP1B	Z	-.498	-.498	0 %100
67	MP2B	X	.288	.288	0 %100
68	MP2B	Z	-.498	-.498	0 %100
69	MP4B	X	.288	.288	0 %100
70	MP4B	Z	-.498	-.498	0 %100
71	MP5B	X	.288	.288	0 %100
72	MP5B	Z	-.498	-.498	0 %100
73	MP3A	X	.348	.348	0 %100
74	MP3A	Z	-.603	-.603	0 %100
75	MP3C	X	.348	.348	0 %100
76	MP3C	Z	-.603	-.603	0 %100
77	MP3B	X	.348	.348	0 %100
78	MP3B	Z	-.603	-.603	0 %100
79	M100	X	.261	.261	0 %100
80	M100	Z	-.452	-.452	0 %100
81	M101	X	.261	.261	0 %100
82	M101	Z	-.452	-.452	0 %100
83	M102	X	0	0	0 %100
84	M102	Z	0	0	0 %100
85	M105	X	.283	.283	0 %100
86	M105	Z	-.49	-.49	0 %100
87	M108	X	0	0	0 %100
88	M108	Z	0	0	0 %100
89	M111	X	.283	.283	0 %100
90	M111	Z	-.49	-.49	0 %100
91	M117	X	.261	.261	0 %100
92	M117	Z	-.452	-.452	0 %100
93	M118	X	.305	.305	0 %100
94	M118	Z	-.528	-.528	0 %100
95	M119	X	.491	.491	0 %100
96	M119	Z	-.85	-.85	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	M125	X	.261	.261	0	%100
98	M125	Z	-.452	-.452	0	%100
99	M126	X	.491	.491	0	%100
100	M126	Z	-.85	-.85	0	%100
101	M127	X	.305	.305	0	%100
102	M127	Z	-.528	-.528	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	.304	.304	0	%100
106	M134	Z	-.526	-.526	0	%100
107	M135	X	.304	.304	0	%100
108	M135	Z	-.526	-.526	0	%100
109	M134A	X	.635	.635	0	%100
110	M134A	Z	-1.1	-1.1	0	%100
111	M135A	X	.363	.363	0	%100
112	M135A	Z	-.629	-.629	0	%100
113	M136	X	.363	.363	0	%100
114	M136	Z	-.629	-.629	0	%100
115	M130A	X	.635	.635	0	%100
116	M130A	Z	-1.1	-1.1	0	%100
117	M131A	X	.363	.363	0	%100
118	M131A	Z	-.629	-.629	0	%100
119	M132A	X	.363	.363	0	%100
120	M132A	Z	-.629	-.629	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	0	0	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.184	.184	0	%100
2	M1	Z	-.106	-.106	0	%100
3	M2	X	1.259	1.259	0	%100
4	M2	Z	-.727	-.727	0	%100
5	M3	X	.734	.734	0	%100
6	M3	Z	-.424	-.424	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	.184	.184	0	%100
10	M5	Z	-.106	-.106	0	%100
11	M6	X	1.259	1.259	0	%100
12	M6	Z	-.727	-.727	0	%100
13	M7	X	.876	.876	0	%100
14	M7	Z	-.506	-.506	0	%100
15	M13	X	.153	.153	0	%100
16	M13	Z	-.088	-.088	0	%100
17	M14	X	.153	.153	0	%100
18	M14	Z	-.088	-.088	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	.498	.498	0 %100
72	MP5B	Z	-.288	-.288	0 %100
73	MP3A	X	.603	.603	0 %100
74	MP3A	Z	-.348	-.348	0 %100
75	MP3C	X	.603	.603	0 %100
76	MP3C	Z	-.348	-.348	0 %100
77	MP3B	X	.603	.603	0 %100
78	MP3B	Z	-.348	-.348	0 %100
79	M100	X	.151	.151	0 %100
80	M100	Z	-.087	-.087	0 %100
81	M101	X	.603	.603	0 %100
82	M101	Z	-.348	-.348	0 %100
83	M102	X	.151	.151	0 %100
84	M102	Z	-.087	-.087	0 %100
85	M105	X	.653	.653	0 %100
86	M105	Z	-.377	-.377	0 %100
87	M108	X	.163	.163	0 %100
88	M108	Z	-.094	-.094	0 %100
89	M111	X	.163	.163	0 %100
90	M111	Z	-.094	-.094	0 %100
91	M117	X	.151	.151	0 %100
92	M117	Z	-.087	-.087	0 %100
93	M118	X	.42	.42	0 %100
94	M118	Z	-.242	-.242	0 %100
95	M119	X	.741	.741	0 %100
96	M119	Z	-.428	-.428	0 %100
97	M125	X	.603	.603	0 %100
98	M125	Z	-.348	-.348	0 %100
99	M126	X	.743	.743	0 %100
100	M126	Z	-.429	-.429	0 %100
101	M127	X	.743	.743	0 %100
102	M127	Z	-.429	-.429	0 %100
103	M133	X	.151	.151	0 %100
104	M133	Z	-.087	-.087	0 %100
105	M134	X	.741	.741	0 %100
106	M134	Z	-.428	-.428	0 %100
107	M135	X	.42	.42	0 %100
108	M135	Z	-.242	-.242	0 %100
109	M134A	X	.367	.367	0 %100
110	M134A	Z	-.212	-.212	0 %100
111	M135A	X	.21	.21	0 %100
112	M135A	Z	-.121	-.121	0 %100
113	M136	X	.21	.21	0 %100
114	M136	Z	-.121	-.121	0 %100
115	M130A	X	1.467	1.467	0 %100
116	M130A	Z	-.847	-.847	0 %100
117	M131A	X	.839	.839	0 %100
118	M131A	Z	-.484	-.484	0 %100
119	M132A	X	.839	.839	0 %100
120	M132A	Z	-.484	-.484	0 %100
121	M134B	X	.367	.367	0 %100
122	M134B	Z	-.212	-.212	0 %100





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M64	X	.208	.208	0	%100
46	M64	Z	0	0	0	%100
47	M66	X	.208	.208	0	%100
48	M66	Z	0	0	0	%100
49	MP1A	X	.575	.575	0	%100
50	MP1A	Z	0	0	0	%100
51	MP2A	X	.575	.575	0	%100
52	MP2A	Z	0	0	0	%100
53	MP4A	X	.575	.575	0	%100
54	MP4A	Z	0	0	0	%100
55	MP5A	X	.575	.575	0	%100
56	MP5A	Z	0	0	0	%100
57	MP1C	X	.575	.575	0	%100
58	MP1C	Z	0	0	0	%100
59	MP2C	X	.575	.575	0	%100
60	MP2C	Z	0	0	0	%100
61	MP4C	X	.575	.575	0	%100
62	MP4C	Z	0	0	0	%100
63	MP5C	X	.575	.575	0	%100
64	MP5C	Z	0	0	0	%100
65	MP1B	X	.575	.575	0	%100
66	MP1B	Z	0	0	0	%100
67	MP2B	X	.575	.575	0	%100
68	MP2B	Z	0	0	0	%100
69	MP4B	X	.575	.575	0	%100
70	MP4B	Z	0	0	0	%100
71	MP5B	X	.575	.575	0	%100
72	MP5B	Z	0	0	0	%100
73	MP3A	X	.696	.696	0	%100
74	MP3A	Z	0	0	0	%100
75	MP3C	X	.696	.696	0	%100
76	MP3C	Z	0	0	0	%100
77	MP3B	X	.696	.696	0	%100
78	MP3B	Z	0	0	0	%100
79	M100	X	0	0	0	%100
80	M100	Z	0	0	0	%100
81	M101	X	.522	.522	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	.522	.522	0	%100
84	M102	Z	0	0	0	%100
85	M105	X	.566	.566	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	.566	.566	0	%100
88	M108	Z	0	0	0	%100
89	M111	X	0	0	0	%100
90	M111	Z	0	0	0	%100
91	M117	X	0	0	0	%100
92	M117	Z	0	0	0	%100
93	M118	X	.607	.607	0	%100
94	M118	Z	0	0	0	%100
95	M119	X	.607	.607	0	%100
96	M119	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
97	M125	X	.522	.522	0	%100
98	M125	Z	0	0	0	%100
99	M126	X	.61	.61	0	%100
100	M126	Z	0	0	0	%100
101	M127	X	.981	.981	0	%100
102	M127	Z	0	0	0	%100
103	M133	X	.522	.522	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	.981	.981	0	%100
106	M134	Z	0	0	0	%100
107	M135	X	.61	.61	0	%100
108	M135	Z	0	0	0	%100
109	M134A	X	0	0	0	%100
110	M134A	Z	0	0	0	%100
111	M135A	X	0	0	0	%100
112	M135A	Z	0	0	0	%100
113	M136	X	0	0	0	%100
114	M136	Z	0	0	0	%100
115	M130A	X	1.27	1.27	0	%100
116	M130A	Z	0	0	0	%100
117	M131A	X	.727	.727	0	%100
118	M131A	Z	0	0	0	%100
119	M132A	X	.727	.727	0	%100
120	M132A	Z	0	0	0	%100
121	M134B	X	1.27	1.27	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	.727	.727	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	.727	.727	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.184	.184	0	%100
2	M1	Z	.106	.106	0	%100
3	M2	X	1.259	1.259	0	%100
4	M2	Z	.727	.727	0	%100
5	M3	X	.184	.184	0	%100
6	M3	Z	.106	.106	0	%100
7	M4	X	1.259	1.259	0	%100
8	M4	Z	.727	.727	0	%100
9	M5	X	.734	.734	0	%100
10	M5	Z	.424	.424	0	%100
11	M6	X	0	0	0	%100
12	M6	Z	0	0	0	%100
13	M7	X	.219	.219	0	%100
14	M7	Z	.126	.126	0	%100
15	M13	X	.612	.612	0	%100
16	M13	Z	.353	.353	0	%100
17	M14	X	.153	.153	0	%100
18	M14	Z	.088	.088	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	.876	.876	0	%100
20	M21	Z	.506	.506	0	%100
21	M27	X	.153	.153	0	%100
22	M27	Z	.088	.088	0	%100
23	M28	X	.153	.153	0	%100
24	M28	Z	.088	.088	0	%100
25	M35	X	.219	.219	0	%100
26	M35	Z	.126	.126	0	%100
27	M41	X	.153	.153	0	%100
28	M41	Z	.088	.088	0	%100
29	M42	X	.612	.612	0	%100
30	M42	Z	.353	.353	0	%100
31	M48	X	.699	.699	0	%100
32	M48	Z	.403	.403	0	%100
33	M49	X	.215	.215	0	%100
34	M49	Z	.124	.124	0	%100
35	M53	X	.215	.215	0	%100
36	M53	Z	.124	.124	0	%100
37	M54	X	.699	.699	0	%100
38	M54	Z	.403	.403	0	%100
39	M59	X	.138	.138	0	%100
40	M59	Z	.08	.08	0	%100
41	M60	X	.138	.138	0	%100
42	M60	Z	.08	.08	0	%100
43	M62	X	.541	.541	0	%100
44	M62	Z	.312	.312	0	%100
45	M64	X	.541	.541	0	%100
46	M64	Z	.312	.312	0	%100
47	M66	X	0	0	0	%100
48	M66	Z	0	0	0	%100
49	MP1A	X	.498	.498	0	%100
50	MP1A	Z	.288	.288	0	%100
51	MP2A	X	.498	.498	0	%100
52	MP2A	Z	.288	.288	0	%100
53	MP4A	X	.498	.498	0	%100
54	MP4A	Z	.288	.288	0	%100
55	MP5A	X	.498	.498	0	%100
56	MP5A	Z	.288	.288	0	%100
57	MP1C	X	.498	.498	0	%100
58	MP1C	Z	.288	.288	0	%100
59	MP2C	X	.498	.498	0	%100
60	MP2C	Z	.288	.288	0	%100
61	MP4C	X	.498	.498	0	%100
62	MP4C	Z	.288	.288	0	%100
63	MP5C	X	.498	.498	0	%100
64	MP5C	Z	.288	.288	0	%100
65	MP1B	X	.498	.498	0	%100
66	MP1B	Z	.288	.288	0	%100
67	MP2B	X	.498	.498	0	%100
68	MP2B	Z	.288	.288	0	%100
69	MP4B	X	.498	.498	0	%100
70	MP4B	Z	.288	.288	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	.498	.498	0	%100
72	MP5B	Z	.288	.288	0	%100
73	MP3A	X	.603	.603	0	%100
74	MP3A	Z	.348	.348	0	%100
75	MP3C	X	.603	.603	0	%100
76	MP3C	Z	.348	.348	0	%100
77	MP3B	X	.603	.603	0	%100
78	MP3B	Z	.348	.348	0	%100
79	M100	X	.151	.151	0	%100
80	M100	Z	.087	.087	0	%100
81	M101	X	.151	.151	0	%100
82	M101	Z	.087	.087	0	%100
83	M102	X	.603	.603	0	%100
84	M102	Z	.348	.348	0	%100
85	M105	X	.163	.163	0	%100
86	M105	Z	.094	.094	0	%100
87	M108	X	.653	.653	0	%100
88	M108	Z	.377	.377	0	%100
89	M111	X	.163	.163	0	%100
90	M111	Z	.094	.094	0	%100
91	M117	X	.151	.151	0	%100
92	M117	Z	.087	.087	0	%100
93	M118	X	.741	.741	0	%100
94	M118	Z	.428	.428	0	%100
95	M119	X	.42	.42	0	%100
96	M119	Z	.242	.242	0	%100
97	M125	X	.151	.151	0	%100
98	M125	Z	.087	.087	0	%100
99	M126	X	.42	.42	0	%100
100	M126	Z	.242	.242	0	%100
101	M127	X	.741	.741	0	%100
102	M127	Z	.428	.428	0	%100
103	M133	X	.603	.603	0	%100
104	M133	Z	.348	.348	0	%100
105	M134	X	.743	.743	0	%100
106	M134	Z	.429	.429	0	%100
107	M135	X	.743	.743	0	%100
108	M135	Z	.429	.429	0	%100
109	M134A	X	.367	.367	0	%100
110	M134A	Z	.212	.212	0	%100
111	M135A	X	.21	.21	0	%100
112	M135A	Z	.121	.121	0	%100
113	M136	X	.21	.21	0	%100
114	M136	Z	.121	.121	0	%100
115	M130A	X	.367	.367	0	%100
116	M130A	Z	.212	.212	0	%100
117	M131A	X	.21	.21	0	%100
118	M131A	Z	.121	.121	0	%100
119	M132A	X	.21	.21	0	%100
120	M132A	Z	.121	.121	0	%100
121	M134B	X	1.467	1.467	0	%100
122	M134B	Z	.847	.847	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	.839	.839	0	%100
124	M135B	Z	.484	.484	0	%100
125	M136A	X	.839	.839	0	%100
126	M136A	Z	.484	.484	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.318	.318	0	%100
2	M1	Z	.551	.551	0	%100
3	M2	X	.242	.242	0	%100
4	M2	Z	.42	.42	0	%100
5	M3	X	0	0	0	%100
6	M3	Z	0	0	0	%100
7	M4	X	.969	.969	0	%100
8	M4	Z	1.678	1.678	0	%100
9	M5	X	.318	.318	0	%100
10	M5	Z	.551	.551	0	%100
11	M6	X	.242	.242	0	%100
12	M6	Z	.42	.42	0	%100
13	M7	X	0	0	0	%100
14	M7	Z	0	0	0	%100
15	M13	X	.265	.265	0	%100
16	M13	Z	.459	.459	0	%100
17	M14	X	.265	.265	0	%100
18	M14	Z	.459	.459	0	%100
19	M21	X	.379	.379	0	%100
20	M21	Z	.657	.657	0	%100
21	M27	X	.265	.265	0	%100
22	M27	Z	.459	.459	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	0	0	0	%100
25	M35	X	.379	.379	0	%100
26	M35	Z	.657	.657	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	0	0	0	%100
29	M42	X	.265	.265	0	%100
30	M42	Z	.459	.459	0	%100
31	M48	X	.281	.281	0	%100
32	M48	Z	.486	.486	0	%100
33	M49	X	.002	.002	0	%100
34	M49	Z	.003	.003	0	%100
35	M53	X	.325	.325	0	%100
36	M53	Z	.563	.563	0	%100
37	M54	X	.325	.325	0	%100
38	M54	Z	.563	.563	0	%100
39	M59	X	.002	.002	0	%100
40	M59	Z	.003	.003	0	%100
41	M60	X	.281	.281	0	%100
42	M60	Z	.486	.486	0	%100
43	M62	X	.104	.104	0	%100
44	M62	Z	.18	.18	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	.417	.417	0	%100
46	M64	Z	.722	.722	0	%100
47	M66	X	.104	.104	0	%100
48	M66	Z	.18	.18	0	%100
49	MP1A	X	.288	.288	0	%100
50	MP1A	Z	.498	.498	0	%100
51	MP2A	X	.288	.288	0	%100
52	MP2A	Z	.498	.498	0	%100
53	MP4A	X	.288	.288	0	%100
54	MP4A	Z	.498	.498	0	%100
55	MP5A	X	.288	.288	0	%100
56	MP5A	Z	.498	.498	0	%100
57	MP1C	X	.288	.288	0	%100
58	MP1C	Z	.498	.498	0	%100
59	MP2C	X	.288	.288	0	%100
60	MP2C	Z	.498	.498	0	%100
61	MP4C	X	.288	.288	0	%100
62	MP4C	Z	.498	.498	0	%100
63	MP5C	X	.288	.288	0	%100
64	MP5C	Z	.498	.498	0	%100
65	MP1B	X	.288	.288	0	%100
66	MP1B	Z	.498	.498	0	%100
67	MP2B	X	.288	.288	0	%100
68	MP2B	Z	.498	.498	0	%100
69	MP4B	X	.288	.288	0	%100
70	MP4B	Z	.498	.498	0	%100
71	MP5B	X	.288	.288	0	%100
72	MP5B	Z	.498	.498	0	%100
73	MP3A	X	.348	.348	0	%100
74	MP3A	Z	.603	.603	0	%100
75	MP3C	X	.348	.348	0	%100
76	MP3C	Z	.603	.603	0	%100
77	MP3B	X	.348	.348	0	%100
78	MP3B	Z	.603	.603	0	%100
79	M100	X	.261	.261	0	%100
80	M100	Z	.452	.452	0	%100
81	M101	X	0	0	0	%100
82	M101	Z	0	0	0	%100
83	M102	X	.261	.261	0	%100
84	M102	Z	.452	.452	0	%100
85	M105	X	0	0	0	%100
86	M105	Z	0	0	0	%100
87	M108	X	.283	.283	0	%100
88	M108	Z	.49	.49	0	%100
89	M111	X	.283	.283	0	%100
90	M111	Z	.49	.49	0	%100
91	M117	X	.261	.261	0	%100
92	M117	Z	.452	.452	0	%100
93	M118	X	.491	.491	0	%100
94	M118	Z	.85	.85	0	%100
95	M119	X	.305	.305	0	%100
96	M119	Z	.528	.528	0	%100







