

KENNETH C. BALDWIN

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Also admitted in Massachusetts  
and New York

April 22, 2022

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  
540 Cherry Brook Road, Canton, 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 associated equipment on the ground near the base of the tower. The tower was approved by the Town of Canton (“Town”) in October of 2000. Cellco’s use of the tower were approved by the Siting Council (“Council”) in March of 2001 (TS-VER-023-010216-1). A copy of the Town’s tower approval and the Council’s approval of Cellco’s shared use 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) NHH-65B-R2B antennas on the existing T-Arms. Cellco also intends to install six (6) remote radio heads (“RRHs”) behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and new antennas and RRH 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 Canton’s Chief Elected Official and Land Use Officer. Please note, the Town is the owner of the Property.

Melanie A. Bachman, Esq.  
April 22, 2022  
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 the existing T-Arm mounts.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas 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 T-Arm mounts, with certain modifications can support Cellco's proposed modifications. Copies of the SA and MA are included in Attachment 4.

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

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

Melanie A. Bachman, Esq.  
April 22, 2022  
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:

Robert Bessel, Canton First Selectman

Neil Pade, Director of Planning and Community Development

Karla Hanna, Verizon Wireless

# **ATTACHMENT 1**

SITE ID #4275-011

SITE NAME: North Canton, 2

JOB COST #001500

**ZONING/PERMITTING COMPLETION FORM**

Zoning Classification for Site: AR-3

Special Relief (setback, height variance, special use permit, wetlands permit etc.):

**Special Permit Approval**

\* Date of Zoning Decision: 10/19/00

Summary of zoning conditions **(Include details of any conditions relative to time restrictions, expiration dates, renewal obligations, monetary obligations, performance obligation, inspection fees).**

See attached Stipulation for Judgment. Settlement was reached via litigation. Included in the stipulated judgment is a condition that the Special Permit is to be renewed by SBA every five years.

Submitted by: Esther McNany

Title: Territory Manager

Territory Manager Approval:

\* Attach a copy of the Zoning decision and forward to the Regional Compliance Manager as soon as possible, after the decision.

# HURWITZ & SAGARIN LLC

October 23, 2000

Sheila Becker, Esq.  
SBA, Inc.  
900 Cummings Center  
Suite 216U  
Beverly, MA 01915

Ms. Esther McNany  
SBA, Inc.  
80 Eastern Boulevard  
Glastonbury, CT 06033

Re: SBA v. Canton

Dear Sheila and Esther:

Enclosed please find a Motion For Judgment and Stipulation For Judgment in the captioned matter. The Court entered judgment in accordance with the stipulation this morning. Counsel for the Town will let me know when the special exception will be issued. Once it is, the federal action will be withdrawn.

Please call me with any questions.

Very truly yours,



John W. Knuff  
JWK:kvc

Enclosures



ORDER

The foregoing Motion having been heard, it is hereby ORDERED:  
GRANTED/DENIED.

BY THE COURT,


DATE \_\_\_\_\_

\_\_\_\_\_  
Judge/Assistant Clerk

CERTIFICATION OF SERVICE

I hereby certify that a copy of the foregoing Motion for Judgment was mailed, postage prepaid, this 23rd day of October, 2000, to:

John W. Knuff, Esq.  
Margaret E. Haering, Esq.  
Hurwitz & Sagarin, LLC  
147 North Broad Street  
Milford, Connecticut 06460

  
\_\_\_\_\_  
Matthew Ranelli

276153



NO. CV 00 0595406S : SUPERIOR COURT  
SBA COMMUNICATIONS, INC. : JUDICIAL DISTRICT  
v. : OF HARTFORD  
ZONING COMMISSION OF THE :  
TOWN OF CANTON : OCTOBER 19, 2000

STIPULATION FOR JUDGMENT

The parties hereby stipulate to the following facts:

1. Plaintiff SBA Communications, Inc. ("SBA") is a Florida corporation in the business of providing services to licensed personal wireless telecommunications carriers.
2. The Zoning Commission of the Town of Canton (the "Commission") is the duly authorized Zoning Commission of the Town of Canton.
3. On September 2, 1999, SBA submitted to the Commission an application for a special exception and site plan approval for a facility consisting of a 195 foot monopole with a fenced-in compound area to be located on property owned by the North Canton Volunteer Fire Association, Inc. (the "Fire Association"). The plan included provisions to tear down the existing communications tower also located on the Fire Association's property and to erect a 195 foot monopole and

relocate the Fire Association's emergency radio service antennas to the new pole.

4. The location of the proposed tower is zoned AR-3.

5. Telecommunication towers are a permitted use in all districts, including AR-3, in Canton subject to approval of a special exception. The regulations limit tower height to 70 feet and impose front and side yard setback requirements.

6. On August 9, 1999, SBA obtained a variance from the Canton Zoning Board of Appeals of the tower height limitation.

7. After holding duly-noticed public hearings on November 17, 1999 and December 15, 1999, the Commission denied SBA's application for special exception for the reasons stated in its denial letter to SBA dated April 10, 2000.

8. On January 4, 2000, SBA appealed the Commission's decision to the Connecticut Superior Court and filed an action in the United States District Court for the District of Connecticut (SBA Communications, Inc. v. Zoning Commission of the Town of Canton, Civil Action No. 3:00 CV 007 (RNC)) setting forth claims under the federal Telecommunications Act of 1996, 47 U.S.C. § 332.

9. While these state and federal court claims were pending, the parties made cooperative settlement efforts resulting in this Stipulation for Judgment.

10. The parties agree that this Stipulation is subject to Superior Court approval.

11. The defendant Commission hereby agrees to issue a special exception and site plan approval for a 150 foot monopole at the Fire Association site in settlement of the state and federal court actions as approved at its October 18, 2000 meeting. The monopole would house the Fire Association's emergency communications system and be subject to the following conditions:

a. The facility is approved and will be constructed in accordance with the revised site plan dated December 13, 1999 except that the tower height shall be a maximum of 150 feet rather than 195 feet and that the diameter of the tower at the base and top shall be the lesser of the dimensions shown on the reference plan or as prescribed by the ANSI standard;

b. If more than five carriers are to be installed, the applicant must submit a site plan modification;

c. Additional landscaping shall be provided to satisfactorily screen the fencing and auxiliary structures according to the requirements of the Town Planner;

d. Any auxiliary equipment deviations from the drawings dated December 13, 1999 must be submitted for site plan review;

e. A removal bond must be posted in the initial amount of \$50,000 and adjusted upon renewal dates to reflect the true cost of removal;

f. The tower shall be inspected for structural integrity every five years and the removal bond shall be renewed concurrently;

g. Approval is for a five year period and is renewable for an additional five years subject to a successful submission of a re-inspection report and renewals of a removal bond; and

h. Approval of the special exception is subject to approval of the settlement by the Superior Court.

12. The defendant Commission will issue the special exception permit to plaintiff SBA promptly after the Court's approval and entry of this Stipulation for Judgment. Within five days after issuance of the special exception by the

defendant Commission in accordance with this Stipulation, the parties will file a Stipulation of Dismissal of the pending action in the United States District Court for the District of Connecticut.

13. Plaintiff SBA agrees to provide counsel for defendant with an executed Stipulation of Dismissal to be held in escrow, pending issuance of the special exception permit and site plan.

THE PLAINTIFFS

By: 

Elias A. Alexiades  
John W. Knuff  
Hurwitz & Sagarin, LLC  
147 North Broad Street  
Milford, Connecticut 06460  
Juris No. 26616  
Telephone: (203) 877-8000

THE DEFENDANTS

By: 

John T. Harris  
Matthew Ranelli  
Shipman & Goodwin, LLP  
One American Row  
Hartford, Connecticut 06101  
Juris No.  
Telephone: 860-251-5602



# 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)

Web Site: [www.state.ct.us/csc/index.htm](http://www.state.ct.us/csc/index.htm)

March 20, 2001

Sandy M. Carter  
Verizon Wireless  
20 Alexander Drive  
P.O. Box 5029  
Wallingford, CT 06492

RE: **TS-VER-023-010216-1** - Cellco Partnership d/b/a Verizon Wireless request for an order to approve tower sharing at an existing telecommunications facility located at 540 Cherrybrook Road, Canton, Connecticut.

Dear Ms. Carter:

At a public meeting held March 15, 2001, the Connecticut Siting Council (Council) ruled that the shared use of this existing tower site is technically, legally, environmentally, and economically feasible and meets public safety concerns, and therefore, in compliance with General Statutes § 16-50aa, the Council has ordered the shared use of this facility to avoid the unnecessary proliferation of tower structures. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Any additional change to this facility may require an explicit request to this agency pursuant to General Statutes § 16-50aa or notice pursuant to Regulations of Connecticut State Agencies Section 16-50j-73, as applicable. Such request or notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point 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.

This decision applies only to this request for tower sharing and is not applicable to any other request or construction.

The proposed shared use is to be implemented as specified in your letter dated February 16, 2001.

Thank you for your attention and cooperation.

Very truly yours,



Mortimer A. Gelston  
Chairman

MAG/RKE/laf

- c: Honorable Kathleen C. Corkum, First Selectman, Town of Canton  
Eric Barz, Town Planner, Town of Canton  
Frederick E. Turkington, Jr., Chief Administrative Officer, Town of Canton  
Esther McNany, SBA, Inc.

# **ATTACHMENT 2**













**Antenna Summary**

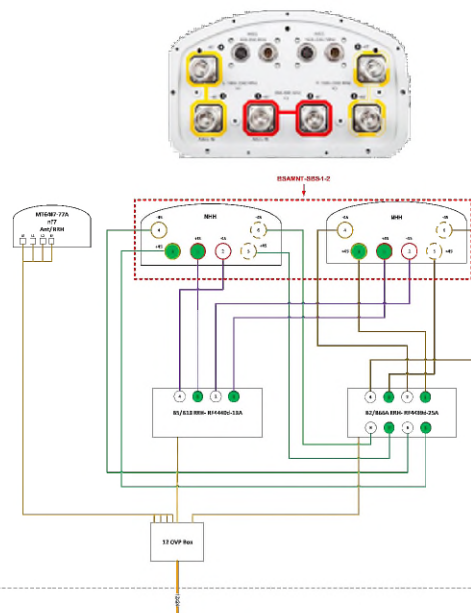
Added														
700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	LTE 5G	LTE	LTE		COMMSCOPE	NH4-65B-R2B	150	153	900(02) 990(03) 3450(0)	true	true	PHYSICAL	6	NH4-65B-R2B
				5G	Samsung	MT6407-77A	150	151.5	900(0350) 990(0350) 3450(0340)	false	false	PHYSICAL	3	
Removed														
700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE					AMPHENOL	BXA-70063-0CF	150	153	900(02) 990(03) 3450(0)	false	false	PHYSICAL	3	
CDMA					ANTEL	LPA-80063/WCF	150	153	900(02)	false	false	PHYSICAL	2	
CDMA					ANTEL	LPA-80060/WCF	150	153	990(03) 3450(0)	false	false	PHYSICAL	4	
					Unknown	Unknown	150	153	900(02) 990(03) 3450(0)	false	false	SPARE	3	
Retained														
700	850	1900	AWS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
No data available														

Added: 9    Removed: 12    Retained: 0

**Equipment Summary**

Added													
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Mount	Tower						COMMSCOPE	BSAMMT-SBS-1-2			PHYSICAL	3	
Hybrid Cable	Tower	LTE	LTE 5G	LTE	LTE	5G	N/A	ISX24 HybridFlex LI		15/0"	PHYSICAL	1	
OMP Box	Tower	LTE	LTE 5G	LTE	LTE	5G	Raycap	DVP-12			PHYSICAL	1	
RRU	Tower					5G	Samsung	MT6407-77A			PHYSICAL	3	
RRU	Tower			LTE	LTE		Samsung	RF44396-25A			PHYSICAL	3	
RRU	Tower	LTE	LTE 5G				Samsung	RF44406-13A			PHYSICAL	3	
Removed													
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower						N/A	1-5/8" Coax		15/0"	PHYSICAL	2	
RRU	Shelter	LTE					Nokia	LHBA E13 RRH 4x20			PHYSICAL	3	
Diplexer	Shelter						Unknown	Unknown			PHYSICAL	3	
Retained													
Equipment Type	Location	700	850	1900	AWS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Coaxial Cables	Tower						N/A	1-5/8" Coax		15/0"	PHYSICAL	10	
Coaxial Cables	Tower				CDMA		N/A	1-5/8" Coax		15/0"	PHYSICAL	6	

**ANTENNA SCHEDULE**



**Comments:**  
 Diagram shows antenna port configuration as viewed from below antennas.  
 Antenna positions are indicated as viewed from the FRONT of antennas.  
 Cap and weatherproof unused antenna ports.  
 All plumbing diagram colors are irrelevant except for ABC & HybridFlex cable. (See the color codes below. See Colorx guide above)

**RF PLUMBING DIAGRAMS**

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1	06/16/22	RELEASED FOR CONSTRUCTION	MSB	PPM
2	08/09/22	RELEASED FOR CONSTRUCTION	PPM	PPM
3	11/24/23	RELEASED FOR REVIEW	SMF	PPM
4	06/15/22	RELEASED FOR REVIEW	MSB	PPM
REV	04/18/24	REVISION	CHAPPA	PPM

**Professional Engineer Seal:** Peter M. Albano, License No. 18020, State of Connecticut, Professional Engineer.

**Site Information:**  
 SITE NAME: NORTH CANTON CT  
 PSLC NUMBER: 468823  
 FUZE I.D. NUMBER: 16272370

540 CHERRY BROOK ROAD  
 CANTON, CT 06019  
 HARTFORD COUNTY

**Stamp:** STAMP: CRO OFFICE, 1155 Washington Blvd, Stamford, CT 06901, Phone: 203.324.8100

CONSTRUCTION DETAILS

A-2







MOUNT MODIFICATION DRAWINGS  
EXISTING 14.58' PLATFORM

TOWER OWNER: SBA TOWERS  
TOWER OWNER SITE NUMBER: CT01500

CARRIER SITE NAME: NORTH CANTON CT  
CARRIER SITE NUMBER: 468823  
FUZE ID: 16272370

540 CHERRY BROOK ROAD  
CANTON, CT 06019  
HARTFORD COUNTY

LATITUDE: 41.894161° N  
LONGITUDE: 72.893286° W

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REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
2	3/1/2022	SUBMIT FOR CONSTRUCTION	CSH	ETA
1	04/1/2021	SUBMIT FOR CONSTRUCTION	CSH	ETA
0	09/14/2020	SUBMIT FOR CONSTRUCTION	JPL	ETA

Justin Pappalardo  
Professional Engineer  
No. 10000  
State of Connecticut  
Date: 2022-03-02 09:20:30

DESIGN CRITERIA
<b>WIND LOADS</b> BASIC WIND SPEED (3 SECOND GUST), V = 115 MPH EXPOSURE CATEGORY C TOPOGRAPHIC CATEGORY I MEAN BASE ELEVATION (AMSL) = 637.85'
<b>ICE LOADS</b> ICE WIND SPEED (3 SECOND GUST), V = 50 MPH ICE THICKNESS = 1.50 IN
<b>SEISMIC LOADS</b> SEISMIC DESIGN CATEGORY B SHORT TERM MCR GROUND MOTION, S <sub>g</sub> = .173 LONG TERM MCR GROUND MOTION, S <sub>g</sub> = .054

PROJECT INFORMATION
<b>APPLICANT/LESSEE</b> COMPANY: VERIZON WIRELESS
<b>CLIENT REPRESENTATIVE</b> COMPANY: VERIZON WIRELESS
<b>PROJECT MANAGER</b> COMPANY: MASER CONSULTING CONTACT: PETER ALBANO PHONE: 856-797-0412 E-MAIL: PETER.ALBANO@COLLIERENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS
PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10101461
VZW LOCATION CODE (PLC): 468823
ANALYSIS DATE: 10/21/2021
PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX
SHEET DESCRIPTION
ST-1 TITLE SHEET
SBOH-1 BILL OF MATERIALS
SGN-1 GENERAL NOTES
SCF-1 CLIMBING FACILITY DETAIL
SS-1 MODIFICATION DETAILS
SS-2 MOUNT PHOTOS
SPECIFICATION SHEETS

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**SITE NAME:**  
**NORTH CANTON CT**  
**468823**  
**540 CHERRY BROOK ROAD**  
**CANTON, CT 06019**  
**HARTFORD COUNTY**

**MT. LAUREL OFFICE**  
200 PINEBROOK DRIVE  
SUITE 100  
MOUNT LAUREL, NJ 08054  
Phone: 856.293.0412  
Fax: 856.723.1100

**TITLE SHEET**

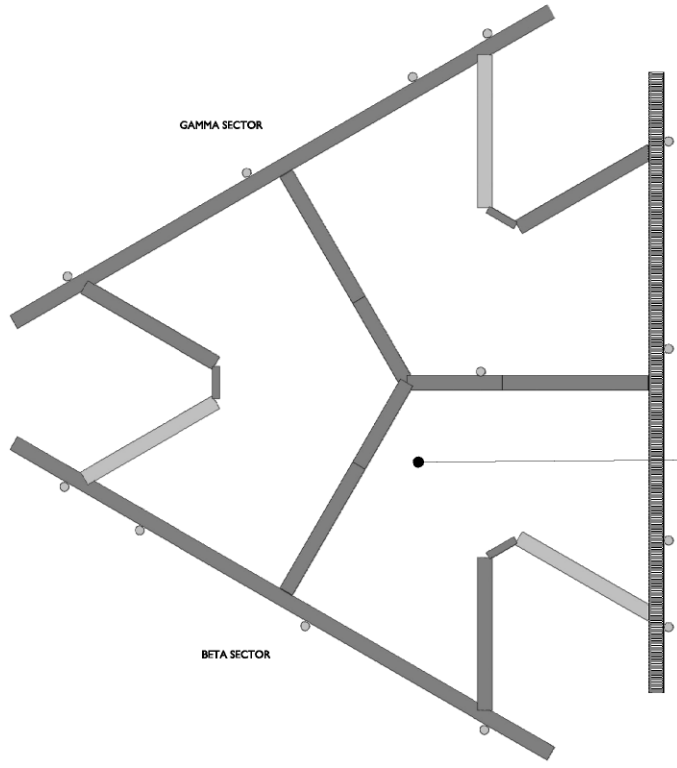
**ST-1**

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.









CLIMBING FACILITY PHOTO

**1** CLIMBING FACILITY LOCATION  
SCALE: N.T.S.

**STRUCTURAL NOTES:**

- PER THE MOUNT MAPPING COMPLETED BY ROAMING NETWORKS, INC. ON 3/30/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (149'-0") 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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SCALE: AS SHOWN PROJECT NUMBER: 2177297A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
2	3/1/2022	REVISION FOR CONSTRUCTION	CSH	ETA
1	04/1/2021	REVISION FOR CONSTRUCTION	CSH	ETA
0	09/14/2021	REVISION FOR CONSTRUCTION	JJP	ETA

Justin Perini  
Date: 2022-03-02 09:20:30 -0400

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**SITE NAME:**  
NORTH CANTON CT  
468823  
540 CHERRY BROOK ROAD  
CANTON, CT 06019  
HARTFORD COUNTY

**MASER CONSULTING**  
MT. LAUREL OFFICE  
2005 PLYMOUTH DRIVE  
SUITE 100  
MOUNT LAUREL, NJ 08054  
Phone: 856.293.0413  
Fax: 856.723.1100

DATE PLOTTED: CLIMBING FACILITY DETAIL

PROJECT NUMBER: SCF-1





MOUNT PHOTO 1



MOUNT PHOTO 2



MOUNT PHOTO 3



MOUNT PHOTO 4




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SHEET:		JOB NUMBER:	
AS SHOWN		21777297A	
2	03/26/2021	SUBMIT FOR CONSTRUCTION	C24 E2A
1	03/26/2021	SUBMIT FOR CONSTRUCTION	C24 E2A
0	03/26/2021	SUBMIT FOR CONSTRUCTION	J24 E2A
REV	DATE	DESCRIPTION	DRAWN / CHECKED BY

---



Justin Peter  
31465  
LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Peter  
Date: 2022.03.02 09:20:39 -0400

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IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF THE RESPONSIBLE LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

---

SITE NAME:

NORTH CANTON CT  
468823  
540 CHERRY BROOK ROAD  
CANTON, CT 06019  
HARTFORD COUNTY

---



**MT. LAUREL OFFICE**  
2005 PICTURES DRIVE  
SUITE 100  
MOUNT LAUREL, NJ 08054  
Phone: 856.293.0413  
Fax: 856.723.1100

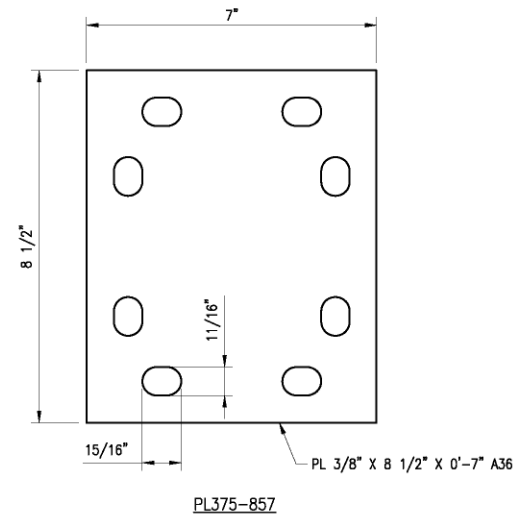
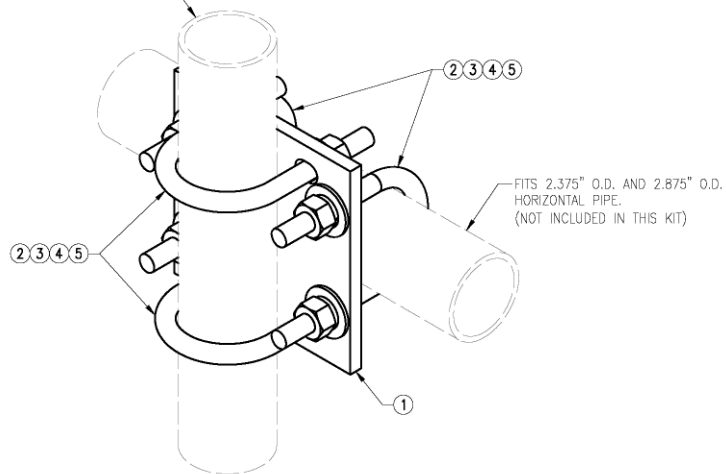
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SHEET TITLE: MOUNT PHOTOS

---

SHEET NUMBER: SS-2

FITS 2.375" O.D. AND 2.875" O.D.  
 VERTICAL PIPE.  
 (NOT INCLUDED IN THIS KIT)



PL375-857

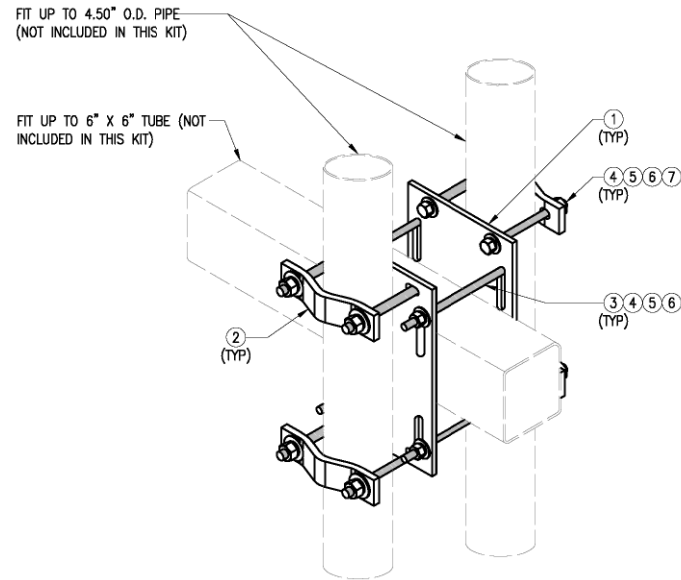
NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-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	MS02-625-300-500	RU-BOLT 5/8" X 3" L.W. 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	NUT-625	5/8" HDG HEX NUT	---	1
GALVANIZED WT					14

DRAWN BY: H.R.	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	H.R. 05/08/20
△	
△	
△	

SHEET TITLE:  
**VZSMART-MSK1  
 CROSSOVER PLATE**

SHEET NUMBER: **VZSMART-MSK1**      REV #: **0**



ISOMETRIC VIEW  
 BACK TO BACK CROSSOVER

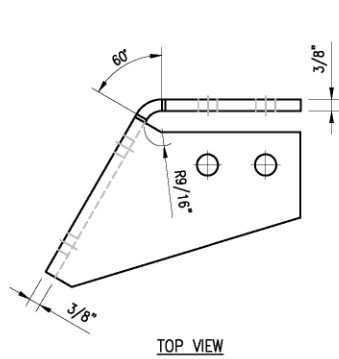
NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZSMART-MSK6 (VZSMART-MSK6 - BACK TO BACK CROSSOVER)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7
2	4	VCP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
4	16	NUT-625	5/8" HDG HEX NUT	---	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	8	---	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	---	1
				GALVANIZED WT	34

DRAWN BY: SK	CHECKED BY: BT/KW
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	SK 05/08/20
△	
△	
△	

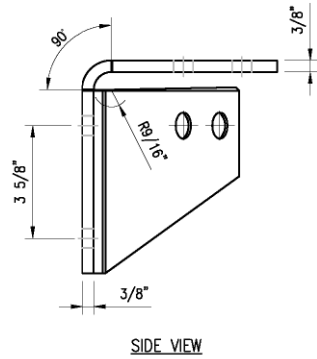
SHEET TITLE:  
**VZSMART-MSK6  
 BACK TO BACK  
 CROSSOVER**

SHEET NUMBER: VZSMART-MSK6	REV #: 0
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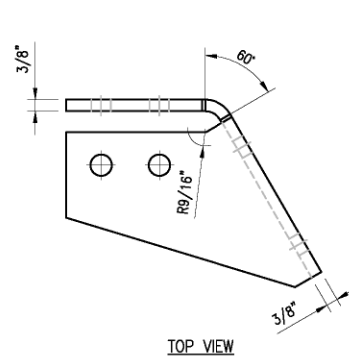


TOP VIEW

CBP-L

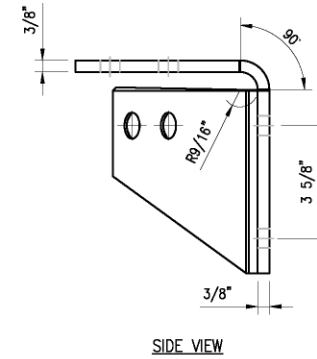


SIDE VIEW



TOP VIEW

CBP-R



SIDE VIEW

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

VZSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" (L.W. X 5" I.L. A36 (OR EQUIV.)	RBC-1	5
4	8	---	BOLT 5/8" X 2" A325	---	3
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	16	NUT-625	5/8" HDG HEX NUT	---	2
GALVANIZED WT					30

DRAWN BY: HLR	CHECKED BY: HMA
REV. DESCRIPTION	BY DATE
△ FIRST ISSUE	HLR 05/08/20
△	
△	
△	

SHEET TITLE:  
**VZSMART-PLK3  
 SUPPORT RAIL CORNER  
 BRACKET**

SHEET NUMBER: <b>VZSMART-PLK3</b>	REV #: <b>0</b>
--------------------------------------	--------------------



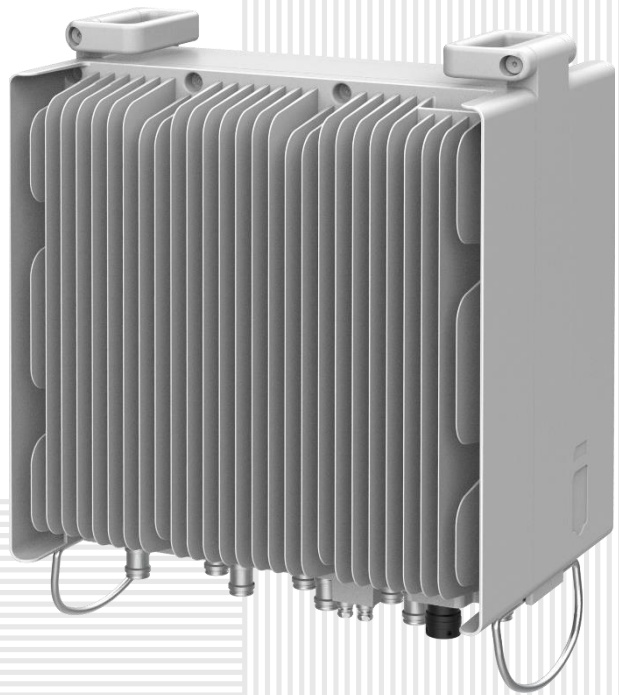
# SAMSUNG

## AWS/PCS MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This AWS/PCS 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4439d-25A



Homepage  
[samsungnetworks.com](http://samsungnetworks.com)

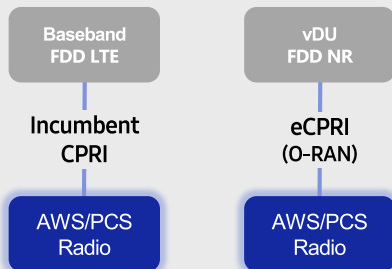


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

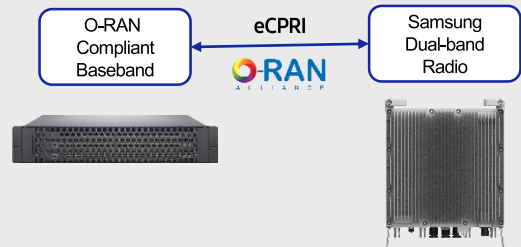
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help in implementing cost-effective networks, which are capable of sending more data without compromising additional investments.

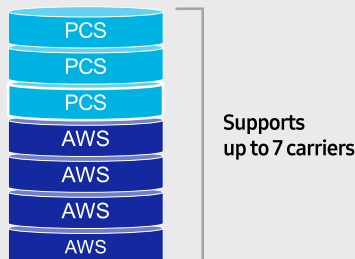
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

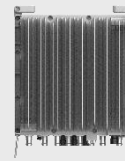
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

The new AWS/PCS dual-band radio can support up to 3 carriers in the PCS (1.9GHz) band and 4 carriers in the AWS (2.1GHz) band, respectively.



### Brand New Features in a Compact Size

Samsung's AWS/PCS macro radio offers several features, such as dual connectivity for baseband for both CDU and vDU, O-RAN capability, more carriers and an enlarged PCS spectrum, combined into an incumbent radio volume of 36.8L.



- 2 FH connectivity
- O-RAN capability
- More carriers and spectrum

Same as an incumbent radio volume

## Technical Specifications

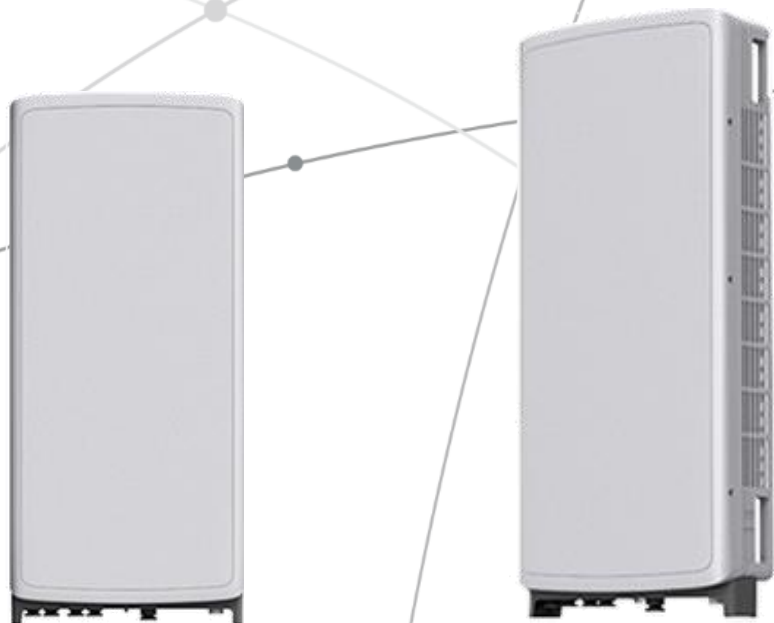
Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight	14.96 x 14.96 x 10.04inch (36.8L) / 74.7lb

## **SAMSUNG** C-Band 64T64R Massive MIMO Radio

for High Capacity and Wide Coverage

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

Model Code : MT6407-77A



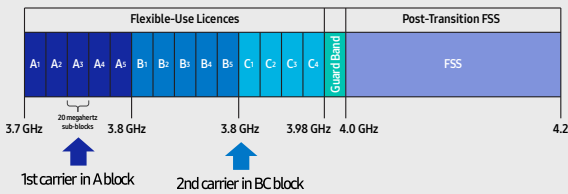
# Points of Differentiation

## Wide Bandwidth

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

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

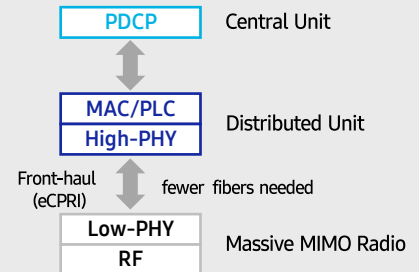
C-Band spectrum supported by Massive MIMO Radio



## Future Proof Product

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

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

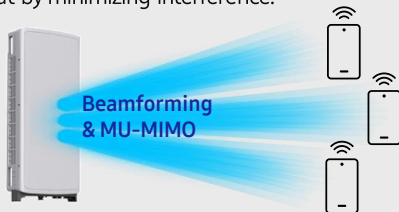


## Enhanced Performance

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

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

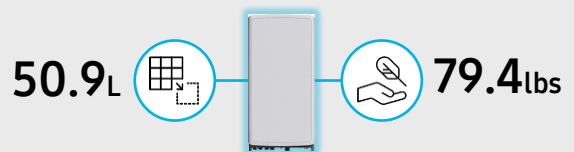
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



## Well Matched Design

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

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



# Technical Specifications

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



# SAMSUNG



## **About Samsung Electronics Co., Ltd.**

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

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

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# SAMSUNG

## 700/850MHZ MACRO RADIO

DUAL-BAND AND HIGH POWER  
FOR MACRO COVERAGE

Samsung's future proof dual-band radio is designed to help effectively increase the coverage areas in wireless networks. This 700/850MHz 4T4R dual-band radio has 4Tx/4Rx to 2Tx/2Rx RF chains options and a total output power of 320W, making it ideal for macro sites.