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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	0	0	0	%100
20	M21	Z	.253	.253	0	%100
21	M27	X	0	0	0	%100
22	M27	Z	.706	.706	0	%100
23	M28	X	0	0	0	%100
24	M28	Z	.177	.177	0	%100
25	M35	X	0	0	0	%100
26	M35	Z	1.012	1.012	0	%100
27	M41	X	0	0	0	%100
28	M41	Z	.177	.177	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	.177	.177	0	%100
31	M48	X	0	0	0	%100
32	M48	Z	.16	.16	0	%100
33	M49	X	0	0	0	%100
34	M49	Z	.16	.16	0	%100
35	M53	X	0	0	0	%100
36	M53	Z	.807	.807	0	%100
37	M54	X	0	0	0	%100
38	M54	Z	.249	.249	0	%100
39	M59	X	0	0	0	%100
40	M59	Z	.249	.249	0	%100
41	M60	X	0	0	0	%100
42	M60	Z	.807	.807	0	%100
43	M62	X	0	0	0	%100
44	M62	Z	0	0	0	%100
45	M64	X	0	0	0	%100
46	M64	Z	.625	.625	0	%100
47	M66	X	0	0	0	%100
48	M66	Z	.625	.625	0	%100
49	MP1A	X	0	0	0	%100
50	MP1A	Z	.575	.575	0	%100
51	MP2A	X	0	0	0	%100
52	MP2A	Z	.575	.575	0	%100
53	MP4A	X	0	0	0	%100
54	MP4A	Z	.575	.575	0	%100
55	MP5A	X	0	0	0	%100
56	MP5A	Z	.575	.575	0	%100
57	MP1C	X	0	0	0	%100
58	MP1C	Z	.575	.575	0	%100
59	MP2C	X	0	0	0	%100
60	MP2C	Z	.575	.575	0	%100
61	MP4C	X	0	0	0	%100
62	MP4C	Z	.575	.575	0	%100
63	MP5C	X	0	0	0	%100
64	MP5C	Z	.575	.575	0	%100
65	MP1B	X	0	0	0	%100
66	MP1B	Z	.575	.575	0	%100
67	MP2B	X	0	0	0	%100
68	MP2B	Z	.575	.575	0	%100
69	MP4B	X	0	0	0	%100
70	MP4B	Z	.575	.575	0	%100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	0	0	0 %100
72	MP5B	Z	.575	.575	0 %100
73	MP3A	X	0	0	0 %100
74	MP3A	Z	.696	.696	0 %100
75	MP3C	X	0	0	0 %100
76	MP3C	Z	.696	.696	0 %100
77	MP3B	X	0	0	0 %100
78	MP3B	Z	.696	.696	0 %100
79	M100	X	0	0	0 %100
80	M100	Z	.696	.696	0 %100
81	M101	X	0	0	0 %100
82	M101	Z	.174	.174	0 %100
83	M102	X	0	0	0 %100
84	M102	Z	.174	.174	0 %100
85	M105	X	0	0	0 %100
86	M105	Z	.189	.189	0 %100
87	M108	X	0	0	0 %100
88	M108	Z	.189	.189	0 %100
89	M111	X	0	0	0 %100
90	M111	Z	.755	.755	0 %100
91	M117	X	0	0	0 %100
92	M117	Z	.696	.696	0 %100
93	M118	X	0	0	0 %100
94	M118	Z	.858	.858	0 %100
95	M119	X	0	0	0 %100
96	M119	Z	.858	.858	0 %100
97	M125	X	0	0	0 %100
98	M125	Z	.174	.174	0 %100
99	M126	X	0	0	0 %100
100	M126	Z	.856	.856	0 %100
101	M127	X	0	0	0 %100
102	M127	Z	.485	.485	0 %100
103	M133	X	0	0	0 %100
104	M133	Z	.174	.174	0 %100
105	M134	X	0	0	0 %100
106	M134	Z	.485	.485	0 %100
107	M135	X	0	0	0 %100
108	M135	Z	.856	.856	0 %100
109	M134A	X	0	0	0 %100
110	M134A	Z	1.694	1.694	0 %100
111	M135A	X	0	0	0 %100
112	M135A	Z	.969	.969	0 %100
113	M136	X	0	0	0 %100
114	M136	Z	.969	.969	0 %100
115	M130A	X	0	0	0 %100
116	M130A	Z	.423	.423	0 %100
117	M131A	X	0	0	0 %100
118	M131A	Z	.242	.242	0 %100
119	M132A	X	0	0	0 %100
120	M132A	Z	.242	.242	0 %100
121	M134B	X	0	0	0 %100
122	M134B	Z	.423	.423	0 %100



Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	0	0	0	%100
124	M135B	Z	.242	.242	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	.242	.242	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.318	-.318	0	%100
2	M1	Z	.551	.551	0	%100
3	M2	X	-.242	-.242	0	%100
4	M2	Z	.42	.42	0	%100
5	M3	X	-.318	-.318	0	%100
6	M3	Z	.551	.551	0	%100
7	M4	X	-.242	-.242	0	%100
8	M4	Z	.42	.42	0	%100
9	M5	X	0	0	0	%100
10	M5	Z	0	0	0	%100
11	M6	X	-.969	-.969	0	%100
12	M6	Z	1.678	1.678	0	%100
13	M7	X	-.379	-.379	0	%100
14	M7	Z	.657	.657	0	%100
15	M13	X	0	0	0	%100
16	M13	Z	0	0	0	%100
17	M14	X	-.265	-.265	0	%100
18	M14	Z	.459	.459	0	%100
19	M21	X	0	0	0	%100
20	M21	Z	0	0	0	%100
21	M27	X	-.265	-.265	0	%100
22	M27	Z	.459	.459	0	%100
23	M28	X	-.265	-.265	0	%100
24	M28	Z	.459	.459	0	%100
25	M35	X	-.379	-.379	0	%100
26	M35	Z	.657	.657	0	%100
27	M41	X	-.265	-.265	0	%100
28	M41	Z	.459	.459	0	%100
29	M42	X	0	0	0	%100
30	M42	Z	0	0	0	%100
31	M48	X	-.002	-.002	0	%100
32	M48	Z	.003	.003	0	%100
33	M49	X	-.281	-.281	0	%100
34	M49	Z	.486	.486	0	%100
35	M53	X	-.281	-.281	0	%100
36	M53	Z	.486	.486	0	%100
37	M54	X	-.002	-.002	0	%100
38	M54	Z	.003	.003	0	%100
39	M59	X	-.325	-.325	0	%100
40	M59	Z	.563	.563	0	%100
41	M60	X	-.325	-.325	0	%100
42	M60	Z	.563	.563	0	%100
43	M62	X	-.104	-.104	0	%100
44	M62	Z	.18	.18	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M64	X	-.104	-.104	0	%100
46	M64	Z	.18	.18	0	%100
47	M66	X	-.417	-.417	0	%100
48	M66	Z	.722	.722	0	%100
49	MP1A	X	-.288	-.288	0	%100
50	MP1A	Z	.498	.498	0	%100
51	MP2A	X	-.288	-.288	0	%100
52	MP2A	Z	.498	.498	0	%100
53	MP4A	X	-.288	-.288	0	%100
54	MP4A	Z	.498	.498	0	%100
55	MP5A	X	-.288	-.288	0	%100
56	MP5A	Z	.498	.498	0	%100
57	MP1C	X	-.288	-.288	0	%100
58	MP1C	Z	.498	.498	0	%100
59	MP2C	X	-.288	-.288	0	%100
60	MP2C	Z	.498	.498	0	%100
61	MP4C	X	-.288	-.288	0	%100
62	MP4C	Z	.498	.498	0	%100
63	MP5C	X	-.288	-.288	0	%100
64	MP5C	Z	.498	.498	0	%100
65	MP1B	X	-.288	-.288	0	%100
66	MP1B	Z	.498	.498	0	%100
67	MP2B	X	-.288	-.288	0	%100
68	MP2B	Z	.498	.498	0	%100
69	MP4B	X	-.288	-.288	0	%100
70	MP4B	Z	.498	.498	0	%100
71	MP5B	X	-.288	-.288	0	%100
72	MP5B	Z	.498	.498	0	%100
73	MP3A	X	-.348	-.348	0	%100
74	MP3A	Z	.603	.603	0	%100
75	MP3C	X	-.348	-.348	0	%100
76	MP3C	Z	.603	.603	0	%100
77	MP3B	X	-.348	-.348	0	%100
78	MP3B	Z	.603	.603	0	%100
79	M100	X	-.261	-.261	0	%100
80	M100	Z	.452	.452	0	%100
81	M101	X	-.261	-.261	0	%100
82	M101	Z	.452	.452	0	%100
83	M102	X	0	0	0	%100
84	M102	Z	0	0	0	%100
85	M105	X	-.283	-.283	0	%100
86	M105	Z	.49	.49	0	%100
87	M108	X	0	0	0	%100
88	M108	Z	0	0	0	%100
89	M111	X	-.283	-.283	0	%100
90	M111	Z	.49	.49	0	%100
91	M117	X	-.261	-.261	0	%100
92	M117	Z	.452	.452	0	%100
93	M118	X	-.305	-.305	0	%100
94	M118	Z	.528	.528	0	%100
95	M119	X	-.491	-.491	0	%100
96	M119	Z	.85	.85	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	-.261	-.261	0	%100
98	M125	Z	.452	.452	0	%100
99	M126	X	-.491	-.491	0	%100
100	M126	Z	.85	.85	0	%100
101	M127	X	-.305	-.305	0	%100
102	M127	Z	.528	.528	0	%100
103	M133	X	0	0	0	%100
104	M133	Z	0	0	0	%100
105	M134	X	-.304	-.304	0	%100
106	M134	Z	.526	.526	0	%100
107	M135	X	-.304	-.304	0	%100
108	M135	Z	.526	.526	0	%100
109	M134A	X	-.635	-.635	0	%100
110	M134A	Z	1.1	1.1	0	%100
111	M135A	X	-.363	-.363	0	%100
112	M135A	Z	.629	.629	0	%100
113	M136	X	-.363	-.363	0	%100
114	M136	Z	.629	.629	0	%100
115	M130A	X	-.635	-.635	0	%100
116	M130A	Z	1.1	1.1	0	%100
117	M131A	X	-.363	-.363	0	%100
118	M131A	Z	.629	.629	0	%100
119	M132A	X	-.363	-.363	0	%100
120	M132A	Z	.629	.629	0	%100
121	M134B	X	0	0	0	%100
122	M134B	Z	0	0	0	%100
123	M135B	X	0	0	0	%100
124	M135B	Z	0	0	0	%100
125	M136A	X	0	0	0	%100
126	M136A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.184	-.184	0	%100
2	M1	Z	.106	.106	0	%100
3	M2	X	-1.259	-1.259	0	%100
4	M2	Z	.727	.727	0	%100
5	M3	X	-.734	-.734	0	%100
6	M3	Z	.424	.424	0	%100
7	M4	X	0	0	0	%100
8	M4	Z	0	0	0	%100
9	M5	X	-.184	-.184	0	%100
10	M5	Z	.106	.106	0	%100
11	M6	X	-1.259	-1.259	0	%100
12	M6	Z	.727	.727	0	%100
13	M7	X	-.876	-.876	0	%100
14	M7	Z	.506	.506	0	%100
15	M13	X	-.153	-.153	0	%100
16	M13	Z	.088	.088	0	%100
17	M14	X	-.153	-.153	0	%100
18	M14	Z	.088	.088	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M21	X	-.219	-.219	0	%100
20	M21	Z	.126	.126	0	%100
21	M27	X	-.153	-.153	0	%100
22	M27	Z	.088	.088	0	%100
23	M28	X	-.612	-.612	0	%100
24	M28	Z	.353	.353	0	%100
25	M35	X	-.219	-.219	0	%100
26	M35	Z	.126	.126	0	%100
27	M41	X	-.612	-.612	0	%100
28	M41	Z	.353	.353	0	%100
29	M42	X	-.153	-.153	0	%100
30	M42	Z	.088	.088	0	%100
31	M48	X	-.215	-.215	0	%100
32	M48	Z	.124	.124	0	%100
33	M49	X	-.699	-.699	0	%100
34	M49	Z	.403	.403	0	%100
35	M53	X	-.138	-.138	0	%100
36	M53	Z	.08	.08	0	%100
37	M54	X	-.138	-.138	0	%100
38	M54	Z	.08	.08	0	%100
39	M59	X	-.699	-.699	0	%100
40	M59	Z	.403	.403	0	%100
41	M60	X	-.215	-.215	0	%100
42	M60	Z	.124	.124	0	%100
43	M62	X	-.541	-.541	0	%100
44	M62	Z	.312	.312	0	%100
45	M64	X	0	0	0	%100
46	M64	Z	0	0	0	%100
47	M66	X	-.541	-.541	0	%100
48	M66	Z	.312	.312	0	%100
49	MP1A	X	-.498	-.498	0	%100
50	MP1A	Z	.288	.288	0	%100
51	MP2A	X	-.498	-.498	0	%100
52	MP2A	Z	.288	.288	0	%100
53	MP4A	X	-.498	-.498	0	%100
54	MP4A	Z	.288	.288	0	%100
55	MP5A	X	-.498	-.498	0	%100
56	MP5A	Z	.288	.288	0	%100
57	MP1C	X	-.498	-.498	0	%100
58	MP1C	Z	.288	.288	0	%100
59	MP2C	X	-.498	-.498	0	%100
60	MP2C	Z	.288	.288	0	%100
61	MP4C	X	-.498	-.498	0	%100
62	MP4C	Z	.288	.288	0	%100
63	MP5C	X	-.498	-.498	0	%100
64	MP5C	Z	.288	.288	0	%100
65	MP1B	X	-.498	-.498	0	%100
66	MP1B	Z	.288	.288	0	%100
67	MP2B	X	-.498	-.498	0	%100
68	MP2B	Z	.288	.288	0	%100
69	MP4B	X	-.498	-.498	0	%100
70	MP4B	Z	.288	.288	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
71	MP5B	X	-.498	-.498	0 %100
72	MP5B	Z	.288	.288	0 %100
73	MP3A	X	-.603	-.603	0 %100
74	MP3A	Z	.348	.348	0 %100
75	MP3C	X	-.603	-.603	0 %100
76	MP3C	Z	.348	.348	0 %100
77	MP3B	X	-.603	-.603	0 %100
78	MP3B	Z	.348	.348	0 %100
79	M100	X	-.151	-.151	0 %100
80	M100	Z	.087	.087	0 %100
81	M101	X	-.603	-.603	0 %100
82	M101	Z	.348	.348	0 %100
83	M102	X	-.151	-.151	0 %100
84	M102	Z	.087	.087	0 %100
85	M105	X	-.653	-.653	0 %100
86	M105	Z	.377	.377	0 %100
87	M108	X	-.163	-.163	0 %100
88	M108	Z	.094	.094	0 %100
89	M111	X	-.163	-.163	0 %100
90	M111	Z	.094	.094	0 %100
91	M117	X	-.151	-.151	0 %100
92	M117	Z	.087	.087	0 %100
93	M118	X	-.42	-.42	0 %100
94	M118	Z	.242	.242	0 %100
95	M119	X	-.741	-.741	0 %100
96	M119	Z	.428	.428	0 %100
97	M125	X	-.603	-.603	0 %100
98	M125	Z	.348	.348	0 %100
99	M126	X	-.743	-.743	0 %100
100	M126	Z	.429	.429	0 %100
101	M127	X	-.743	-.743	0 %100
102	M127	Z	.429	.429	0 %100
103	M133	X	-.151	-.151	0 %100
104	M133	Z	.087	.087	0 %100
105	M134	X	-.741	-.741	0 %100
106	M134	Z	.428	.428	0 %100
107	M135	X	-.42	-.42	0 %100
108	M135	Z	.242	.242	0 %100
109	M134A	X	-.367	-.367	0 %100
110	M134A	Z	.212	.212	0 %100
111	M135A	X	-.21	-.21	0 %100
112	M135A	Z	.121	.121	0 %100
113	M136	X	-.21	-.21	0 %100
114	M136	Z	.121	.121	0 %100
115	M130A	X	-1.467	-1.467	0 %100
116	M130A	Z	.847	.847	0 %100
117	M131A	X	-.839	-.839	0 %100
118	M131A	Z	.484	.484	0 %100
119	M132A	X	-.839	-.839	0 %100
120	M132A	Z	.484	.484	0 %100
121	M134B	X	-.367	-.367	0 %100
122	M134B	Z	.212	.212	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
123	M135B	X	-.21	-.21	0 %100
124	M135B	Z	.121	.121	0 %100
125	M136A	X	-.21	-.21	0 %100
126	M136A	Z	.121	.121	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M2	X	-1.938	-1.938	0 %100
4	M2	Z	0	0	0 %100
5	M3	X	-.636	-.636	0 %100
6	M3	Z	0	0	0 %100
7	M4	X	-.484	-.484	0 %100
8	M4	Z	0	0	0 %100
9	M5	X	-.636	-.636	0 %100
10	M5	Z	0	0	0 %100
11	M6	X	-.484	-.484	0 %100
12	M6	Z	0	0	0 %100
13	M7	X	-.759	-.759	0 %100
14	M7	Z	0	0	0 %100
15	M13	X	-.53	-.53	0 %100
16	M13	Z	0	0	0 %100
17	M14	X	0	0	0 %100
18	M14	Z	0	0	0 %100
19	M21	X	-.759	-.759	0 %100
20	M21	Z	0	0	0 %100
21	M27	X	0	0	0 %100
22	M27	Z	0	0	0 %100
23	M28	X	-.53	-.53	0 %100
24	M28	Z	0	0	0 %100
25	M35	X	0	0	0 %100
26	M35	Z	0	0	0 %100
27	M41	X	-.53	-.53	0 %100
28	M41	Z	0	0	0 %100
29	M42	X	-.53	-.53	0 %100
30	M42	Z	0	0	0 %100
31	M48	X	-.651	-.651	0 %100
32	M48	Z	0	0	0 %100
33	M49	X	-.651	-.651	0 %100
34	M49	Z	0	0	0 %100
35	M53	X	-.003	-.003	0 %100
36	M53	Z	0	0	0 %100
37	M54	X	-.561	-.561	0 %100
38	M54	Z	0	0	0 %100
39	M59	X	-.561	-.561	0 %100
40	M59	Z	0	0	0 %100
41	M60	X	-.003	-.003	0 %100
42	M60	Z	0	0	0 %100
43	M62	X	-.833	-.833	0 %100
44	M62	Z	0	0	0 %100







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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
71	MP5B	X	-.498	-.498	0 %100
72	MP5B	Z	-.288	-.288	0 %100
73	MP3A	X	-.603	-.603	0 %100
74	MP3A	Z	-.348	-.348	0 %100
75	MP3C	X	-.603	-.603	0 %100
76	MP3C	Z	-.348	-.348	0 %100
77	MP3B	X	-.603	-.603	0 %100
78	MP3B	Z	-.348	-.348	0 %100
79	M100	X	-.151	-.151	0 %100
80	M100	Z	-.087	-.087	0 %100
81	M101	X	-.151	-.151	0 %100
82	M101	Z	-.087	-.087	0 %100
83	M102	X	-.603	-.603	0 %100
84	M102	Z	-.348	-.348	0 %100
85	M105	X	-.163	-.163	0 %100
86	M105	Z	-.094	-.094	0 %100
87	M108	X	-.653	-.653	0 %100
88	M108	Z	-.377	-.377	0 %100
89	M111	X	-.163	-.163	0 %100
90	M111	Z	-.094	-.094	0 %100
91	M117	X	-.151	-.151	0 %100
92	M117	Z	-.087	-.087	0 %100
93	M118	X	-.741	-.741	0 %100
94	M118	Z	-.428	-.428	0 %100
95	M119	X	-.42	-.42	0 %100
96	M119	Z	-.242	-.242	0 %100
97	M125	X	-.151	-.151	0 %100
98	M125	Z	-.087	-.087	0 %100
99	M126	X	-.42	-.42	0 %100
100	M126	Z	-.242	-.242	0 %100
101	M127	X	-.741	-.741	0 %100
102	M127	Z	-.428	-.428	0 %100
103	M133	X	-.603	-.603	0 %100
104	M133	Z	-.348	-.348	0 %100
105	M134	X	-.743	-.743	0 %100
106	M134	Z	-.429	-.429	0 %100
107	M135	X	-.743	-.743	0 %100
108	M135	Z	-.429	-.429	0 %100
109	M134A	X	-.367	-.367	0 %100
110	M134A	Z	-.212	-.212	0 %100
111	M135A	X	-.21	-.21	0 %100
112	M135A	Z	-.121	-.121	0 %100
113	M136	X	-.21	-.21	0 %100
114	M136	Z	-.121	-.121	0 %100
115	M130A	X	-.367	-.367	0 %100
116	M130A	Z	-.212	-.212	0 %100
117	M131A	X	-.21	-.21	0 %100
118	M131A	Z	-.121	-.121	0 %100
119	M132A	X	-.21	-.21	0 %100
120	M132A	Z	-.121	-.121	0 %100
121	M134B	X	-1.467	-1.467	0 %100
122	M134B	Z	-.847	-.847	0 %100





Company : Maser Consulting  
 Designer :  
 Job Number :  
 Model Name : 468601-VZW\_MT\_LO\_H

Apr 23, 2021  
 3:50 PM  
 Checked By: \_\_\_\_\_

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	M64	X	-.417	-.417	0 %100
46	M64	Z	-.722	-.722	0 %100
47	M66	X	-.104	-.104	0 %100
48	M66	Z	-.18	-.18	0 %100
49	MP1A	X	-.288	-.288	0 %100
50	MP1A	Z	-.498	-.498	0 %100
51	MP2A	X	-.288	-.288	0 %100
52	MP2A	Z	-.498	-.498	0 %100
53	MP4A	X	-.288	-.288	0 %100
54	MP4A	Z	-.498	-.498	0 %100
55	MP5A	X	-.288	-.288	0 %100
56	MP5A	Z	-.498	-.498	0 %100
57	MP1C	X	-.288	-.288	0 %100
58	MP1C	Z	-.498	-.498	0 %100
59	MP2C	X	-.288	-.288	0 %100
60	MP2C	Z	-.498	-.498	0 %100
61	MP4C	X	-.288	-.288	0 %100
62	MP4C	Z	-.498	-.498	0 %100
63	MP5C	X	-.288	-.288	0 %100
64	MP5C	Z	-.498	-.498	0 %100
65	MP1B	X	-.288	-.288	0 %100
66	MP1B	Z	-.498	-.498	0 %100
67	MP2B	X	-.288	-.288	0 %100
68	MP2B	Z	-.498	-.498	0 %100
69	MP4B	X	-.288	-.288	0 %100
70	MP4B	Z	-.498	-.498	0 %100
71	MP5B	X	-.288	-.288	0 %100
72	MP5B	Z	-.498	-.498	0 %100
73	MP3A	X	-.348	-.348	0 %100
74	MP3A	Z	-.603	-.603	0 %100
75	MP3C	X	-.348	-.348	0 %100
76	MP3C	Z	-.603	-.603	0 %100
77	MP3B	X	-.348	-.348	0 %100
78	MP3B	Z	-.603	-.603	0 %100
79	M100	X	-.261	-.261	0 %100
80	M100	Z	-.452	-.452	0 %100
81	M101	X	0	0	0 %100
82	M101	Z	0	0	0 %100
83	M102	X	-.261	-.261	0 %100
84	M102	Z	-.452	-.452	0 %100
85	M105	X	0	0	0 %100
86	M105	Z	0	0	0 %100
87	M108	X	-.283	-.283	0 %100
88	M108	Z	-.49	-.49	0 %100
89	M111	X	-.283	-.283	0 %100
90	M111	Z	-.49	-.49	0 %100
91	M117	X	-.261	-.261	0 %100
92	M117	Z	-.452	-.452	0 %100
93	M118	X	-.491	-.491	0 %100
94	M118	Z	-.85	-.85	0 %100
95	M119	X	-.305	-.305	0 %100
96	M119	Z	-.528	-.528	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
97	M125	X	0	0	0	%100
98	M125	Z	0	0	0	%100
99	M126	X	-.304	-.304	0	%100
100	M126	Z	-.526	-.526	0	%100
101	M127	X	-.304	-.304	0	%100
102	M127	Z	-.526	-.526	0	%100
103	M133	X	-.261	-.261	0	%100
104	M133	Z	-.452	-.452	0	%100
105	M134	X	-.305	-.305	0	%100
106	M134	Z	-.528	-.528	0	%100
107	M135	X	-.491	-.491	0	%100
108	M135	Z	-.85	-.85	0	%100
109	M134A	X	-.635	-.635	0	%100
110	M134A	Z	-1.1	-1.1	0	%100
111	M135A	X	-.363	-.363	0	%100
112	M135A	Z	-.629	-.629	0	%100
113	M136	X	-.363	-.363	0	%100
114	M136	Z	-.629	-.629	0	%100
115	M130A	X	0	0	0	%100
116	M130A	Z	0	0	0	%100
117	M131A	X	0	0	0	%100
118	M131A	Z	0	0	0	%100
119	M132A	X	0	0	0	%100
120	M132A	Z	0	0	0	%100
121	M134B	X	-.635	-.635	0	%100
122	M134B	Z	-1.1	-1.1	0	%100
123	M135B	X	-.363	-.363	0	%100
124	M135B	Z	-.629	-.629	0	%100
125	M136A	X	-.363	-.363	0	%100
126	M136A	Z	-.629	-.629	0	%100

**Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M13	Y	-2.763	-4.935	0	.729
2	M13	Y	-4.935	-6.685	.729	1.458
3	M13	Y	-6.685	-6.073	1.458	2.187
4	M13	Y	-6.073	-3.519	2.187	2.917
5	M14	Y	-3.898	-7.015	0	.972
6	M14	Y	-7.015	-6.341	.972	1.944
7	M14	Y	-6.341	-1.878	1.944	2.917
8	M41	Y	-3.896	-7.012	0	.972
9	M41	Y	-7.012	-6.341	.972	1.944
10	M41	Y	-6.341	-1.883	1.944	2.917
11	M42	Y	-2.764	-4.936	0	.729
12	M42	Y	-4.936	-6.686	.729	1.458
13	M42	Y	-6.686	-6.073	1.458	2.188
14	M42	Y	-6.073	-3.52	2.188	2.917
15	M27	Y	-3.894	-7.012	0	.972
16	M27	Y	-7.012	-6.342	.972	1.944
17	M27	Y	-6.342	-1.883	1.944	2.917
18	M28	Y	-2.769	-4.936	0	.729





**Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
19	M28	Y	-4.936	-6.684	.729	1.458
20	M28	Y	-6.684	-6.072	1.458	2.187
21	M28	Y	-6.072	-3.519	2.187	2.917

**Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M13	Y	-5.242	-9.363	0	.729
2	M13	Y	-9.363	-12.683	.729	1.458
3	M13	Y	-12.683	-11.521	1.458	2.187
4	M13	Y	-11.521	-6.676	2.187	2.917
5	M14	Y	-7.395	-13.308	0	.972
6	M14	Y	-13.308	-12.03	.972	1.944
7	M14	Y	-12.03	-3.563	1.944	2.917
8	M41	Y	-7.387	-13.307	0	.972
9	M41	Y	-13.307	-12.034	.972	1.944
10	M41	Y	-12.034	-3.568	1.944	2.917
11	M42	Y	-5.251	-9.361	0	.729
12	M42	Y	-9.361	-12.68	.729	1.458
13	M42	Y	-12.68	-11.521	1.458	2.188
14	M42	Y	-11.521	-6.674	2.188	2.917
15	M27	Y	-7.386	-13.303	0	.972
16	M27	Y	-13.303	-12.032	.972	1.944
17	M27	Y	-12.032	-3.573	1.944	2.917
18	M28	Y	-5.252	-9.363	0	.729
19	M28	Y	-9.363	-12.681	.729	1.458
20	M28	Y	-12.681	-11.52	1.458	2.187
21	M28	Y	-11.52	-6.676	2.187	2.917

**Member Area Loads (BLC 39 : Structure D)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N33	N32	N31	N30	Y	Two Way	-.005
2	N99	N98	N101	N100	Y	Two Way	-.005
3	N64	N67	N66	N65	Y	Two Way	-.005

**Member Area Loads (BLC 40 : Structure Di)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N33	N32	N31	N30	Y	Two Way	-.01
2	N99	N100	N101	N98	Y	Two Way	-.01
3	N64	N67	N66	N65	Y	Two Way	-.01

**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	N69	max	1846.519	10	458.83	13	2135.238	1	.838	13	1.868	4	.03	6
2		min	-1869.301	4	189.798	7	-2778.956	7	-.112	7	-1.85	10	-.037	12
3	N73A	max	1892.768	10	465.274	21	2190.31	1	.084	3	2.182	12	.088	3
4		min	-2442.769	4	174.923	2	-1877.628	7	-.444	9	-2.196	6	-.739	21
5	N77	max	2504.898	10	476.715	17	2107.404	1	.065	11	2.25	8	.776	17
6		min	-1984.822	4	178.591	12	-1841.521	7	-.441	17	-2.225	2	-.092	11



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

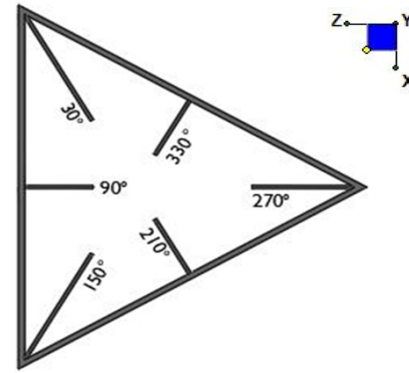
Member	Shape	Code C...	Loc[ft]	LC	Shear ...	Loc[ft]	Dir	LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y...	phi*Mn z...	Cb	Eqn	
38	MP3C	PIPE 2.5	.185	3	9	.059	3.75	12	37773.818	50715	3.596	3.596	1...	H1-1b	
39	MP3B	PIPE 2.5	.182	3	5	.059	3.75	8	37773.818	50715	3.596	3.596	1...	H1-1b	
40	M100	PIPE 2.5	.084	10.026	9	.072	11.589	1	14558.792	50715	3.596	3.596	2...	H1-1b	
41	M101	PIPE 2.5	.065	1.042	1	.043	11.589	9	14558.792	50715	3.596	3.596	1...	H1-1b	
42	M102	PIPE 2.5	.057	6.12	2	.047	11.589	6	14558.792	50715	3.596	3.596	1...	H1-1b	
43	M105	L3X3X4	.102	.884	5	.044	0	z	6	45854.692	46656	1.688	3.756	2...	H2-1
44	M108	L3X3X4	.119	.884	1	.050	0	z	2	45854.692	46656	1.688	3.756	2...	H2-1
45	M111	L3X3X4	.081	.884	9	.031	0	z	10	45854.692	46656	1.688	3.756	2...	H2-1
46	M117	PIPE 2.5	.125	3.255	22	.073	9.375	20	14558.792	50715	3.596	3.596	1...	H1-1b	
47	M118	L2.5x2.5x4	.116	2.38	19	.007	0	z	12	17832.752	38556	1.114	2.263	1...	H2-1
48	M119	L2.5x2.5x4	.120	2.38	19	.006	0	y	2	17832.752	38556	1.114	2.263	1...	H2-1
49	M125	PIPE 2.5	.120	3.255	18	.061	9.375	16	14558.792	50715	3.596	3.596	1...	H1-1b	
50	M126	L2.5x2.5x4	.111	2.38	15	.005	4.861	z	8	17832.759	38556	1.114	2.263	1...	H2-1
51	M127	L2.5x2.5x4	.106	2.38	15	.004	0	y	10	17830.743	38556	1.114	2.263	1...	H2-1
52	M133	PIPE 2.5	.113	3.255	14	.063	9.375	24	14558.792	50715	3.596	3.596	1...	H1-1b	
53	M134	L2.5x2.5x4	.107	2.38	23	.004	0	z	4	17830.743	38556	1.114	2.263	1...	H2-1
54	M135	L2.5x2.5x4	.107	2.38	23	.005	0	y	6	17832.759	38556	1.114	2.263	1...	H2-1
55	M134A	L7x4x4	.554	1.742	6	.047	1.742	y	6	54385.298	87075	1.802	6.519	1	H2-1
56	M135A	PL1/4x4	.446	0	2	.073	.167	y	7	27560.929	32400	.169	2.7	1...	H1-1b
57	M136	PL1/4x4	.396	0	6	.305	0	y	12	27561.624	32400	.169	2.7	1...	H1-1b
58	M130A	L7x4x4	.543	1.742	2	.045	1.742	y	2	54385.298	87075	1.802	6.519	1	H2-1
59	M131A	PL1/4x4	.442	0	10	.071	.333	y	3	27560.929	32400	.169	2.7	1...	H1-1b
60	M132A	PL1/4x4	.384	0	2	.297	0	y	8	27561.624	32400	.169	2.7	1...	H1-1b
61	M134B	L7x4x4	.526	1.742	12	.046	1.778	y	10	54385.298	87075	1.802	6.519	1	H2-1
62	M135B	PL1/4x4	.453	0	6	.073	.167	y	10	27560.929	32400	.169	2.7	1...	H1-1b
63	M136A	PL1/4x4	.382	0	10	.307	0	y	5	27561.624	32400	.169	2.7	1...	H1-1b



## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N73A	30
N69	270
N77	150



TYPICAL PLATFORM

### Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

$d_x$  (in) (Delta X of typ. bolt config. sketch):

$d_y$  (in) (Delta Y of typ. bolt config. sketch):

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

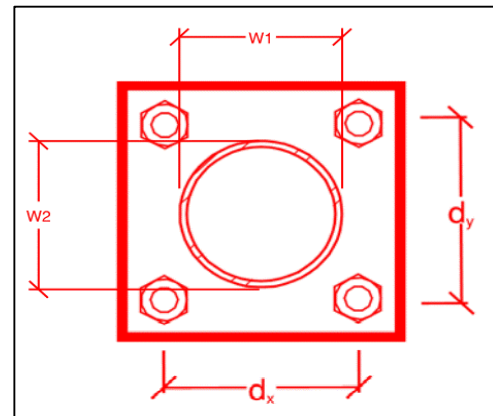
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
6.5
6.5
A325N
0.625
8.8
2.2
20.7
12.4
10.6%*
4.4%



\*Note: Tension reduction not required if tension or shear capacity < 30%

### Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:

Plate Width (in):

Plate Height (in):

W1 (in):

W2 (in):

Fy (ksi, plate):

$t_{plate}$  (in):

Weld Size (1/16 in):

$\Phi \cdot R_n$  (kip/in):

Required Weld Strength (kip/in):

Plate Bending Capacity:

Weld Capacity:

Rect
10
10
4
4
36
0.625
3
4.18
1.31
19.9%
31.4%

### Max Plate Bending Strengths

$M_{u_{xx}}$ (kip-in):	0.9
$\Phi \cdot M_{n_{xx}}$ (kip-in):	31.6
$M_{u_{yy}}$ (kip-in):	5.4
$\Phi \cdot M_{n_{yy}}$ (kip-in):	31.6

# Mount Desktop – Post Modification Inspection (PMI) Report Requirements

## Documents & Photos Required from Contractor – Mount Modification

---

**Purpose** – to provide Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 Maser Consulting Connecticut.
  - 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 Maser Consulting Connecticut 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 Maser Consulting Connecticut 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 Maser Consulting Connecticut certification, invoices, or specifications validating accepted status

Certifying Individual: Company \_\_\_\_\_

Name \_\_\_\_\_

Signature \_\_\_\_\_

**Antenna & equipment placement and Geometry Confirmation:**

- The contractor must certify that the antenna & equipment placement and geometry is in accordance with the antenna placement diagrams as included in this mount analysis.
- The contractor certifies that the photos support and the equipment on the mount is as depicted on the antenna placement diagrams as included in this mount analysis.
- The contractor notes that the equipment on the mount is not in accordance with the antenna placement diagrams and has accordingly marked up the diagrams or provided a diagram outlining the differences.


















Certifying Individual:	Company	_____
	Name	_____
	Signature	_____

**Special Instructions / Validation as required from the MA or Mod Drawings:**

**Issue:**  
\_\_\_\_\_

**Response:**  
\_\_\_\_\_

## 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



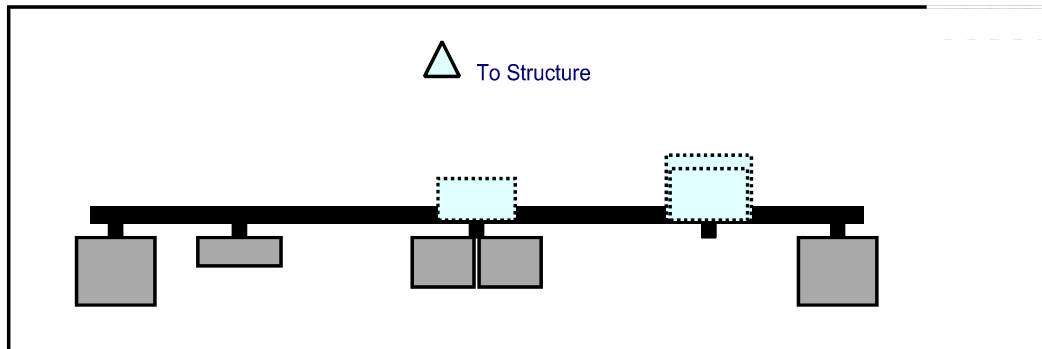
Sector: **A**  
 Structure Type: Monopole  
 Mount Elev: 97.00

4/23/2021

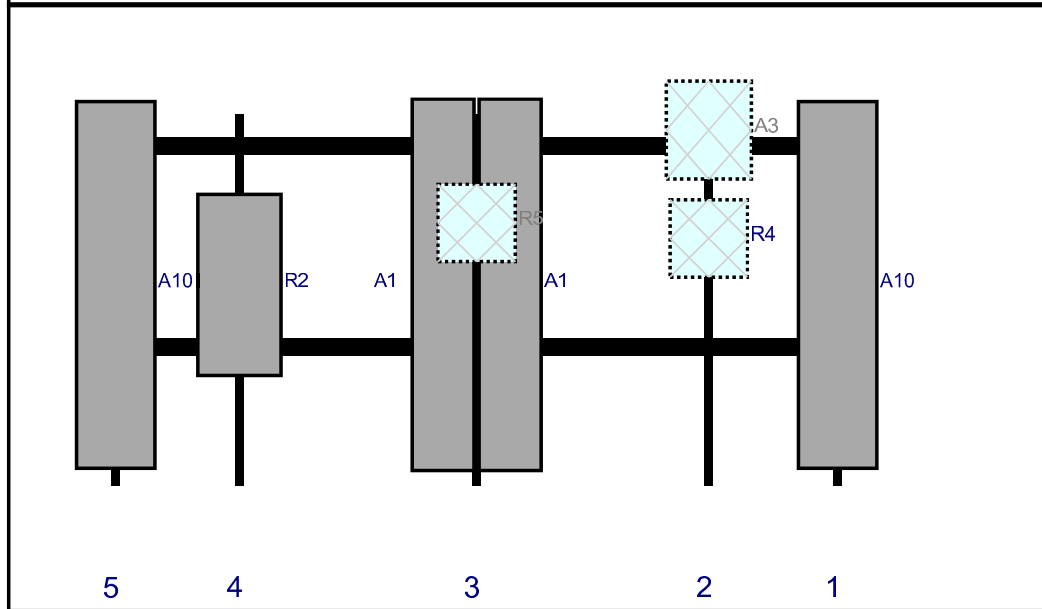
Page: 1



Plan View

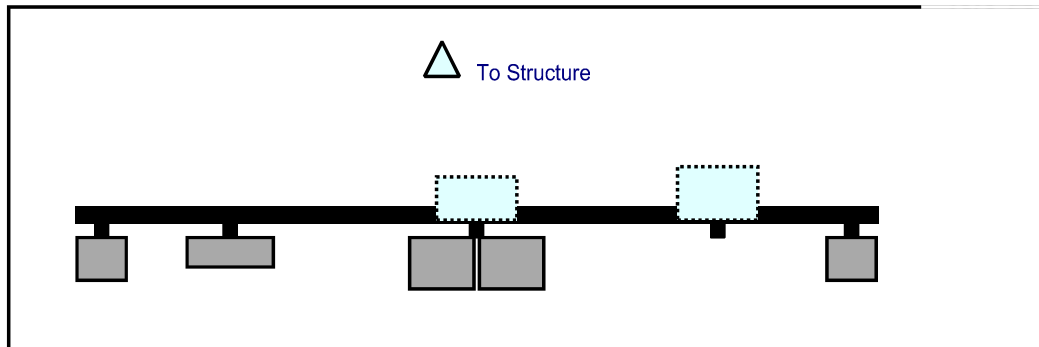


Front View  
Looking at Structure

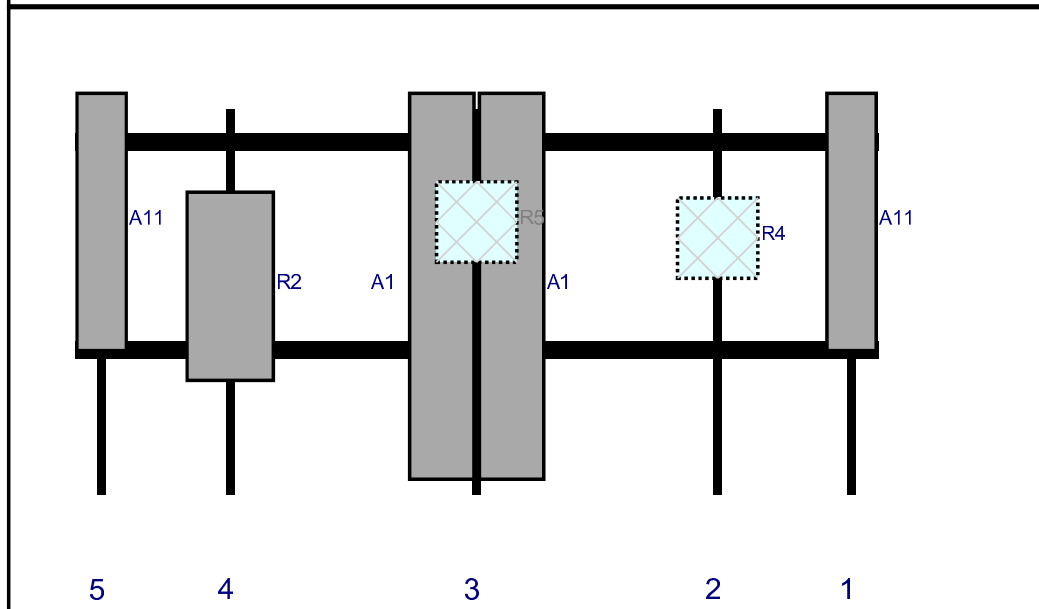


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A10	LPA-80063-6CF-EDIN-X	71.1	15.2	145	1	a	Front	33	0	Retained	02/25/2021
A3	RRODC-6627-PF-48	19	16.5	120	2	a	Behind	3	0	Added	
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	120	2	a	Behind	24	0	Added	
A1	QS6656-5	72	12	75	3	a	Front	33	6.5	Added	
A1	QS6656-5	72	12	75	3	b	Front	33	-6.5	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	75	3	a	Behind	21	0	Added	
R2	MT6407-77A	35.1	16.1	29	4	a	Front	33	0	Added	
A10	LPA-80063-6CF-EDIN-X	71.1	15.2	5	5	a	Front	33	0	Retained	02/25/2021

Plan View

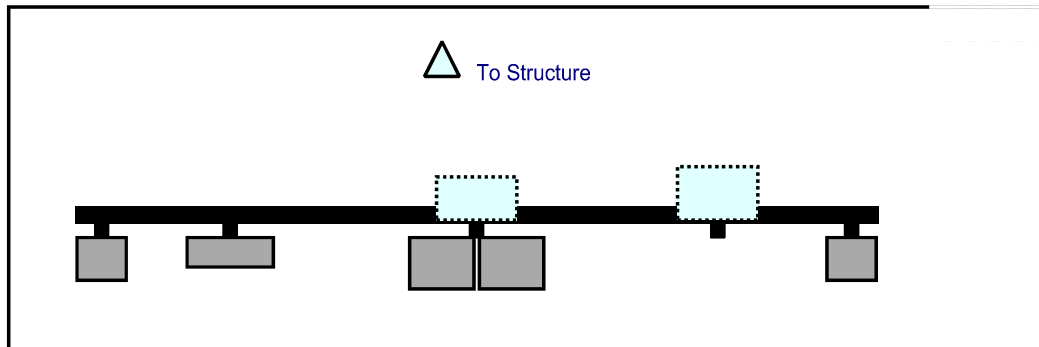


Front View  
Looking at Structure

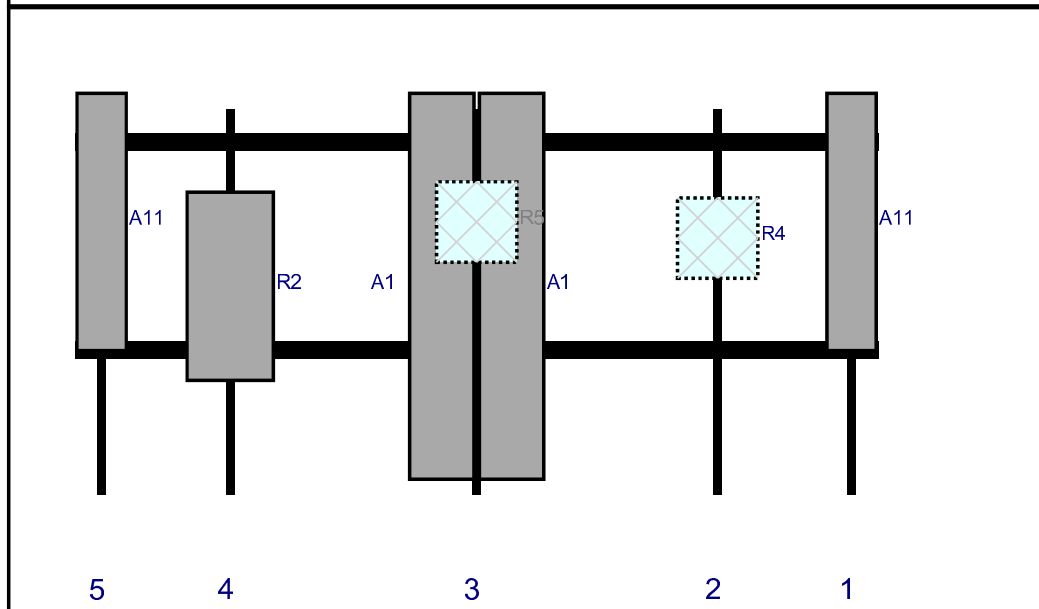


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	QS6656-5	72	12	75	3	a	Front	33	6.5	Added	
A1	QS6656-5	72	12	75	3	b	Front	33	-6.5	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	75	3	a	Behind	21	0	Added	
R2	MT6407-77A	35.1	16.1	29	4	a	Front	33	0	Added	
A11	APL866513	48	9.2	5	5	c	Front	21	0	Retained	02/25/2021
A11	APL866513	48	9.2	145	1	a	Front	21	0	Retained	02/25/2021
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	120	2	a	Behind	24	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
A11	APL866513	48	9.2	145	1	a	Front	21	0	Retained	02/25/2021
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	120	2	a	Behind	24	0	Added	
A1	QS6656-5	72	12	75	3	a	Front	33	6.5	Added	
A1	QS6656-5	72	12	75	3	b	Front	33	-6.5	Added	
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	75	3	a	Behind	21	0	Added	
R2	MT6407-77A	35.1	16.1	29	4	a	Front	33	0	Added	
A11	APL866513	48	9.2	5	5	a	Front	21	0	Retained	02/25/2021

# Maser Consulting Connecticut

**Subject**

TIA-222-H Usage

**Site Information**Site ID: 468601-VZW / MONROE  
EAST CT

Site Name: MONROE EAST CT

Carrier Name: Verizon Wireless

Address:

500 Moose Hill Rd

Monroe, Connecticut 06468

Fairfield County

Latitude: 41.32096667°

Longitude: -73.20142222°

**Structure Information**

Tower Type: Monopole

Mount Type: 12.50-Ft Platform

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 2018 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,



Digitally signed by Justin Linette  
Date: 2021.04.28 16:30:08-04'00'

Justin Linette, PE

Sr. Technical Manager

# PROJECT NOTES

- SEE MODIFICATION NOTES
- THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES AND REGULATIONS OF ALL APPLICABLE JURISDICTIONS, UTILITIES COMPANIES OR OTHER PUBLIC-GOVERNING AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
- THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES OR STRUCTURES AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IMMEDIATELY IN WRITING OF ANY ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
- SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF RADIO FREQUENCY ENERGY. THE CONTRACTOR SHALL SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RE EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
- NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
- THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).



## MOUNT MODIFICATION DRAWINGS EXISTING 12.50' PLATFORM

**SITE NAME: MONROE EAST CT  
SITE NUMBER: 468601**

**500 MOOSE HILL RD  
MONROE, CT 06468  
FAIRFIELD COUNTY**

PROJECT INFORMATION	
<b>SITE INFORMATION</b>	
LATITUDE:	41.330846627° N
LONGITUDE:	73.301422727° W
JURISDICTION:	FAIRFIELD COUNTY
<b>APPLICANT/LESEE</b>	
COMPANY:	VERIZON WIRELESS
<b>CLIENT REPRESENTATIVE</b>	
COMPANY:	VERIZON WIRELESS
ADDRESS:	500 MOOSE HILL RD, THIRD FLOOR
CITY, STATE, ZIP:	WESTBOROUGH, MA 01581
CONTACT:	ANDREW CANDELLO
EMAIL:	ANDREW.CANDELLO@VERIZONWIRELESS.COM
<b>PROJECT MANAGER</b>	
COMPANY:	MASER CONSULTING CONNECTICUT
CONTACT:	PETER ALBANO
PHONE:	(858) 797-9412
EMAIL:	PETER.ALBANO@COLLIERENGINEERING.COM

SHEET INDEX	
SHEET	DESCRIPTION
T-1	TITLE SHEET
S-1	BILL OF MATERIALS
S-2	MODIFICATION NOTES
S-3	MODIFICATION NOTES
S-4	MODIFICATION DETAILS
S-5	MODIFICATION DETAILS
S-6	MOUNT PHOTOS
	SPECIFICATION SHEETS

CONTRACTOR PMI REQUIREMENTS	
PMI LOCATION:	HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #:	10061126
VZW LOCATION CODE (PLC):	468601
FUZE ID:	2468310

REFERENCED DOCUMENTS	
SMART TOOL PROJECT #:	10037927
MASER CONSULTING PROJECT #:	21777105A
ANALYSIS DATE:	3/30/2021

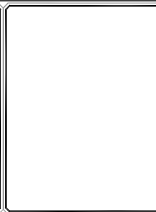
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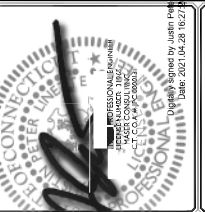
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0		ISSUE FOR CONSTRUCTION		



**SITE NAME:**  
MONROE EAST CT  
468601

500 MOOSE HILL RD  
MONROE CT 06468  
FAIRFIELD COUNTY



TITLE SHEET  
T-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION

**BILL OF MATERIALS**

VZWSMART KITS			
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION
1		VZWSMART-PLKI	SUPPORT RAIL KIT
18		VZWSMART-MSKI	CROSSOVER PLATE
	VZWSH4RT		
OTHER REQUIRED PARTS			NOTES
QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION
3	-	-	15" LONG P2.5 STD PIPE
1	SITE PRO 1	PRK-SFS	HANDBAIL REINFORCEMENT KIT
			GALVANIZED
			OR EOR APPROVED EQUAL CONTACT HASER CONSULTING FOR APPROVAL OF SUBSTITUTION.