Model Code RF4440d-13A



Homepage  
[samsungnetworks.com](https://www.samsungnetworks.com)

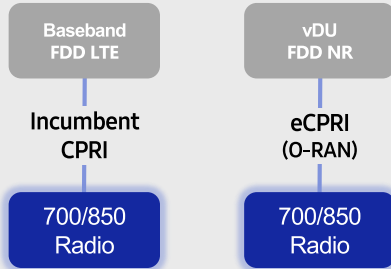


Youtube  
[www.youtube.com/samsung5g](https://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

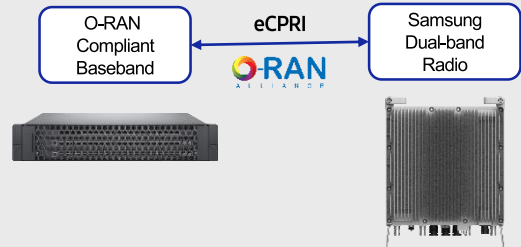
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### O-RAN Compliant

A standardized O-RAN radio can help when implementing cost-effective networks because it is capable of sending more data without compromising additional investments.

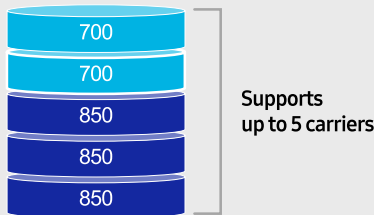
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

The number of required carriers varies according to site (region). The ability to support many carriers is essential for using all frequencies that the operator has available.

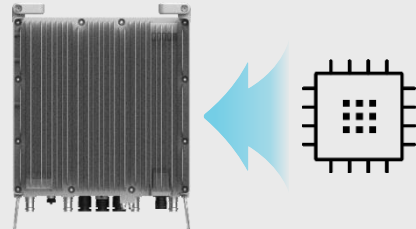
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



### Secured Integrity

Access to sensitive data is allowed only to authorized software.

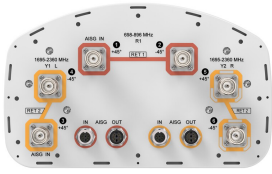
The Samsung radio's CPU can protect root of trust, which is credential information to verify SW integrity, and secure storage provides access control to sensitive data by using dedicated hardware (TPM).



## Technical Specifications

Item	Specification
Tech	LTE / NR
Brand	B13(700MHz), B5(850MHz)
Frequency Band	DL: 746 – 756MHz, UL: 777 – 787MHz DL: 869 – 894MHz, UL: 824 – 849MHz
RF Power	(B13) 4 × 40W or 2 × 60W (B5) 4 × 40W or 2 × 60W
IBW/OBW	(B13) 10MHz / 10MHz (B5) 25MHz / 25MHz
Installation	Pole, Wall
Size/ Weight	14.96 x 14.96 x 9.05inch (33.2L) / 70.33 lb

# NHH-65B-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

## General Specifications

<b>Antenna Type</b>	Sector
<b>Band</b>	Multiband
<b>Color</b>	Light gray
<b>Grounding Type</b>	RF connector body grounded to reflector and mounting bracket
<b>Performance Note</b>	Outdoor usage   Wind loading figures are validated by wind tunnel measurements described in white paper WP-112534-EN
<b>Radome Material</b>	Fiberglass, UV resistant
<b>Radiator Material</b>	Low loss circuit board
<b>Reflector Material</b>	Aluminum
<b>RF Connector Interface</b>	4.3-10 Female
<b>RF Connector Location</b>	Bottom
<b>RF Connector Quantity, high band</b>	4
<b>RF Connector Quantity, low band</b>	2
<b>RF Connector Quantity, total</b>	6

## Remote Electrical Tilt (RET) Information

<b>RET Interface</b>	8-pin DIN Female   8-pin DIN Male
<b>RET Interface, quantity</b>	2 female   2 male
<b>Input Voltage</b>	10–30 Vdc
<b>Internal Bias Tee</b>	Port 1   Port 3
<b>Internal RET</b>	High band (1)   Low band (1)
<b>Power Consumption, idle state, maximum</b>	2 W
<b>Power Consumption, normal conditions, maximum</b>	13 W



# NHH-65B-R2B

**Protocol** 3GPP/AISG 2.0 (Single RET)

## Dimensions

**Width** 301 mm | 11.85 in

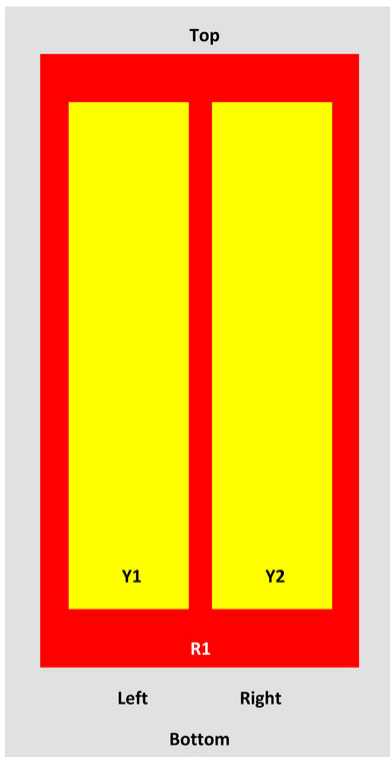
**Depth** 180 mm | 7.087 in

**Length** 1828 mm | 71.969 in

**Net Weight, without mounting kit** 19.8 kg | 43.651 lb

## Array Layout

NHH



Array	Freq (MHz)	Coms	RET (SRET)	AISG RET UID
R1	698-896	1-2	1	ANXXXXXXXXXXXXX1
Y1	1695-2360	3-4	2	ANXXXXXXXXXXXXX2
Y2	1695-2360	5-6		

View from the front of the antenna

(Sizes of colored boxes are not true depictions of array sizes)

## Electrical Specifications

**Impedance** 50 ohm

**Operating Frequency Band** 1695 – 2360 MHz | 698 – 896 MHz

# NHH-65B-R2B

<b>Polarization</b>	±45°
<b>Total Input Power, maximum</b>	900 W @ 50 °C

## Electrical Specifications

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain, dBi</b>	14.9	15	17.7	17.9	18.4	18.7
<b>Beamwidth, Horizontal, degrees</b>	65	60	71	69	64	57
<b>Beamwidth, Vertical, degrees</b>	12.4	11.2	5.7	5.2	4.9	4.6
<b>Beam Tilt, degrees</b>	0–14	0–14	0–7	0–7	0–7	0–7
<b>USLS (First Lobe), dB</b>	13	14	18	18	19	18
<b>Front-to-Back Ratio at 180°, dB</b>	30	29	31	30	29	31
<b>Isolation, Cross Polarization, dB</b>	25	25	25	25	25	25
<b>Isolation, Inter-band, dB</b>	30	30	30	30	30	30
<b>VSWR   Return loss, dB</b>	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
<b>PIM, 3rd Order, 2 x 20 W, dBc</b>	-153	-153	-153	-153	-153	-153
<b>Input Power per Port at 50°C, maximum, watts</b>	300	300	300	300	300	300

## Electrical Specifications, BASTA

<b>Frequency Band, MHz</b>	<b>698–806</b>	<b>806–896</b>	<b>1695–1880</b>	<b>1850–1990</b>	<b>1920–2200</b>	<b>2300–2360</b>
<b>Gain by all Beam Tilts, average, dBi</b>	14.5	14.5	17.3	17.7	18.1	18.5
<b>Gain by all Beam Tilts Tolerance, dB</b>	±0.6	±1.1	±0.4	±0.4	±0.5	±0.3
<b>Gain by Beam Tilt, average, dBi</b>	0°   14.4 7°   14.6 14°   14.3	0°   14.7 7°   14.7 14°   14.1	0°   17.2 4°   17.3 7°   17.3	0°   17.6 4°   17.7 7°   17.7	0°   18.0 4°   18.2 7°   18.1	0°   18.3 4°   18.5 7°   18.6
<b>Beamwidth, Horizontal Tolerance, degrees</b>	±2	±2.1	±3	±4.1	±6.5	±2.9
<b>Beamwidth, Vertical Tolerance, degrees</b>	±0.7	±0.7	±0.3	±0.2	±0.3	±0.2
<b>USLS, beampeak to 20° above beampeak, dB</b>	13	14	16	16	17	15
<b>Front-to-Back Total Power at 180° ± 30°, dB</b>	23	22	27	27	25	25
<b>CPR at Boresight, dB</b>	22	21	23	23	22	19

# NHH-65B-R2B

<b>CPR at Sector, dB</b>	10	7	16	13	11	4
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## Mechanical Specifications

<b>Effective Projective Area (EPA), frontal</b>	0.26 m <sup>2</sup>   2.799 ft <sup>2</sup>
<b>Effective Projective Area (EPA), lateral</b>	0.22 m <sup>2</sup>   2.368 ft <sup>2</sup>
<b>Wind Loading @ Velocity, frontal</b>	278.0 N @ 150 km/h (62.5 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, lateral</b>	230.0 N @ 150 km/h (51.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, maximum</b>	537.0 N @ 150 km/h (120.7 lbf @ 150 km/h)
<b>Wind Loading @ Velocity, rear</b>	282.0 N @ 150 km/h (63.4 lbf @ 150 km/h)
<b>Wind Speed, maximum</b>	241 km/h   149.75 mph

## Packaging and Weights

<b>Width, packed</b>	409 mm   16.102 in
<b>Depth, packed</b>	299 mm   11.772 in
<b>Length, packed</b>	1952 mm   76.85 in
<b>Weight, gross</b>	32.3 kg   71.209 lb

## Regulatory Compliance/Certifications

<b>Agency</b>	<b>Classification</b>
CHINA-ROHS	Below maximum concentration value
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
ROHS	Compliant



## Included Products

BSAMNT-3	-	Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.
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## \* Footnotes

<b>Performance Note</b>	Severe environmental conditions may degrade optimum performance
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# **ATTACHMENT 3**

	General	Power	Density					
<b>Site Name: North Canton</b>								
<b>Tower Height: Verizon @ 150ft</b>								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*DISH	4	224	105	600	0.032876202	0.4	0.82%	
*DISH	4	543	105	1900	0.079695437	1	0.80%	
*DISH	4	543	105	2100	0.079695437	1	0.80%	
*T-Mobile	4	1538	129	1900	0.146234595	1	1.46%	
*T-Mobile	2	2308	129	2100	0.109723487	1	1.10%	
*T-Mobile	1	1556	129	2100	0.036986513	1	0.37%	
*T-Mobile	2	789	129	600	0.0375	0.4000	0.94%	
*T-Mobile	2	433	129	700	0.0206	0.4667	0.44%	
*AT&T	2	565	138	880	0.0233	0.5867	0.40%	
*AT&T	2	875	138	1900	0.0361	1.0000	0.36%	
*AT&T	1	283	138	880	0.0058	0.5867	0.10%	
*AT&T	4	525	138	1900	0.0433	1.0000	0.43%	
*AT&T	1	1615	138	734	0.0333	0.4893	0.68%	
*Town of Canton 1	1	400	150	160	0.0069	0.2000	0.35%	
*Town of Canton 2	1	200	150	37.74	0.0035	0.2000	0.17%	
*Town of Canton 3	1	20	150	454	0.0003	0.3027	0.01%	
<b>VZW 700</b>	<b>4</b>	<b>689</b>	<b>150</b>	<b>751</b>	<b>0.0044</b>	<b>0.5007</b>	<b>0.88%</b>	
<b>VZW Cellular</b>	<b>4</b>	<b>700</b>	<b>150</b>	<b>869</b>	<b>0.0045</b>	<b>0.5793</b>	<b>0.77%</b>	
<b>VZW PCS</b>	<b>4</b>	<b>1500</b>	<b>150</b>	<b>1980</b>	<b>0.0096</b>	<b>1.0000</b>	<b>0.96%</b>	
<b>VZW AWS</b>	<b>4</b>	<b>1691</b>	<b>150</b>	<b>2125</b>	<b>0.0108</b>	<b>1.0000</b>	<b>1.08%</b>	
<b>VZW CBAND</b>	<b>4</b>	<b>6531</b>	<b>150</b>	<b>3730</b>	<b>0.0418</b>	<b>1.0000</b>	<b>4.18%</b>	
								<b>17.10%</b>
* Source: Siting Council								

# **ATTACHMENT 4**



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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**Structural Analysis Report**

Existing 150 ft Nudd Corporation Monopole  
Customer Name: SBA Communications Corp  
Customer Site Number: CT01500-S  
Customer Site Name: Canton 2 CT  
Carrier Name: Verizon (App#: 174125, V2)  
Carrier Site ID / Name: 2000017979 / North Canton CT  
Site Location: 540 Cherry Brook Rd., (Rt. 179)  
Canton, Connecticut  
Hartford County  
Latitude: 41.894052  
Longitude: -72.893850



**Analysis Result:**

Max Structural Usage: 75.6% [Pass]  
Max Foundation Usage: 31.0% [Pass]  
Additional Usage Caused by New Mount/Mount Modification: +0.03%

Report Prepared By: Karzan Habeeb



**Tower Engineering Solutions**

Phone (972) 483-0607, Fax (972) 975-9615  
1320 Greenway Drive, Suite 600, Irving, Texas 75038

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## **Structural Analysis Report**

**Existing 150 ft Nudd Corporation Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT01500-S**

**Customer Site Name: Canton 2 CT**

**Carrier Name: Verizon (App#: 174125, V2)**

**Carrier Site ID / Name: 2000017979 / North Canton CT**

**Site Location: 540 Cherry Brook Rd., (Rt. 179)**

**Canton, Connecticut**

**Hartford County**

**Latitude: 41.894052**

**Longitude: -72.893850**

### **Analysis Result:**

**Max Structural Usage: 75.6% [Pass]**

**Max Foundation Usage: 31.0% [Pass]**

**Additional Usage Caused by New Mount/Mount Modification: +0.03%**

**Report Prepared By: Karzan Habeeb**



## Introduction

The purpose of this report is to summarize the analysis results on the 150 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Original structural design report prepared by Fred. A. Nudd Corporation. Dated 11-02-2000. Drawing No 00-7221-1. Project No 4275-011. Previous structural report prepared by FDH Engineering, Inc. Dated 06-03-2014. Project No 1466BU1400.
<b>Foundation Drawing</b>	Original foundation report prepared by Fred. A. Nudd Corporation. Dated 11-02-2000. Drawing No 00-7221-1. Project No 4275-011.
<b>Geotechnical Report</b>	Geotechnical report prepared by Jaworski Geotech, Inc. Dated 11-29-1999. Project No 99503G.
<b>Modification Drawings</b>	Previous modifications by Vertical Structures, Inc. Dated 10-07-2008. Job No 2008-007-029. / Post rework report prepared by Vertical Structures, Inc. Dated 01-13-2009. Job No 2009-012-001.
<b>Mount Analysis</b>	Maser Consulting Connecticut Project #: 21777297A (Rev. 2). Dated 03-01-2022
<b>Mount Mod Drawings</b>	Maser Consulting Connecticut Job# 21777297A. Dated 03-02-2022

## Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA-222-G-2. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

<b>Wind Speed Used in the Analysis:</b>	Ultimate Design Wind Speed $V_{ult} = 120.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 93.0$ mph (3-Sec. Gust)
<b>Wind Speed with Ice:</b>	50 mph (3-Sec. Gust) with 1" radial ice concurrent
<b>Operational Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	TIA-222-G-2 / 2015 IBC / 2018 Connecticut State Building Code
<b>Exposure Category:</b>	B
<b>Structure Class:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_S = 0.178$ , $S_1 = 0.065$

This structural analysis is based upon the tower being classified as a Structure 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.

## Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft.)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	161.0	2	Cellwave PD220 20' Omni	(3) T-Arms w/ Working Platforms	(1) 1 5/8"	North Canton Volunteer
2	159.0	1	Cellwave TD1142 14' Omni		(1) 1 5/8"	
-	150.0	3	Antel BXA-70063/6CF - Panel		(18) 1 5/8" (1) 1/2"	Verizon
-		2	Antel BXA-171085-12BF - Panel			
-		2	Antel LPA-80063/6CF - Panel			
-		1	Antel BXA-171063/12BF-2 - Panel			
-		4	Antel LPA-80080/6CF - Panel			
-	1	ADC DD1900				
10	138.0	6	Powerwave 7770.00 - Panel	Low Profile Platform	(12) 1 5/8". (3) 1/2". [ (2) 3/4" DC Power & (1) 7/16" Fiber within (1) 3" Innerduct]	AT&T
11		3	Powerwave P65-17-XLH-RR - Panel			
12		3	Decibel 978QNB120E-M - Panel			
13		6	Ericsson RRUS-11			
14		6	Powerwave LGP 21401			
15		6	Powerwave 21903			
16		1	Commscope ABT-DF-DM-ADBH			
17		1	Raycap DC6-48-60-18-8F			
18	129.0	3	RFS APXVAARR24_43-U-NA20 - Panel	(3) T-Arms w/ Support Rail Pipe (MS-P-TARM) w/ T-Arms	(3) 1 5/8" (4) 1 5/8" Fiber.	T-Mobile
19		3	Ericsson Air 21 B4A/B2P - Panel			
20		3	Ericsson Air 32 KRD901146- 1_B66A_B2A - Panel			
21		3	Ericsson Radio 4449 B71+B12 RRU's			
22	105.0	3	JMA Wireless MX08FRO665-21	Platform w/ HRK Commscope MC-PK8- DSH	(1) 1.6" Hybrid	Dish Wireless
23		3	Fujitsu TA08025-B605			
24		3	Fujitsu TA08025-B604			
25		1	Raycap RDIDC-9181-PF-48			
26	92.0	1	MYA 4505 4' Yagi	(1) Standoff	(2) 1/2"	North Canton Volunteer

## Proposed Carrier’s Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier’s final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
3	150.0	6	Commscope NHH-65B-R2B - Panel	(3) T-Arms w/ Working Platforms (3) Commscope BSAMNT-SBS-1-2	(1) 5/8” Hybrid 12x24 Hybriflex LI (17) 1 5/8”	Verizon
4		3	Samsung MT6407-77A - Panel			
5		1	ADC DD1900			
6		3	Samsung RF4439d-25A			
7		3	Samsung RF4440d-13A			
8		1	Raycap RVZDC-6627-PF-48 – OVP Box			
9		1	ADC DD1900 -GPS			

See the attached coax layout for the line placement considered in the analysis.

## **Analysis Results**

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	<b>62.8%</b>	<b>50.1%</b>	<b>75.6%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	2787.7	24.5	45.8

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

## **Operational Condition (Rigidity):**

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.3300 degrees under the operational wind speed as specified in the Analysis Criteria.

## **Conclusions**

Based on the analysis results, the existing structure and its foundation were found to be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222 Standard under the design basic wind speed as specified in the Analysis Criteria.

## Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The structural analysis was performance based upon the evidence available at the time of this report. All information provided by the client is considered to be accurate.
3. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed and/or ice loads are different from the minimum values recommended by the ANSI/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
4. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
5. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
6. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

## Usage Diagram - Max Ratio 62.77% at 50.0ft

**Structure:** CT01500-S-SBA  
**Site Name:** Canton 2 CT  
**Height:** 150.00 (ft)  
**Base Elev:** 0.000 (ft)

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

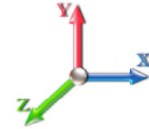
4/5/2022



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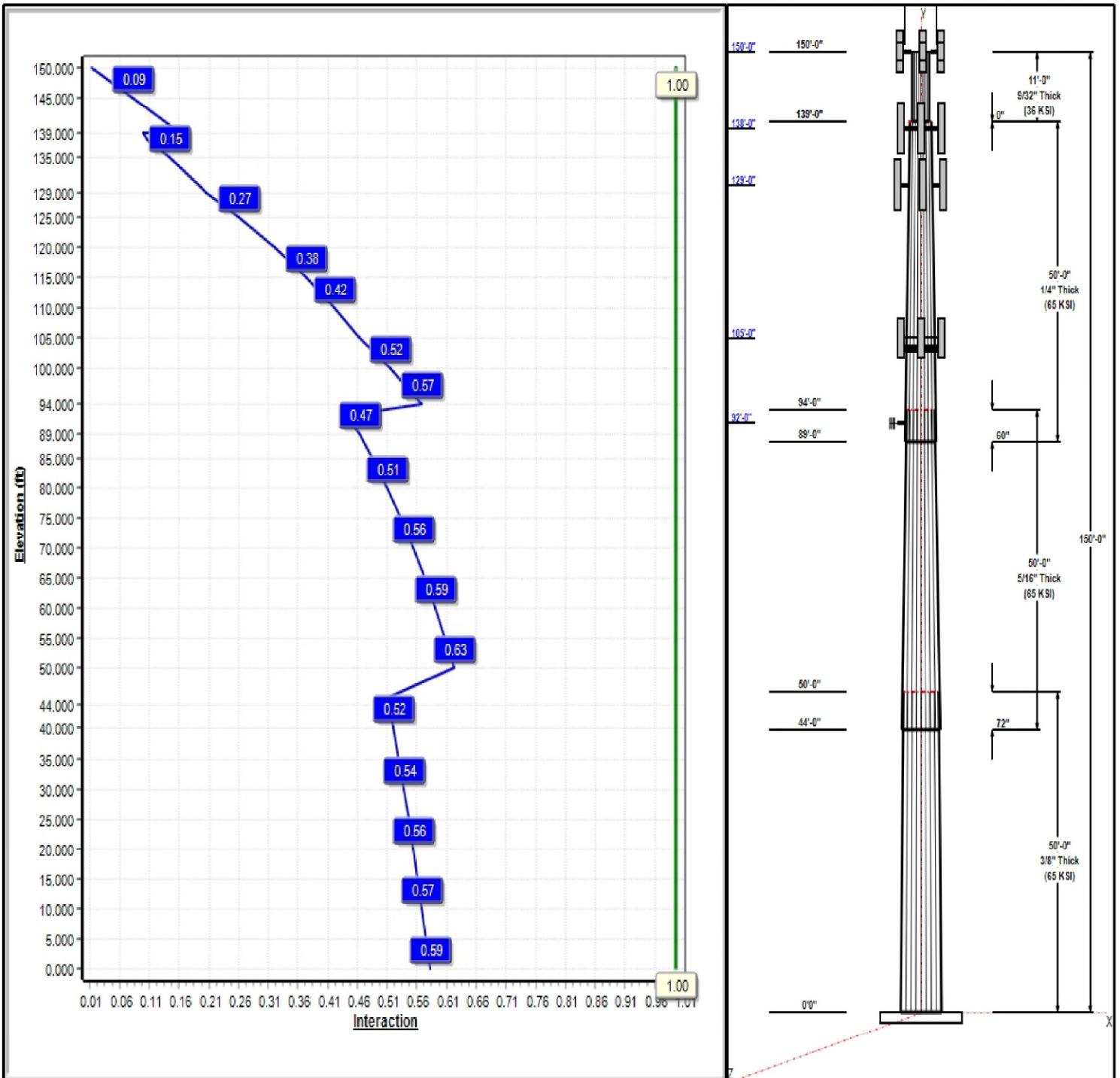
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.60

**Load Case : 1.2D + 1.6W 93 mph Wind**



**Iterations:** 24

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## Structure: CT01500-S-SBA

**Type:** Custom  
**Site Name:** Canton 2 CT  
**Height:** 150.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.23471

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### Shaft Properties

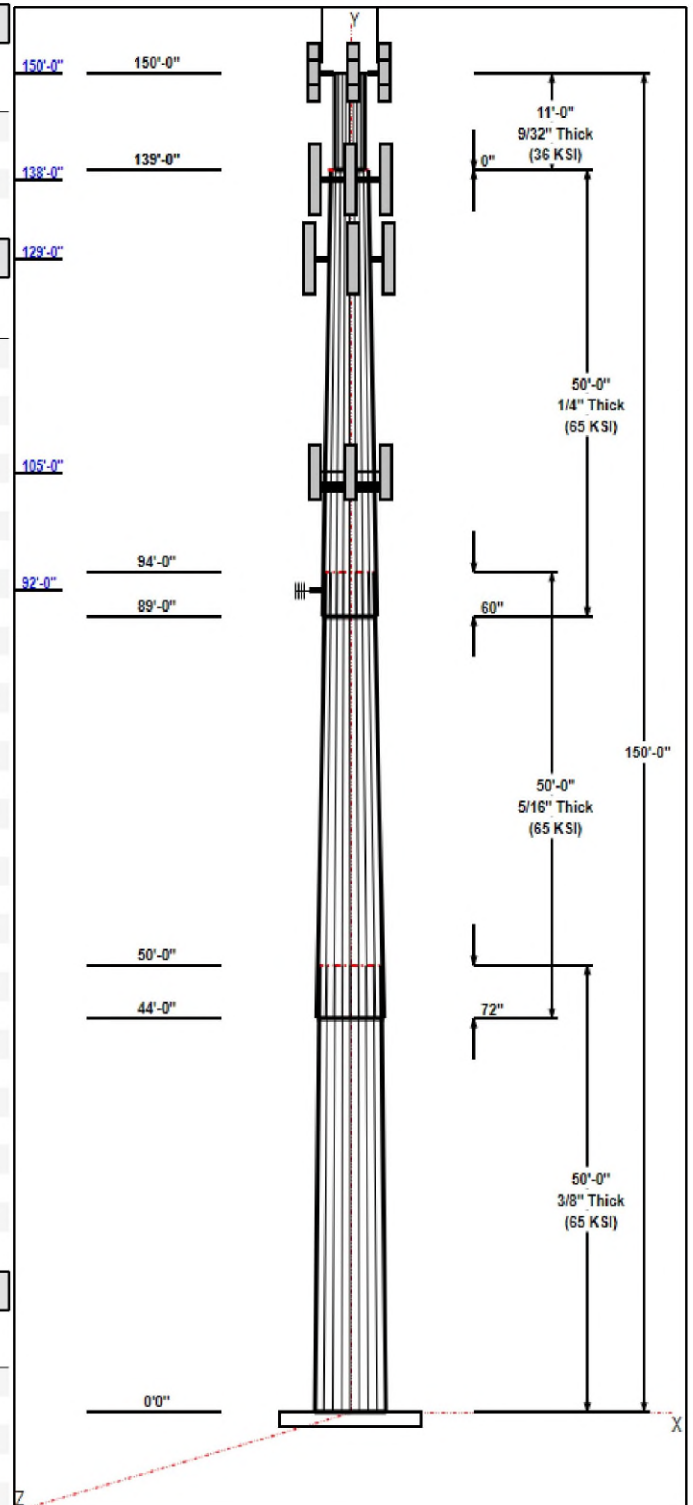
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	50.00	43.76	55.50	0.375		0.23471	65
2	50.00	34.06	45.80	0.313	Slip	0.23471	65
3	50.00	24.00	35.74	0.250	Slip	0.23471	65
4	11.00	24.00	24.00	0.281	Butt	0.00000	36

### Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
150.00	161.00	2	Cellwave PD220 20' Omni	North Canton
150.00	159.00	1	Cellwave TD1142 14' Omni	North Canton
150.00	150.00	1	ADC DD1900	Verizon
150.00	150.00	3	T-Arms w/ Working	Verizon
150.00	150.00	6	Commscope	Verizon
150.00	150.00	3	Samsung MT6407-77A	Verizon
150.00	150.00	3	Commscope	Verizon
150.00	150.00	3	Samsung RF4439d-25A	Verizon
150.00	150.00	3	Samsung RF4440d-13A	Verizon
150.00	150.00	1	Raycap	Verizon
138.00	138.00	6	Ericsson RRUS-11	AT&T
138.00	138.00	6	Powerwave LGP 21401	AT&T
138.00	138.00	6	Powerwave 21903	AT&T
138.00	138.00	1	Commscope	AT&T
138.00	138.00	1	Raycap DC6-48-60-18-8F	AT&T
138.00	138.00	1	Low Profile Platform	AT&T
138.00	138.00	6	Powerwave 7770.00	AT&T
138.00	138.00	3	Powerwave	AT&T
138.00	138.00	3	Decibel 978QNB120E-M	AT&T
129.00	129.00	3	T-Arms	T-Mobile
129.00	129.00	3	RFS	T-Mobile
129.00	129.00	3	Ericsson Air 21 B4A/B2P	T-Mobile
129.00	129.00	3	Ericsson Air 32	T-Mobile
129.00	129.00	3	Ericsson Radio 4449	T-Mobile
129.00	129.00	1	Support Rail Pipe	T-Mobile
105.00	105.00	3	MX08FRO665-21	Dish Wireless
105.00	105.00	3	TA08025-B604	Dish Wireless
105.00	105.00	3	TA08025-B605	Dish Wireless
105.00	105.00	1	RDIDC-9181-OF-48	Dish Wireless
105.00	105.00	1	MC-PK8-DSH	Dish Wireless
92.00	92.00	1	MYA 4505 4' Yagi	North Canton
92.00	92.00	1	Standoff	North Canton

### Linear Appurtenances

Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
3.00	150.00	Inside	1 5/8" 12x24 Hybriflex	Verizon
3.00	150.00	Inside	1 5/8" Coax	North Canton
3.00	150.00	Inside	1 5/8" Coax	Verizon
3.00	138.00	Inside	1 5/8" Coax	AT&T
3.00	138.00	Inside	1/2" Coax	AT&T
3.00	138.00	Inside	3" Innerduct	AT&T
3.00	138.00	Inside	3/4" DC Power	AT&T
3.00	138.00	Inside	7/16" Fiber	AT&T
3.00	129.00	Inside	1 5/8" Coax	T-Mobile
3.00	129.00	Inside	1 5/8" Fiber	T-Mobile



**Structure: CT01500-S-SBA**

**Type:** Custom  
**Site Name:** Canton 2 CT  
**Height:** 150.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 18 Sided  
**Taper:** 0.00000

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3.00	119.00	Inside	1.619" Hybrid	Sprint Nextel
3.00	105.00	Inside	1.619" Hybrid	Dish Wireless
3.00	92.00	Inside	1/2" Coax	North Canton

**Anchor Bolts**

Qty	Specifications	Grade (ksi)	Arrangement
18	2.00" F1554 105	105.0	Radial

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	68.0	50.0	Round

**Reactions**

Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.6W 93 mph Wind	2787.7	24.5	45.7
0.9D + 1.6W 93 mph Wind	2754.6	24.5	34.3
1.2D + 1.0Di + 1.0Wi 50 mph Wind	953.5	8.2	80.3
1.2D + 1.0E	232.8	1.9	45.8
0.9D + 1.0E	229.8	1.9	34.3
1.0D + 1.0W 60 mph Wind	720.2	6.4	38.2