**NOTE: ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR**

**VZWSMART KITS - APPROVED VENDORS**

<b>COMMSCOPE</b> CONTACT SALVADOR ANGUIANO PHONE (817) 306-7492 EMAIL SALVADOR.ANGUIANO@COMMSCOPE.COM WEBSITE WWW.COMMSCOPE.COM	
<b>METROSITE FABRICATORS, LLC</b> CONTACT KENT RAMEY PHONE (766) 335-7645 (O), (706) 982-9788 (M) EMAIL KENT@METROSITELLC.COM WEBSITE METROSITEFABRICATORS.COM	
<b>PERFECTVISION</b> CONTACT WIRELESS SALES PHONE (841) 887-6723 EMAIL WWW.PERFECTVISION.COM WEBSITE WIRELESSALES@PERFECTVISION.COM	
<b>SABRE INDUSTRIES, INC.</b> CONTACT ANGIE WELCH PHONE (866) 428-6937 EMAIL AKWELCH@SABREINDUSTRIES.COM WEBSITE WWW.SABRESITESOLUTIONS.COM	
<b>SITE PRO 1</b> CONTACT PAULA BOSWELL PHONE (972) 236-9843 EMAIL PAULA.BOSWELL@VALMONT.COM WEBSITE WWW.SITEPRO1.COM	

**NOTE: WHEN SPECIFIED, VZWSMART KITS SHALL BE REQUIRED AND WILL BE VERIFIED DURING THE DESKTOP PMI**

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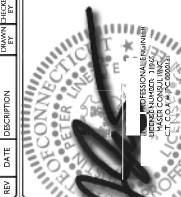
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This document is a digital signature by Justin Knight  
 Date: 2021.04.28 16:27:10-0400  
 STATE OF CONNECTICUT  
 PROFESSIONAL ENGINEER

**SITE NAME:**  
 MONROE EAST CT  
 468601  
 500 MOOSE HILL RD  
 MONROE CT 06468  
 FAIRFIELD COUNTY

MASON  
 1000 Main Street  
 Westborough, MA 01581  
 Phone: 815.297.8125  
 Fax: 815.292.1100

**BILL OF MATERIALS**

**GENERAL NOTES**

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES, ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO COLLISIONS BEING REPAIRED BY THE CONTRACTOR'S SERVICE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL, AND PREPARING SHOP DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS, INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANS/ITIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANS/ITIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS WINDS LESS THAN 30(MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING BRACING AND ANY OTHERS STRUCTURAL HANDLING AND ERECTION TO THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANS/ITIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ALL MATERIALS TO BE USED FOR CONNECTIONS TO EXISTING STRUCTURES AND ENGINEER IN WRITING.
15. THE POINT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

**DESIGN LOADS**

- WIND LOADS
- a. BASIC WIND SPEED (3 SECOND GUST),  $V = 118$  MPH
  - b. EXPOSURE CATEGORY C
  - c. TOPOGRAPHIC CATEGORY I
  - d. MEAN BASE ELEVATION (AMSL) = 622.96'
- ICE LOADS
- a. ICE WIND SPEED (3 SECOND GUST),  $V = 90$  MPH
  - b. ICE THICKNESS = 1.00 IN
- SEISMIC LOADS
- a. SEISMIC DESIGN CATEGORY B
  - b. SHORT TERM MCEER GROUND MOTION,  $S_s = 208$
  - c. LONG TERM MCEER GROUND MOTION,  $S_1 = 054$

**PROTECT STEEL BY ANY OTHER MEANS.**

14. ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

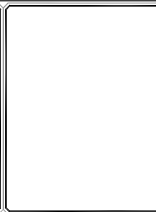
**STRUCTURAL STEEL**

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
  - a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
  - b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
  - c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:
  - CHANNELS, ANGLES, PLATES, ETC. ASTM A36 (R3)
  - STEEL PIPE ASTM A53 (R3)
  - BOLTS ASTM A325
  - WASHERS AND LOCK WASHERS LOCKING STRUCTURAL GRADE
3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REINFORCEMENT, SHALL BE NOTED IN THE SUBMITTED SHOP DRAWINGS WITH THE SUBSTITUTION. REASONABLE COSTS OF SUCH SUBSTITUTIONS SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
  - a. SUBMIT SHOP DRAWINGS TO PETER.ALBANO@COLLIERSENGINEERING.COM
  - b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
9. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
10. FOR MEMBERS BEING REPLACED, PROVIDE NUTS, BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
11. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH TO PERMIT THE BOLT TO BE FULLY ENGAGED WITH THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
12. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
13. ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO

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Date: 2023.04.28 16:22:00  
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**SITE NAME:**  
MONROE EAST CT  
468601

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MONROE CT 06468  
FAIRFIELD COUNTY

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**MODIFICATION NOTES**

SEE SHEET: \_\_\_\_\_

SEE SHEET: \_\_\_\_\_

**MODIFICATION INSPECTION NOTES**

MI CHECKLIST	
CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
X	PRE-CONSTRUCTION
X	MI CHECKLIST DRAWING
X	EOA APPROVED SHOP DRAWINGS
NA	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
X	MATERIAL TEST REPORT (MTR)
NA	FABRICATOR NDE INSPECTION
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
	CONSTRUCTION
X	CONSTRUCTION INSPECTIONS
NA	CONTRACTOR'S CERTIFIED WELD INSPECTION AND NDE REPORTS
X	ON SITE COLD GALVANIZING VERIFICATION
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
	POST-CONSTRUCTION
X	MI INSPECTOR REDLINE OR RECORD DRAWING(S)
X	VZV PMI DOCUMENTS
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT REQUIRED FOR THE MI REPORT  
 NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE MI REPORT

THE MODIFICATION INSPECTION (MI) IS A VISUAL INSPECTION OF MODIFICATIONS AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS COMPLETED AS SHOWN ON THE ORIGINAL MI DRAWINGS AND AS SHOWN ON THE MODIFICATION DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN. THE MI INSPECTOR TAKE A REVIEW OF THE MODIFICATION DESIGN, BUT DOES NOT TAKE RESPONSIBILITY FOR THE DESIGN. THE MI INSPECTOR SHALL VERIFY THE MODIFICATION DESIGN EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

TO ENSURE THAT THE REQUIREMENTS OF THE MI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR COORDINATE AND COMMUNICATE AS SOON AS A PURCHASE ORDER (PO) IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY.

**MI INSPECTOR**

THE MI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE MI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE INSPECTIONS
- THE MI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE MI REPORT TO EOR.

**GENERAL CONTRACTOR**

THE GC IS REQUIRED TO CONTACT THE MI INSPECTOR AS SOON AS RECEIVING A PO FOR THE MODIFICATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE MI CHECKLIST
- WORK WITH THE MI INSPECTOR TO DEVELOP A SCHEDULE TO CONDUCT ON-SITE MI INSPECTIONS, INCLUDING FOUNDATION INSPECTIONS
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS
- THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE MI CHECKLIST.

**RECOMMENDATIONS**

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENT AND EFFECTIVENESS OF DELIVERING AN MI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE MI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE MI TO BE CONDUCTED.
- THE MI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE TENSIONING OR RE-TENSIONING OPERATIONS. IT MAY BE BENEFICIAL TO INSTALL ALL MODIFICATIONS PRIOR TO CONDUCTING THE INSPECTIONS.
- WHEN POSSIBLE IT IS PREFERRED TO ALLOW THE FOUNDATION AND MI INSPECTIONS TO COMMENCE WITH ON-SITE VISIT.
- WHEN POSSIBLE IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON-SITE.

**CORRECTION OF FAILING MIs**

IF THE MODIFICATION INSTALLATION WOULD FAIL THE MI ("FAILED MI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REBEDIATION PLAN:

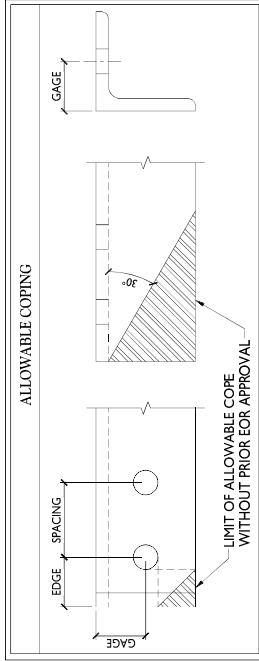
- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT MI.

**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:

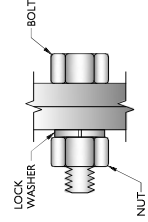
- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ERECTION
- RAW MATERIALS
- PHOTOS OF ALL CRITICAL DETAILS
- FOUNDATION MODIFICATIONS
- FOUNDATION MODIFICATION
- BOLT INSTALLATION
- FINAL INSTALLED CONDITION
- SURFACE COATING REPAIR
- POST CONSTRUCTION PHOTOGRAPHS
- FINAL IN-FIELD CONDITION

PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE.



BOLT SCHEDULE (IN.)				
BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 1 1/16	7/8	1 1/2
5/8	1 1/16	1 1/16 x 7/8	1 1/8	1 7/8
3/4	1 3/16	1 3/16 x 1	1 1/4	2 1/4
7/8	1 5/16	1 5/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)		
LEG	GAGE	
4	2 1/2	
3 1/2	2	
3	1 3/4	
2 1/2	1 3/8	
2	1 1/8	



TYP. BOLT ASSEMBLY

- NOTES:**
- ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE ASC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SPACINGS AND NOTIFY ENGINEER IF DIMENSIONS ARE LESS THAN THOSE PROVIDED.
  - THE DIMENSIONS PROVIDED ARE MINIMUM DIMENSIONS. ALL DIMENSIONS OF PROPOSED MEMBERS WITHIN THESE DRAWINGS MAY VARY FROM THE ASC MINIMUM REQUIREMENTS.
  - SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS.
  - MATCH EXISTING GAGES WHEN APPLICABLE. UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.

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CONNECTICUT  
 REGISTERED PROFESSIONAL ENGINEER  
 JOHN B. LUDWIG  
 License No. 10000  
 Date: 2021.04.28 18:27:40  
 Digitally signed by John B. Ludwig  
 DN: cn=John B. Ludwig, o=MASER CONSULTING ENGINEERS, ou=MASER CONSULTING ENGINEERS, email=j.ludwig@maser.com

SITE NAME:  
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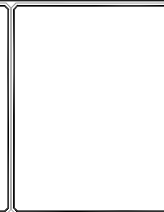
MODIFICATION NOTES  
 S-3



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PROJECT: 177710A

NO.	AS SHOWN	DATE	DESCRIPTION	BY	CHECKED	DATE
0			ISSUE FOR PERMITS			
1			REVISION			

PROFESSIONAL ENGINEER  
 JUSTIN CAMPBELL  
 STATE OF CONNECTICUT  
 NO. 2001-048, 18-27

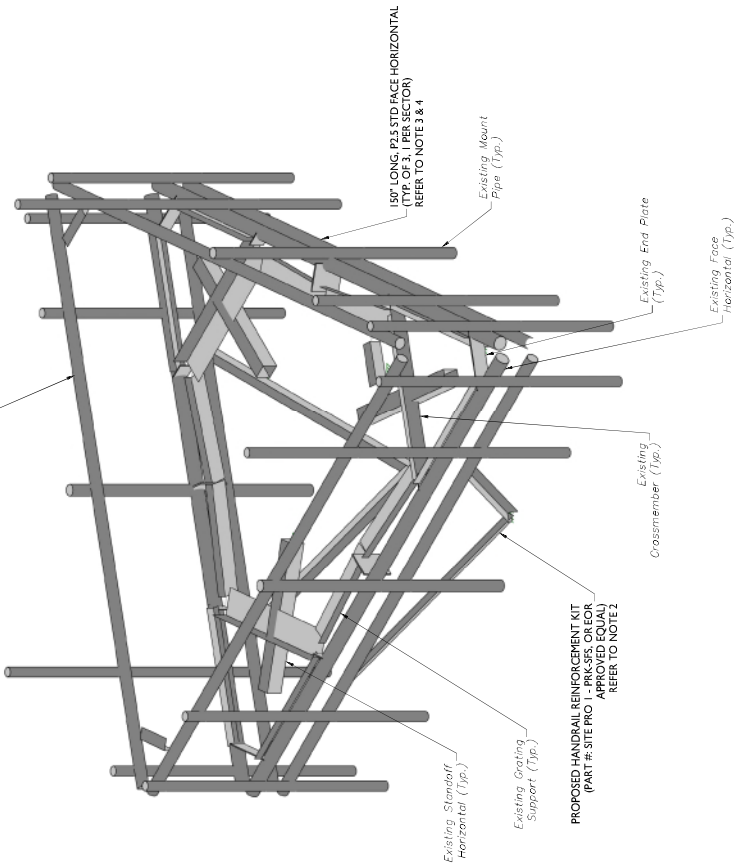
DATE: 2021.04.28 18:27  
 Digitally signed by Justin Campbell  
 DN: cn=Justin Campbell, o=MASER, ou=Engineering, email=jcampbell@maser.com, c=US

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 500 MOOSE HILL RD  
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 FAIRFIELD COUNTY

MODIFICATION DETAILS

DATE: 2021.04.28 18:27  
 S-4

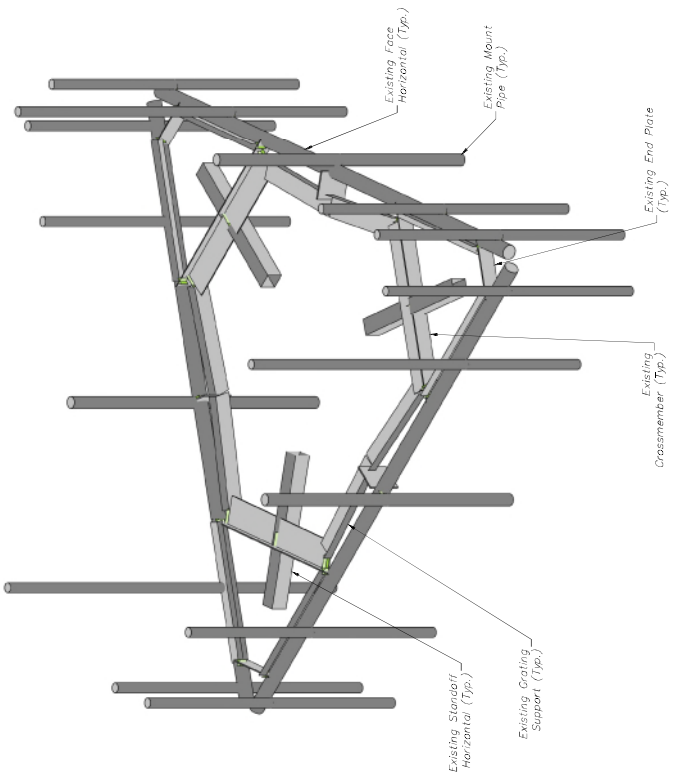
PROPOSED SUPPORT RAIL KIT  
 (PART # ZVWSMART-MSK1)  
 REFER TO NOTE 2, 3 & 5



18" LONG, PL&ST DENCE HORIZONTAL  
 (TYP. OF 3, 1 PER SECTOR)  
 REFER TO NOTE 3 & 4

2 PROPOSED PLATFORM ISOMETRIC VIEW  
 SCALE: N.T.S.

- MODIFICATION NOTES:**
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
  - CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE STRUCTURAL STEEL NOTES ON SHEET S-2.
  - RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
  - CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART # ZVWSMART-MSK1).
  - CONNECT SUPPORT RAIL TO ADDITIONAL MOUNT PIPES WITH CROSSOVER PLATES (PART # ZVWSMART-MSK1).



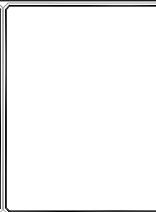
1 EXISTING PLATFORM ISOMETRIC VIEW  
 SCALE: N.T.S.