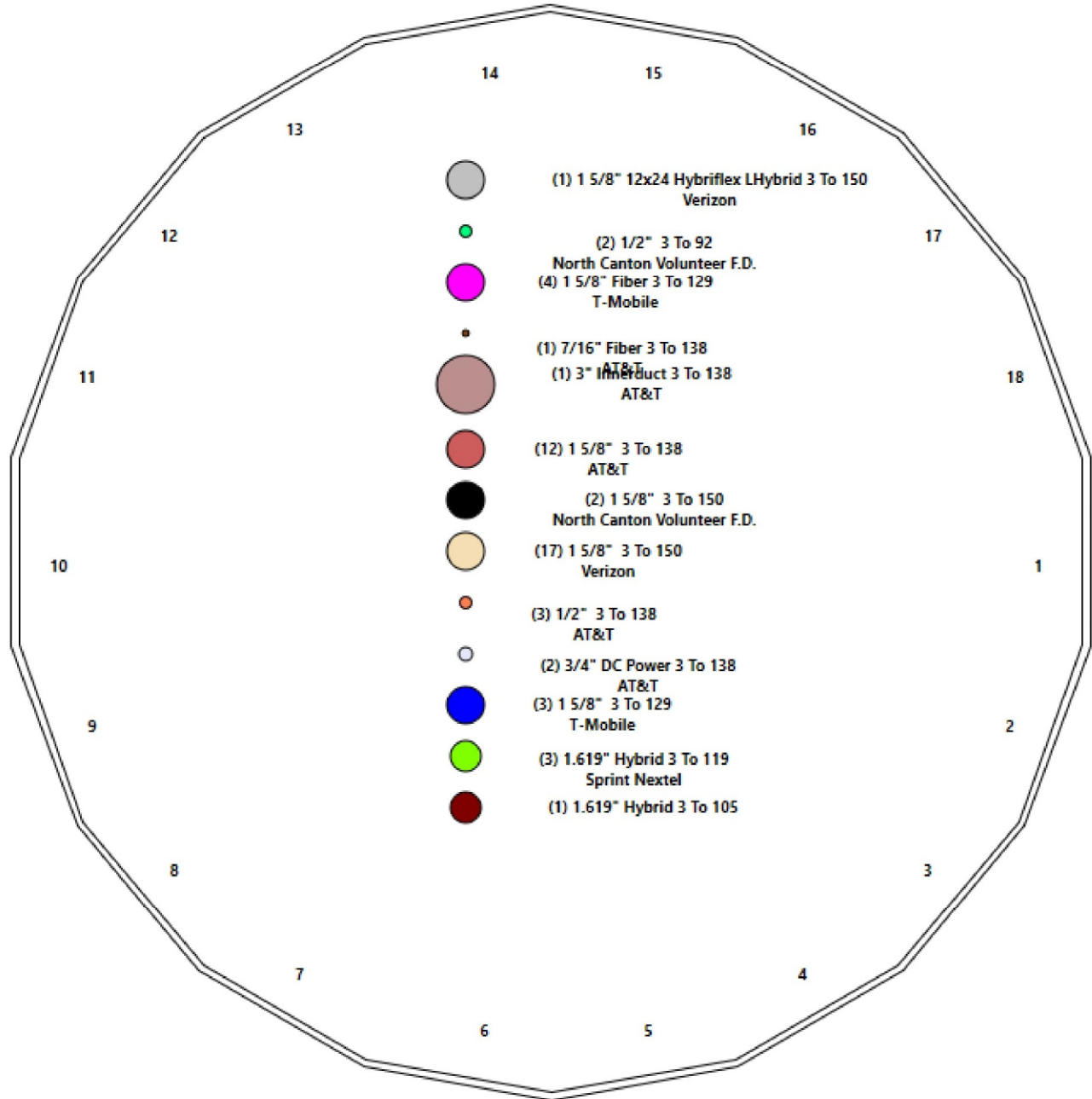
# Structure: CT01500-S-SBA - Coax Line Placement

Type: Monopole  
Site Name: Canton 2 CT  
Height: 150.00 (ft)

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## Shaft Properties

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	50.000	0.3750	65		0.00	9,975
2	18	50.000	0.3125	65	Slip	72.00	6,685
3	18	50.000	0.2500	65	Slip	60.00	3,998
4	18	11.000	0.2813	36	Flange	0.00	793
<b>Total Shaft Weight:</b>							<b>21,451</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	55.50	0.00	65.61	25189.61	24.69	148.00	43.76	50.00	51.64	12283.6	19.17	116.7	0.234712
2	45.80	44.00	45.11	11792.44	24.43	146.55	34.06	94.00	33.47	4817.24	17.81	109.0	0.234712
3	35.74	89.00	28.16	4479.62	23.79	142.94	24.00	139.00	18.84	1343.00	15.52	96.00	0.234712
4	24.00	139.0	21.17	1504.92	13.64	85.33	24.00	150.00	21.17	1504.92	13.64	85.33	0.000000

## Load Summary

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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> 6



### 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	150.00	Cellwave PD220 20' Omni	2	55.00	6.00	1.00	255.88	15.460	1.00	0.00	11.00
2	150.00	Cellwave TD1142 14' Omni	1	40.00	4.20	1.00	181.18	10.869	1.00	0.00	9.00
3	150.00	ADC DD1900	1	15.40	1.10	0.60	47.58	2.492	0.60	0.00	0.00
4	150.00	T-Arms w/ Working Platforms	3	500.00	18.20	0.75	1430.78	43.610	0.75	0.00	0.00
5	150.00	Commscope NHH-65B-R2B	6	71.20	11.18	0.74	417.40	12.949	0.74	0.00	0.00
6	150.00	Samsung MT6407-77A	3	79.40	4.69	0.70	250.17	5.973	0.70	0.00	0.00
7	150.00	Commscope BSAMNT-SBS-1-2	3	25.35	0.00	1.00	48.95	0.000	1.00	0.00	0.00
8	150.00	Samsung RF4439d-25A	3	74.70	2.50	0.67	209.59	3.868	0.67	0.00	0.00
9	150.00	Samsung RF4440d-13A	3	74.70	2.45	0.67	209.59	3.791	0.67	0.00	0.00
10	150.00	Raycap RVZDC-6627-PF-48	1	32.00	4.06	0.67	183.90	5.156	0.67	0.00	0.00
11	138.00	Ericsson RRUS-11	6	50.70	2.52	0.67	165.61	3.406	0.67	0.00	0.00
12	138.00	Powerwave LGP 21401	6	17.50	1.05	0.60	66.56	1.670	0.60	0.00	0.00
13	138.00	Powerwave 21903	6	5.50	0.20	0.60	16.64	0.590	0.60	0.00	0.00
14	138.00	Commscope ABT-DF-DM-ADBH	1	1.10	0.04	0.60	4.05	0.244	0.60	0.00	0.00
15	138.00	Raycap DC6-48-60-18-8F	1	16.00	2.20	0.67	93.00	3.485	0.67	0.00	0.00
16	138.00	Low Profile Platform	1	1500.00	22.00	1.00	3230.72	45.353	1.00	0.00	0.00
17	138.00	Powerwave 7770.00	6	35.00	5.51	0.77	227.04	6.938	0.77	0.00	0.00
18	138.00	Powerwave P65-17-XLH-RR	3	59.00	11.44	0.80	345.41	15.717	0.80	0.00	0.00
19	138.00	Decibel 978QNB120E-M	3	35.00	7.59	0.69	231.23	10.455	0.69	0.00	0.00
20	129.00	T-Arms	3	350.00	8.00	0.75	670.90	17.169	0.75	0.00	0.00
21	129.00	RFS APXVAARR24_43-U-NA20	3	128.00	20.24	0.72	698.97	22.765	0.72	0.00	0.00
22	129.00	Ericsson Air 21 B4A/B2P	3	90.30	6.04	0.85	323.32	7.502	0.85	0.00	0.00
23	129.00	Ericsson Air 32	3	132.20	6.51	0.86	386.88	8.013	0.86	0.00	0.00
24	129.00	Ericsson Radio 4449 B71+B12	3	74.00	1.63	0.67	169.73	2.353	0.67	0.00	0.00
25	129.00	Support Rail Pipe (MS-P-TARM)	1	261.72	6.75	1.00	669.65	15.414	1.00	0.00	0.00
26	105.00	MX08FRO665-21	3	64.50	12.49	0.74	438.74	14.375	0.74	0.00	0.00
27	105.00	TA08025-B604	3	63.90	1.96	0.67	129.04	2.682	0.67	0.00	0.00
28	105.00	TA08025-B605	3	75.00	1.96	0.67	142.30	2.682	0.67	0.00	0.00
29	105.00	RDIDC-9181-OF-48	1	21.90	2.01	0.67	90.41	2.741	0.67	0.00	0.00
30	105.00	MC-PK8-DSH	1	1727.00	37.59	1.00	3898.59	98.362	1.00	0.00	0.00
31	92.00	MYA 4505 4' Yagi	1	15.00	2.50	1.00	199.12	10.903	1.00	0.00	0.00
32	92.00	Standoff	1	40.00	2.63	1.00	141.93	10.209	1.00	0.00	0.00
<b>Totals:</b>			<b>88</b>	<b>10,337.67</b>			<b>31,668.19</b>				

### Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
3.00	150.00	(1) 1 5/8" 12x24 Hybriflex LHybrid	0.00	Inside
3.00	150.00	(2) 1 5/8" Coax	0.00	Inside
3.00	150.00	(17) 1 5/8" Coax	0.00	Inside
3.00	138.00	(12) 1 5/8" Coax	0.00	Inside
3.00	138.00	(3) 1/2" Coax	0.00	Inside
3.00	138.00	(1) 3" Innerduct	0.00	Inside
3.00	138.00	(2) 3/4" DC Power	0.00	Inside
3.00	138.00	(1) 7/16" Fiber	0.00	Inside
3.00	129.00	(3) 1 5/8" Coax	0.00	Inside

## 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		
3.00	129.00	(4) 1 5/8" Fiber		0.00		Inside					
3.00	119.00	(3) 1.619" Hybrid		0.00		Inside					
3.00	105.00	(1) 1.619" Hybrid		0.00		Inside					
3.00	92.00	(2) 1/2" Coax		0.00		Inside					

## Shaft Section Properties

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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	55.500	65.610	25189.6	24.69	148.00	72.4	893.9	0.0
5.00		0.3750	54.326	64.213	23614.8	24.13	144.87	73.0	856.2	1104.4
10.00		0.3750	53.153	62.817	22107.1	23.58	141.74	73.7	819.2	1080.6
15.00		0.3750	51.979	61.420	20664.9	23.03	138.61	74.3	783.0	1056.9
20.00		0.3750	50.806	60.023	19286.9	22.48	135.48	75.0	747.7	1033.1
25.00		0.3750	49.632	58.626	17971.5	21.93	132.35	75.6	713.2	1009.3
30.00		0.3750	48.459	57.229	16717.4	21.37	129.22	76.3	679.5	985.6
35.00		0.3750	47.285	55.833	15522.9	20.82	126.09	76.9	646.6	961.8
40.00		0.3750	46.112	54.436	14386.8	20.27	122.96	77.6	614.5	938.0
44.00	Bot - Section 2	0.3750	45.173	53.318	13518.9	19.83	120.46	78.1	589.5	733.3
45.00		0.3750	44.938	53.039	13307.5	19.72	119.83	78.2	583.3	334.1
50.00	Top - Section 1	0.3125	44.389	43.717	10730.7	23.64	142.05	0.0	0.0	1644.2
55.00		0.3125	43.216	42.553	9896.2	22.97	138.29	74.4	451.0	733.9
60.00		0.3125	42.042	41.389	9106.1	22.31	134.54	75.2	426.6	714.1
65.00		0.3125	40.869	40.225	8359.2	21.65	130.78	75.9	402.9	694.3
70.00		0.3125	39.695	39.061	7654.4	20.99	127.02	76.7	379.8	674.5
75.00		0.3125	38.522	37.897	6990.3	20.33	123.27	77.5	357.4	654.7
80.00		0.3125	37.348	36.733	6365.8	19.66	119.51	78.3	335.7	634.9
85.00		0.3125	36.174	35.569	5779.6	19.00	115.76	79.1	314.7	615.1
89.00	Bot - Section 3	0.3125	35.236	34.638	5337.4	18.47	112.75	79.7	298.4	477.8
90.00		0.3125	35.001	34.405	5230.5	18.34	112.00	79.8	294.3	213.0
92.00		0.3125	34.531	33.940	5021.1	18.07	110.50	80.1	286.4	421.7
94.00	Top - Section 2	0.2500	34.562	27.226	4049.7	22.97	138.25	0.0	0.0	415.9
95.00		0.2500	34.327	27.039	3967.2	22.80	137.31	74.6	227.6	92.3
100.00		0.2500	33.154	26.108	3571.3	21.97	132.62	75.6	212.2	452.1
105.00		0.2500	31.980	25.177	3202.6	21.15	127.92	76.5	197.2	436.3
110.00		0.2500	30.807	24.246	2860.2	20.32	123.23	77.5	182.9	420.4
115.00		0.2500	29.633	23.315	2543.2	19.49	118.53	78.5	169.0	404.6
120.00		0.2500	28.460	22.383	2250.5	18.66	113.84	79.5	155.7	388.8
125.00		0.2500	27.286	21.452	1981.1	17.83	109.14	80.4	143.0	372.9
129.00		0.2500	26.347	20.707	1781.8	17.17	105.39	81.2	133.2	286.9
130.00		0.2500	26.112	20.521	1734.2	17.01	104.45	81.4	130.8	70.1
135.00		0.2500	24.939	19.590	1508.6	16.18	99.76	82.4	119.1	341.2
138.00		0.2500	24.235	19.031	1383.2	15.68	96.94	82.5	112.4	197.1
139.00	Top - Section 3	0.2500	24.000	18.845	1343.0	15.52	96.00	82.5	110.2	64.4
139.00	Bot - Section 4	0.2813	24.000	21.173	1504.9	13.79	85.33	45.7	123.5	
140.00		0.2813	24.000	21.173	1504.9	13.64	85.33	45.7	123.5	72.0
145.00		0.2813	24.000	21.173	1504.9	13.64	85.33	45.7	123.5	360.2
150.00		0.2813	24.000	21.173	1504.9	13.64	85.33	45.7	123.5	360.2

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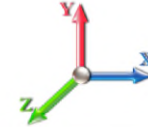
## Wind Loading - Shaft

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 9
	<b>Struct Class:</b> II	



**Load Case:** 1.2D + 1.6W 93 mph Wind

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



**Iterations** 24

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	0.70	14.724	16.20	365.42	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	14.724	16.20	357.69	0.650	0.000	5.00	23.233	15.10	391.4	0.0	1325.3
10.00		1.00	0.70	14.724	16.20	349.97	0.650	0.000	5.00	22.737	14.78	383.0	0.0	1296.8
15.00		1.00	0.70	14.724	16.20	342.24	0.650	0.000	5.00	22.240	14.46	374.6	0.0	1268.2
20.00		1.00	0.70	14.724	16.20	334.51	0.650	0.000	5.00	21.744	14.13	366.3	0.0	1239.7
25.00		1.00	0.70	14.724	16.20	326.79	0.650	0.000	5.00	21.247	13.81	357.9	0.0	1211.2
30.00		1.00	0.70	14.736	16.21	319.19	0.650	0.000	5.00	20.751	13.49	349.8	0.0	1182.7
35.00		1.00	0.73	15.400	16.94	318.40	0.650	0.000	5.00	20.254	13.17	356.8	0.0	1154.2
40.00		1.00	0.76	15.999	17.60	316.48	0.650	0.000	5.00	19.758	12.84	361.6	0.0	1125.7
44.00	Bot - Section 2	1.00	0.78	16.441	18.08	314.28	0.650	0.000	4.00	15.449	10.04	290.6	0.0	880.0
45.00		1.00	0.79	16.546	18.20	313.65	0.650	0.000	1.00	3.865	2.51	73.2	0.0	400.9
50.00	Top - Section 1	1.00	0.81	17.052	18.76	310.10	0.650	0.000	5.00	19.029	12.37	371.2	0.0	1973.1
55.00		1.00	0.83	17.523	19.28	310.41	0.650	0.000	5.00	18.533	12.05	371.5	0.0	880.7
60.00		1.00	0.85	17.964	19.76	305.75	0.650	0.000	5.00	18.036	11.72	370.7	0.0	856.9
65.00		1.00	0.87	18.380	20.22	300.64	0.650	0.000	5.00	17.540	11.40	368.8	0.0	833.1
70.00		1.00	0.89	18.773	20.65	295.11	0.650	0.000	5.00	17.043	11.08	366.0	0.0	809.4
75.00		1.00	0.91	19.147	21.06	289.22	0.650	0.000	5.00	16.547	10.76	362.4	0.0	785.6
80.00		1.00	0.93	19.503	21.45	283.01	0.650	0.000	5.00	16.050	10.43	358.1	0.0	761.9
85.00		1.00	0.94	19.844	21.83	276.50	0.650	0.000	5.00	15.553	10.11	353.1	0.0	738.1
89.00	Bot - Section 3	1.00	0.96	20.106	22.12	271.10	0.650	0.000	4.00	12.085	7.86	278.0	0.0	573.4
90.00		1.00	0.96	20.170	22.19	269.73	0.650	0.000	1.00	3.014	1.96	69.5	0.0	255.6
92.00	Appurtenance(s)	1.00	0.96	20.297	22.33	266.94	0.650	0.000	2.00	5.968	3.88	138.6	0.0	506.0
94.00	Top - Section 2	1.00	0.97	20.423	22.46	264.13	0.650	0.000	2.00	5.889	3.83	137.6	0.0	499.1
95.00		1.00	0.97	20.484	22.53	266.59	0.650	0.000	1.00	2.915	1.89	68.3	0.0	110.8
100.00		1.00	0.99	20.787	22.87	259.37	0.650	0.000	5.00	14.275	9.28	339.5	0.0	542.5
105.00	Appurtenance(s)	1.00	1.00	21.079	23.19	251.93	0.650	0.000	5.00	13.779	8.96	332.3	0.0	523.5
110.00		1.00	1.02	21.361	23.50	244.31	0.650	0.000	5.00	13.282	8.63	324.6	0.0	504.5
115.00		1.00	1.03	21.634	23.80	236.50	0.650	0.000	5.00	12.786	8.31	316.4	0.0	485.5
120.00		1.00	1.04	21.898	24.09	228.52	0.650	0.000	5.00	12.289	7.99	307.9	0.0	466.5
125.00		1.00	1.05	22.155	24.37	220.38	0.650	0.000	5.00	11.793	7.67	298.9	0.0	447.5
129.00	Appurtenance(s)	1.00	1.06	22.356	24.59	213.75	0.650	0.000	4.00	9.077	5.90	232.1	0.0	344.3
130.00		1.00	1.07	22.405	24.65	212.08	0.650	0.000	1.00	2.220	1.44	56.9	0.0	84.2
135.00		1.00	1.08	22.648	24.91	203.65	0.650	0.000	5.00	10.800	7.02	279.8	0.0	409.5
138.00	Appurtenance(s)	1.00	1.08	22.790	25.07	198.52	0.650	0.000	3.00	6.242	4.06	162.7	0.0	236.6
139.00	Top - Section 3	1.00	1.09	22.838	25.12	196.80	0.650	0.000	1.00	2.041	1.33	53.3	0.0	77.3
140.00		1.00	1.09	22.884	25.17	197.00	0.650	0.000	1.00	2.031	1.32	53.2	0.0	86.5
145.00		1.00	1.10	23.115	25.43	197.99	0.650	0.000	5.00	10.154	6.60	268.5	0.0	432.3
150.00	Appurtenance(s)	1.00	1.11	23.340	25.67	198.95	0.650	0.000	5.00	10.154	6.60	271.1	0.0	432.3
<b>Totals:</b>									<b>150.00</b>			<b>10,216.1</b>		<b>25,741.2</b>

## Discrete Appurtenance Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

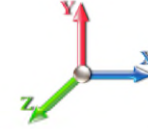


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**Load Case:** 1.2D + 1.6W 93 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.60



**Iterations** 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	Commscope	6	23.340	25.674	0.74	1.00	49.64	512.64	0.000	0.000	2039.09	0.00	0.00	
2	150.00	Cellwave PD220 20' Omni	2	23.817	26.198	1.00	1.00	12.00	132.00	0.000	11.000	503.01	0.00	5533.09	
3	150.00	Cellwave TD1142 14'	1	23.732	26.105	1.00	1.00	4.20	48.00	0.000	9.000	175.43	0.00	1578.83	
4	150.00	ADC DD1900	1	23.340	25.674	0.60	1.00	0.66	18.48	0.000	0.000	27.11	0.00	0.00	
5	150.00	T-Arms w/ Working	3	23.340	25.674	0.56	0.75	30.71	1800.00	0.000	0.000	1261.62	0.00	0.00	
6	150.00	Raycap	1	23.340	25.674	0.54	0.80	2.18	38.40	0.000	0.000	89.39	0.00	0.00	
7	150.00	Samsung MT6407-77A	3	23.340	25.674	0.70	1.00	9.85	285.84	0.000	0.000	404.58	0.00	0.00	
8	150.00	Commscope	3	23.340	25.674	1.00	1.00	0.00	91.26	0.000	0.000	0.00	0.00	0.00	
9	150.00	Samsung RF4439d-25A	3	23.340	25.674	0.54	0.80	4.02	268.92	0.000	0.000	165.13	0.00	0.00	
10	150.00	Samsung RF4440d-13A	3	23.340	25.674	0.54	0.80	3.94	268.92	0.000	0.000	161.83	0.00	0.00	
11	138.00	Decibel 978QNB120E-M	3	22.790	25.070	0.55	0.80	12.57	126.00	0.000	0.000	504.16	0.00	0.00	
12	138.00	Powerwave	3	22.790	25.070	0.64	0.80	21.96	212.40	0.000	0.000	881.04	0.00	0.00	
13	138.00	Powerwave 7770.00	6	22.790	25.070	0.62	0.80	20.36	252.00	0.000	0.000	816.86	0.00	0.00	
14	138.00	Low Profile Platform	1	22.790	25.070	1.00	1.00	22.00	1800.00	0.000	0.000	882.45	0.00	0.00	
15	138.00	Raycap DC6-48-60-18-8F	1	22.790	25.070	0.54	0.80	1.18	19.20	0.000	0.000	47.30	0.00	0.00	
16	138.00	Commscope	1	22.790	25.070	0.48	0.80	0.02	1.32	0.000	0.000	0.77	0.00	0.00	
17	138.00	Powerwave 21903	6	22.790	25.070	0.48	0.80	0.58	39.60	0.000	0.000	23.10	0.00	0.00	
18	138.00	Ericsson RRUS-11	6	22.790	25.070	0.54	0.80	8.10	365.04	0.000	0.000	325.07	0.00	0.00	
19	138.00	Powerwave LGP 21401	6	22.790	25.070	0.48	0.80	3.02	126.00	0.000	0.000	121.30	0.00	0.00	
20	129.00	Ericsson Air 32	3	22.356	24.591	0.69	0.80	13.44	475.92	0.000	0.000	528.67	0.00	0.00	
21	129.00	Ericsson Air 21 B4A/B2P	3	22.356	24.591	0.68	0.80	12.32	325.08	0.000	0.000	484.80	0.00	0.00	
22	129.00	RFS	3	22.356	24.591	0.58	0.80	34.97	460.80	0.000	0.000	1376.11	0.00	0.00	
23	129.00	Ericsson Radio 4449	3	22.356	24.591	0.54	0.80	2.62	266.40	0.000	0.000	103.13	0.00	0.00	
24	129.00	Support Rail Pipe	1	22.356	24.591	0.75	0.75	5.06	314.06	0.000	0.000	199.19	0.00	0.00	
25	129.00	T-Arms	3	22.356	24.591	0.56	0.75	13.50	1260.00	0.000	0.000	531.17	0.00	0.00	
26	105.00	MC-PK8-DSH	1	21.079	23.186	1.00	1.00	37.59	2072.40	0.000	0.000	1394.53	0.00	0.00	
27	105.00	RDIDC-9181-OF-48	1	21.079	23.186	0.50	0.75	1.01	26.28	0.000	0.000	37.47	0.00	0.00	
28	105.00	TA08025-B605	3	21.079	23.186	0.50	0.75	2.95	270.00	0.000	0.000	109.61	0.00	0.00	
29	105.00	TA08025-B604	3	21.079	23.186	0.50	0.75	2.95	230.04	0.000	0.000	109.61	0.00	0.00	
30	105.00	MX08FRO665-21	3	21.079	23.186	0.55	0.75	20.80	232.20	0.000	0.000	771.49	0.00	0.00	
31	92.00	Standoff	1	20.297	22.327	1.00	1.00	2.63	48.00	0.000	0.000	93.95	0.00	0.00	
32	92.00	MYA 4505 4' Yagi	1	20.297	22.327	1.00	1.00	2.50	18.00	0.000	0.000	89.31	0.00	0.00	
<b>Totals:</b>									<b>12,405.20</b>						<b>14,258.29</b>

## Total Applied Force Summary

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

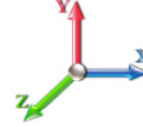


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**Load Case:** 1.2D + 1.6W 93 mph Wind

**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		391.35	1437.00	0.00	0.00
10.00		382.99	1576.06	0.00	0.00
15.00		374.62	1547.55	0.00	0.00
20.00		366.26	1519.03	0.00	0.00
25.00		357.90	1490.51	0.00	0.00
30.00		349.83	1461.99	0.00	0.00
35.00		356.83	1433.48	0.00	0.00
40.00		361.62	1404.96	0.00	0.00
44.00		290.56	1103.43	0.00	0.00
45.00		73.17	456.75	0.00	0.00
50.00		371.21	2252.37	0.00	0.00
55.00		371.51	1159.98	0.00	0.00
60.00		370.66	1136.21	0.00	0.00
65.00		368.79	1112.45	0.00	0.00
70.00		366.02	1088.68	0.00	0.00
75.00		362.43	1064.92	0.00	0.00
80.00		358.10	1041.15	0.00	0.00
85.00		353.08	1017.39	0.00	0.00
89.00		277.98	796.80	0.00	0.00
90.00		69.55	311.42	0.00	0.00
92.00	(2) attachments	321.85	683.70	0.00	0.00
94.00		137.59	610.09	0.00	0.00
95.00		68.30	166.27	0.00	0.00
100.00		339.47	819.93	0.00	0.00
105.00	(11) attachments	2754.98	3631.84	0.00	0.00
110.00		324.58	775.90	0.00	0.00
115.00		316.44	756.89	0.00	0.00
120.00		307.87	734.28	0.00	0.00
125.00		298.90	700.87	0.00	0.00
129.00	(16) attachments	3455.20	3649.27	0.00	0.00
130.00		56.89	126.11	0.00	0.00
135.00		279.81	619.17	0.00	0.00
138.00	(33) attachments	3764.78	3303.93	0.00	0.00
139.00		53.32	102.36	0.00	0.00
140.00		53.17	111.49	0.00	0.00
145.00		268.51	557.44	0.00	0.00
150.00	(26) attachments	5098.32	4021.90	0.00	7111.92
	<b>Totals:</b>	<b>24,474.44</b>	<b>45,783.57</b>	<b>0.00</b>	<b>7,111.92</b>



## Calculated Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 + 1.6W 93 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	-45.75	-24.54	0.00	-2787.7	0.00	2787.75	4273.14	2136.57	9689.25	4851.82	0.00	0.000	0.000	0.585
5.00	-44.25	-24.26	0.00	-2665.0	0.00	2665.07	4219.68	2109.84	9362.95	4688.43	0.08	-0.154	0.000	0.579
10.00	-42.61	-23.99	0.00	-2543.7	0.00	2543.75	4164.59	2082.29	9038.31	4525.87	0.33	-0.311	0.000	0.572
15.00	-41.00	-23.72	0.00	-2423.7	0.00	2423.79	4107.86	2053.93	8715.56	4364.26	0.74	-0.471	0.000	0.565
20.00	-39.41	-23.45	0.00	-2305.1	0.00	2305.18	4049.50	2024.75	8394.94	4203.71	1.32	-0.633	0.000	0.558
25.00	-37.86	-23.19	0.00	-2187.9	0.00	2187.91	3989.51	1994.75	8076.69	4044.35	2.07	-0.799	0.000	0.551
30.00	-36.34	-22.92	0.00	-2071.9	0.00	2071.97	3927.89	1963.94	7761.05	3886.29	3.00	-0.968	0.000	0.543
35.00	-34.84	-22.65	0.00	-1957.3	0.00	1957.35	3864.63	1932.32	7448.26	3729.66	4.11	-1.139	0.000	0.534
40.00	-33.38	-22.35	0.00	-1844.1	0.00	1844.12	3799.75	1899.87	7138.54	3574.58	5.39	-1.313	0.000	0.525
44.00	-32.25	-22.08	0.00	-1754.7	0.00	1754.73	3746.66	1873.33	6893.15	3451.70	6.55	-1.456	0.000	0.517
45.00	-31.76	-22.06	0.00	-1732.6	0.00	1732.65	3733.23	1866.62	6832.15	3421.15	6.86	-1.492	0.000	0.515
50.00	-29.45	-21.71	0.00	-1622.3	0.00	1622.38	2895.85	1447.93	5248.77	2628.28	8.52	-1.672	0.000	0.628
55.00	-28.22	-21.40	0.00	-1513.8	0.00	1513.81	2848.58	1424.29	5024.64	2516.06	10.37	-1.853	0.000	0.612
60.00	-27.02	-21.09	0.00	-1406.7	0.00	1406.79	2799.67	1399.83	4802.32	2404.73	12.42	-2.063	0.000	0.595
65.00	-25.85	-20.78	0.00	-1301.3	0.00	1301.31	2749.13	1374.56	4582.02	2294.42	14.70	-2.275	0.000	0.577
70.00	-24.70	-20.46	0.00	-1197.4	0.00	1197.42	2696.96	1348.48	4364.00	2185.24	17.19	-2.487	0.000	0.557
75.00	-23.58	-20.14	0.00	-1095.1	0.00	1095.11	2643.16	1321.58	4148.49	2077.33	19.91	-2.700	0.000	0.536
80.00	-22.48	-19.81	0.00	-994.42	0.00	994.42	2587.72	1293.86	3935.73	1970.79	22.86	-2.913	0.000	0.514
85.00	-21.42	-19.48	0.00	-895.36	0.00	895.36	2530.65	1265.33	3725.95	1865.74	26.02	-3.124	0.000	0.489
89.00	-20.61	-19.19	0.00	-817.45	0.00	817.45	2483.83	1241.91	3560.44	1782.87	28.71	-3.293	0.000	0.467
90.00	-20.28	-19.13	0.00	-798.26	0.00	798.26	2471.96	1235.98	3519.40	1762.31	29.40	-3.336	0.000	0.461
92.00	-19.59	-18.80	0.00	-760.00	0.00	760.00	2448.02	1224.01	3437.73	1721.42	30.82	-3.421	0.000	0.450
94.00	-18.97	-18.64	0.00	-722.41	0.00	722.41	1822.74	911.37	2571.33	1287.57	32.27	-3.505	0.000	0.572
95.00	-18.76	-18.61	0.00	-703.77	0.00	703.77	1815.01	907.51	2542.78	1273.28	33.01	-3.547	0.000	0.563
100.00	-17.89	-18.29	0.00	-610.71	0.00	610.71	1775.38	887.69	2400.98	1202.27	36.85	-3.782	0.000	0.518
105.00	-14.39	-15.35	0.00	-519.26	0.00	519.26	1734.12	867.06	2260.90	1132.13	40.93	-4.007	0.000	0.467
110.00	-13.59	-15.02	0.00	-442.50	0.00	442.50	1691.22	845.61	2122.79	1062.97	45.24	-4.221	0.000	0.425
115.00	-12.81	-14.69	0.00	-367.40	0.00	367.40	1646.70	823.35	1986.87	994.91	49.77	-4.422	0.000	0.377
120.00	-12.06	-14.36	0.00	-293.94	0.00	293.94	1600.54	800.27	1853.40	928.08	54.50	-4.607	0.000	0.325
125.00	-11.35	-14.04	0.00	-222.13	0.00	222.13	1552.75	776.38	1722.60	862.58	59.41	-4.770	0.000	0.265
129.00	-7.99	-10.29	0.00	-165.98	0.00	165.98	1513.35	756.67	1620.05	811.23	63.45	-4.882	0.000	0.210
130.00	-7.86	-10.24	0.00	-155.69	0.00	155.69	1503.33	751.67	1594.72	798.54	64.47	-4.908	0.000	0.200
135.00	-7.25	-9.91	0.00	-104.51	0.00	104.51	1452.28	726.14	1469.99	736.09	69.67	-5.014	0.000	0.147
138.00	-4.29	-5.88	0.00	-74.77	0.00	74.77	1413.92	706.96	1389.94	696.00	72.83	-5.065	0.000	0.111
139.00	-4.19	-5.81	0.00	-68.89	0.00	68.89	1400.09	700.04	1362.73	682.38	73.89	-5.080	0.000	0.104
139.00	-4.19	-5.81	0.00	-68.89	0.00	68.89	871.21	435.61	845.74	423.50	73.89	-5.080	0.000	0.168
140.00	-4.08	-5.75	0.00	-63.08	0.00	63.08	871.21	435.61	845.74	423.50	74.96	-5.094	0.000	0.154
145.00	-3.55	-5.44	0.00	-34.31	0.00	34.31	871.21	435.61	845.74	423.50	80.31	-5.140	0.000	0.085
150.00	0.00	-5.10	0.00	-7.11	0.00	7.11	871.21	435.61	845.74	423.50	85.70	-5.159	0.000	0.017

## Wind Loading - Shaft

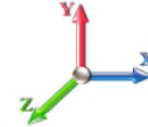
<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.6W 93 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.60



**Iterations** 24

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	0.70	14.724	16.20	365.42	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	14.724	16.20	357.69	0.650	0.000	5.00	23.233	15.10	391.4	0.0	994.0
10.00		1.00	0.70	14.724	16.20	349.97	0.650	0.000	5.00	22.737	14.78	383.0	0.0	972.6
15.00		1.00	0.70	14.724	16.20	342.24	0.650	0.000	5.00	22.240	14.46	374.6	0.0	951.2
20.00		1.00	0.70	14.724	16.20	334.51	0.650	0.000	5.00	21.744	14.13	366.3	0.0	929.8
25.00		1.00	0.70	14.724	16.20	326.79	0.650	0.000	5.00	21.247	13.81	357.9	0.0	908.4
30.00		1.00	0.70	14.736	16.21	319.19	0.650	0.000	5.00	20.751	13.49	349.8	0.0	887.0
35.00		1.00	0.73	15.400	16.94	318.40	0.650	0.000	5.00	20.254	13.17	356.8	0.0	865.6
40.00		1.00	0.76	15.999	17.60	316.48	0.650	0.000	5.00	19.758	12.84	361.6	0.0	844.2
44.00	Bot - Section 2	1.00	0.78	16.441	18.08	314.28	0.650	0.000	4.00	15.449	10.04	290.6	0.0	660.0
45.00		1.00	0.79	16.546	18.20	313.65	0.650	0.000	1.00	3.865	2.51	73.2	0.0	300.7
50.00	Top - Section 1	1.00	0.81	17.052	18.76	310.10	0.650	0.000	5.00	19.029	12.37	371.2	0.0	1479.8
55.00		1.00	0.83	17.523	19.28	310.41	0.650	0.000	5.00	18.533	12.05	371.5	0.0	660.5
60.00		1.00	0.85	17.964	19.76	305.75	0.650	0.000	5.00	18.036	11.72	370.7	0.0	642.7
65.00		1.00	0.87	18.380	20.22	300.64	0.650	0.000	5.00	17.540	11.40	368.8	0.0	624.9
70.00		1.00	0.89	18.773	20.65	295.11	0.650	0.000	5.00	17.043	11.08	366.0	0.0	607.0
75.00		1.00	0.91	19.147	21.06	289.22	0.650	0.000	5.00	16.547	10.76	362.4	0.0	589.2
80.00		1.00	0.93	19.503	21.45	283.01	0.650	0.000	5.00	16.050	10.43	358.1	0.0	571.4
85.00		1.00	0.94	19.844	21.83	276.50	0.650	0.000	5.00	15.553	10.11	353.1	0.0	553.6
89.00	Bot - Section 3	1.00	0.96	20.106	22.12	271.10	0.650	0.000	4.00	12.085	7.86	278.0	0.0	430.0
90.00		1.00	0.96	20.170	22.19	269.73	0.650	0.000	1.00	3.014	1.96	69.5	0.0	191.7
92.00	Appurtenance(s)	1.00	0.96	20.297	22.33	266.94	0.650	0.000	2.00	5.968	3.88	138.6	0.0	379.5
94.00	Top - Section 2	1.00	0.97	20.423	22.46	264.13	0.650	0.000	2.00	5.889	3.83	137.6	0.0	374.4
95.00		1.00	0.97	20.484	22.53	266.59	0.650	0.000	1.00	2.915	1.89	68.3	0.0	83.1
100.00		1.00	0.99	20.787	22.87	259.37	0.650	0.000	5.00	14.275	9.28	339.5	0.0	406.9
105.00	Appurtenance(s)	1.00	1.00	21.079	23.19	251.93	0.650	0.000	5.00	13.779	8.96	332.3	0.0	392.7
110.00		1.00	1.02	21.361	23.50	244.31	0.650	0.000	5.00	13.282	8.63	324.6	0.0	378.4
115.00		1.00	1.03	21.634	23.80	236.50	0.650	0.000	5.00	12.786	8.31	316.4	0.0	364.1
120.00		1.00	1.04	21.898	24.09	228.52	0.650	0.000	5.00	12.289	7.99	307.9	0.0	349.9
125.00		1.00	1.05	22.155	24.37	220.38	0.650	0.000	5.00	11.793	7.67	298.9	0.0	335.6
129.00	Appurtenance(s)	1.00	1.06	22.356	24.59	213.75	0.650	0.000	4.00	9.077	5.90	232.1	0.0	258.2
130.00		1.00	1.07	22.405	24.65	212.08	0.650	0.000	1.00	2.220	1.44	56.9	0.0	63.1
135.00		1.00	1.08	22.648	24.91	203.65	0.650	0.000	5.00	10.800	7.02	279.8	0.0	307.1
138.00	Appurtenance(s)	1.00	1.08	22.790	25.07	198.52	0.650	0.000	3.00	6.242	4.06	162.7	0.0	177.4
139.00	Top - Section 3	1.00	1.09	22.838	25.12	196.80	0.650	0.000	1.00	2.041	1.33	53.3	0.0	58.0
140.00		1.00	1.09	22.884	25.17	197.00	0.650	0.000	1.00	2.031	1.32	53.2	0.0	64.8
145.00		1.00	1.10	23.115	25.43	197.99	0.650	0.000	5.00	10.154	6.60	268.5	0.0	324.2
150.00	Appurtenance(s)	1.00	1.11	23.340	25.67	198.95	0.650	0.000	5.00	10.154	6.60	271.1	0.0	324.2
<b>Totals:</b>									<b>150.00</b>			<b>10,216.1</b>	<b>19,305.9</b>	

## Discrete Appurtenance Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

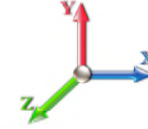


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**Load Case:** 0.9D + 1.6W 93 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.60



**Iterations** 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	Commscope	6	23.340	25.674	0.74	1.00	49.64	384.48	0.000	0.000	2039.09	0.00	0.00	
2	150.00	Cellwave PD220 20' Omni	2	23.817	26.198	1.00	1.00	12.00	99.00	0.000	11.000	503.01	0.00	5533.09	
3	150.00	Cellwave TD1142 14'	1	23.732	26.105	1.00	1.00	4.20	36.00	0.000	9.000	175.43	0.00	1578.83	
4	150.00	ADC DD1900	1	23.340	25.674	0.60	1.00	0.66	13.86	0.000	0.000	27.11	0.00	0.00	
5	150.00	T-Arms w/ Working	3	23.340	25.674	0.56	0.75	30.71	1350.00	0.000	0.000	1261.62	0.00	0.00	
6	150.00	Raycap	1	23.340	25.674	0.54	0.80	2.18	28.80	0.000	0.000	89.39	0.00	0.00	
7	150.00	Samsung MT6407-77A	3	23.340	25.674	0.70	1.00	9.85	214.38	0.000	0.000	404.58	0.00	0.00	
8	150.00	Commscope	3	23.340	25.674	1.00	1.00	0.00	68.45	0.000	0.000	0.00	0.00	0.00	
9	150.00	Samsung RF4439d-25A	3	23.340	25.674	0.54	0.80	4.02	201.69	0.000	0.000	165.13	0.00	0.00	
10	150.00	Samsung RF4440d-13A	3	23.340	25.674	0.54	0.80	3.94	201.69	0.000	0.000	161.83	0.00	0.00	
11	138.00	Decibel 978QNB120E-M	3	22.790	25.070	0.55	0.80	12.57	94.50	0.000	0.000	504.16	0.00	0.00	
12	138.00	Powerwave	3	22.790	25.070	0.64	0.80	21.96	159.30	0.000	0.000	881.04	0.00	0.00	
13	138.00	Powerwave 7770.00	6	22.790	25.070	0.62	0.80	20.36	189.00	0.000	0.000	816.86	0.00	0.00	
14	138.00	Low Profile Platform	1	22.790	25.070	1.00	1.00	22.00	1350.00	0.000	0.000	882.45	0.00	0.00	
15	138.00	Raycap DC6-48-60-18-8F	1	22.790	25.070	0.54	0.80	1.18	14.40	0.000	0.000	47.30	0.00	0.00	
16	138.00	Commscope	1	22.790	25.070	0.48	0.80	0.02	0.99	0.000	0.000	0.77	0.00	0.00	
17	138.00	Powerwave 21903	6	22.790	25.070	0.48	0.80	0.58	29.70	0.000	0.000	23.10	0.00	0.00	
18	138.00	Ericsson RRUS-11	6	22.790	25.070	0.54	0.80	8.10	273.78	0.000	0.000	325.07	0.00	0.00	
19	138.00	Powerwave LGP 21401	6	22.790	25.070	0.48	0.80	3.02	94.50	0.000	0.000	121.30	0.00	0.00	
20	129.00	Ericsson Air 32	3	22.356	24.591	0.69	0.80	13.44	356.94	0.000	0.000	528.67	0.00	0.00	
21	129.00	Ericsson Air 21 B4A/B2P	3	22.356	24.591	0.68	0.80	12.32	243.81	0.000	0.000	484.80	0.00	0.00	
22	129.00	RFS	3	22.356	24.591	0.58	0.80	34.97	345.60	0.000	0.000	1376.11	0.00	0.00	
23	129.00	Ericsson Radio 4449	3	22.356	24.591	0.54	0.80	2.62	199.80	0.000	0.000	103.13	0.00	0.00	
24	129.00	Support Rail Pipe	1	22.356	24.591	0.75	0.75	5.06	235.55	0.000	0.000	199.19	0.00	0.00	
25	129.00	T-Arms	3	22.356	24.591	0.56	0.75	13.50	945.00	0.000	0.000	531.17	0.00	0.00	
26	105.00	MC-PK8-DSH	1	21.079	23.186	1.00	1.00	37.59	1554.30	0.000	0.000	1394.53	0.00	0.00	
27	105.00	RDIDC-9181-OF-48	1	21.079	23.186	0.50	0.75	1.01	19.71	0.000	0.000	37.47	0.00	0.00	
28	105.00	TA08025-B605	3	21.079	23.186	0.50	0.75	2.95	202.50	0.000	0.000	109.61	0.00	0.00	
29	105.00	TA08025-B604	3	21.079	23.186	0.50	0.75	2.95	172.53	0.000	0.000	109.61	0.00	0.00	
30	105.00	MX08FRO665-21	3	21.079	23.186	0.55	0.75	20.80	174.15	0.000	0.000	771.49	0.00	0.00	
31	92.00	Standoff	1	20.297	22.327	1.00	1.00	2.63	36.00	0.000	0.000	93.95	0.00	0.00	
32	92.00	MYA 4505 4' Yagi	1	20.297	22.327	1.00	1.00	2.50	13.50	0.000	0.000	89.31	0.00	0.00	
<b>Totals:</b>									<b>9,303.90</b>						<b>14,258.29</b>

## Total Applied Force Summary

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

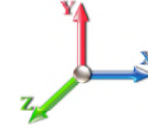


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**Load Case:** 0.9D + 1.6W 93 mph Wind

**Dead Load Factor** 0.90

**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		391.35	1077.75	0.00	0.00
10.00		382.99	1182.05	0.00	0.00
15.00		374.62	1160.66	0.00	0.00
20.00		366.26	1139.27	0.00	0.00
25.00		357.90	1117.88	0.00	0.00
30.00		349.83	1096.50	0.00	0.00
35.00		356.83	1075.11	0.00	0.00
40.00		361.62	1053.72	0.00	0.00
44.00		290.56	827.58	0.00	0.00
45.00		73.17	342.56	0.00	0.00
50.00		371.21	1689.27	0.00	0.00
55.00		371.51	869.98	0.00	0.00
60.00		370.66	852.16	0.00	0.00
65.00		368.79	834.34	0.00	0.00
70.00		366.02	816.51	0.00	0.00
75.00		362.43	798.69	0.00	0.00
80.00		358.10	780.87	0.00	0.00
85.00		353.08	763.04	0.00	0.00
89.00		277.98	597.60	0.00	0.00
90.00		69.55	233.56	0.00	0.00
92.00	(2) attachments	321.85	512.78	0.00	0.00
94.00		137.59	457.57	0.00	0.00
95.00		68.30	124.70	0.00	0.00
100.00		339.47	614.95	0.00	0.00
105.00	(11) attachments	2754.98	2723.88	0.00	0.00
110.00		324.58	581.93	0.00	0.00
115.00		316.44	567.67	0.00	0.00
120.00		307.87	550.71	0.00	0.00
125.00		298.90	525.65	0.00	0.00
129.00	(16) attachments	3455.20	2736.95	0.00	0.00
130.00		56.89	94.59	0.00	0.00
135.00		279.81	464.37	0.00	0.00
138.00	(33) attachments	3764.78	2477.95	0.00	0.00
139.00		53.32	76.77	0.00	0.00
140.00		53.17	83.62	0.00	0.00
145.00		268.51	418.08	0.00	0.00
150.00	(26) attachments	5098.32	3016.42	0.00	7111.92
	<b>Totals:</b>	<b>24,474.44</b>	<b>34,337.67</b>	<b>0.00</b>	<b>7,111.92</b>

## Calculated Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 93 mph Wind	<b>Iterations</b> 24
<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	-34.30	-24.52	0.00	-2754.5	0.00	2754.57	4273.14	2136.57	9689.25	4851.82	0.00	0.000	0.000	0.576
5.00	-33.16	-24.22	0.00	-2631.9	0.00	2631.97	4219.68	2109.84	9362.95	4688.43	0.08	-0.152	0.000	0.569
10.00	-31.92	-23.92	0.00	-2510.8	0.00	2510.89	4164.59	2082.29	9038.31	4525.87	0.32	-0.307	0.000	0.563
15.00	-30.69	-23.62	0.00	-2391.3	0.00	2391.31	4107.86	2053.93	8715.56	4364.26	0.73	-0.465	0.000	0.556
20.00	-29.49	-23.33	0.00	-2273.2	0.00	2273.22	4049.50	2024.75	8394.94	4203.71	1.30	-0.625	0.000	0.548
25.00	-28.31	-23.04	0.00	-2156.5	0.00	2156.59	3989.51	1994.75	8076.69	4044.35	2.05	-0.789	0.000	0.540
30.00	-27.15	-22.75	0.00	-2041.4	0.00	2041.42	3927.89	1963.94	7761.05	3886.29	2.96	-0.955	0.000	0.532
35.00	-26.02	-22.45	0.00	-1927.6	0.00	1927.68	3864.63	1932.32	7448.26	3729.66	4.05	-1.124	0.000	0.524
40.00	-24.91	-22.13	0.00	-1815.4	0.00	1815.43	3799.75	1899.87	7138.54	3574.58	5.32	-1.295	0.000	0.515
44.00	-24.06	-21.86	0.00	-1726.9	0.00	1726.90	3746.66	1873.33	6893.15	3451.70	6.47	-1.435	0.000	0.507
45.00	-23.68	-21.82	0.00	-1705.0	0.00	1705.04	3733.23	1866.62	6832.15	3421.15	6.77	-1.471	0.000	0.505
50.00	-21.93	-21.47	0.00	-1595.9	0.00	1595.93	2895.85	1447.93	5248.77	2628.28	8.41	-1.648	0.000	0.615
55.00	-21.00	-21.15	0.00	-1488.5	0.00	1488.56	2848.58	1424.29	5024.64	2516.06	10.23	-1.826	0.000	0.599
60.00	-20.09	-20.82	0.00	-1382.8	0.00	1382.83	2799.67	1399.83	4802.32	2404.73	12.25	-2.033	0.000	0.582
65.00	-19.20	-20.49	0.00	-1278.7	0.00	1278.73	2749.13	1374.56	4582.02	2294.42	14.49	-2.241	0.000	0.565
70.00	-18.32	-20.16	0.00	-1176.2	0.00	1176.28	2696.96	1348.48	4364.00	2185.24	16.95	-2.450	0.000	0.545
75.00	-17.47	-19.82	0.00	-1075.4	0.00	1075.49	2643.16	1321.58	4148.49	2077.33	19.63	-2.659	0.000	0.525
80.00	-16.63	-19.49	0.00	-976.37	0.00	976.37	2587.72	1293.86	3935.73	1970.79	22.53	-2.868	0.000	0.502
85.00	-15.83	-19.15	0.00	-878.92	0.00	878.92	2530.65	1265.33	3725.95	1865.74	25.64	-3.075	0.000	0.478
89.00	-15.21	-18.87	0.00	-802.33	0.00	802.33	2483.83	1241.91	3560.44	1782.87	28.29	-3.240	0.000	0.456
90.00	-14.96	-18.80	0.00	-783.46	0.00	783.46	2471.96	1235.98	3519.40	1762.31	28.97	-3.283	0.000	0.451
92.00	-14.44	-18.47	0.00	-745.86	0.00	745.86	2448.02	1224.01	3437.73	1721.42	30.36	-3.366	0.000	0.439
94.00	-13.97	-18.32	0.00	-708.93	0.00	708.93	1822.74	911.37	2571.33	1287.57	31.79	-3.448	0.000	0.559
95.00	-13.81	-18.28	0.00	-690.61	0.00	690.61	1815.01	907.51	2542.78	1273.28	32.52	-3.490	0.000	0.550
100.00	-13.15	-17.95	0.00	-599.22	0.00	599.22	1775.38	887.69	2400.98	1202.27	36.29	-3.721	0.000	0.506
105.00	-10.56	-15.06	0.00	-509.46	0.00	509.46	1734.12	867.06	2260.90	1132.13	40.31	-3.942	0.000	0.456
110.00	-9.95	-14.73	0.00	-434.15	0.00	434.15	1691.22	845.61	2122.79	1062.97	44.55	-4.151	0.000	0.415
115.00	-9.36	-14.41	0.00	-360.50	0.00	360.50	1646.70	823.35	1986.87	994.91	49.00	-4.349	0.000	0.368
120.00	-8.79	-14.08	0.00	-288.47	0.00	288.47	1600.54	800.27	1853.40	928.08	53.65	-4.530	0.000	0.317
125.00	-8.26	-13.76	0.00	-218.07	0.00	218.07	1552.75	776.38	1722.60	862.58	58.48	-4.690	0.000	0.258
129.00	-5.80	-10.10	0.00	-163.02	0.00	163.02	1513.35	756.67	1620.05	811.23	62.45	-4.800	0.000	0.205
130.00	-5.70	-10.04	0.00	-152.93	0.00	152.93	1503.33	751.67	1594.72	798.54	63.46	-4.825	0.000	0.195
135.00	-5.25	-9.73	0.00	-102.73	0.00	102.73	1452.28	726.14	1469.99	736.09	68.57	-4.930	0.000	0.143
138.00	-3.11	-5.77	0.00	-73.54	0.00	73.54	1413.92	706.96	1389.94	696.00	71.68	-4.980	0.000	0.108
139.00	-3.03	-5.71	0.00	-67.78	0.00	67.78	1400.09	700.04	1362.73	682.38	72.72	-4.994	0.000	0.102
139.00	-3.03	-5.71	0.00	-67.78	0.00	67.78	871.21	435.61	845.74	423.50	72.72	-4.994	0.000	0.164
140.00	-2.95	-5.65	0.00	-62.07	0.00	62.07	871.21	435.61	845.74	423.50	73.77	-5.008	0.000	0.150
145.00	-2.55	-5.34	0.00	-33.84	0.00	33.84	871.21	435.61	845.74	423.50	79.04	-5.053	0.000	0.083
150.00	0.00	-5.10	0.00	-7.11	0.00	7.11	871.21	435.61	845.74	423.50	84.33	-5.073	0.000	0.017

## Wind Loading - Shaft

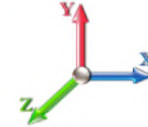
<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 24

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	0.70	4.256	4.68	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	4.256	4.68	0.00	1.200	1.656	5.00	24.614	29.54	138.3	580.7	1906.0
10.00		1.00	0.70	4.256	4.68	0.00	1.200	1.775	5.00	24.216	29.06	136.0	610.7	1907.4
15.00		1.00	0.70	4.256	4.68	0.00	1.200	1.848	5.00	23.781	28.54	133.6	623.2	1891.4
20.00		1.00	0.70	4.256	4.68	0.00	1.200	1.902	5.00	23.329	27.99	131.1	628.0	1867.7
25.00		1.00	0.70	4.256	4.68	0.00	1.200	1.945	5.00	22.868	27.44	128.5	628.4	1839.6
30.00		1.00	0.70	4.260	4.69	0.00	1.200	1.981	5.00	22.402	26.88	126.0	625.8	1808.5
35.00		1.00	0.73	4.451	4.90	0.00	1.200	2.012	5.00	21.931	26.32	128.9	621.1	1775.3
40.00		1.00	0.76	4.625	5.09	0.00	1.200	2.039	5.00	21.457	25.75	131.0	614.8	1740.5
44.00	Bot - Section 2	1.00	0.78	4.752	5.23	0.00	1.200	2.058	4.00	16.821	20.19	105.5	487.1	1367.1
45.00		1.00	0.79	4.783	5.26	0.00	1.200	2.063	1.00	4.209	5.05	26.6	123.1	523.9
50.00	Top - Section 1	1.00	0.81	4.929	5.42	0.00	1.200	2.085	5.00	20.767	24.92	135.1	606.8	2579.8
55.00		1.00	0.83	5.065	5.57	0.00	1.200	2.105	5.00	20.287	24.34	135.6	597.4	1478.0
60.00		1.00	0.85	5.193	5.71	0.00	1.200	2.123	5.00	19.805	23.77	135.7	587.2	1444.1
65.00		1.00	0.87	5.313	5.84	0.00	1.200	2.140	5.00	19.323	23.19	135.5	576.4	1409.6
70.00		1.00	0.89	5.426	5.97	0.00	1.200	2.156	5.00	18.840	22.61	134.9	565.1	1374.4
75.00		1.00	0.91	5.534	6.09	0.00	1.200	2.171	5.00	18.356	22.03	134.1	553.2	1338.8
80.00		1.00	0.93	5.637	6.20	0.00	1.200	2.185	5.00	17.871	21.45	133.0	540.9	1302.8
85.00		1.00	0.94	5.736	6.31	0.00	1.200	2.198	5.00	17.386	20.86	131.6	528.2	1266.3
89.00	Bot - Section 3	1.00	0.96	5.812	6.39	0.00	1.200	2.209	4.00	13.558	16.27	104.0	414.2	987.6
90.00		1.00	0.96	5.830	6.41	0.00	1.200	2.211	1.00	3.382	4.06	26.0	104.4	360.0
92.00	Appurtenance(s)	1.00	0.96	5.867	6.45	0.00	1.200	2.216	2.00	6.707	8.05	51.9	206.7	712.7
94.00	Top - Section 2	1.00	0.97	5.903	6.49	0.00	1.200	2.221	2.00	6.629	7.95	51.7	204.6	703.7
95.00		1.00	0.97	5.921	6.51	0.00	1.200	2.223	1.00	3.285	3.94	25.7	101.7	212.5
100.00		1.00	0.99	6.008	6.61	0.00	1.200	2.234	5.00	16.138	19.37	128.0	495.1	1037.6
105.00	Appurtenance(s)	1.00	1.00	6.093	6.70	0.00	1.200	2.245	5.00	15.650	18.78	125.9	481.1	1004.7
110.00		1.00	1.02	6.174	6.79	0.00	1.200	2.256	5.00	15.162	18.19	123.6	466.9	971.4
115.00		1.00	1.03	6.253	6.88	0.00	1.200	2.266	5.00	14.674	17.61	121.1	452.5	938.0
120.00		1.00	1.04	6.330	6.96	0.00	1.200	2.276	5.00	14.186	17.02	118.5	437.8	904.3
125.00		1.00	1.05	6.404	7.04	0.00	1.200	2.285	5.00	13.697	16.44	115.8	422.9	870.4
129.00	Appurtenance(s)	1.00	1.06	6.462	7.11	0.00	1.200	2.292	4.00	10.605	12.73	90.5	328.7	673.0
130.00		1.00	1.07	6.476	7.12	0.00	1.200	2.294	1.00	2.602	3.12	22.2	81.6	165.7
135.00		1.00	1.08	6.546	7.20	0.00	1.200	2.303	5.00	12.719	15.26	109.9	392.6	802.0
138.00	Appurtenance(s)	1.00	1.08	6.588	7.25	0.00	1.200	2.308	3.00	7.395	8.87	64.3	230.0	466.5
139.00	Top - Section 3	1.00	1.09	6.601	7.26	0.00	1.200	2.309	1.00	2.426	2.91	21.1	76.0	153.4
140.00		1.00	1.09	6.615	7.28	0.00	1.200	2.311	1.00	2.416	2.90	21.1	76.1	162.6
145.00		1.00	1.10	6.681	7.35	0.00	1.200	2.319	5.00	12.087	14.50	106.6	382.0	814.3
150.00	Appurtenance(s)	1.00	1.11	6.746	7.42	0.00	1.200	2.327	5.00	12.093	14.51	107.7	383.4	815.7
<b>Totals:</b>									<b>150.00</b>			<b>3,796.6</b>		<b>41,577.4</b>

## Discrete Appurtenance Forces

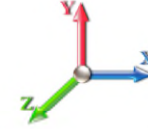
<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	Commscope	6	6.746	7.421	0.74	1.00	57.49	2152.46	0.000	0.000	426.67	0.00	0.00	
2	150.00	Cellwave PD220 20' Omni	2	6.884	7.573	1.00	1.00	30.92	447.56	0.000	11.000	234.15	0.00	2575.69	
3	150.00	Cellwave TD1142 14'	1	6.860	7.546	1.00	1.00	10.87	158.88	0.000	9.000	82.02	0.00	738.14	
4	150.00	ADC DD1900	1	6.746	7.421	0.60	1.00	1.50	50.96	0.000	0.000	11.10	0.00	0.00	
5	150.00	T-Arms w/ Working	3	6.746	7.421	0.56	0.75	73.59	3932.34	0.000	0.000	546.13	0.00	0.00	
6	150.00	Raycap	1	6.746	7.421	0.54	0.80	2.76	165.10	0.000	0.000	20.51	0.00	0.00	
7	150.00	Samsung MT6407-77A	3	6.746	7.421	0.70	1.00	12.54	798.14	0.000	0.000	93.08	0.00	0.00	
8	150.00	Commscope	3	6.746	7.421	1.00	1.00	0.00	158.60	0.000	0.000	0.00	0.00	0.00	
9	150.00	Samsung RF4439d-25A	3	6.746	7.421	0.54	0.80	6.22	649.88	0.000	0.000	46.16	0.00	0.00	
10	150.00	Samsung RF4440d-13A	3	6.746	7.421	0.54	0.80	6.10	649.88	0.000	0.000	45.24	0.00	0.00	
11	138.00	Decibel 978QNB120E-M	3	6.588	7.246	0.55	0.80	17.31	587.20	0.000	0.000	125.47	0.00	0.00	
12	138.00	Powerwave	3	6.588	7.246	0.64	0.80	30.18	885.62	0.000	0.000	218.67	0.00	0.00	
13	138.00	Powerwave 7770.00	6	6.588	7.246	0.62	0.80	25.64	1404.26	0.000	0.000	185.82	0.00	0.00	
14	138.00	Low Profile Platform	1	6.588	7.246	1.00	1.00	45.35	3230.72	0.000	0.000	328.65	0.00	0.00	
15	138.00	Raycap DC6-48-60-18-8F	1	6.588	7.246	0.54	0.80	1.87	79.60	0.000	0.000	13.54	0.00	0.00	
16	138.00	Commscope	1	6.588	7.246	0.48	0.80	0.12	3.57	0.000	0.000	0.85	0.00	0.00	
17	138.00	Powerwave 21903	6	6.588	7.246	0.48	0.80	1.70	92.06	0.000	0.000	12.30	0.00	0.00	
18	138.00	Ericsson RRUS-11	6	6.588	7.246	0.54	0.80	10.95	1054.52	0.000	0.000	79.37	0.00	0.00	
19	138.00	Powerwave LGP 21401	6	6.588	7.246	0.48	0.80	4.81	420.36	0.000	0.000	34.84	0.00	0.00	
20	129.00	Ericsson Air 32	3	6.462	7.108	0.69	0.80	16.54	1239.96	0.000	0.000	117.56	0.00	0.00	
21	129.00	Ericsson Air 21 B4A/B2P	3	6.462	7.108	0.68	0.80	15.30	1024.13	0.000	0.000	108.78	0.00	0.00	
22	129.00	RFS	3	6.462	7.108	0.58	0.80	39.34	2173.70	0.000	0.000	279.61	0.00	0.00	
23	129.00	Ericsson Radio 4449	3	6.462	7.108	0.54	0.80	3.78	553.58	0.000	0.000	26.89	0.00	0.00	
24	129.00	Support Rail Pipe	1	6.462	7.108	0.75	0.75	11.56	983.71	0.000	0.000	82.17	0.00	0.00	
25	129.00	T-Arms	3	6.462	7.108	0.56	0.75	28.97	2012.69	0.000	0.000	205.93	0.00	0.00	
26	105.00	MC-PK8-DSH	1	6.093	6.702	1.00	1.00	98.36	3870.99	0.000	0.000	659.23	0.00	0.00	
27	105.00	RDIDC-9181-OF-48	1	6.093	6.702	0.50	0.75	1.38	82.09	0.000	0.000	9.23	0.00	0.00	
28	105.00	TA08025-B605	3	6.093	6.702	0.50	0.75	4.04	434.09	0.000	0.000	27.09	0.00	0.00	
29	105.00	TA08025-B604	3	6.093	6.702	0.50	0.75	4.04	389.16	0.000	0.000	27.09	0.00	0.00	
30	105.00	MX08FRO665-21	3	6.093	6.702	0.55	0.75	23.93	1153.32	0.000	0.000	160.41	0.00	0.00	
31	92.00	Standoff	1	5.867	6.454	1.00	1.00	10.21	126.93	0.000	0.000	65.88	0.00	0.00	
32	92.00	MYA 4505 4' Yagi	1	5.867	6.454	1.00	1.00	10.90	160.62	0.000	0.000	70.36	0.00	0.00	
<b>Totals:</b>									<b>31,126.69</b>						<b>4,344.81</b>

## Total Applied Force Summary

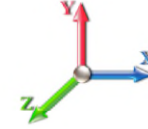
<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**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		138.28	2017.72	0.00	0.00
10.00		136.04	2186.72	0.00	0.00
15.00		133.60	2170.71	0.00	0.00
20.00		131.06	2147.02	0.00	0.00
25.00		128.47	2118.89	0.00	0.00
30.00		125.96	2087.80	0.00	0.00
35.00		128.86	2054.59	0.00	0.00
40.00		130.98	2019.77	0.00	0.00
44.00		105.52	1590.50	0.00	0.00
45.00		26.57	579.81	0.00	0.00
50.00		135.11	2859.14	0.00	0.00
55.00		135.63	1757.34	0.00	0.00
60.00		135.75	1723.42	0.00	0.00
65.00		135.51	1688.86	0.00	0.00
70.00		134.94	1653.74	0.00	0.00
75.00		134.10	1618.12	0.00	0.00
80.00		132.98	1582.06	0.00	0.00
85.00		131.63	1545.59	0.00	0.00
89.00		104.01	1211.03	0.00	0.00
90.00		26.03	415.83	0.00	0.00
92.00	(2) attachments	188.19	1111.96	0.00	0.00
94.00		51.66	814.65	0.00	0.00
95.00		25.68	268.01	0.00	0.00
100.00		127.99	1314.99	0.00	0.00
105.00	(11) attachments	1008.92	7211.68	0.00	0.00
110.00		123.57	1242.82	0.00	0.00
115.00		121.12	1209.37	0.00	0.00
120.00		118.52	1172.08	0.00	0.00
125.00		115.78	1123.79	0.00	0.00
129.00	(16) attachments	911.40	8863.47	0.00	0.00
130.00		22.24	207.68	0.00	0.00
135.00		109.90	1011.74	0.00	0.00
138.00	(33) attachments	1063.81	8350.29	0.00	0.00
139.00		21.14	178.41	0.00	0.00
140.00		21.10	187.59	0.00	0.00
145.00		106.60	939.41	0.00	0.00
150.00	(26) attachments	1612.75	10104.63	0.00	3313.83
	<b>Totals:</b>	<b>8,141.42</b>	<b>80,341.25</b>	<b>0.00</b>	<b>3,313.83</b>