- STRUCTURAL NOTES:**
- PER THE MOUNT MAPPING COMPLETED BY STRUCTURAL COMPONENTS, LLC ON 2/25/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (95'-6") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
  - INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE CLIMBING FACILITY. SAFETY CLIMB OR ANY SYSTEM INSTALLED ON THE STRUCTURE, TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

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1		ISSUED FOR CONSTRUCTION		



DATE: 2021.04.28 19:27  
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 DRAWING NO.: 2177100A

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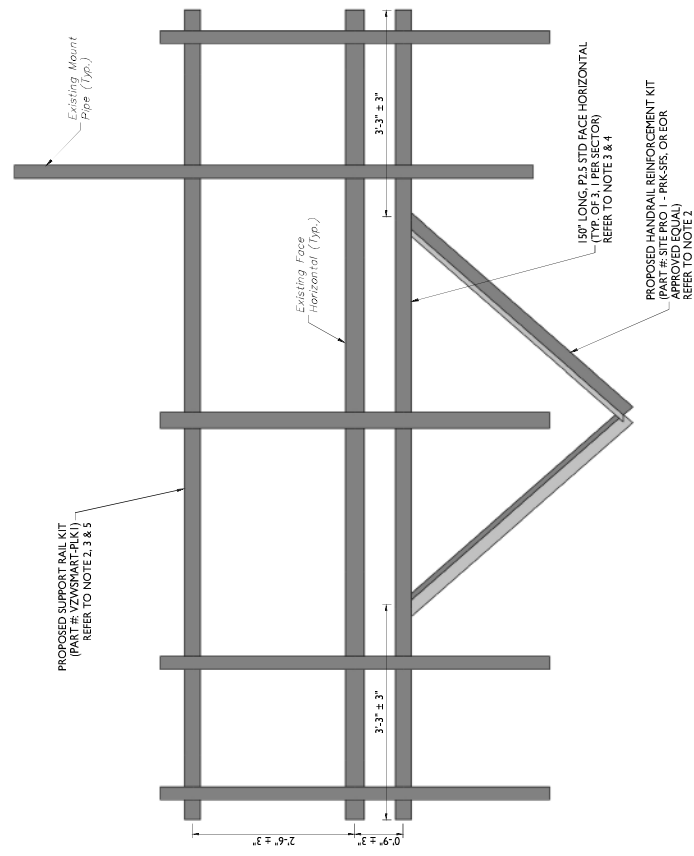
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**MODIFICATION DETAILS**

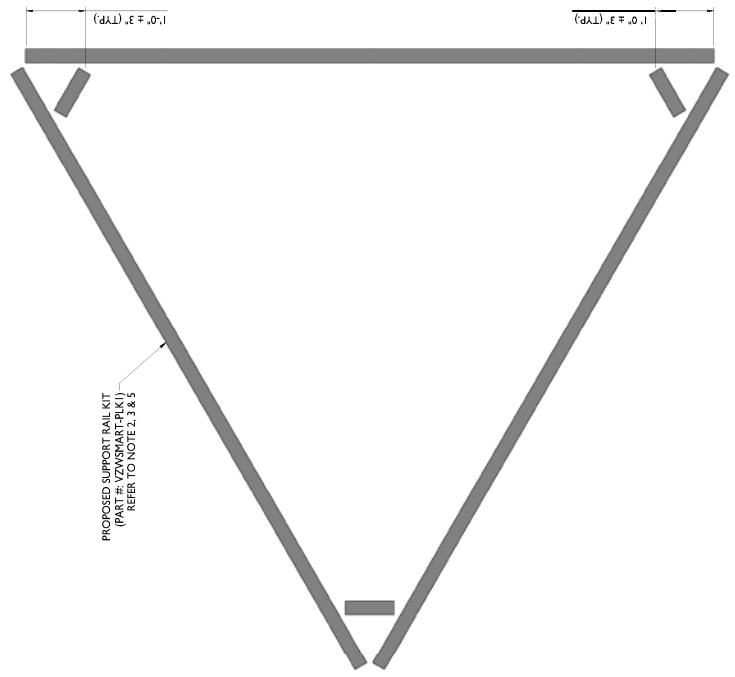
DATE: 11/11/2021

BY: S-5



**1** PROPOSED FRONT ELEVATION (TYP. ALL SECTORS)  
 SCALE: N.T.S.

- MODIFICATION NOTES:**
- MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.
  - CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET S-2.
  - RADIO AND/OR THE POSITIONS SHALL BE ADJUSTED VERTICALLY AS NEEDED IN ORDER TO ACHIEVE INSTALLATION OF HORIZONTAL AS SHOWN. EOR SHALL BE NOTIFIED IF EQUIPMENT NEEDS TO BE RELOCATED TO ANOTHER MOUNT PIPE.
  - CONNECT NEW HORIZONTAL TO ALL EXISTING VERTICAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).
  - CONNECT SUPPORT RAIL TO ADDITIONAL MOUNT PIPES WITH CROSSOVER PLATES (PART #: VZWSMART-MSK1).

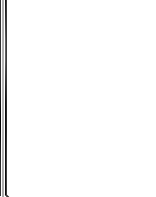


**2** PROPOSED PLAN VIEW  
 SCALE: N.T.S.

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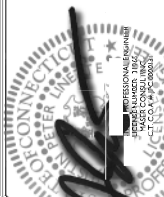


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0		ISSUE FOR CONSTRUCTION	JAC	JAC



Digitally signed by Justin Knight  
 Date: 2012.04.28 16:27:44 -0400

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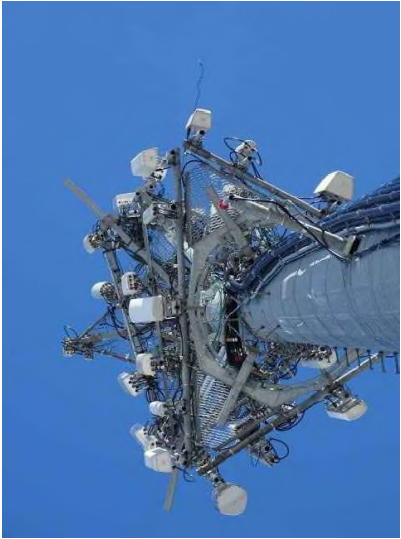
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**MOUNT PHOTOS**

S-6



MOUNT PHOTO 2



MOUNT PHOTO 4



MOUNT PHOTO 1

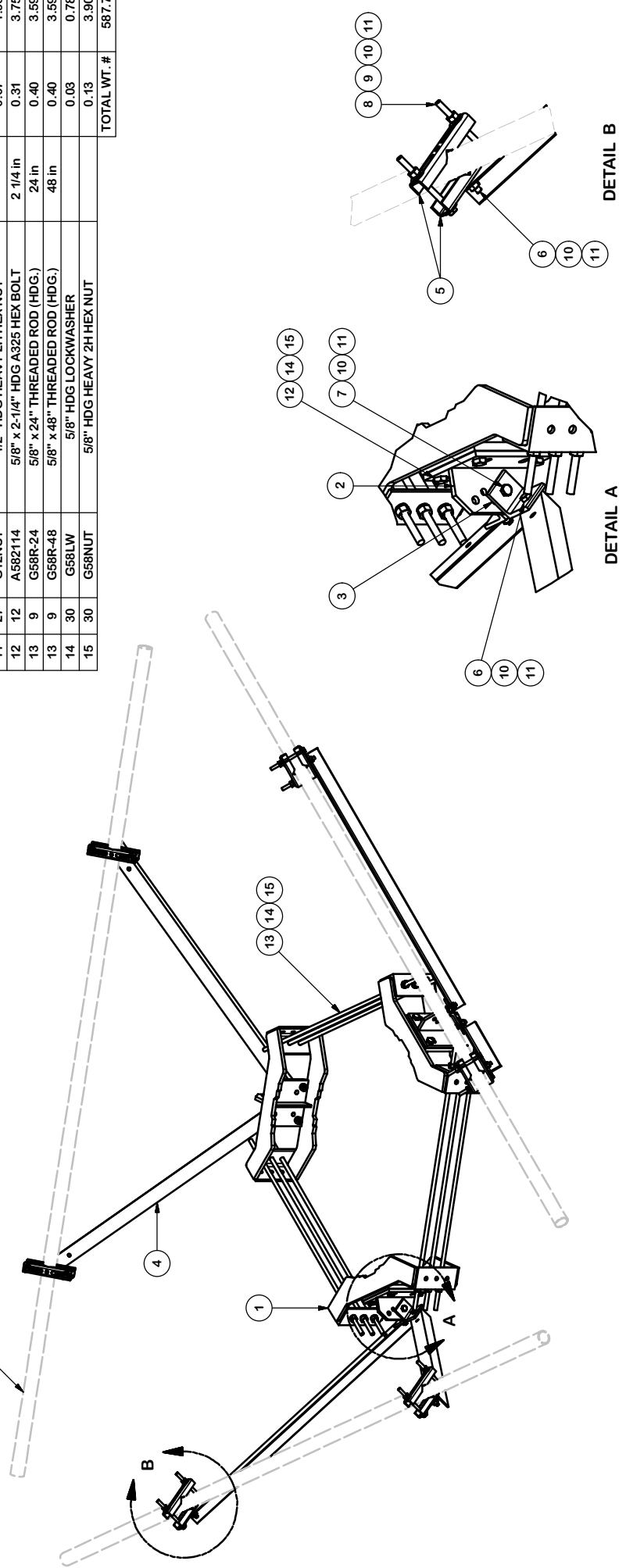


MOUNT PHOTO 3

PARTS LIST

ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	3	X-LWRM	RING MOUNT WELDMENT		68.81	206.42
2	3	X-TBW	T-BRACKET WELDMENT		13.60	40.80
3	6	SHCM-T	CHAIN MOUNT TIGHTENER BRACKET	3 in	1.86	11.15
4	6	X-232697	TRPD-HD DIAGONAL ANGLE - SITE PRO 1	52 1/2 in	14.35	86.08
5	12	X-STU	STIFF ARM CHANNEL BRACKET	8 1/2 in	1.37	16.46
6	12	G12112	1/2" x 1-1/2" HDG HEX BOLT GR5	1/2 in	0.15	1.77
7	3	G12212	1/2" x 2-1/2" HDG HEX BOLT GR5	2 1/2 in	0.20	0.61
8	12	G12065	1/2" x 6-1/2" HDG HEX BOLT GR5 FULL THREAD	6 1/2 in	0.41	4.91
9	24	G12FW	1/2" HDG USS FLATWASHER	3/32 in	0.03	0.82
10	27	G12LW	1/2" HDG LOCKWASHER	1/8 in	0.01	0.38
11	27	G12NUT	1/2" HDG HEAVY 2H HEX NUT	1.93	0.07	1.93
12	12	A582114	5/8" x 2-1/4" HDG A325 HEX BOLT	2 1/4 in	0.31	3.75
13	9	G58R-24	5/8" x 24" THREADED ROD (HDG.)	24 in	0.40	3.59
13	9	G58R-48	5/8" x 48" THREADED ROD (HDG.)	48 in	0.40	3.59
14	30	G58LW	5/8" HDG LOCKWASHER		0.03	0.78
15	30	G58NUT	5/8" HDG HEAVY 2H HEX NUT		0.13	3.90
					TOTAL WT. #	567.71

EXISTING HANDRAIL SHOWN FOR CLAIRITY



TOLERANCE NOTES

TOLERANCES ON DIMENSIONS, UNLESS OTHERWISE NOTED ARE:  
 SAWED, SHEARED AND GAS CUT EDGES (± 0.030")  
 DRILLED AND GAS CUT HOLES (± 0.030") - NO CONING OF HOLES  
 LASER CUT EDGES AND HOLES (± 0.010") - NO CONING OF HOLES  
 BENDS ARE ± 1/2 DEGREE  
 ALL OTHER MACHINING (± 0.030")  
 ALL OTHER ASSEMBLY (± 0.060")

PROPRIETARY NOTE: DIMENSIONS CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRICTLY PROHIBITED.

DESCRIPTION

HANDRAIL REINFORCEMENT KIT

CPD NO.	SP1	DRAWN BY	CSL3	2/23/2017	ENG. APPROVAL	3RD PARTY
CLASS	81	SUB	02	SHOP	CHECKED BY	BMC
			3/16/2017		3/16/2017	

Locations:

- New York, NY
- Atlanta, GA
- Los Angeles, CA
- Plymouth, IN
- Rock Hill, SC
- Dallas, TX



Engineering  
 Support Team:  
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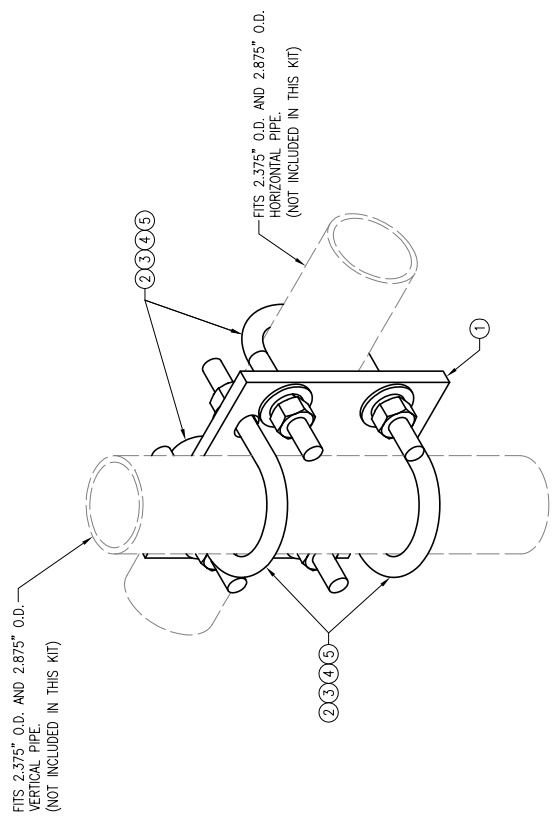
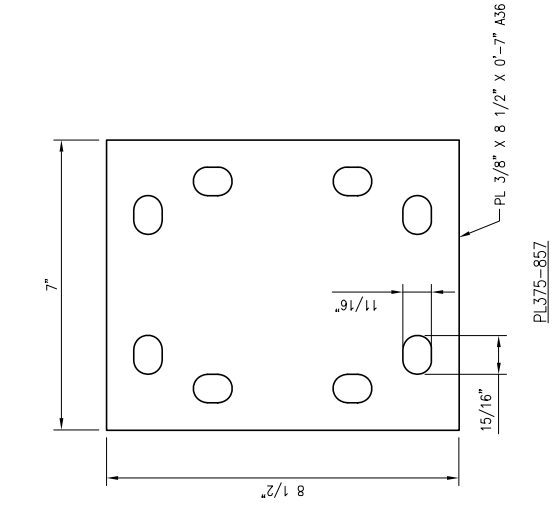
PAGE	1 OF 3
PART NO.	PRK-SFS
DWG. NO.	PRK-SFS