## Calculated Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

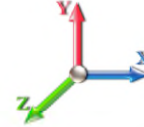


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Iterations** 24

**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	-80.34	-8.18	0.00	-953.46	0.00	953.46	4273.14	2136.57	9689.25	4851.82	0.00	0.000	0.000	0.215
5.00	-78.31	-8.11	0.00	-912.57	0.00	912.57	4219.68	2109.84	9362.95	4688.43	0.03	-0.053	0.000	0.213
10.00	-76.12	-8.05	0.00	-872.01	0.00	872.01	4164.59	2082.29	9038.31	4525.87	0.11	-0.106	0.000	0.211
15.00	-73.94	-7.98	0.00	-831.78	0.00	831.78	4107.86	2053.93	8715.56	4364.26	0.25	-0.161	0.000	0.209
20.00	-71.79	-7.91	0.00	-791.89	0.00	791.89	4049.50	2024.75	8394.94	4203.71	0.45	-0.217	0.000	0.206
25.00	-69.66	-7.84	0.00	-752.34	0.00	752.34	3989.51	1994.75	8076.69	4044.35	0.71	-0.274	0.000	0.203
30.00	-67.56	-7.78	0.00	-713.12	0.00	713.12	3927.89	1963.94	7761.05	3886.29	1.03	-0.332	0.000	0.201
35.00	-65.50	-7.70	0.00	-674.25	0.00	674.25	3864.63	1932.32	7448.26	3729.66	1.41	-0.391	0.000	0.198
40.00	-63.48	-7.62	0.00	-635.74	0.00	635.74	3799.75	1899.87	7138.54	3574.58	1.85	-0.451	0.000	0.195
44.00	-61.88	-7.53	0.00	-605.28	0.00	605.28	3746.66	1873.33	6893.15	3451.70	2.25	-0.500	0.000	0.192
45.00	-61.30	-7.54	0.00	-597.75	0.00	597.75	3733.23	1866.62	6832.15	3421.15	2.36	-0.513	0.000	0.191
50.00	-58.43	-7.44	0.00	-560.06	0.00	560.06	2895.85	1447.93	5248.77	2628.28	2.93	-0.575	0.000	0.233
55.00	-56.67	-7.35	0.00	-522.86	0.00	522.86	2848.58	1424.29	5024.64	2516.06	3.56	-0.637	0.000	0.228
60.00	-54.94	-7.27	0.00	-486.09	0.00	486.09	2799.67	1399.83	4802.32	2404.73	4.27	-0.710	0.000	0.222
65.00	-53.24	-7.18	0.00	-449.76	0.00	449.76	2749.13	1374.56	4582.02	2294.42	5.05	-0.783	0.000	0.215
70.00	-51.58	-7.09	0.00	-413.88	0.00	413.88	2696.96	1348.48	4364.00	2185.24	5.91	-0.857	0.000	0.209
75.00	-49.96	-6.99	0.00	-378.45	0.00	378.45	2643.16	1321.58	4148.49	2077.33	6.85	-0.930	0.000	0.201
80.00	-48.37	-6.89	0.00	-343.50	0.00	343.50	2587.72	1293.86	3935.73	1970.79	7.86	-1.004	0.000	0.193
85.00	-46.82	-6.79	0.00	-309.05	0.00	309.05	2530.65	1265.33	3725.95	1865.74	8.95	-1.077	0.000	0.184
89.00	-45.60	-6.69	0.00	-281.90	0.00	281.90	2483.83	1241.91	3560.44	1782.87	9.88	-1.135	0.000	0.177
90.00	-45.19	-6.67	0.00	-275.22	0.00	275.22	2471.96	1235.98	3519.40	1762.31	10.12	-1.150	0.000	0.174
92.00	-44.08	-6.48	0.00	-261.88	0.00	261.88	2448.02	1224.01	3437.73	1721.42	10.61	-1.179	0.000	0.170
94.00	-43.26	-6.43	0.00	-248.91	0.00	248.91	1822.74	911.37	2571.33	1287.57	11.11	-1.208	0.000	0.217
95.00	-42.99	-6.44	0.00	-242.48	0.00	242.48	1815.01	907.51	2542.78	1273.28	11.36	-1.222	0.000	0.214
100.00	-41.67	-6.34	0.00	-210.31	0.00	210.31	1775.38	887.69	2400.98	1202.27	12.69	-1.303	0.000	0.198
105.00	-34.47	-5.20	0.00	-178.63	0.00	178.63	1734.12	867.06	2260.90	1132.13	14.09	-1.381	0.000	0.178
110.00	-33.23	-5.09	0.00	-152.62	0.00	152.62	1691.22	845.61	2122.79	1062.97	15.58	-1.454	0.000	0.163
115.00	-32.02	-4.98	0.00	-127.17	0.00	127.17	1646.70	823.35	1986.87	994.91	17.14	-1.524	0.000	0.147
120.00	-30.84	-4.86	0.00	-102.29	0.00	102.29	1600.54	800.27	1853.40	928.08	18.77	-1.588	0.000	0.130
125.00	-29.72	-4.74	0.00	-78.00	0.00	78.00	1552.75	776.38	1722.60	862.58	20.47	-1.645	0.000	0.110
129.00	-20.88	-3.57	0.00	-59.06	0.00	59.06	1513.35	756.67	1620.05	811.23	21.86	-1.685	0.000	0.087
130.00	-20.67	-3.56	0.00	-55.49	0.00	55.49	1503.33	751.67	1594.72	798.54	22.22	-1.694	0.000	0.083
135.00	-19.67	-3.42	0.00	-37.71	0.00	37.71	1452.28	726.14	1469.99	736.09	24.01	-1.732	0.000	0.065
138.00	-11.35	-2.11	0.00	-27.44	0.00	27.44	1413.92	706.96	1389.94	696.00	25.11	-1.750	0.000	0.047
139.00	-11.17	-2.08	0.00	-25.33	0.00	25.33	1400.09	700.04	1362.73	682.38	25.47	-1.756	0.000	0.045
139.00	-11.17	-2.08	0.00	-25.33	0.00	25.33	871.21	435.61	845.74	423.50	25.47	-1.756	0.000	0.073
140.00	-10.99	-2.06	0.00	-23.24	0.00	23.24	871.21	435.61	845.74	423.50	25.84	-1.761	0.000	0.068
145.00	-10.05	-1.93	0.00	-12.95	0.00	12.95	871.21	435.61	845.74	423.50	27.70	-1.778	0.000	0.042
150.00	0.00	-1.61	0.00	-3.31	0.00	3.31	871.21	435.61	845.74	423.50	29.56	-1.786	0.000	0.008

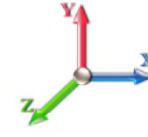
## Seismic Segment Forces (Factored)

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 + 1.0E						<b>Iterations</b> 22
<b>Gust Response Factor</b>	1.10			<b>Sds</b>	0.19	<b>Ss</b> 0.18
<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>	0.36	<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	0.00	0.00	0.00	
5.00		1104.4	0.00	0.03	0.02	19.32	
10.00		1080.6	0.01	0.05	0.03	27.62	
15.00		1056.8	0.02	0.06	0.04	31.27	
20.00		1033.1	0.03	0.07	0.04	32.72	
25.00		1009.3	0.05	0.07	0.04	33.20	
30.00		985.58	0.08	0.07	0.04	33.30	
35.00		961.81	0.10	0.07	0.04	33.31	
40.00		938.05	0.13	0.07	0.03	33.23	
44.00	Bot - Section 2	733.33	0.16	0.07	0.03	26.33	
45.00		334.07	0.17	0.07	0.03	12.02	
50.00	Top - Section 1	1644.2	0.21	0.06	0.02	59.12	
55.00		733.90	0.25	0.05	0.02	25.54	
60.00		714.09	0.30	0.04	0.01	22.74	
65.00		694.29	0.35	0.03	0.01	18.34	
70.00		674.49	0.41	0.01	0.01	12.19	
75.00		654.68	0.47	-0.01	0.01	4.59	
80.00		634.88	0.54	-0.03	0.01	-3.57	
85.00		615.07	0.61	-0.06	0.02	-10.97	
89.00	Bot - Section 3	477.80	0.67	-0.08	0.02	-12.36	
90.00		212.96	0.68	-0.08	0.03	-5.86	
92.00	Appurtenance(s)	476.65	0.71	-0.09	0.03	-14.44	
94.00	Top - Section 2	415.95	0.74	-0.10	0.04	-13.46	
95.00		92.33	0.76	-0.10	0.04	-3.06	
100.00		452.12	0.84	-0.12	0.07	-15.32	
105.00	Appurtenance(s)	2795.3	0.93	-0.12	0.10	-82.60	
110.00		420.44	1.02	-0.11	0.14	-8.46	
115.00		404.59	1.11	-0.06	0.19	-2.29	
120.00		388.75	1.21	0.01	0.26	5.37	
125.00		372.91	1.31	0.14	0.35	14.29	
129.00	Appurtenance(s)	2872.1	1.40	0.28	0.43	176.90	
130.00		70.15	1.42	0.32	0.45	4.76	
135.00		341.22	1.53	0.58	0.58	35.05	
138.00	Appurtenance(s)	2648.4	1.60	0.78	0.67	334.02	
139.00	Top - Section 3	64.44	1.62	0.85	0.70	8.66	
140.00		72.05	1.65	0.93	0.73	10.29	
145.00		360.23	1.77	1.39	0.92	67.82	
150.00	Appurtenance(s)	3247.2	1.89	1.98	1.14	776.98	
<b>Totals:</b>		<b>31,788.6</b>				<b>1,686.6</b>	<b>Total Wind: 24,474.4</b>

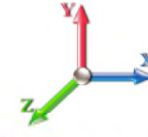
## Calculated Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 + 1.0E										<b>Iterations</b> 22
<b>Gust Response Factor</b> 1.10					<b>Sds</b> 0.19					<b>Ss</b> 0.18
<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> 0.36		<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	-45.78	-1.86	0.00	-232.79	0.00	232.79	4273.14	2136.57	9689.25	4851.82	0.00	0.00	0.00	0.059
5.00	-44.35	-1.85	0.00	-223.48	0.00	223.48	4219.68	2109.84	9362.95	4688.43	0.01	-0.01	0.058	
10.00	-42.77	-1.84	0.00	-214.20	0.00	214.20	4164.59	2082.29	9038.31	4525.87	0.03	-0.03	0.058	
15.00	-41.22	-1.81	0.00	-205.02	0.00	205.02	4107.86	2053.93	8715.56	4364.26	0.06	-0.04	0.057	
20.00	-39.70	-1.79	0.00	-195.96	0.00	195.96	4049.50	2024.75	8394.94	4203.71	0.11	-0.05	0.056	
25.00	-38.21	-1.76	0.00	-187.01	0.00	187.01	3989.51	1994.75	8076.69	4044.35	0.17	-0.07	0.056	
30.00	-36.75	-1.74	0.00	-178.19	0.00	178.19	3927.89	1963.94	7761.05	3886.29	0.25	-0.08	0.055	
35.00	-35.31	-1.71	0.00	-169.50	0.00	169.50	3864.63	1932.32	7448.26	3729.66	0.35	-0.10	0.055	
40.00	-33.91	-1.68	0.00	-160.94	0.00	160.94	3799.75	1899.87	7138.54	3574.58	0.46	-0.11	0.054	
44.00	-32.81	-1.66	0.00	-154.20	0.00	154.20	3746.66	1873.33	6893.15	3451.70	0.55	-0.12	0.053	
45.00	-32.35	-1.65	0.00	-152.54	0.00	152.54	3733.23	1866.62	6832.15	3421.15	0.58	-0.13	0.053	
50.00	-30.10	-1.60	0.00	-144.28	0.00	144.28	2895.85	1447.93	5248.77	2628.28	0.72	-0.14	0.065	
55.00	-28.94	-1.58	0.00	-136.29	0.00	136.29	2848.58	1424.29	5024.64	2516.06	0.88	-0.16	0.064	
60.00	-27.80	-1.56	0.00	-128.41	0.00	128.41	2799.67	1399.83	4802.32	2404.73	1.06	-0.18	0.063	
65.00	-26.69	-1.55	0.00	-120.61	0.00	120.61	2749.13	1374.56	4582.02	2294.42	1.26	-0.20	0.062	
70.00	-25.60	-1.54	0.00	-112.87	0.00	112.87	2696.96	1348.48	4364.00	2185.24	1.48	-0.22	0.061	
75.00	-24.53	-1.54	0.00	-105.17	0.00	105.17	2643.16	1321.58	4148.49	2077.33	1.71	-0.24	0.060	
80.00	-23.49	-1.54	0.00	-97.47	0.00	97.47	2587.72	1293.86	3935.73	1970.79	1.98	-0.26	0.059	
85.00	-22.47	-1.55	0.00	-89.75	0.00	89.75	2530.65	1265.33	3725.95	1865.74	2.26	-0.28	0.057	
89.00	-21.68	-1.55	0.00	-83.56	0.00	83.56	2483.83	1241.91	3560.44	1782.87	2.50	-0.30	0.056	
90.00	-21.36	-1.55	0.00	-82.01	0.00	82.01	2471.96	1235.98	3519.40	1762.31	2.56	-0.30	0.055	
92.00	-20.68	-1.55	0.00	-78.92	0.00	78.92	2448.02	1224.01	3437.73	1721.42	2.69	-0.31	0.054	
94.00	-20.07	-1.55	0.00	-75.82	0.00	75.82	1822.74	911.37	2571.33	1287.57	2.82	-0.32	0.070	
95.00	-19.90	-1.55	0.00	-74.28	0.00	74.28	1815.01	907.51	2542.78	1273.28	2.89	-0.32	0.069	
100.00	-19.08	-1.55	0.00	-66.52	0.00	66.52	1775.38	887.69	2400.98	1202.27	3.24	-0.35	0.066	
105.00	-15.45	-1.54	0.00	-58.75	0.00	58.75	1734.12	867.06	2260.90	1132.13	3.62	-0.37	0.061	
110.00	-14.67	-1.54	0.00	-51.07	0.00	51.07	1691.22	845.61	2122.79	1062.97	4.02	-0.40	0.057	
115.00	-13.92	-1.54	0.00	-43.37	0.00	43.37	1646.70	823.35	1986.87	994.91	4.45	-0.42	0.052	
120.00	-13.18	-1.53	0.00	-35.68	0.00	35.68	1600.54	800.27	1853.40	928.08	4.91	-0.44	0.047	
125.00	-12.48	-1.52	0.00	-28.01	0.00	28.01	1552.75	776.38	1722.60	862.58	5.38	-0.46	0.041	
129.00	-8.83	-1.31	0.00	-21.94	0.00	21.94	1513.35	756.67	1620.05	811.23	5.78	-0.48	0.033	
130.00	-8.71	-1.31	0.00	-20.63	0.00	20.63	1503.33	751.67	1594.72	798.54	5.88	-0.48	0.032	
135.00	-8.09	-1.27	0.00	-14.10	0.00	14.10	1452.28	726.14	1469.99	736.09	6.39	-0.50	0.025	
138.00	-4.79	-0.91	0.00	-10.29	0.00	10.29	1413.92	706.96	1389.94	696.00	6.70	-0.50	0.018	
139.00	-4.68	-0.90	0.00	-9.39	0.00	9.39	1400.09	700.04	1362.73	682.38	6.81	-0.50	0.017	
139.00	-4.68	-0.90	0.00	-9.39	0.00	9.39	871.21	435.61	845.74	423.50	6.81	-0.50	0.028	
140.00	-4.57	-0.89	0.00	-8.49	0.00	8.49	871.21	435.61	845.74	423.50	6.92	-0.51	0.025	
145.00	-4.01	-0.81	0.00	-4.06	0.00	4.06	871.21	435.61	845.74	423.50	7.45	-0.51	0.014	
150.00	0.00	-0.78	0.00	0.00	0.00	0.00	871.21	435.61	845.74	423.50	7.99	-0.51	0.000	

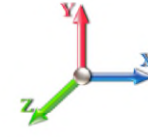
## Seismic Segment Forces (Factored)

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 + 1.0E				<b>Iterations</b> 22
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.19	<b>Ss</b> 0.18
<b>Dead Load Factor</b>	0.90	<b>Seismic Load Factor</b>	1.00	<b>S1</b> 0.07
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.36	<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	0.00	0.00	0.00	
5.00		1104.4	0.00	0.03	0.02	19.32	
10.00		1080.6	0.01	0.05	0.03	27.62	
15.00		1056.8	0.02	0.06	0.04	31.27	
20.00		1033.1	0.03	0.07	0.04	32.72	
25.00		1009.3	0.05	0.07	0.04	33.20	
30.00		985.58	0.08	0.07	0.04	33.30	
35.00		961.81	0.10	0.07	0.04	33.31	
40.00		938.05	0.13	0.07	0.03	33.23	
44.00	Bot - Section 2	733.33	0.16	0.07	0.03	26.33	
45.00		334.07	0.17	0.07	0.03	12.02	
50.00	Top - Section 1	1644.2	0.21	0.06	0.02	59.12	
55.00		733.90	0.25	0.05	0.02	25.54	
60.00		714.09	0.30	0.04	0.01	22.74	
65.00		694.29	0.35	0.03	0.01	18.34	
70.00		674.49	0.41	0.01	0.01	12.19	
75.00		654.68	0.47	-0.01	0.01	4.59	
80.00		634.88	0.54	-0.03	0.01	-3.57	
85.00		615.07	0.61	-0.06	0.02	-10.97	
89.00	Bot - Section 3	477.80	0.67	-0.08	0.02	-12.36	
90.00		212.96	0.68	-0.08	0.03	-5.86	
92.00	Appurtenance(s)	476.65	0.71	-0.09	0.03	-14.44	
94.00	Top - Section 2	415.95	0.74	-0.10	0.04	-13.46	
95.00		92.33	0.76	-0.10	0.04	-3.06	
100.00		452.12	0.84	-0.12	0.07	-15.32	
105.00	Appurtenance(s)	2795.3	0.93	-0.12	0.10	-82.60	
110.00		420.44	1.02	-0.11	0.14	-8.46	
115.00		404.59	1.11	-0.06	0.19	-2.29	
120.00		388.75	1.21	0.01	0.26	5.37	
125.00		372.91	1.31	0.14	0.35	14.29	
129.00	Appurtenance(s)	2872.1	1.40	0.28	0.43	176.90	
130.00		70.15	1.42	0.32	0.45	4.76	
135.00		341.22	1.53	0.58	0.58	35.05	
138.00	Appurtenance(s)	2648.4	1.60	0.78	0.67	334.02	
139.00	Top - Section 3	64.44	1.62	0.85	0.70	8.66	
140.00		72.05	1.65	0.93	0.73	10.29	
145.00		360.23	1.77	1.39	0.92	67.82	
150.00	Appurtenance(s)	3247.2	1.89	1.98	1.14	776.98	
<b>Totals:</b>		<b>31,788.6</b>				<b>1,686.6</b>	<b>Total Wind: 24,474.4</b>

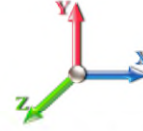
## Calculated Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 + 1.0E						<b>Iterations</b> 22
<b>Gust Response Factor</b>	1.10			<b>Sds</b>	0.19	<b>Ss</b> 0.18
<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>	0.36	<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	-34.34	-1.86	0.00	-229.79	0.00	229.79	4273.14	2136.57	9689.25	4851.82	0.00	0.00	0.00	0.055
5.00	-33.26	-1.85	0.00	-220.47	0.00	220.47	4219.68	2109.84	9362.95	4688.43	0.01	-0.01	0.055	
10.00	-32.08	-1.83	0.00	-211.22	0.00	211.22	4164.59	2082.29	9038.31	4525.87	0.03	-0.03	0.054	
15.00	-30.92	-1.81	0.00	-202.07	0.00	202.07	4107.86	2053.93	8715.56	4364.26	0.06	-0.04	0.054	
20.00	-29.78	-1.78	0.00	-193.05	0.00	193.05	4049.50	2024.75	8394.94	4203.71	0.11	-0.05	0.053	
25.00	-28.66	-1.75	0.00	-184.16	0.00	184.16	3989.51	1994.75	8076.69	4044.35	0.17	-0.07	0.053	
30.00	-27.56	-1.72	0.00	-175.40	0.00	175.40	3927.89	1963.94	7761.05	3886.29	0.25	-0.08	0.052	
35.00	-26.49	-1.70	0.00	-166.78	0.00	166.78	3864.63	1932.32	7448.26	3729.66	0.34	-0.10	0.052	
40.00	-25.43	-1.67	0.00	-158.31	0.00	158.31	3799.75	1899.87	7138.54	3574.58	0.45	-0.11	0.051	
44.00	-24.60	-1.64	0.00	-151.64	0.00	151.64	3746.66	1873.33	6893.15	3451.70	0.55	-0.12	0.051	
45.00	-24.26	-1.63	0.00	-150.00	0.00	150.00	3733.23	1866.62	6832.15	3421.15	0.57	-0.13	0.050	
50.00	-22.57	-1.58	0.00	-141.84	0.00	141.84	2895.85	1447.93	5248.77	2628.28	0.71	-0.14	0.062	
55.00	-21.70	-1.55	0.00	-133.96	0.00	133.96	2848.58	1424.29	5024.64	2516.06	0.87	-0.16	0.061	
60.00	-20.85	-1.54	0.00	-126.19	0.00	126.19	2799.67	1399.83	4802.32	2404.73	1.04	-0.18	0.060	
65.00	-20.01	-1.52	0.00	-118.50	0.00	118.50	2749.13	1374.56	4582.02	2294.42	1.24	-0.20	0.059	
70.00	-19.20	-1.51	0.00	-110.89	0.00	110.89	2696.96	1348.48	4364.00	2185.24	1.45	-0.21	0.058	
75.00	-18.40	-1.51	0.00	-103.33	0.00	103.33	2643.16	1321.58	4148.49	2077.33	1.69	-0.23	0.057	
80.00	-17.62	-1.52	0.00	-95.76	0.00	95.76	2587.72	1293.86	3935.73	1970.79	1.94	-0.25	0.055	
85.00	-16.85	-1.52	0.00	-88.19	0.00	88.19	2530.65	1265.33	3725.95	1865.74	2.22	-0.28	0.054	
89.00	-16.25	-1.52	0.00	-82.12	0.00	82.12	2483.83	1241.91	3560.44	1782.87	2.46	-0.29	0.053	
90.00	-16.02	-1.52	0.00	-80.60	0.00	80.60	2471.96	1235.98	3519.40	1762.31	2.52	-0.30	0.052	
92.00	-15.51	-1.52	0.00	-77.57	0.00	77.57	2448.02	1224.01	3437.73	1721.42	2.65	-0.30	0.051	
94.00	-15.05	-1.52	0.00	-74.53	0.00	74.53	1822.74	911.37	2571.33	1287.57	2.78	-0.31	0.066	
95.00	-14.93	-1.52	0.00	-73.02	0.00	73.02	1815.01	907.51	2542.78	1273.28	2.84	-0.32	0.066	
100.00	-14.31	-1.52	0.00	-65.42	0.00	65.42	1775.38	887.69	2400.98	1202.27	3.19	-0.34	0.062	
105.00	-11.58	-1.51	0.00	-57.80	0.00	57.80	1734.12	867.06	2260.90	1132.13	3.56	-0.37	0.058	
110.00	-11.00	-1.51	0.00	-50.25	0.00	50.25	1691.22	845.61	2122.79	1062.97	3.96	-0.39	0.054	
115.00	-10.43	-1.51	0.00	-42.69	0.00	42.69	1646.70	823.35	1986.87	994.91	4.38	-0.41	0.049	
120.00	-9.88	-1.51	0.00	-35.14	0.00	35.14	1600.54	800.27	1853.40	928.08	4.83	-0.44	0.044	
125.00	-9.36	-1.49	0.00	-27.61	0.00	27.61	1552.75	776.38	1722.60	862.58	5.30	-0.46	0.038	
129.00	-6.62	-1.29	0.00	-21.65	0.00	21.65	1513.35	756.67	1620.05	811.23	5.69	-0.47	0.031	
130.00	-6.53	-1.29	0.00	-20.36	0.00	20.36	1503.33	751.67	1594.72	798.54	5.78	-0.47	0.030	
135.00	-6.06	-1.25	0.00	-13.92	0.00	13.92	1452.28	726.14	1469.99	736.09	6.29	-0.49	0.023	
138.00	-3.59	-0.89	0.00	-10.17	0.00	10.17	1413.92	706.96	1389.94	696.00	6.60	-0.49	0.017	
139.00	-3.51	-0.89	0.00	-9.28	0.00	9.28	1400.09	700.04	1362.73	682.38	6.70	-0.50	0.016	
139.00	-3.51	-0.89	0.00	-9.28	0.00	9.28	871.21	435.61	845.74	423.50	6.70	-0.50	0.026	
140.00	-3.43	-0.87	0.00	-8.39	0.00	8.39	871.21	435.61	845.74	423.50	6.80	-0.50	0.024	
145.00	-3.01	-0.80	0.00	-4.02	0.00	4.02	871.21	435.61	845.74	423.50	7.33	-0.50	0.013	
150.00	0.00	-0.78	0.00	0.00	0.00	0.00	871.21	435.61	845.74	423.50	7.86	-0.51	0.000	

## Wind Loading - Shaft

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

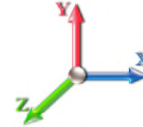


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 23

**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	0.70	6.129	6.74	235.75	0.650	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.70	6.129	6.74	230.77	0.650	0.000	5.00	23.233	15.10	101.8	0.0	1104.4
10.00		1.00	0.70	6.129	6.74	225.78	0.650	0.000	5.00	22.737	14.78	99.6	0.0	1080.6
15.00		1.00	0.70	6.129	6.74	220.80	0.650	0.000	5.00	22.240	14.46	97.5	0.0	1056.9
20.00		1.00	0.70	6.129	6.74	215.81	0.650	0.000	5.00	21.744	14.13	95.3	0.0	1033.1
25.00		1.00	0.70	6.129	6.74	210.83	0.650	0.000	5.00	21.247	13.81	93.1	0.0	1009.3
30.00		1.00	0.70	6.134	6.75	205.93	0.650	0.000	5.00	20.751	13.49	91.0	0.0	985.6
35.00		1.00	0.73	6.410	7.05	205.42	0.650	0.000	5.00	20.254	13.17	92.8	0.0	961.8
40.00		1.00	0.76	6.659	7.33	204.18	0.650	0.000	5.00	19.758	12.84	94.1	0.0	938.0
44.00	Bot - Section 2	1.00	0.78	6.843	7.53	202.76	0.650	0.000	4.00	15.449	10.04	75.6	0.0	733.3
45.00		1.00	0.79	6.887	7.58	202.36	0.650	0.000	1.00	3.865	2.51	19.0	0.0	334.1
50.00	Top - Section 1	1.00	0.81	7.098	7.81	200.06	0.650	0.000	5.00	19.029	12.37	96.6	0.0	1644.2
55.00		1.00	0.83	7.294	8.02	200.26	0.650	0.000	5.00	18.533	12.05	96.6	0.0	733.9
60.00		1.00	0.85	7.477	8.22	197.26	0.650	0.000	5.00	18.036	11.72	96.4	0.0	714.1
65.00		1.00	0.87	7.650	8.42	193.96	0.650	0.000	5.00	17.540	11.40	95.9	0.0	694.3
70.00		1.00	0.89	7.814	8.60	190.40	0.650	0.000	5.00	17.043	11.08	95.2	0.0	674.5
75.00		1.00	0.91	7.969	8.77	186.60	0.650	0.000	5.00	16.547	10.76	94.3	0.0	654.7
80.00		1.00	0.93	8.118	8.93	182.59	0.650	0.000	5.00	16.050	10.43	93.2	0.0	634.9
85.00		1.00	0.94	8.260	9.09	178.39	0.650	0.000	5.00	15.553	10.11	91.9	0.0	615.1
89.00	Bot - Section 3	1.00	0.96	8.369	9.21	174.90	0.650	0.000	4.00	12.085	7.86	72.3	0.0	477.8
90.00		1.00	0.96	8.396	9.24	174.02	0.650	0.000	1.00	3.014	1.96	18.1	0.0	213.0
92.00	Appurtenance(s)	1.00	0.96	8.448	9.29	172.22	0.650	0.000	2.00	5.968	3.88	36.1	0.0	421.7
94.00	Top - Section 2	1.00	0.97	8.501	9.35	170.40	0.650	0.000	2.00	5.889	3.83	35.8	0.0	415.9
95.00		1.00	0.97	8.526	9.38	171.99	0.650	0.000	1.00	2.915	1.89	17.8	0.0	92.3
100.00		1.00	0.99	8.652	9.52	167.33	0.650	0.000	5.00	14.275	9.28	88.3	0.0	452.1
105.00	Appurtenance(s)	1.00	1.00	8.774	9.65	162.54	0.650	0.000	5.00	13.779	8.96	86.4	0.0	436.3
110.00		1.00	1.02	8.891	9.78	157.62	0.650	0.000	5.00	13.282	8.63	84.4	0.0	420.4
115.00		1.00	1.03	9.005	9.91	152.58	0.650	0.000	5.00	12.786	8.31	82.3	0.0	404.6
120.00		1.00	1.04	9.115	10.03	147.43	0.650	0.000	5.00	12.289	7.99	80.1	0.0	388.8
125.00		1.00	1.05	9.222	10.14	142.18	0.650	0.000	5.00	11.793	7.67	77.8	0.0	372.9
129.00	Appurtenance(s)	1.00	1.06	9.305	10.24	137.90	0.650	0.000	4.00	9.077	5.90	60.4	0.0	286.9
130.00		1.00	1.07	9.326	10.26	136.83	0.650	0.000	1.00	2.220	1.44	14.8	0.0	70.1
135.00		1.00	1.08	9.427	10.37	131.38	0.650	0.000	5.00	10.800	7.02	72.8	0.0	341.2
138.00	Appurtenance(s)	1.00	1.08	9.486	10.43	128.08	0.650	0.000	3.00	6.242	4.06	42.3	0.0	197.1
139.00	Top - Section 3	1.00	1.09	9.506	10.46	126.97	0.650	0.000	1.00	2.041	1.33	13.9	0.0	64.4
140.00		1.00	1.09	9.525	10.48	127.10	0.650	0.000	1.00	2.031	1.32	13.8	0.0	72.0
145.00		1.00	1.10	9.621	10.58	127.74	0.650	0.000	5.00	10.154	6.60	69.9	0.0	360.2
150.00	Appurtenance(s)	1.00	1.11	9.715	10.69	128.36	0.650	0.000	5.00	10.154	6.60	70.5	0.0	360.2
<b>Totals:</b>									<b>150.00</b>			<b>2,657.7</b>		<b>21,451.0</b>

## Discrete Appurtenance Forces

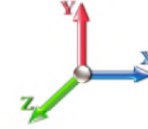
<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 23

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor 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	150.00	Commscope	6	9.715	10.686	0.74	1.00	49.64	427.20	0.000	0.000	530.46	0.00	0.00	
2	150.00	Cellwave PD220 20' Omni	2	9.913	10.905	1.00	1.00	12.00	110.00	0.000	11.000	130.86	0.00	1439.41	
3	150.00	Cellwave TD1142 14'	1	9.878	10.866	1.00	1.00	4.20	40.00	0.000	9.000	45.64	0.00	410.73	
4	150.00	ADC DD1900	1	9.715	10.686	0.60	1.00	0.66	15.40	0.000	0.000	7.05	0.00	0.00	
5	150.00	T-Arms w/ Working	3	9.715	10.686	0.56	0.75	30.71	1500.00	0.000	0.000	328.20	0.00	0.00	
6	150.00	Raycap	1	9.715	10.686	0.54	0.80	2.18	32.00	0.000	0.000	23.26	0.00	0.00	
7	150.00	Samsung MT6407-77A	3	9.715	10.686	0.70	1.00	9.85	238.20	0.000	0.000	105.25	0.00	0.00	
8	150.00	Commscope	3	9.715	10.686	1.00	1.00	0.00	76.05	0.000	0.000	0.00	0.00	0.00	
9	150.00	Samsung RF4439d-25A	3	9.715	10.686	0.54	0.80	4.02	224.10	0.000	0.000	42.96	0.00	0.00	
10	150.00	Samsung RF4440d-13A	3	9.715	10.686	0.54	0.80	3.94	224.10	0.000	0.000	42.10	0.00	0.00	
11	138.00	Decibel 978QNB120E-M	3	9.486	10.435	0.55	0.80	12.57	105.00	0.000	0.000	131.16	0.00	0.00	
12	138.00	Powerwave	3	9.486	10.435	0.64	0.80	21.96	177.00	0.000	0.000	229.20	0.00	0.00	
13	138.00	Powerwave 7770.00	6	9.486	10.435	0.62	0.80	20.36	210.00	0.000	0.000	212.50	0.00	0.00	
14	138.00	Low Profile Platform	1	9.486	10.435	1.00	1.00	22.00	1500.00	0.000	0.000	229.56	0.00	0.00	
15	138.00	Raycap DC6-48-60-18-8F	1	9.486	10.435	0.54	0.80	1.18	16.00	0.000	0.000	12.30	0.00	0.00	
16	138.00	Commscope	1	9.486	10.435	0.48	0.80	0.02	1.10	0.000	0.000	0.20	0.00	0.00	
17	138.00	Powerwave 21903	6	9.486	10.435	0.48	0.80	0.58	33.00	0.000	0.000	6.01	0.00	0.00	
18	138.00	Ericsson RRUS-11	6	9.486	10.435	0.54	0.80	8.10	304.20	0.000	0.000	84.57	0.00	0.00	
19	138.00	Powerwave LGP 21401	6	9.486	10.435	0.48	0.80	3.02	105.00	0.000	0.000	31.55	0.00	0.00	
20	129.00	Ericsson Air 32	3	9.305	10.236	0.69	0.80	13.44	396.60	0.000	0.000	137.53	0.00	0.00	
21	129.00	Ericsson Air 21 B4A/B2P	3	9.305	10.236	0.68	0.80	12.32	270.90	0.000	0.000	126.12	0.00	0.00	
22	129.00	RFS	3	9.305	10.236	0.58	0.80	34.97	384.00	0.000	0.000	357.99	0.00	0.00	
23	129.00	Ericsson Radio 4449	3	9.305	10.236	0.54	0.80	2.62	222.00	0.000	0.000	26.83	0.00	0.00	
24	129.00	Support Rail Pipe	1	9.305	10.236	0.75	0.75	5.06	261.72	0.000	0.000	51.82	0.00	0.00	
25	129.00	T-Arms	3	9.305	10.236	0.56	0.75	13.50	1050.00	0.000	0.000	138.18	0.00	0.00	
26	105.00	MC-PK8-DSH	1	8.774	9.651	1.00	1.00	37.59	1727.00	0.000	0.000	362.78	0.00	0.00	
27	105.00	RDIDC-9181-OF-48	1	8.774	9.651	0.50	0.75	1.01	21.90	0.000	0.000	9.75	0.00	0.00	
28	105.00	TA08025-B605	3	8.774	9.651	0.50	0.75	2.95	225.00	0.000	0.000	28.52	0.00	0.00	
29	105.00	TA08025-B604	3	8.774	9.651	0.50	0.75	2.95	191.70	0.000	0.000	28.52	0.00	0.00	
30	105.00	MX08FRO665-21	3	8.774	9.651	0.55	0.75	20.80	193.50	0.000	0.000	200.70	0.00	0.00	
31	92.00	Standoff	1	8.448	9.293	1.00	1.00	2.63	40.00	0.000	0.000	24.44	0.00	0.00	
32	92.00	MYA 4505 4' Yagi	1	8.448	9.293	1.00	1.00	2.50	15.00	0.000	0.000	23.23	0.00	0.00	
<b>Totals:</b>									<b>10,337.67</b>						<b>3,709.23</b>

## Total Applied Force Summary

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

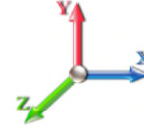


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 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		101.81	1197.50	0.00	0.00
10.00		99.63	1313.39	0.00	0.00
15.00		97.46	1289.62	0.00	0.00
20.00		95.28	1265.86	0.00	0.00
25.00		93.11	1242.09	0.00	0.00
30.00		91.01	1218.33	0.00	0.00
35.00		92.83	1194.56	0.00	0.00
40.00		94.07	1170.80	0.00	0.00
44.00		75.59	919.53	0.00	0.00
45.00		19.03	380.62	0.00	0.00
50.00		96.57	1876.97	0.00	0.00
55.00		96.65	966.65	0.00	0.00
60.00		96.42	946.84	0.00	0.00
65.00		95.94	927.04	0.00	0.00
70.00		95.22	907.24	0.00	0.00
75.00		94.28	887.43	0.00	0.00
80.00		93.16	867.63	0.00	0.00
85.00		91.85	847.82	0.00	0.00
89.00		72.31	664.00	0.00	0.00
90.00		18.09	259.51	0.00	0.00
92.00	(2) attachments	83.73	569.75	0.00	0.00
94.00		35.79	508.41	0.00	0.00
95.00		17.77	138.56	0.00	0.00
100.00		88.31	683.27	0.00	0.00
105.00	(11) attachments	716.70	3026.53	0.00	0.00
110.00		84.44	646.59	0.00	0.00
115.00		82.32	630.74	0.00	0.00
120.00		80.09	611.90	0.00	0.00
125.00		77.76	584.06	0.00	0.00
129.00	(16) attachments	898.86	3041.06	0.00	0.00
130.00		14.80	105.10	0.00	0.00
135.00		72.79	515.97	0.00	0.00
138.00	(33) attachments	979.39	2753.28	0.00	0.00
139.00		13.87	85.30	0.00	0.00
140.00		13.83	92.91	0.00	0.00
145.00		69.85	464.53	0.00	0.00
150.00	(26) attachments	1326.31	3351.58	0.00	1850.13
	<b>Totals:</b>	<b>6,366.92</b>	<b>38,152.97</b>	<b>0.00</b>	<b>1,850.13</b>



## Calculated Forces

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



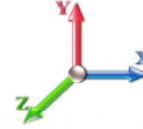
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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Iterations** 23

**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	-38.15	-6.38	0.00	-720.17	0.00	720.17	4273.14	2136.57	9689.25	4851.82	0.00	0.000	0.000	0.157
5.00	-36.95	-6.30	0.00	-688.27	0.00	688.27	4219.68	2109.84	9362.95	4688.43	0.02	-0.040	0.000	0.156
10.00	-35.63	-6.23	0.00	-656.76	0.00	656.76	4164.59	2082.29	9038.31	4525.87	0.08	-0.080	0.000	0.154
15.00	-34.34	-6.15	0.00	-625.62	0.00	625.62	4107.86	2053.93	8715.56	4364.26	0.19	-0.122	0.000	0.152
20.00	-33.07	-6.08	0.00	-594.85	0.00	594.85	4049.50	2024.75	8394.94	4203.71	0.34	-0.164	0.000	0.150
25.00	-31.82	-6.01	0.00	-564.45	0.00	564.45	3989.51	1994.75	8076.69	4044.35	0.54	-0.206	0.000	0.148
30.00	-30.60	-5.93	0.00	-534.42	0.00	534.42	3927.89	1963.94	7761.05	3886.29	0.77	-0.250	0.000	0.145
35.00	-29.40	-5.86	0.00	-504.75	0.00	504.75	3864.63	1932.32	7448.26	3729.66	1.06	-0.294	0.000	0.143
40.00	-28.23	-5.78	0.00	-475.46	0.00	475.46	3799.75	1899.87	7138.54	3574.58	1.39	-0.339	0.000	0.140
44.00	-27.30	-5.71	0.00	-452.35	0.00	452.35	3746.66	1873.33	6893.15	3451.70	1.69	-0.376	0.000	0.138
45.00	-26.92	-5.70	0.00	-446.65	0.00	446.65	3733.23	1866.62	6832.15	3421.15	1.77	-0.385	0.000	0.138
50.00	-25.04	-5.61	0.00	-418.15	0.00	418.15	2895.85	1447.93	5248.77	2628.28	2.20	-0.431	0.000	0.168
55.00	-24.07	-5.53	0.00	-390.11	0.00	390.11	2848.58	1424.29	5024.64	2516.06	2.68	-0.478	0.000	0.164
60.00	-23.12	-5.44	0.00	-362.48	0.00	362.48	2799.67	1399.83	4802.32	2404.73	3.21	-0.532	0.000	0.159
65.00	-22.19	-5.36	0.00	-335.26	0.00	335.26	2749.13	1374.56	4582.02	2294.42	3.79	-0.587	0.000	0.154
70.00	-21.28	-5.27	0.00	-308.46	0.00	308.46	2696.96	1348.48	4364.00	2185.24	4.44	-0.641	0.000	0.149
75.00	-20.38	-5.19	0.00	-282.09	0.00	282.09	2643.16	1321.58	4148.49	2077.33	5.14	-0.696	0.000	0.144
80.00	-19.51	-5.10	0.00	-256.14	0.00	256.14	2587.72	1293.86	3935.73	1970.79	5.90	-0.751	0.000	0.138
85.00	-18.66	-5.02	0.00	-230.62	0.00	230.62	2530.65	1265.33	3725.95	1865.74	6.71	-0.805	0.000	0.131
89.00	-18.00	-4.94	0.00	-210.55	0.00	210.55	2483.83	1241.91	3560.44	1782.87	7.41	-0.849	0.000	0.125
90.00	-17.74	-4.93	0.00	-205.61	0.00	205.61	2471.96	1235.98	3519.40	1762.31	7.59	-0.860	0.000	0.124
92.00	-17.17	-4.84	0.00	-195.76	0.00	195.76	2448.02	1224.01	3437.73	1721.42	7.95	-0.882	0.000	0.121
94.00	-16.66	-4.80	0.00	-186.07	0.00	186.07	1822.74	911.37	2571.33	1287.57	8.33	-0.903	0.000	0.154
95.00	-16.52	-4.79	0.00	-181.27	0.00	181.27	1815.01	907.51	2542.78	1273.28	8.52	-0.914	0.000	0.151
100.00	-15.83	-4.71	0.00	-157.31	0.00	157.31	1775.38	887.69	2400.98	1202.27	9.51	-0.975	0.000	0.140
105.00	-12.81	-3.95	0.00	-133.77	0.00	133.77	1734.12	867.06	2260.90	1132.13	10.56	-1.033	0.000	0.126
110.00	-12.16	-3.87	0.00	-114.01	0.00	114.01	1691.22	845.61	2122.79	1062.97	11.67	-1.088	0.000	0.114
115.00	-11.53	-3.78	0.00	-94.67	0.00	94.67	1646.70	823.35	1986.87	994.91	12.84	-1.140	0.000	0.102
120.00	-10.92	-3.70	0.00	-75.76	0.00	75.76	1600.54	800.27	1853.40	928.08	14.06	-1.188	0.000	0.088
125.00	-10.33	-3.61	0.00	-57.27	0.00	57.27	1552.75	776.38	1722.60	862.58	15.33	-1.230	0.000	0.073
129.00	-7.31	-2.65	0.00	-42.81	0.00	42.81	1513.35	756.67	1620.05	811.23	16.37	-1.258	0.000	0.058
130.00	-7.21	-2.64	0.00	-40.15	0.00	40.15	1503.33	751.67	1594.72	798.54	16.63	-1.265	0.000	0.055
135.00	-6.69	-2.56	0.00	-26.97	0.00	26.97	1452.28	726.14	1469.99	736.09	17.97	-1.293	0.000	0.041
138.00	-3.96	-1.51	0.00	-19.30	0.00	19.30	1413.92	706.96	1389.94	696.00	18.79	-1.306	0.000	0.031
139.00	-3.88	-1.50	0.00	-17.79	0.00	17.79	1400.09	700.04	1362.73	682.38	19.07	-1.309	0.000	0.029
139.00	-3.88	-1.50	0.00	-17.79	0.00	17.79	871.21	435.61	845.74	423.50	19.07	-1.309	0.000	0.046
140.00	-3.78	-1.48	0.00	-16.29	0.00	16.29	871.21	435.61	845.74	423.50	19.34	-1.313	0.000	0.043
145.00	-3.32	-1.40	0.00	-8.87	0.00	8.87	871.21	435.61	845.74	423.50	20.72	-1.325	0.000	0.025
150.00	0.00	-1.33	0.00	-1.85	0.00	1.85	871.21	435.61	845.74	423.50	22.11	-1.330	0.000	0.004

## Final Analysis Summary

<b>Structure:</b> CT01500-S-SBA	<b>Code:</b> TIA-222-G	4/5/2022
<b>Site Name:</b> Canton 2 CT	<b>Exposure:</b> B	
<b>Height:</b> 150.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (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 93 mph Wind	24.5	0.00	45.75	0.00	0.00	2787.75
0.9D + 1.6W 93 mph Wind	24.5	0.00	34.30	0.00	0.00	2754.57
1.2D + 1.0Di + 1.0Wi 50 mph Wind	8.2	0.00	80.34	0.00	0.00	953.46
1.2D + 1.0E	1.9	0.00	45.78	0.00	0.00	232.79
0.9D + 1.0E	1.9	0.00	34.34	0.00	0.00	229.79
1.0D + 1.0W 60 mph Wind	6.4	0.00	38.15	0.00	0.00	720.17

### 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 93 mph Wind	-29.45	-21.71	0.00	-1622.3	0.00	-1622.3	2895.85	1447.9	5248.77	2628.28	50.00	0.628
0.9D + 1.6W 93 mph Wind	-21.93	-21.47	0.00	-1595.9	0.00	-1595.9	2895.85	1447.9	5248.77	2628.28	50.00	0.615
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-58.43	-7.44	0.00	-560.06	0.00	-560.06	2895.85	1447.9	5248.77	2628.28	50.00	0.233
1.2D + 1.0E	-20.07	-1.55	0.00	-75.82	0.00	-75.82	1822.74	911.37	2571.33	1287.57	94.00	0.070
0.9D + 1.0E	-15.05	-1.52	0.00	-74.53	0.00	-74.53	1822.74	911.37	2571.33	1287.57	94.00	0.066
1.0D + 1.0W 60 mph Wind	-25.04	-5.61	0.00	-418.15	0.00	-418.15	2895.85	1447.9	5248.77	2628.28	50.00	0.168



# Monopole Mat Foundation Design

Date

2/2/2022

<b>Customer Name:</b>	Verizon	<b>TIA Standard:</b>	TIA-222-G
<b>Site Name:</b>		<b>Structure Height (Ft.):</b>	150
<b>Site Number:</b>	CT01500-S-SBA	<b>Engineer Name:</b>	J. Tibbetts
<b>Engr. Number:</b>	123271	<b>Engineer Login ID:</b>	

**Foundation Info Obtained from:**

Drawings/Calculations

**Structure Type:**

Monopole

**Analysis or Design?**

Analysis

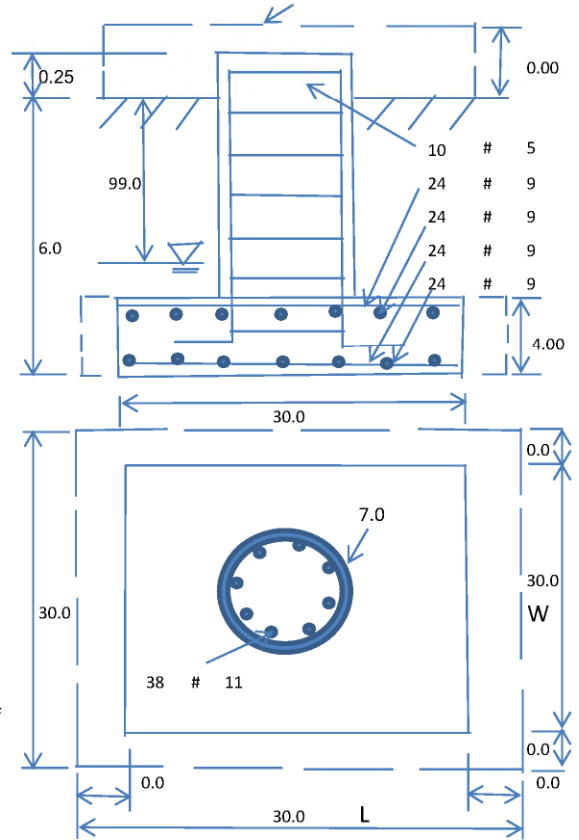
**Base Reactions (Factored):**

Axial Load (Kips):	45.8	Shear Force (Kips):	24.5
Uplift Force (Kips):	0.0	Moment (Kips-ft):	2788.0

Allowable overstress %: 5.0%

**Foundation Geometries:**

Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	6.0	Mods required -Yes/No ?:	No
Pier Height A. G. (ft.):	0.25	Thickness of Pad (ft):	4.00		
Length of Pad (ft.):	30	Width of Pad (ft.):	30		
Final Length of pad (ft)	30.0	Final width of pad (ft):	30.0		



**Material Properties and Rebar Info:**

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	11	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	38	Tie Spacing (in):	8.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	9	
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf

**Rebar at the bottom of the concrete pad:**

Qty. of Rebar in Pad (L):	24	Qty. of Rebar in Pad (W):	24
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**Rebar at the top of the concrete pad:**

Qty. of Rebar in Pad (L):	24	Qty. of Rebar in Pad (W):	24
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Apply 1.35 factor for e/w Per G: 1.35

**Soil Design Parameters:**

Soil Unit Weight (pcf):	140.0	Soil Buoyant Weight:	50.0	Pcf	Angle from Top of Pad:	30
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf	Angle from Bottm of Pad:	25
Ultimate Bearing Pressure (psf):	30000	Ultimate Skin Friction:	0	Psf	Angle from Bottm of Pad:	25
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	Yes		Reduction factor on the maximum soil bearing pressure:	1.00
Consider soil hor. resist. for OTM.:	Yes					

**Foundation Analysis and Design:**

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	1723.03	Total Dry Soil Weight (Kips):	241.22
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	241.22	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	3686.59	Total Dry Concrete Weight (Kips):	552.99
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	552.99	Total Vertical Load on Base (Kips):	839.96

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	1252	< Allowable Factored Soil Bearing (psf):	22500	0.06	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	11408.1	> Design Factored Momont (kips-ft):	2687	0.24	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	4.25				OK!

Load/  
Capacity  
Ratio

**Check the capacities of Reinforcing Concrete:**

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75		
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00		
				Load/ Capacity Ratio	
<b>(1) Concrete Pier:</b>					
Vertical Steel Rebar Area (sq. in./each):	1.56	Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	9305.3	> Design Factored Moment (Mu, Kips-F	2843.1	0.31	OK!
Calculated Shear Capacity (Kips):	767.8	> Design Factored Shear (Kips):	24.5	0.03	OK!
Calculated Tension Capacity (Tn, Kips):	3201.1	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	7269.8	> Design Factored Axial Load (Pu Kips):	45.8	0.01	OK!
Moment & Axial Strength Combination:	0.31	OK! Check Tie Spacing (Design/Required):		0.6667	OK!
Pier Reinforcement Ratio:	0.011	Reinforcement Ratio is satisfied per ACI			
<b>(2).Concrete Pad:</b>					
One-Way Design Shear Capacity (L-Direction, Kips):	1314.3	> One-Way Factored Shear (L-D. Kips):	175.3	0.13	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1314.3	> One-Way Factored Shear (W-D., Kips)	175.3	0.13	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	1227.6	> One-Way Factored Shear (C-C, Kips):	155.3	0.13	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0015	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0015		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	4714.5	> Moment at Bottom ( L-Dir. K-Ft):	1263.2	0.27	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	4714.5	> Moment at Bottom ( W-Dir. K-Ft):	1263.2	0.27	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	6643.7	> Moment at Bottom ( C-C Dir. K-Ft):	1786.4	0.27	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0015	OK! Upper Steel Reinf. Ratio (W-Dir. ):	0.0015		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	4714.5	> Moment at the top (L-Dir K-Ft):	493.3	0.10	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	4714.5	> Moment at the top (W-Dir K-Ft):	493.3	0.10	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	6643.7	> Moment at the top (C-C Dir. K-Ft):	460.7	0.07	OK!
<b>(3).Check Punching Shear Capacity due to Moment in the Pier:</b>					
Moment transferred by punching shear:	1115.2	k-ft. Max. factored shear stress $v_{u,CD}$ :		2.1	Psi
Max. factored shear stress $v_{u,AB}$ :	5.9	Psi Factored shear Strength $\phi v_n$ :		164.3	Psi
Max. factored shear stress $v_u$ :	5.9	Psi Check Usage of Punching Shear Capacity:		0.04	OK!



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**Post-Modification Antenna Mount Analysis Report and PMI Requirements**

Mount Fix

SMART Tool Project #: 10112268  
 Maser Consulting Connecticut Project #: 21777297A (Rev. 2)

March 1, 2022

**Site Information**

Site ID: 468823-VZW / NORTH CANTON CT  
 Site Name: NORTH CANTON CT  
 Carrier Name: Verizon Wireless  
 Address: 540 CHERRY BROOK ROAD  
 CANTON, Connecticut 06019, Hartford County  
 Latitude: 41.894161°  
 Longitude: -72.893286°

**Structure Information**

Tower Type: Monopole  
 Mount Type: 14.58-Ft Platform

**FUZE ID # 16272370**

**Analysis Results**

Platform: 73.3% **Pass w/ Modifications\***

**\*Antennas and equipment to be installed in compliance with PMI Requirements of this mount analysis.**

**\*\*\*Contractor PMI Requirements:**

**Included at the end of this MA report  
 Available & Submitted via portal at <https://pmi.vzwsmart.com>  
 For additional questions and support, please reach out to:  
[pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)**

Report Prepared By: Conner Hoge



Digitally signed by Justin Linette  
 Date: 2022.03.02 09:18:00-0500'

## **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:**

<b>Document Type</b>	<b>Remarks</b>
<i>Radio Frequency Data Sheet (RFDS)</i>	<i>Verizon RFDS Site ID: 324532, dated October 14, 2021</i>
<i>Mount Mapping Report</i>	<i>Roaming Networks Inc., Site ID: 468823, dated March 30, 2021</i>
<i>Previous Mount Analysis Report</i>	<i>Maser Consulting Project #: 21777297A (Rev. 1), dated October 20, 2021</i>
<i>Mount Modification Drawings</i>	<i>Maser Consulting Project #: 21777297A (Rev. 2), dated March 1, 2022</i>

## **Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 115 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.50 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.977
Seismic Parameters:	$S_s$ : 0.173 $S_1$ : 0.054
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Live Load, $L_v$ : 250 lbs. Maintenance Live Load, $L_m$ : 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
149.00	150.00	6	Commscope	NHH-65B-R2B	Added
		3	Samsung	MT6407-77A	
		3	Samsung	RF4439d-25A	
		3	Samsung	RF4440d-13A	
		1	Raycap	RVZDC-6627-PF-48	
		1	-	Lightning Rod	Retained

The recent mount mapping did not report existing OVP units. However, it is acceptable to install up to any three (3) of the OVP model numbers listed below as required at any location other than the mount face without affecting the structural capacity of the mount. If OVP units are installed on the mount face, a mount re-analysis may be required.

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

**Standard Conditions:**

1. All engineering services are performed on the basis that the information provided to Maser Consulting 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 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 in accordance with the NSTD-446 Standard, 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 is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
- Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - Pipe    ASTM A53 (Gr. B-35)
  - Threaded Rod                                      F1554 (Gr. 36)
  - 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.**

**Analysis Results:**

Component	Utilization %	Pass/Fail
Face Horizontal	46.7 %	Pass
Standoff Arm	73.3 %	Pass
Grating Angle	21.0 %	Pass
Mount Pipe	69.9 %	Pass
Connection Angle	11.7 %	Pass
Mod Support Rail	23.7 %	Pass
Mod Support Angle	27.4 %	Pass
Connection	39.6 %	Pass
<b>Structure Rating – (Controlling Utilization of all Components)</b>		<b>73.3%</b>

**Mount Steel (EPA)a per ANSI/TIA-222-H Section 2.6.11.2:**

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	25.0	25.0	38.9	38.9
0.5	33.3	33.3	53.0	53.0
1	39.9	39.9	65.4	65.4

Notes:

- (EPA)a values listed above may be used in the absence of more precise information
- (EPA)a values in the table above include 3 sector(s).
- Ka factors included in (EPA)a calculations



## **Requirements:**

The existing mount will be **SUFFICIENT** for the final loading configuration (attachment 2) **after the modifications detailed in attachment 3 are successfully completed.**

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

## **Attachments:**

1. **Contractor Required PMI Report Deliverables**
2. Antenna Placement Diagrams
3. Mount Modification Drawings
4. Mount Photos
5. Mount Mapping Report (for reference only)
6. Analysis Calculations

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

## Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at <https://pmi.vzwsmart.com>

For additional questions and support, please reach out to [pmisupport@colliersengineering.com](mailto:pmisupport@colliersengineering.com)

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PSLC #: 468823

SMART Project #: 10112268

Fuze Project ID: 16272370

**Purpose** – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor 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:**

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. 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) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

### **Photo Requirements:**

- Photos taken at ground level
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation of the modifications.
  - Photos of the mount 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 the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.

- Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.
  - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.
- Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
- Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
- Photos showing the installed modifications onto the tower (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, an elevation measurement shall be provided before the elevation change.

**Material Certification:**

- Materials utilized must be as per specification on the drawings or the equivalent as validated by the SMART Tool vendor.
  - If the materials are as specified on the drawings
    - The contractor shall provide the packing list, or the materials certifications for the materials utilized to perform the mount modification
    - Commscope, Metrosite, Perfect Vision, Sabre, and Site Pro have all agreed to support Verizon vendors with the necessary material certifications
  - If seeking permission to use an equivalent
    - It is required that the SMART Tool engineering vendor approval of such is included in the contractor submission package. There may be an additional charge for approval if the equivalent submission doesn't meet specifications as prescribed in the drawings.

All hardware has been properly installed, and the existing hardware was inspected.

The material utilized was as specified on the SMART Tool engineering vendor Mount Modification Drawings and included in the material certification folder is a packing list or invoice for these materials.

OR

The material utilized was approved by a SMART Tool engineering vendor as an "equivalent" and this approval is included as part of the contractor submission.

**Antenna & Equipment Placement and Geometry Confirmation:**

The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

The contractor notes that the equipment on the mount is not in accordance with the sketch and has noted the differences below and provided photo documentation of any alterations.

**Comments:**

**Was the mount modification completed in conjunction with the equipment change / installation?**

Yes       No

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

**Issue:**

Install proposed OVP on the proposed OVP pipe. See referenced mount modification drawings for details.

**Response:**

**Special Instruction Confirmation:**

The contractor has read and acknowledges the above special instructions.

**Comments:**

**Contractor certifies that the climbing facility / safety climb was not damaged prior to starting work:**

Yes       No

**Contractor certifies no new damage created during the current installation:**

Yes       No

**Contractor to certify the condition of the safety climb and verify no damage when leaving the site:**

Safety Climb in Good Condition       Safety Climb Damaged

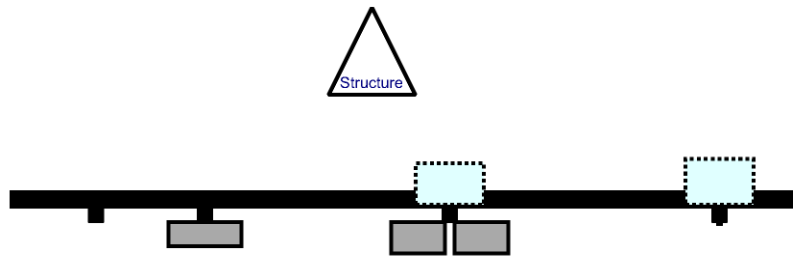
**Comments:**

--

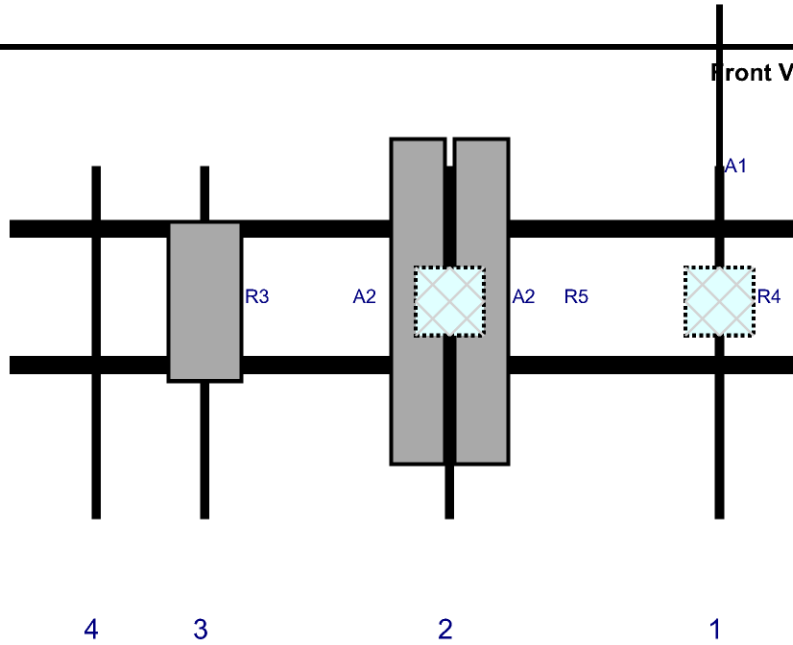
**Certifying Individual:**

Company:	
Employee Name:	
Contact Phone:	
Email:	
Date:	

Plan View

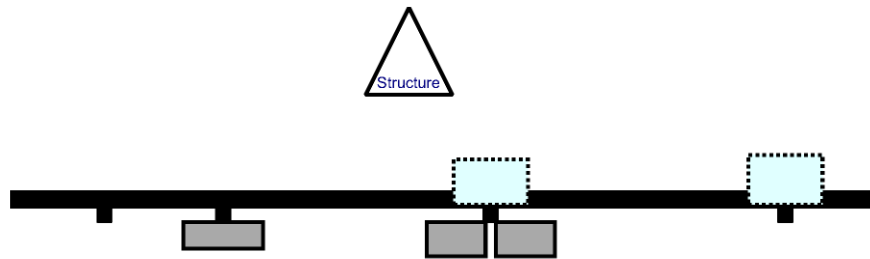


Front View - Looking at Structure

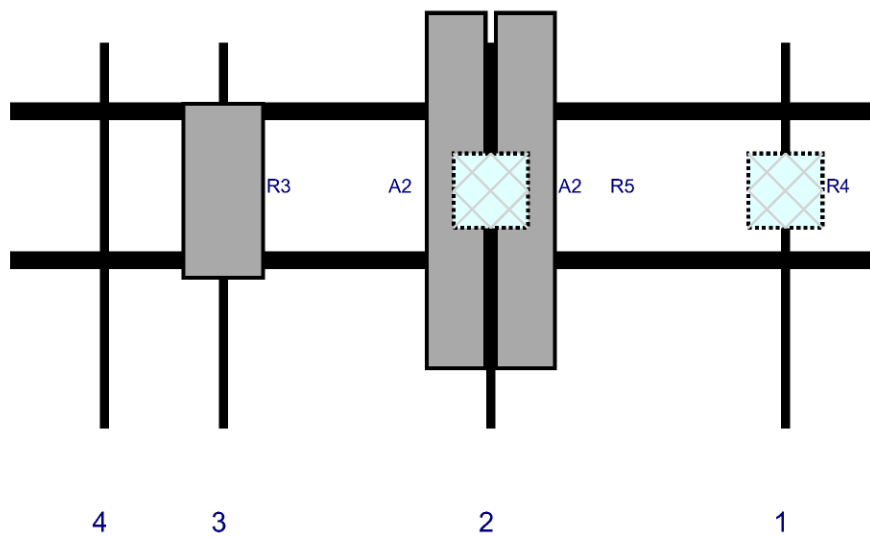


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	6' Lightning rod	72	0.6	156.5	1	a	Front	0.96	0	Retained	03/30/2021
R4	RF4439d-25A	15	15	156.5	1	a	Behind	30	0	Added	
A2	NHH-65B-R2B	72	11.9	97	2	a	Front	30	7	Added	
A2	NHH-65B-R2B	72	11.9	97	2	b	Front	30	-7	Added	
R5	RF4440d-13A	15	15	97	2	a	Behind	30	0	Added	
R3	MT6407-77A	35.1	16.1	43	3	a	Front	30	0	Added	
OVP	RVZDC-6627-PF-48	29.5	16.5			Member				Added	

Plan View

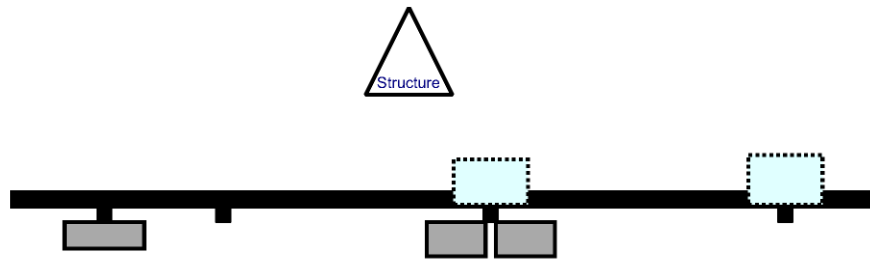


Front View - Looking at Structure

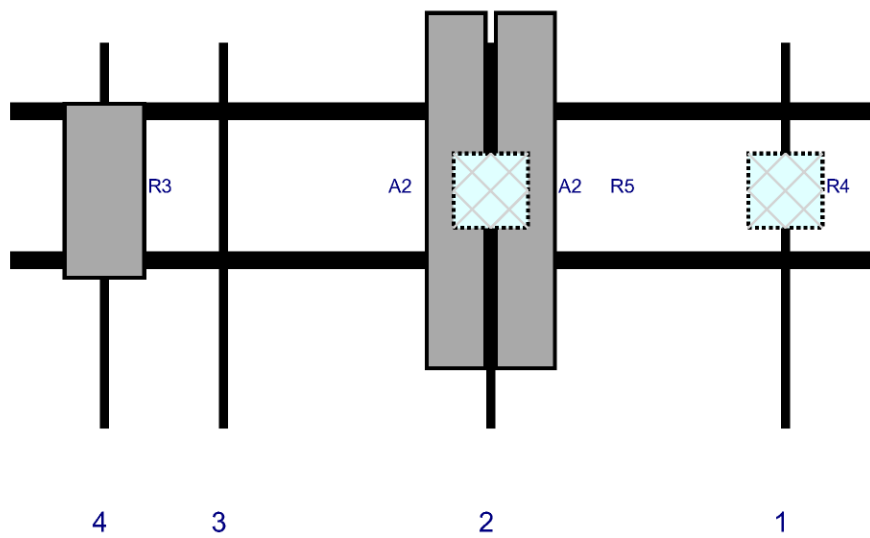


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
R4	RF4439d-25A	15	15	156.5	1	a	Behind	30	0	Added	
A2	NHH-65B-R2B	72	11.9	97	2	a	Front	30	7	Added	
A2	NHH-65B-R2B	72	11.9	97	2	b	Front	30	-7	Added	
R5	RF4440d-13A	15	15	97	2	a	Behind	30	0	Added	
R3	MT6407-77A	35.1	16.1	43	3	a	Front	30	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
R4	RF4439d-25A	15	15	156.5	1	a	Behind	30	0	Added	
A2	NHH-65B-R2B	72	11.9	97	2	a	Front	30	7	Added	
A2	NHH-65B-R2B	72	11.9	97	2	b	Front	30	-7	Added	
R5	RF4440d-13A	15	15	97	2	a	Behind	30	0	Added	
R3	MT6407-77A	35.1	16.1	19	4	a	Front	30	0	Added	







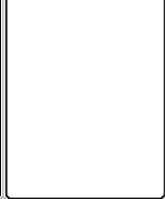


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NO.	AS SHOWN	DESCRIPTION	DATE	BY	DATE	DESCRIPTION	DATE	BY
1	ISSUED FOR CONSTRUCTION	CONSTRUCTION	01/11/2021	CPH	ETK			
2	ISSUED FOR CONSTRUCTION	CONSTRUCTION	01/11/2021	CPH	ETK			
3	ISSUED FOR CONSTRUCTION	CONSTRUCTION	01/11/2021	CPH	ETK			
4	ISSUED FOR CONSTRUCTION	CONSTRUCTION	01/11/2021	CPH	ETK			

THIS PLAN AND ALL ATTACHED DRAWINGS ARE PRELIMINARY  
 UNLESS THEY ARE ACTING UNDER THE DIRECTION  
 OF THE RESPONSIBLE LICENSED PROFESSIONAL  
 ENGINEER OR ARCHITECT.