CHANGED MAX. DIA. FOR HANDRAIL CONNECTION	SP1	BC	10/23/2017
DESCRIPTION OF REVISIONS	CPD	BY	DATE
REVISION HISTORY			

REV	DESCRIPTION	CHECKED BY: HMA
Δ	FIRST ISSUE	BY DATE
Δ		J.R. 05/09/20
Δ		
Δ		
Δ		

SHEET TITLE:	
VZWSMART-MSK1	MSK1-F1
CROSSOVER PLATE	RBC-1
	---
	---
	---

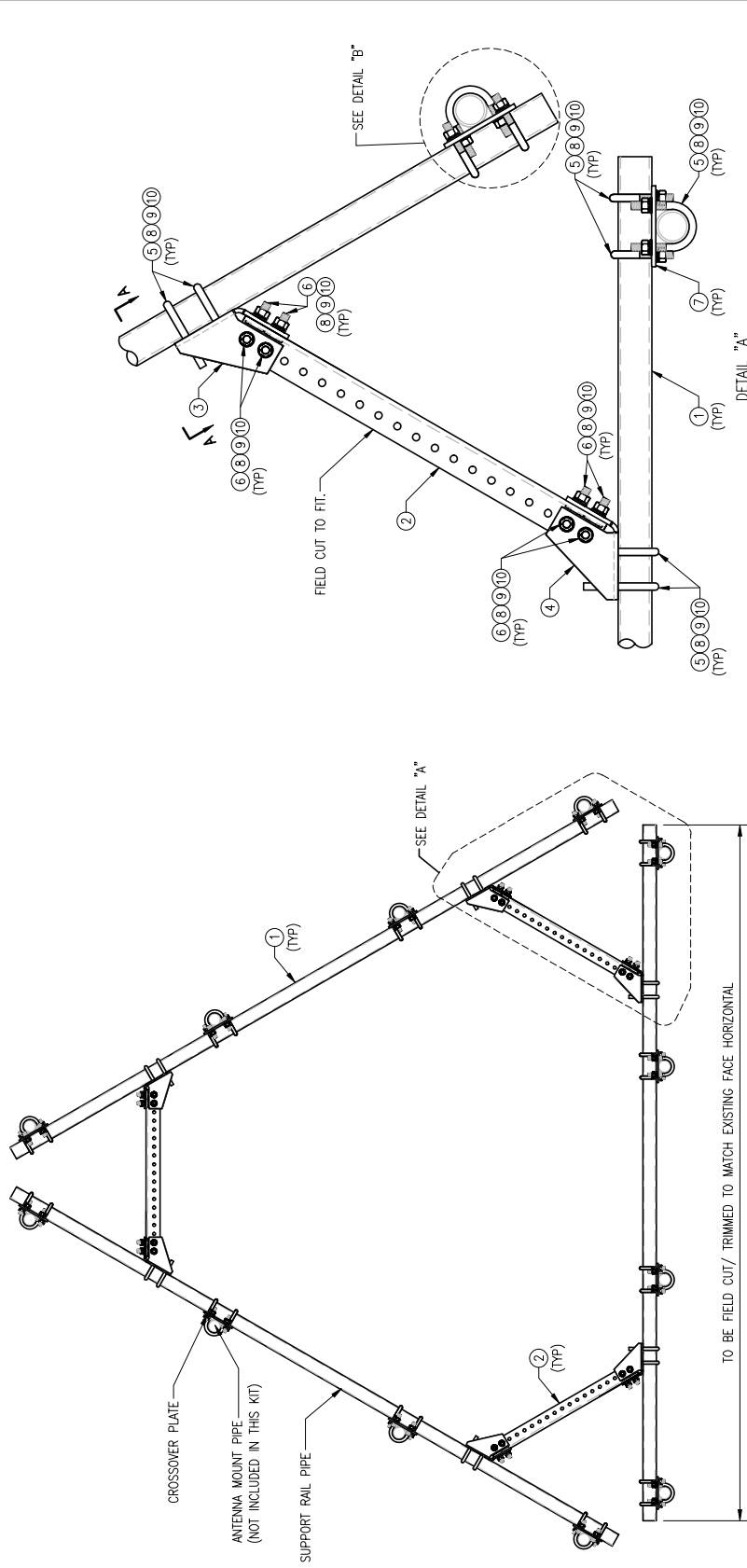
SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



VZWSMART-MSK1 (CROSSOVER PLATE)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MS92-625-300-500	RU-BOLT 5/8" X 3" LW. X 5" LL. A36 (OR EQUIV.)	RBC-1	5
3	8	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	8	LW-625	5/8" HDG LOCK WASHER	---	0
5	8	NUIT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED	WT 14

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

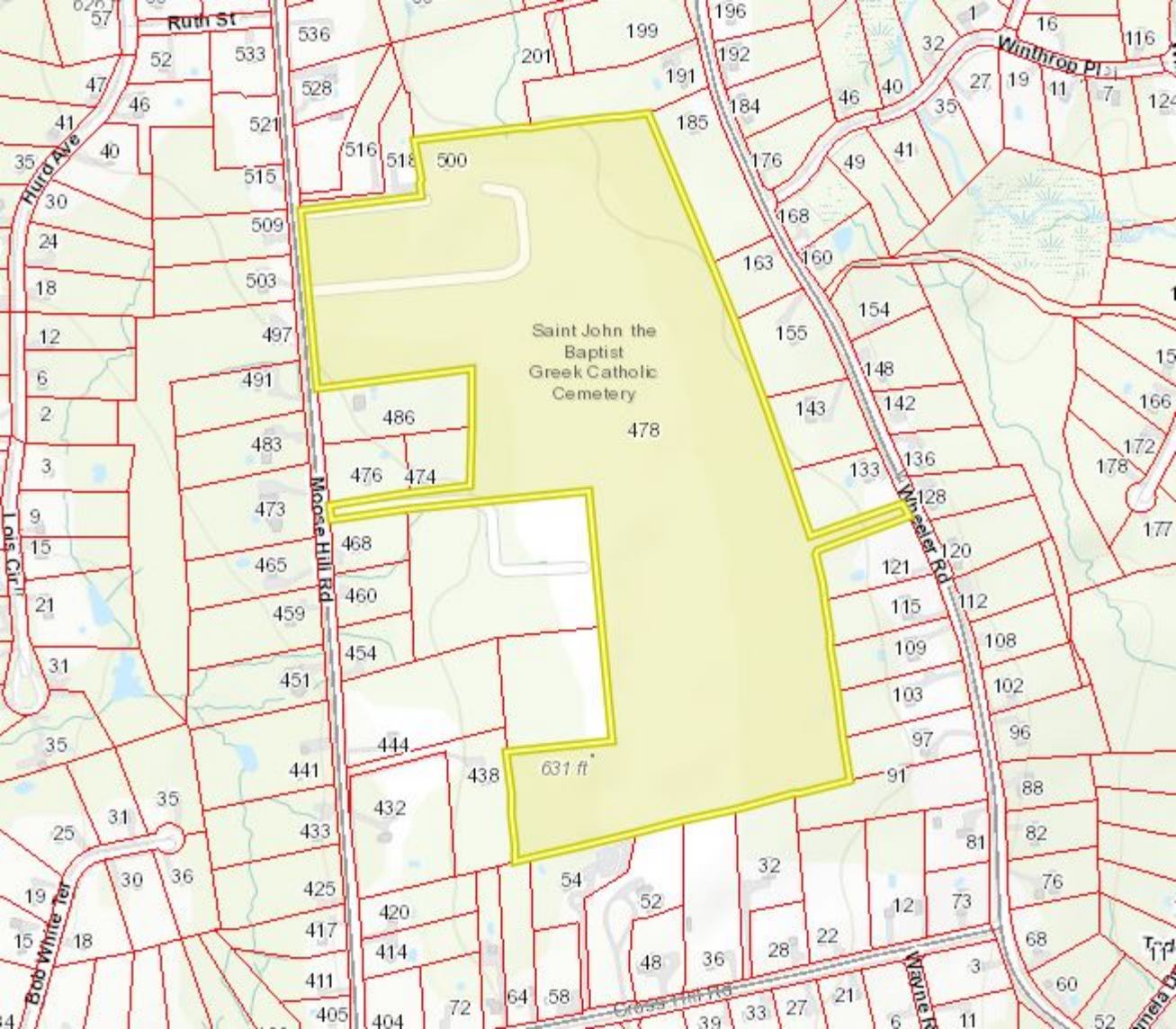
DRAWN BY: H.R.	CHECKED BY: H.M.
REVISION	BY DATE
Δ FIRST ISSUE	H.R. 05/08/20
Δ	
Δ	
Δ	
SHEET TITLE:	
VZSMART-PLK1 SUPPORT RAIL KIT	
SHEET NUMBER:	REV #:
VZSMART-PLK1	0



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

VZW SMART-PLK1 (SUPPORT RAIL KIT)				
ITEM NO.	QTY.	PART NO.	DESCRIPTION	WT
1	3	PST2875-12.5	2.5" PST (2.875" O.D. X 0.203" THK.) X 12'-6" A53 GR-B	292
2	3	L33375-3	L 3" X 3" X 3/8" X 3'-0" A36	66
3	3	CBP-L	CORNER BENT PLATE BRACKET	28
4	3	CBP-R	CORNER BENT PLATE BRACKET	28
5	60	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" LL A36 (OR EQUIV.)	82
6	24	---	BOLT 5/8" X 2" A325	9
7	12	PL375-857	PL 3/8" X 8 1/2" X 7'-0" A36	77
8	144	FW-625	5/8" HDG USS FLAT WASHER	12
9	144	LW-625	5/8" HDG LOCK WASHER	3
10	144	NUIT-625	5/8" HDG HEX NUT	17
GALVANIZED WT				504

# **ATTACHMENT 5**



Ruth St

Wainthron Pl

Hurd Ave

Moose Hill Rd

Winnsale Rd

Lois Court

Bob White Ter

Grass Hill Rd

Nature Trail

Saint John the  
Baptist  
Greek Catholic  
Cemetery

631 ft

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# MONROE, CT

500 MOOSE HILL RD

**Location**

500 MOOSE HILL RD

**Map/Lot**

051/ 067/ 0C/ /

**Acct#**

0510670C

**Owner**

ST JOHN THE BAPTIST GREEK CATHOLIC CEM

**Assessment**

\$928,000

**Appraisal**

\$1,325,700

**PID**

8045

**Building Count**

1

**Survey**

2806 2859

**Affordable**

Current Value

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**Appraisal**

Valuation Year	Improvements	Land	Total
2019	\$97,300	\$1,228,400	\$1,325,700

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**Assessment**

Valuation Year	Improvements	Land	Total
2019	\$68,100	\$859,900	\$928,000

**Owner of Record**

**Owner** ST JOHN THE BAPTIST GREEK CATHOLIC CEM

**Co-Owner** ASSOC INC

**Address** 50 PARADISE GREEN PL  
STRATFORD, CT 33487

**Sale Price** \$0

**Certificate** 1

**Book & Page** 176/ 349

**Sale Date** 08/01/1978

**Instrument**

Ownership History

**Ownership History**

Owner	Sale Price	Certificate	Book & Page	Instrument	Sale Date
ST JOHN THE BAPTIST GREEK CATHOLIC CEM	\$0	1	176/ 349		08/01/1978

Building Information

Building 1 : Section 1

**Year Built:**

**Living Area:** 0

**Building Attributes**

Field	Description
Style	Vacant Land
Model	
Stories:	
Occupancy	
Exterior Wall 1	
Exterior Wall 2	

Roof Structure:	
Roof Cover	
Interior Wall 1	
Interior Wall 2	
Interior Flr 1	
Interior Flr 2	
Heat Fuel	
Heat Type:	
AC Type:	
Total Bedrooms:	
Total Bthrms:	
Total Half Baths:	
Total Xtra Fixtrs:	
Total Rooms:	
Bath Style:	
Kitchen Style:	
Fireplaces	
Wdstv Flues	
Basement Gar.	
Attic	
Basement	
In Law Apt	

Building Photo



Building Layout

**Building Sub-Areas (sq ft) Legend**

No Data for Building Sub-Areas

Extra Features

**Extra Features Legend**

No Data for Extra Features

Land  
 Land Use  
**Use Code** 906V  
**Description** Church  
**Zone** RF1  
**Neighborhood** Monroe  
**Alt Land Approved** No  
**Category**  
 Land Line Valuation  
**Size (Acres)** 52.42  
**Appraised Value** \$1,228,400

Outbuildings

**Outbuildings Legend**

Code	Description	Sub Code	Sub Description	Size	Value	Bldg #
FGR7	Garage +.5s Fin			1920 S.F.	\$66,200	1
PA1	ASPHALT PARKING			6000 S.F.	\$9,000	1
RS1	Frame Utility Shed			360 S.F.	\$8,100	1
RS1	Frame Utility Shed			240 S.F.	\$5,400	1
RS1	Frame Utility Shed			216 S.F.	\$4,900	1
FN1	FENCE CHAIN			350 L.F.	\$3,700	1

Valuation History

**Appraisal**

Valuation Year	Improvements	Land	Total
2020	\$97,300	\$1,228,400	\$1,325,700
2019	\$97,300	\$1,228,400	\$1,325,700
2019	\$97,300	\$1,228,400	\$1,325,700

**Assessment**

<b>Valuation Year</b>	<b>Improvements</b>	<b>Land</b>	<b>Total</b>
2020	\$68,100	\$859,900	\$928,000
2019	\$68,100	\$859,900	\$928,000
2019	\$68,100	\$859,900	\$928,000

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closecloseclose

# **ATTACHMENT 6**



**MONROE EAST  
Certificate of Mailing — Firm**

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  <div style="font-size: 2em; text-align: center;">3</div>	TOTAL NO. of Pieces Received at Post Office™  <div style="font-size: 2em; text-align: center;">3</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  <div style="text-align: right; color: magenta;">           neopost<sup>®</sup>            07/22/2021  <b>US POSTAGE \$002.89<sup>0</sup></b> </div> <div style="text-align: right; margin-top: 10px;">            ZIP 06103            041L12203637         </div>
Postmaster, per (name of receiving employee)  <div style="font-size: 2em; text-align: center;">JK</div>			

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Kenneth Kellogg, First Selectman Town of Monroe 7 Fan Hill Road Monroe, CT 06468				
2.	Rick Schultz, Town Planner Town Hall Annex 7 Fan Hill Road Monroe, CT 06468				
3.	St. John the Baptist Greek Catholic Cemetery Association Inc. 50 Paradise Green Place Monroe, CT 06614				
4.					
5.					
6.					