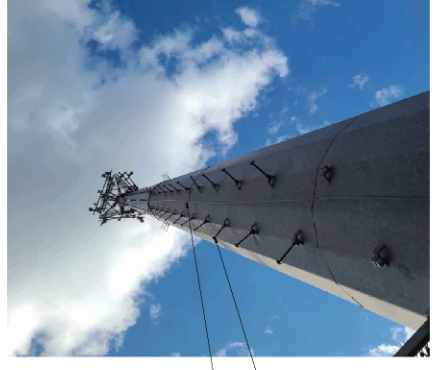
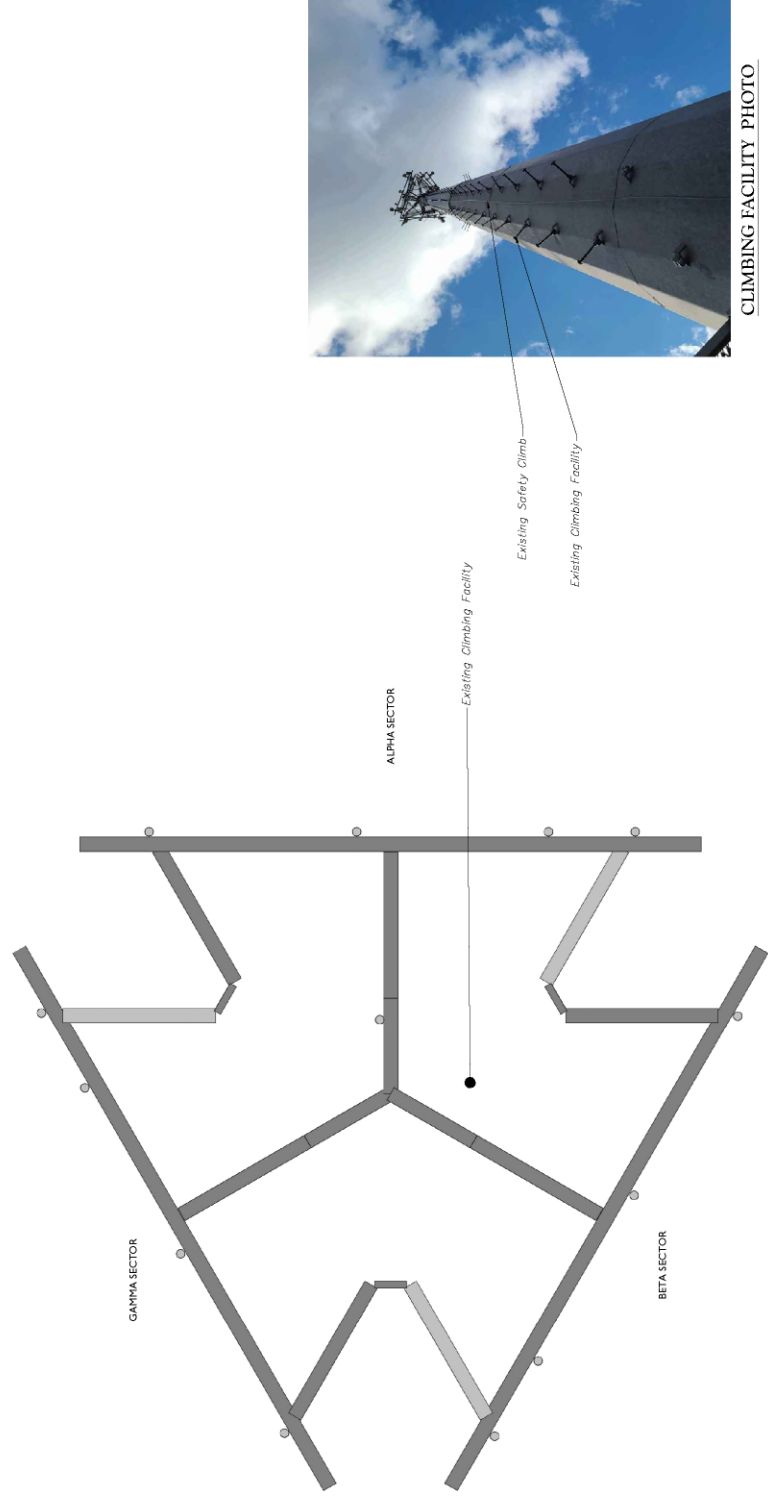
**SITE NAME:**  
 NORTH CANTON CT  
 468823  
 540 CHERRY BROOK ROAD  
 NORTH CANTON CT 06106  
 HARTFORD COUNTY

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**CLIMBING FACILITY DETAIL**

SCF-1



CLIMBING FACILITY PHOTO

**CLIMBING FACILITY LOCATION**

SCALE: N.T.S.

1

- STRUCTURAL NOTES:**
- PER THE MOUNT MAPPING COMPLETED BY ROAMING NETWORKS, INC. ON 3/30/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (149'-0") 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.



**MARBLE CONSULTING**  
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03/26/2021 17:59:35  
 -73.022311, 41.91458697222222  
 NORTH CANTON CT



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03/26/2021 17:59:35  
 -73.022311, 41.91458697222222  
 NORTH CANTON CT

NO.	DATE	DESCRIPTION	BY	STATUS
1	03/26/2021	CONSTRUCTION	CPH	EPA
2	03/26/2021	CONSTRUCTION	CPH	EPA
3	03/26/2021	CONSTRUCTION	CPH	EPA
4	03/26/2021	CONSTRUCTION	CPH	EPA
5	03/26/2021	CONSTRUCTION	CPH	EPA
6	03/26/2021	CONSTRUCTION	CPH	EPA
7	03/26/2021	CONSTRUCTION	CPH	EPA
8	03/26/2021	CONSTRUCTION	CPH	EPA
9	03/26/2021	CONSTRUCTION	CPH	EPA
10	03/26/2021	CONSTRUCTION	CPH	EPA

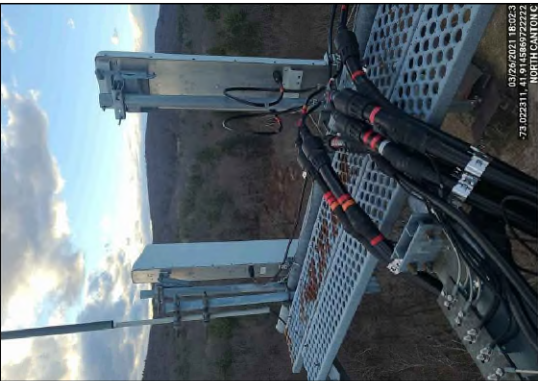
03/26/2021 17:59:35  
 -73.022311, 41.91458697222222  
 NORTH CANTON CT

**SITE NAME:**  
 NORTH CANTON CT  
 468823  
 540 CHERRY BROOK ROAD  
 NORTH CANTON, CT 06242  
 HARTFORD COUNTY

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**MOUNT PHOTOS**

SS-2



MOUNT PHOTO 2



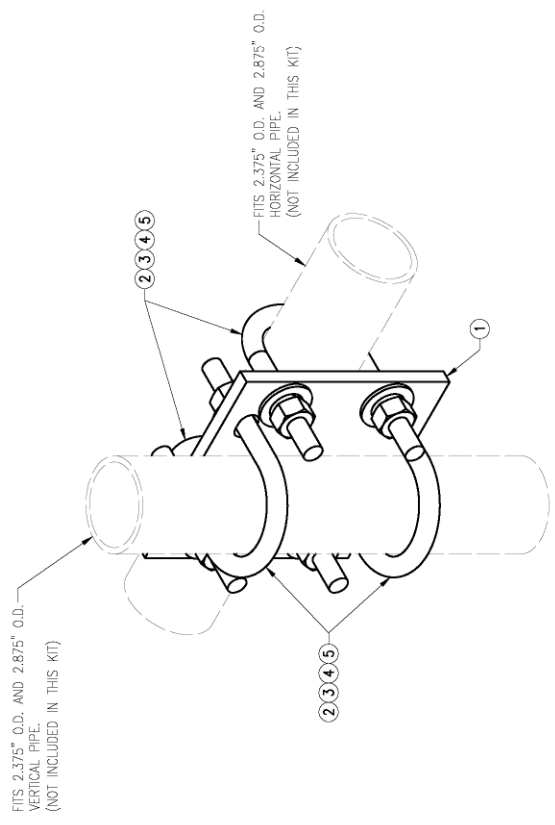
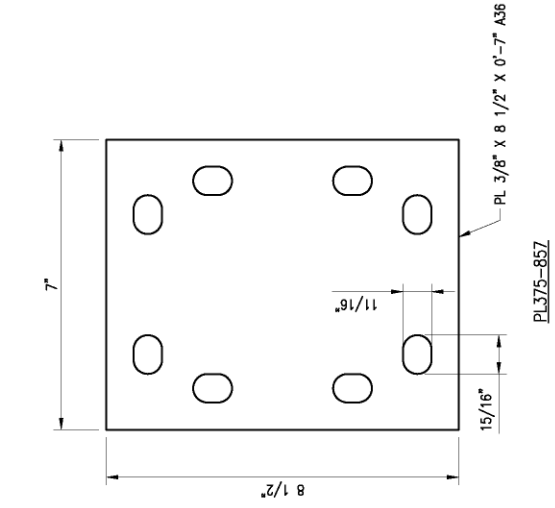
MOUNT PHOTO 4



MOUNT PHOTO 1



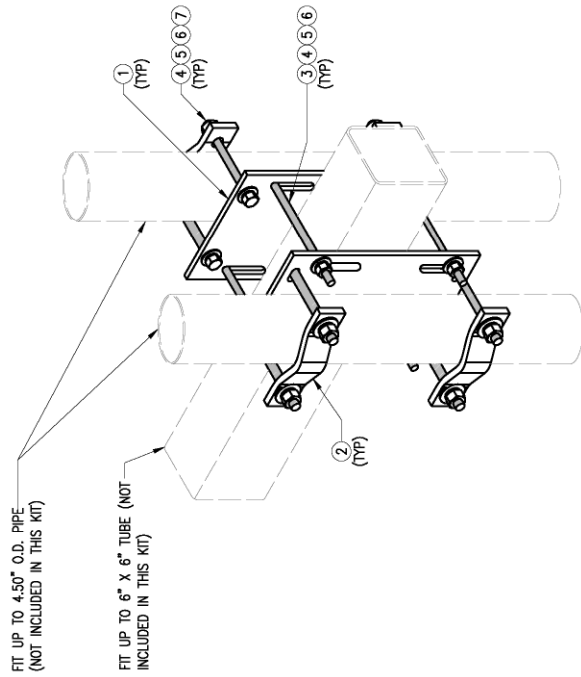
MOUNT PHOTO 3



**VZWSMART—MSK1 (CROSSOVER PLATE)**

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL375-85Z	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSD2-625-300-500	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	NUJ-625	5/8" HDG HEX NUT	---	1
<b>GALVANIZED</b>				<b>WT</b>	<b>14</b>

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

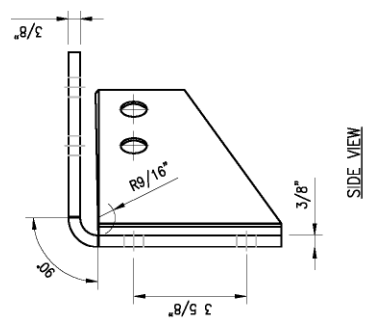
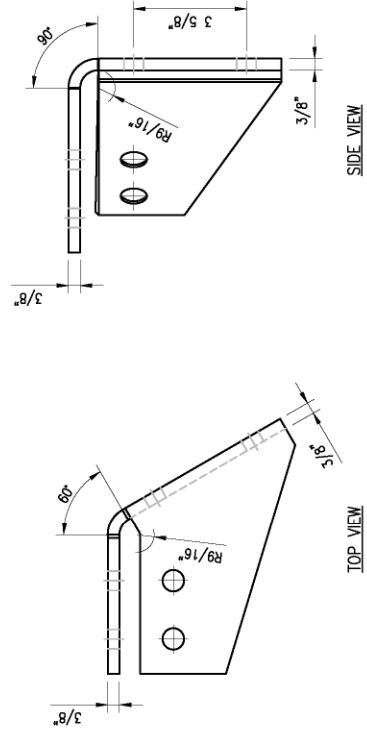


ISOMETRIC VIEW  
 BACK TO BACK CROSSOVER

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7
2	4	VOP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
4	16	NUT-625	5/8" HDG HEX NUT	---	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	8	---	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	---	1
				<b>GALVANIZED</b>	<b>WT</b>
					<b>34</b>

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





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

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)						
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9	
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9	
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" I.L. A36 (OR EQUIV.)	R00-1	5	
4	8	---	BOLT 5/8" X 2" A325	---	3	
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1	
6	16	LW-625	5/8" HDG LOCK WASHER	---	0	
7	16	NUT-625	5/8" HDG HEX NUT	---	2	
					<b>GALVANIZED WT</b>	<b>30</b>





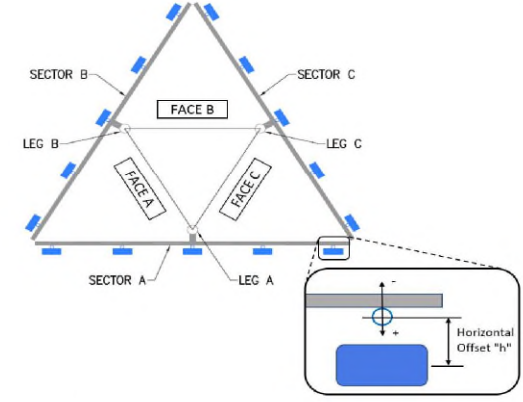
### Antenna Mount Mapping Form (PATENT PENDING)

FCC #  
1208303

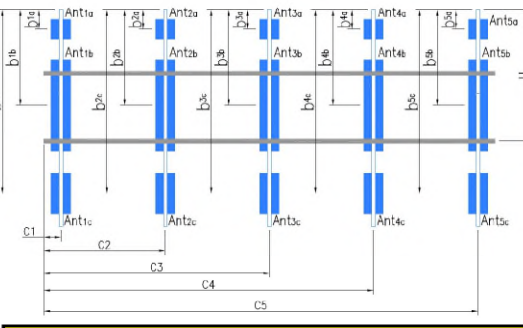
<b>Tower Owner:</b>	SBA	<b>Mapping Date:</b>	3.30.2021.
<b>Site Name:</b>	NORTH CANTON CT	<b>Tower Type:</b>	Monopole
<b>Site Number or ID:</b>	468823	<b>Tower Height (Ft.):</b>	N/A
<b>Mapping Contractor:</b>	Roaming Networks Inc.	<b>Mount Elevation (Ft.):</b>	152

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Mount Pipe Configuration and Geometries [Unit = Inches]								
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "U"	Horizontal Offset "C1, C2, C3, etc."	
A1	PIPE 2.375"Ø X 0.11" X 72" LONG	44.00	19.00	C1	PIPE 2.375"Ø X 0.11" X 72" LONG	44.00	19.00	
A2	PIPE 2.375"Ø X 0.11" X 78" LONG	44.00	78.00	C2	PIPE 2.375"Ø X 0.11" X 78" LONG	44.00	78.00	
A3	PIPE 2.375"Ø X 0.11" X 78" LONG	44.00	132.00	C3	PIPE 2.375"Ø X 0.11" X 78" LONG	44.00	132.00	
A4	PIPE 2.375"Ø X 0.11" X 64" LONG	36.00	156.50	C4	PIPE 2.375"Ø X 0.11" X 64" LONG	36.00	156.50	
A5				C5				
A6				C6				
B1	PIPE 2.375"Ø X 0.11" X 72" LONG	44.00	19.00	D1				
B2	PIPE 2.375"Ø X 0.11" X 78" LONG	44.00	78.00	D2				
B3	PIPE 2.375"Ø X 0.11" X 78" LONG	44.00	132.00	D3				
B4	PIPE 2.375"Ø X 0.11" X 64" LONG	36.00	156.50	D4				
B5				D5				
B6				D6				
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details. :							0.00	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.) :								
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.):				25



Enter antenna model. If not labeled, enter "Unknown".		Mounting Locations [Units are inches and degrees]								Photos of antennas	
Ants. Items	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)			Antenna Azimuth (Degrees)	Photo Numbers
							b <sub>1a</sub>	b <sub>2a</sub>	b <sub>3a</sub>		
<b>Sector A</b>											
Ant <sub>1a</sub>	Antenna	6.75	15.50	73.75		153	32.00	14.00	1.00		10,12
Ant <sub>1b</sub>											
Ant <sub>1c</sub>											
Ant <sub>2a</sub>	Antenna	11.25	3.75	72.00		153	32.00	9.00	1.00		13,14
Ant <sub>2b</sub>											
Ant <sub>2c</sub>											
Ant <sub>3a</sub>	Antenna	5.75	3.00	68.00		153.25	29.00	7.50	1.00		4,5
Ant <sub>3b</sub>											
Ant <sub>3c</sub>											
Ant <sub>4a</sub>	Antenna	5.75	13.50	69.00		153	24.00	13.00	1.00		7,8
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											



**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>	Antenna	6.75	15.50	73.75		153	32.00	14.00	117.00	185		
Sector B:	120.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>												
Sector C:	240.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>												
Sector D:		Deg	Leg D:		Deg	Ant <sub>2a</sub>	Antenna	12.00	7.00	75.00		155.667			117.00	185		
<b>Climbing Facility Information</b>							Ant <sub>2b</sub>											
Location:		Deg	Sector B				Ant <sub>2c</sub>											
Climbing Facility	Corrosion Type:		Good condition.				Ant <sub>3a</sub>	Antenna	12.00	7.00	75.00		155.667			117.00	185	
	Access:		Climbing path was unobstructed.				Ant <sub>3b</sub>											
	Condition:		Good condition.				Ant <sub>3c</sub>											
							Ant <sub>4a</sub>	Antenna	5.75	13.50	69.00		153	24.00	13.00	117.00	185	
							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											
<b>Sector C</b>																		
							Ant <sub>1a</sub>	Antenna	6.75	15.50	73.75		153	32.00	14.00	200.00	196	
							Ant <sub>1b</sub>											
							Ant <sub>1c</sub>											
							Ant <sub>2a</sub>	Antenna	11.25	3.75	72.00		153	32.00	9.00	200.00	196	
							Ant <sub>2b</sub>											
							Ant <sub>2c</sub>											
							Ant <sub>3a</sub>	Antenna	5.75	3.00	68.00		153.25	29.00	7.50	200.00	197	
							Ant <sub>3b</sub>											
							Ant <sub>3c</sub>											
							Ant <sub>4a</sub>	Antenna	5.75	13.50	69.00		153	24.00	13.00	200.00	197	
							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											
<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)



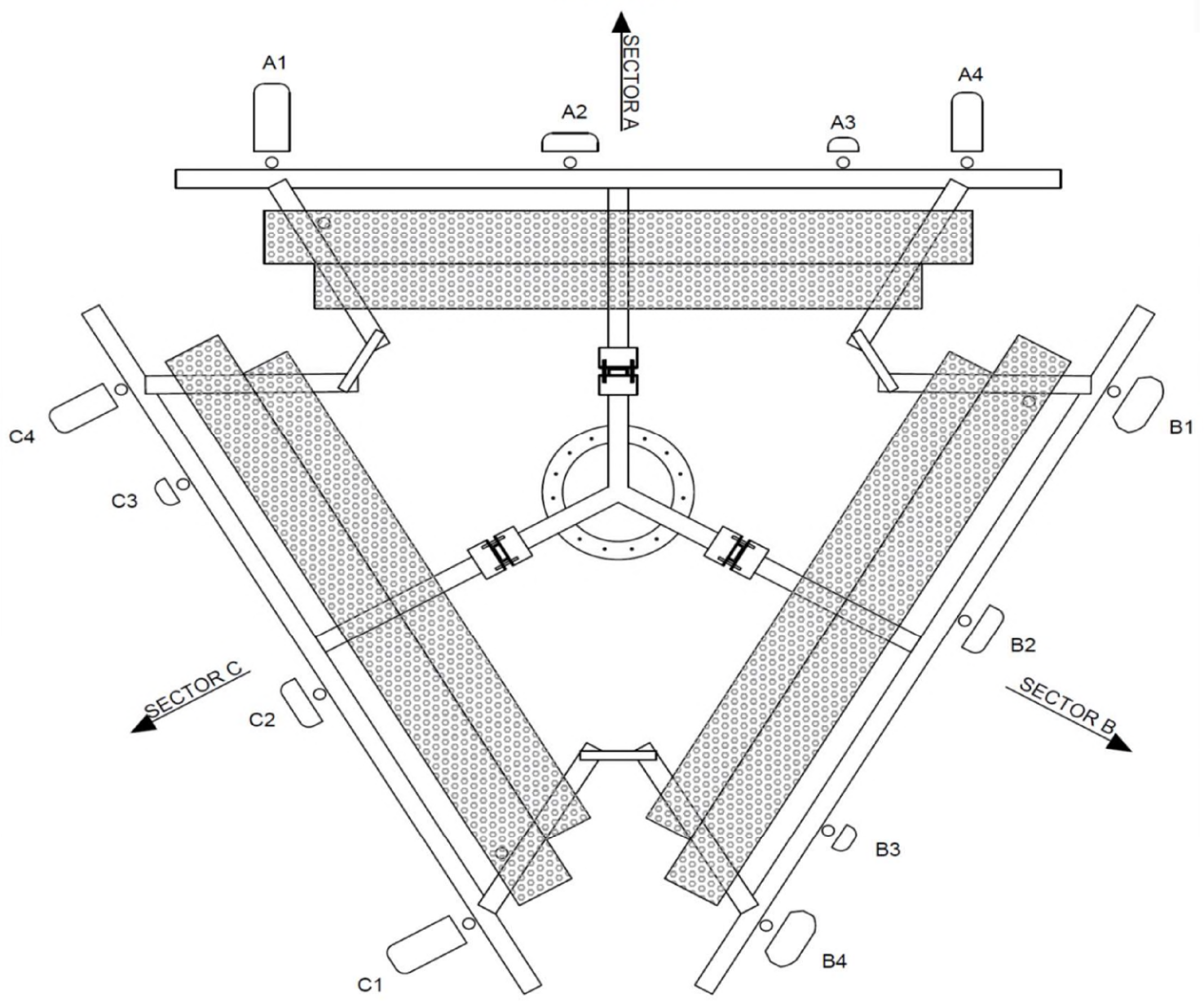
<b>Tower Owner:</b>	SBA	<b>Mapping Date:</b>	3.30.2021.
<b>Site Name:</b>	NORTH CANTON CT	<b>Tower Type:</b>	Monopole
<b>Site Number or ID:</b>	468823	<b>Tower Height (Ft.):</b>	N/A
<b>Mapping Contractor:</b>	Roaming Networks Inc.	<b>Mount Elevation (Ft.):</b>	152

FCC #  
1208303

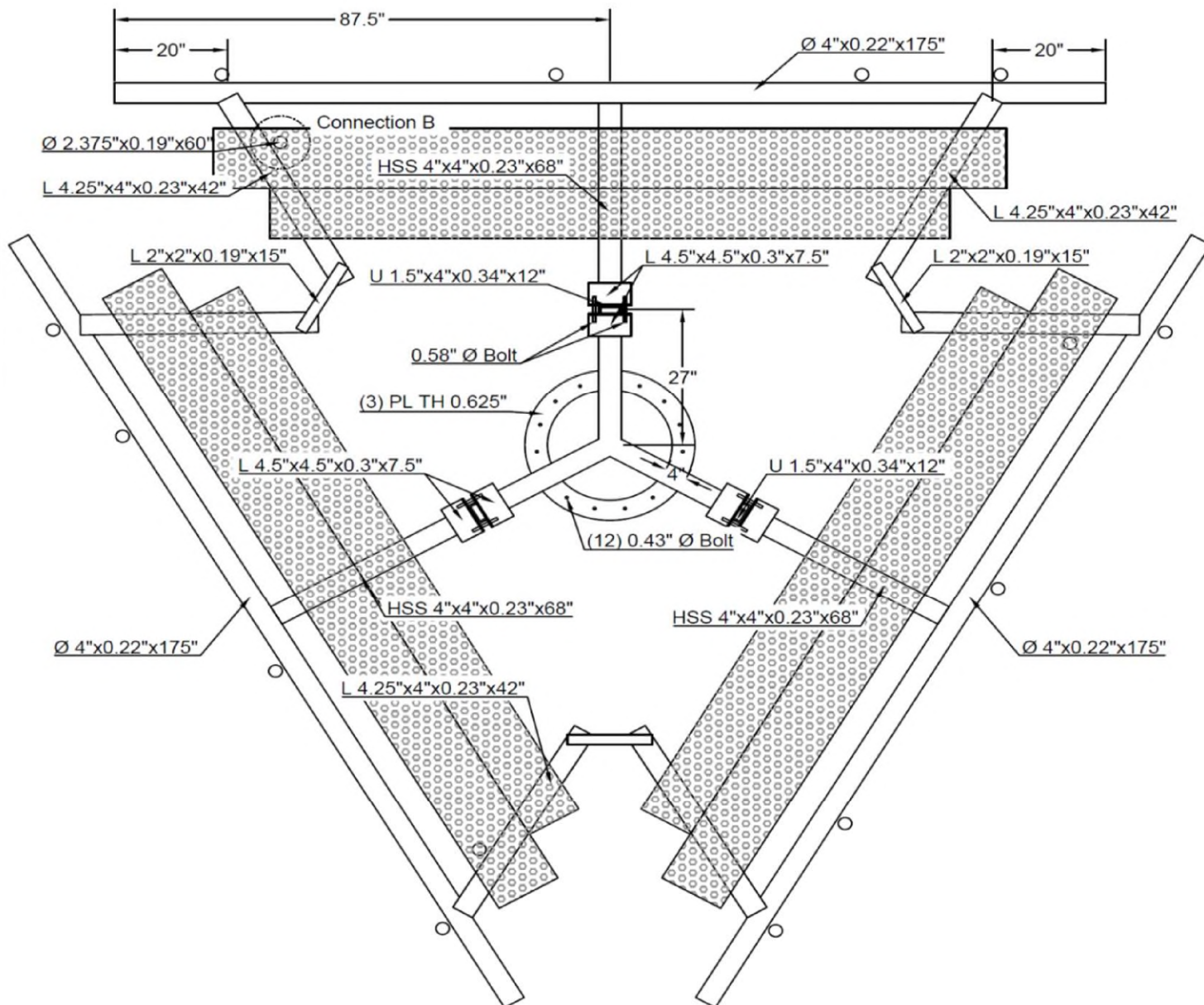
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is 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

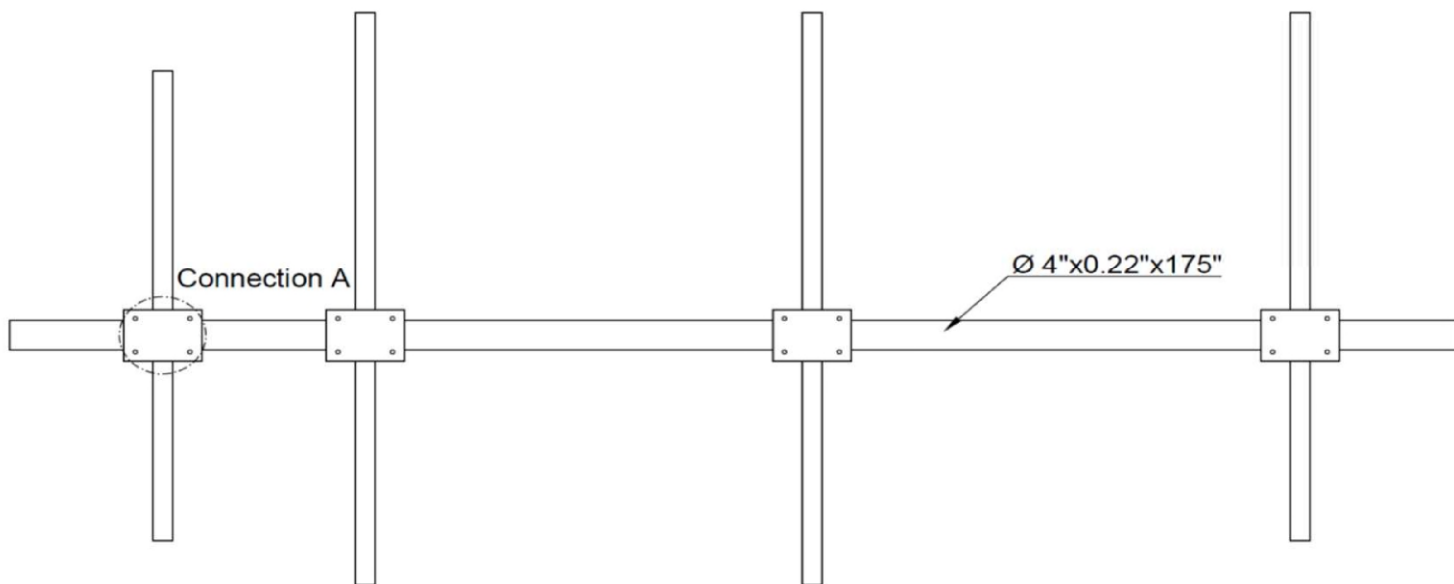
#### Antenna Plan View



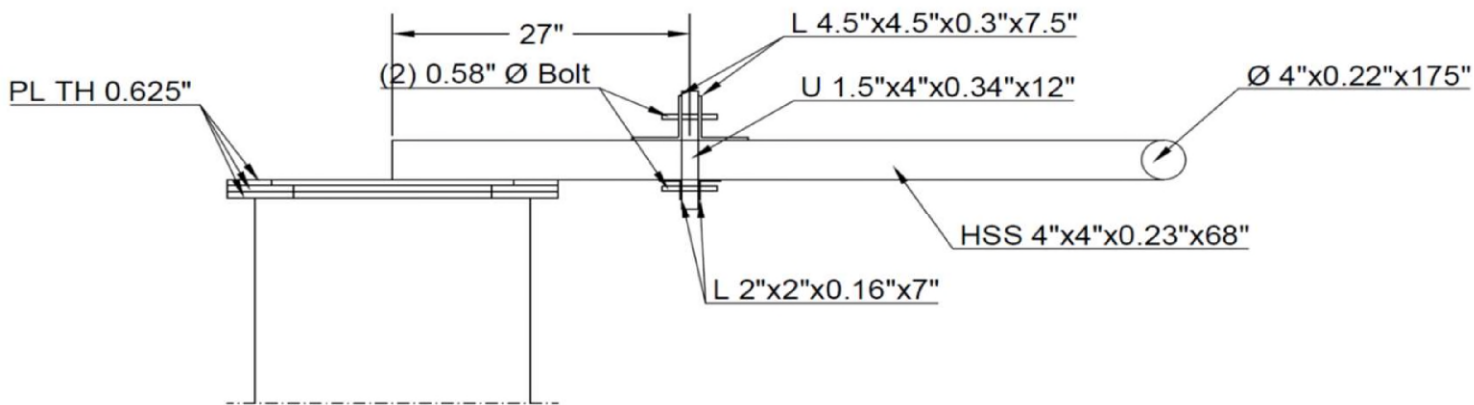
### Top View of the Platform



### Front View

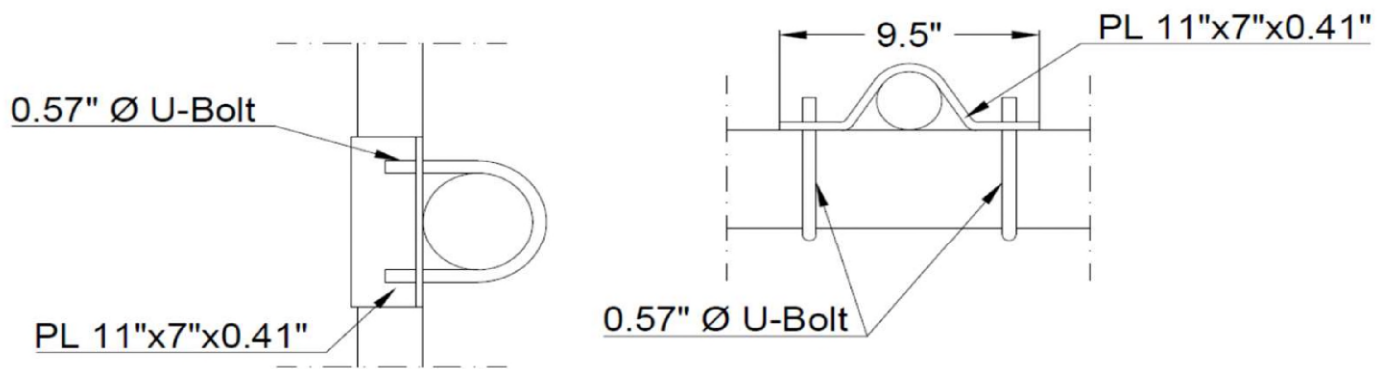


### Side View

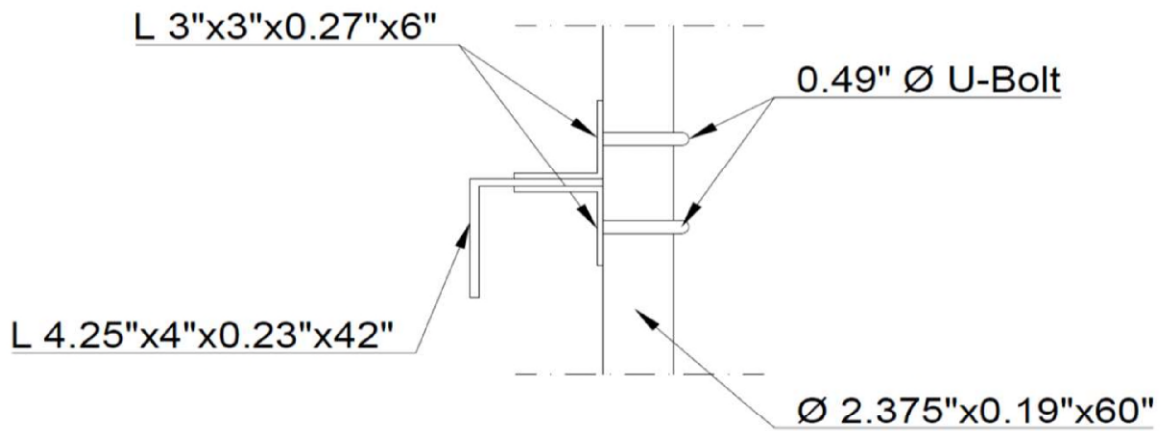


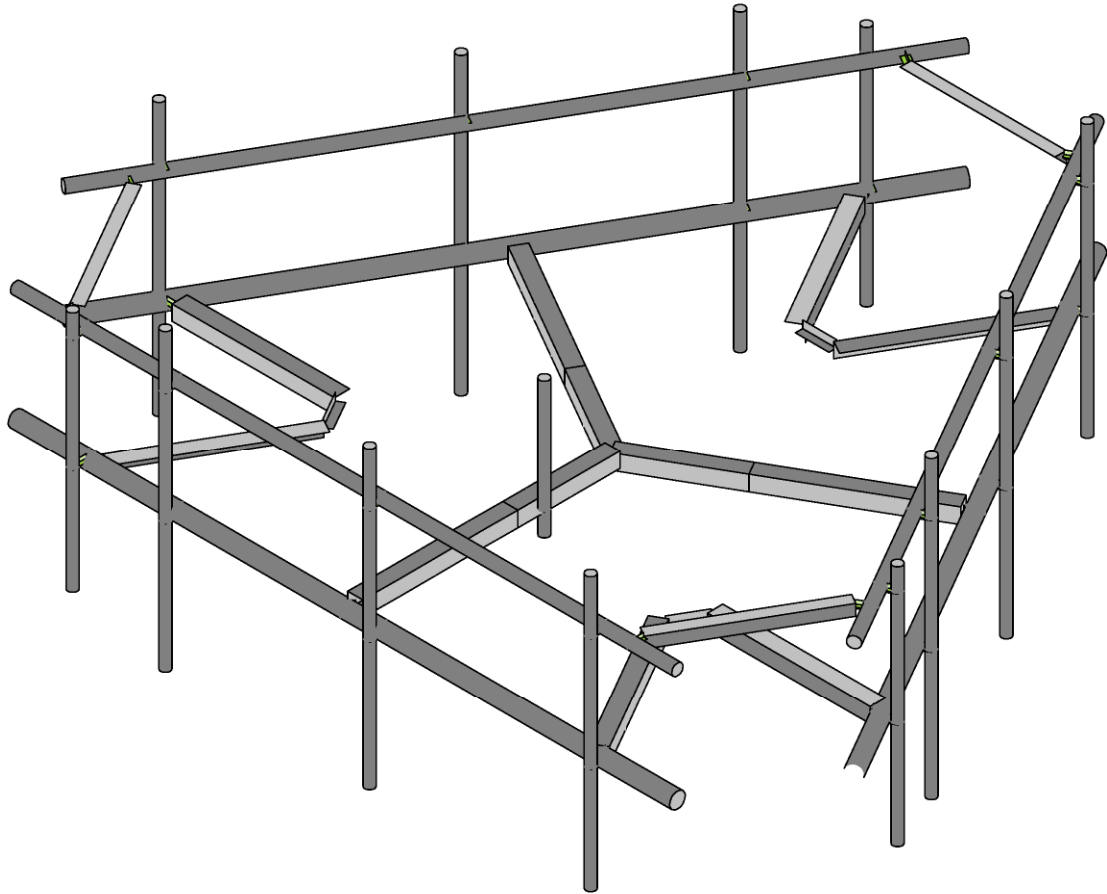
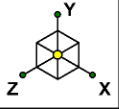


## Connection A



## Connection B





Envelope Only Solution

Maser Consulting

NL

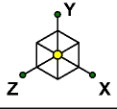
Project No. 10112268

468823-VZW\_MT\_LO\_H

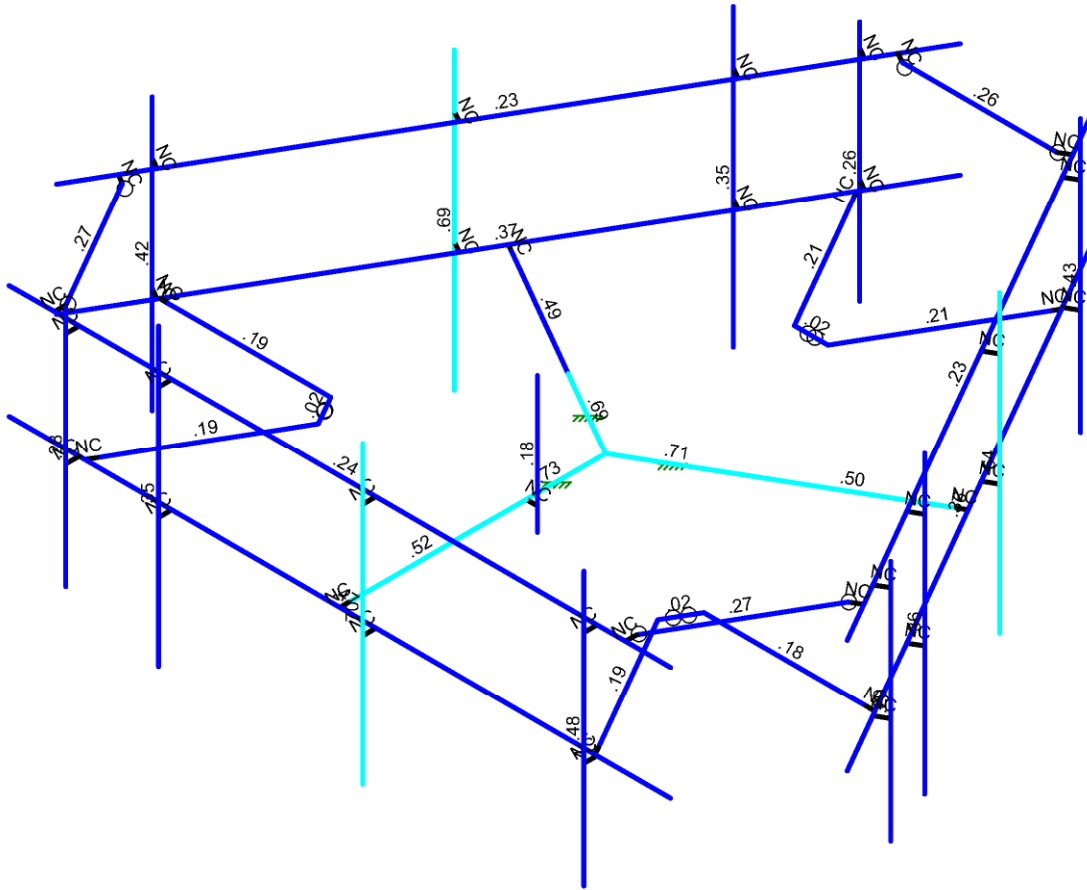
SK - 1

Mar 1, 2022 at 10:25 AM

Mod\_468823-VZW\_MT\_LO\_H.r3d

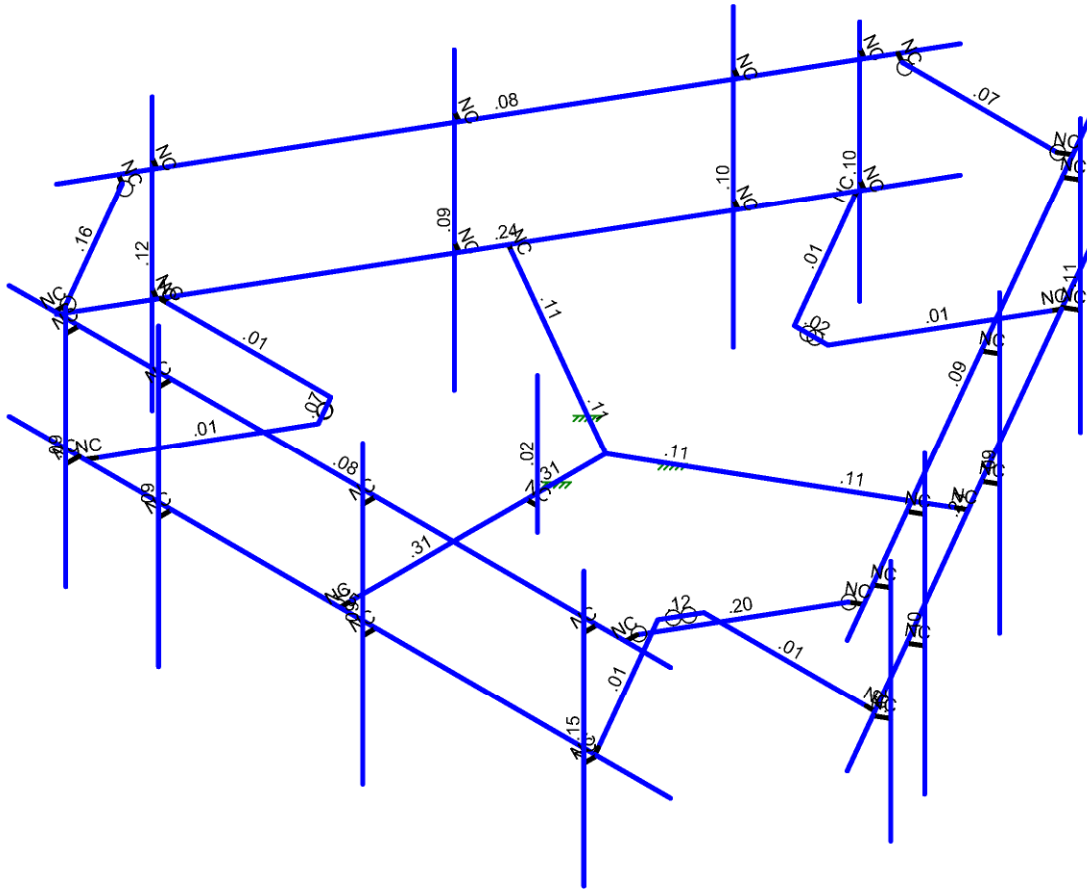
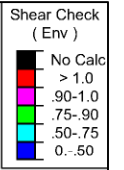
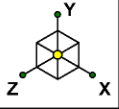


Code Check ( Env )	
Black	No Calc
Red	> 1.0
Pink	.90-1.0
Green	.75-.90
Cyan	.50-.75
Blue	0-.50



Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

Maser Consulting	468823-VZW_MT_LO_H	SK - 2
NL		Mar 1, 2022 at 10:25 AM
Project No. 10112268		Mod_468823-VZW_MT_LO_H.r3d



Member Shear Checks Displayed (Enveloped)  
Envelope Only Solution

Maser Consulting	468823-VZW_MT_LO_H	SK - 3
NL		Mar 1, 2022 at 10:25 AM
Project No. 10112268		Mod_468823-VZW_MT_LO_H.r3d



### Basic Load Cases

	BLC Description	Category	X Gravi...	Y Gravi...	Z Gravity	Joint	Point	Distrib...	Area(M...	Surfac...
1	Antenna D	None					78			
2	Antenna Di	None					78			
3	Antenna Wo (0 Deg)	None					78			
4	Antenna Wo (30 Deg)	None					78			
5	Antenna Wo (60 Deg)	None					78			
6	Antenna Wo (90 Deg)	None					78			
7	Antenna Wo (120 Deg)	None					78			
8	Antenna Wo (150 Deg)	None					78			
9	Antenna Wo (180 Deg)	None					78			
10	Antenna Wo (210 Deg)	None					78			
11	Antenna Wo (240 Deg)	None					78			
12	Antenna Wo (270 Deg)	None					78			
13	Antenna Wo (300 Deg)	None					78			
14	Antenna Wo (330 Deg)	None					78			
15	Antenna Wi (0 Deg)	None					78			
16	Antenna Wi (30 Deg)	None					78			
17	Antenna Wi (60 Deg)	None					78			
18	Antenna Wi (90 Deg)	None					78			
19	Antenna Wi (120 Deg)	None					78			
20	Antenna Wi (150 Deg)	None					78			
21	Antenna Wi (180 Deg)	None					78			
22	Antenna Wi (210 Deg)	None					78			
23	Antenna Wi (240 Deg)	None					78			
24	Antenna Wi (270 Deg)	None					78			
25	Antenna Wi (300 Deg)	None					78			
26	Antenna Wi (330 Deg)	None					78			
27	Antenna Wm (0 Deg)	None					78			
28	Antenna Wm (30 Deg)	None					78			
29	Antenna Wm (60 Deg)	None					78			
30	Antenna Wm (90 Deg)	None					78			
31	Antenna Wm (120 Deg)	None					78			
32	Antenna Wm (150 Deg)	None					78			
33	Antenna Wm (180 Deg)	None					78			
34	Antenna Wm (210 Deg)	None					78			
35	Antenna Wm (240 Deg)	None					78			
36	Antenna Wm (270 Deg)	None					78			
37	Antenna Wm (300 Deg)	None					78			
38	Antenna Wm (330 Deg)	None					78			
39	Structure D	None		-1					3	
40	Structure Di	None						37	3	
41	Structure Wo (0 Deg)	None						74		
42	Structure Wo (30 Deg)	None						74		
43	Structure Wo (60 Deg)	None						74		
44	Structure Wo (90 Deg)	None						74		
45	Structure Wo (120 Deg)	None						74		
46	Structure Wo (150 Deg)	None						74		
47	Structure Wo (180 Deg)	None						74		
48	Structure Wo (210 Deg)	None						74		
49	Structure Wo (240 Deg)	None						74		
50	Structure Wo (270 Deg)	None						74		
51	Structure Wo (300 Deg)	None						74		
52	Structure Wo (330 Deg)	None						74		
53	Structure Wi (0 Deg)	None						74		
54	Structure Wi (30 Deg)	None						74		
55	Structure Wi (60 Deg)	None						74		
56	Structure Wi (90 Deg)	None						74		



**Basic Load Cases (Continued)**

BLC Description	Category	X Gravi...	Y Gravi..	Z Gravity	Joint	Point	Distrib...	Area(M...	Surfac...
57 Structure Wi (120 Deg)	None						74		
58 Structure Wi (150 Deg)	None						74		
59 Structure Wi (180 Deg)	None						74		
60 Structure Wi (210 Deg)	None						74		
61 Structure Wi (240 Deg)	None						74		
62 Structure Wi (270 Deg)	None						74		
63 Structure Wi (300 Deg)	None						74		
64 Structure Wi (330 Deg)	None						74		
65 Structure Wm (0 Deg)	None						74		
66 Structure Wm (30 Deg)	None						74		
67 Structure Wm (60 Deg)	None						74		
68 Structure Wm (90 Deg)	None						74		
69 Structure Wm (120 Deg)	None						74		
70 Structure Wm (150 Deg)	None						74		
71 Structure Wm (180 Deg)	None						74		
72 Structure Wm (210 Deg)	None						74		
73 Structure Wm (240 Deg)	None						74		
74 Structure Wm (270 Deg)	None						74		
75 Structure Wm (300 Deg)	None						74		
76 Structure Wm (330 Deg)	None						74		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			
81 Antenna Ev	None					78			
82 Antenna Eh (0 Deg)	None					52			
83 Antenna Eh (90 Deg)	None					52			
84 Structure Ev	ELY							3	
85 Structure Eh (0 Deg)	ELZ			-03				3	
86 Structure Eh (90 Deg)	ELX	.03						3	
87 BLC 39 Transient Area Loads	None						21		
88 BLC 40 Transient Area Loads	None						21		
89 BLC 84 Transient Area Loads	None								
90 BLC 85 Transient Area Loads	None						21		
91 BLC 86 Transient Area Loads	None						21		

**Load Combinations**

Description	S...	PDelta	S...	B...	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1										
2 1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1										
3 1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1										
4 1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1										
5 1.2D+1.0Wo (120 D...	Yes	Y		1	1.2	39	1.2	7	1	45	1										
6 1.2D+1.0Wo (150 D...	Yes	Y		1	1.2	39	1.2	8	1	46	1										
7 1.2D+1.0Wo (180 D...	Yes	Y		1	1.2	39	1.2	9	1	47	1										
8 1.2D+1.0Wo (210 D...	Yes	Y		1	1.2	39	1.2	10	1	48	1										
9 1.2D+1.0Wo (240 D...	Yes	Y		1	1.2	39	1.2	11	1	49	1										
10 1.2D+1.0Wo (270 D...	Yes	Y		1	1.2	39	1.2	12	1	50	1										
11 1.2D+1.0Wo (300 D...	Yes	Y		1	1.2	39	1.2	13	1	51	1										
12 1.2D+1.0Wo (330 D...	Yes	Y		1	1.2	39	1.2	14	1	52	1										
13 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1						
14 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1						
15 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1						
16 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1						
17 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1						





### Load Combinations (Continued)

Description	S...	PDelta	S...	B...	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...			
75	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-1	E...	-1	82	.866	83	-.5	E...	.866	E...	-.5																			

### Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
1	N1	-1.041667	0	0	0	
2	N2	13.541667	0	0	0	
3	N3	6.25	0	0	0	
4	N4	6.25	0	-0.1875	0	
5	N5	6.25	0	-5.85417	0	
6	N9	.625	0	0	0	
7	N10	0.71875	0	-0.16238	0	
8	N11	2.51025	0	-3.265349	0	
9	N12	11.875	0	0	0	
10	N13	11.78125	0	-0.16238	0	
11	N14	9.98975	0	-3.265349	0	
12	N25	6.25	0	-2.81217	0	
13	N26	6.25	0	-0.97917	0	
14	N31	1.190324	0	-0.97917	0	
15	N32	2.248607	0	-2.81217	0	
16	N33	11.309676	0	-0.97917	0	
17	N34	10.251393	0	-2.81217	0	
18	N31A	.5	0	0	0	
19	N32A	2.541667	0	0	0	
20	N33A	7.041667	0	0	0	
21	N34A	11.917	0	0	0	
22	N35	.5	0	0.29167	0	
23	N36	2.541667	0	0.29167	0	
24	N37	7.041667	0	0.29167	0	
25	N38	11.917	0	0.29167	0	
26	N39	.5	3	0.29167	0	
27	N40	2.541667	3.666667	0.29167	0	
28	N41	7.041667	3.666667	0.29167	0	
29	N42	11.917	3.666667	0.29167	0	
30	N43	.5	-2.333333	0.29167	0	
31	N44	2.541667	-2.833333	0.29167	0	
32	N45	7.041667	-2.833333	0.29167	0	
33	N46	11.917	-2.333333	0.29167	0	
34	N34B	6.25	0	-3.60417	0	
35	N35A	14.96569	0	-2.466481	0	
36	N36A	7.674024	0	-15.096019	0	
37	N37A	11.319857	0	-8.78125	0	
38	N38A	11.157477	0	-8.6875	0	
39	N40A	14.132357	0	-3.909857	0	
40	N41A	13.944857	0	-3.909857	0	
41	N42A	10.361857	0	-3.909857	0	
42	N43A	8.507357	0	-13.652643	0	
43	N44A	8.413607	0	-13.490263	0	
44	N45A	6.622107	0	-10.387294	0	
45	N46A	8.884446	0	-7.375165	0	
46	N47	10.471871	0	-8.291665	0	
47	N48	13.001709	0	-3.909857	0	
48	N49	10.885143	0	-3.909857	0	
49	N50	7.942033	0	-12.673473	0	
50	N51	6.88375	0	-10.840473	0	
51	N52	14.194857	0	-3.801604	0	





**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
52	N53	13.174024	0	-5.569739	0	
53	N54	10.924024	0	-9.466853	0	
54	N55	8.486357	0	-13.689016	0	
55	N56	14.447451	0	-3.947439	0	
56	N57	13.426617	0	-5.715574	0	
57	N58	11.176617	0	-9.612688	0	
58	N59	8.738951	0	-13.834851	0	
59	N60	14.447451	3	-3.947439	0	
60	N61	13.426617	3.666667	-5.715574	0	
61	N62	11.176617	3.666667	-9.612688	0	
62	N63	8.738951	3.666667	-13.834851	0	
63	N64	14.447451	-2.333333	-3.947439	0	
64	N65	13.426617	-2.833333	-5.715574	0	
65	N66	11.176617	-2.833333	-9.612688	0	
66	N67	8.738951	-2.333333	-13.834851	0	
67	N68	8.198554	0	-6.979165	0	
68	N69	4.825976	0	-15.096019	0	
69	N70	-2.46569	0	-2.466481	0	
70	N71	1.180143	0	-8.78125	0	
71	N72	1.342523	0	-8.6875	0	
72	N74	3.992643	0	-13.652643	0	
73	N75	4.086393	0	-13.490263	0	
74	N76	5.877893	0	-10.387294	0	
75	N77	-1.632357	0	-3.909857	0	
76	N78	-1.444857	0	-3.909857	0	
77	N79	2.138143	0	-3.909857	0	
78	N80	3.615554	0	-7.375165	0	
79	N81	2.028129	0	-8.291665	0	
80	N82	4.557967	0	-12.673473	0	
81	N83	5.61625	0	-10.840473	0	
82	N84	-0.501709	0	-3.909857	0	
83	N85	1.614857	0	-3.909857	0	
84	N86	4.055143	0	-13.760896	0	
85	N87	3.03431	0	-11.992761	0	
86	N88	0.78431	0	-8.095647	0	
87	N89	-1.653357	0	-3.873484	0	
88	N90	3.802549	0	-13.906731	0	
89	N91	2.781716	0	-12.138596	0	
90	N92	0.531716	0	-8.241482	0	
91	N93	-1.905951	0	-4.019319	0	
92	N94	3.802549	3	-13.906731	0	
93	N95	2.781716	3.666667	-12.138596	0	
94	N96	0.531716	3.666667	-8.241482	0	
95	N97	-1.905951	3.666667	-4.019319	0	
96	N98	3.802549	-2.333333	-13.906731	0	
97	N99	2.781716	-2.833333	-12.138596	0	
98	N100	0.531716	-2.833333	-8.241482	0	
99	N101	-1.905951	-2.333333	-4.019319	0	
100	N102	4.301446	0	-6.979165	0	
101	N101A	6.25	0	-4.770837	0	
102	N103	7.188191	0	-6.395832	0	
103	N105	5.311809	0	-6.395832	0	
104	N104	6.25	0	-4.10417	0	
105	N105A	6.5	0	-4.10417	0	
106	N106	6.5	-5	-4.10417	0	
107	N107	6.5	2.5	-4.10417	0	
108	N108	-1.04167	2.5	-0.000005	0	



**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diaphragm
109	N109	13.541664	2.5	-0.000005	0	
110	N110	0.499997	2.5	-0.000005	0	
111	N111	2.541664	2.5	-0.000005	0	
112	N112	7.041664	2.5	-0.000005	0	
113	N113	11.916997	2.5	-0.000005	0	
114	N114	.5	2.5	0.29167	0	
115	N115	2.541667	2.5	0.29167	0	
116	N116	7.041667	2.5	0.29167	0	
117	N117	11.917	2.5	0.29167	0	
118	N118	-0.04167	2.5	-0.000005	0	
119	N119	12.541664	2.5	-0.000005	0	
120	N120	-0.04167	2.5	-0.250005	0	
121	N121	12.541664	2.5	-0.250005	0	
122	N123	14.96569	2.5	-2.466481	0	
123	N124	7.674024	2.5	-15.096019	0	
124	N125	14.194857	2.5	-3.801604	0	
125	N126	13.174024	2.5	-5.569739	0	
126	N127	10.924024	2.5	-9.466853	0	
127	N128	8.486357	2.5	-13.689016	0	
128	N129	14.447451	2.5	-3.947439	0	
129	N130	13.426617	2.5	-5.715574	0	
130	N131	11.176617	2.5	-9.612688	0	
131	N132	8.738951	2.5	-13.834851	0	
132	N133	14.46569	2.5	-3.332507	0	
133	N134	8.174024	2.5	-14.229993	0	
134	N135	14.249184	2.5	-3.207507	0	
135	N136	7.957517	2.5	-14.104993	0	
136	N138	4.825979	2.5	-15.096024	0	
137	N139	-2.465687	2.5	-2.466486	0	
138	N140	4.055146	2.5	-13.760901	0	
139	N141	3.034313	2.5	-11.992766	0	
140	N142	0.784313	2.5	-8.095652	0	
141	N143	-1.653354	2.5	-3.873489	0	
142	N144	3.802549	2.5	-13.906731	0	
143	N145	2.781716	2.5	-12.138596	0	
144	N146	0.531716	2.5	-8.241482	0	
145	N147	-1.905951	2.5	-4.019319	0	
146	N148	4.325979	2.5	-14.229998	0	
147	N149	-1.965687	2.5	-3.332512	0	
148	N150	4.542486	2.5	-14.104998	0	
149	N151	-1.749181	2.5	-3.207512	0	
150	N153	6.25	0	-1.770837	0	
151	N155	9.786123	0	-7.895582	0	
152	N157	2.713877	0	-7.895582	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Mount Pipe	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Mod Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Collar Arm	HSS4X4X4	Beam	SquareTube	A500 Gr. B ...	Typical	3.37	7.8	7.8	12.8
4	Mast Pipe	PIPE 4.0	Beam	Pipe	A53 Gr. B	Typical	2.96	6.82	6.82	13.6
5	Standoff Arm	HSS4X4X4	Beam	SquareTube	A500 Gr. B ...	Typical	3.37	7.8	7.8	12.8
6	Grating Angle	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical	1.93	3	3	.044
7	MOD Support Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
8	Connection Angle	L2x2x2	Beam	Single Angle	A36 Gr.36	Typical	.491	.189	.189	.003



### Hot Rolled Steel Section Sets (Continued)

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
9	Kicker	LL3x3x3x6	Beam	Double Angle (3/8 ...	A36 Gr.36	Typical	2.18	4.97	1.9	.027
10	Face Horizontal	PIPE_3.5	Beam	Pipe	A53 Gr. B	Typical	2.5	4.52	4.52	9.04
11	Rear Plate	PL1/2x6	Beam	BAR	A36 Gr.36	Typical	3	.063	9	.237

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt	
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A53 Gr. B	29000	11154	.3	.65	.49	35	1.5	60	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
5	A500 Gr. B 42	29000	11154	.3	.65	.49	42	1.4	58	1.3
6	A500 Gr. B 46	29000	11154	.3	.65	.49	46	1.4	58	1.3

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
1	FACE	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N3	N4			RIGID	None	None	RIGID	Typical
3	M3	N34B	N5			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
4	M6	N9	N10			RIGID	None	None	RIGID	Typical
5	M7	N10	N11		90	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
6	M8	N12	N13			RIGID	None	None	RIGID	Typical
7	M9	N13	N14		180	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
8	M18	N31A	N35			RIGID	None	None	RIGID	Typical
9	M19	N32A	N36			RIGID	None	None	RIGID	Typical
10	LIVE1	N33A	N37			RIGID	None	None	RIGID	Typical
11	LIVE2	N34A	N38			RIGID	None	None	RIGID	Typical
12	MP1A	N42	N46			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
13	MP2A	N41	N45			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
14	MP3A	N40	N44			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
15	MP4A	N39	N43			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
16	M16	N34B	N4			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
17	M17	N35A	N36A			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
18	M18A	N37A	N38A			RIGID	None	None	RIGID	Typical
19	M19A	N68	N5			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
20	M20A	N40A	N41A			RIGID	None	None	RIGID	Typical
21	M21A	N41A	N42A		90	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
22	M22	N43A	N44A			RIGID	None	None	RIGID	Typical
23	M23	N44A	N45A		180	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
24	M24	N52	N56			RIGID	None	None	RIGID	Typical
25	M25	N53	N57			RIGID	None	None	RIGID	Typical
26	M26	N54	N58			RIGID	None	None	RIGID	Typical
27	M27	N55	N59			RIGID	None	None	RIGID	Typical
28	MP1C	N63	N67			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
29	MP2C	N62	N66			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP3C	N61	N65			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP4C	N60	N64			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
32	M32	N68	N38A			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
33	M33	N69	N70			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
34	M34	N71	N72			RIGID	None	None	RIGID	Typical
35	M35	N102	N5			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
36	M36	N74	N75			RIGID	None	None	RIGID	Typical
37	M37	N75	N76		90	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical
38	M38	N77	N78			RIGID	None	None	RIGID	Typical
39	M39	N78	N79		180	Grating Angle	Beam	Single Angle	A36 Gr.36	Typical

**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(de...	Section/Shape	Type	Design List	Material	Design Rules
40	M40	N86	N90			RIGID	None	None	RIGID	Typical
41	M41	N87	N91			RIGID	None	None	RIGID	Typical
42	M42	N88	N92			RIGID	None	None	RIGID	Typical
43	M43	N89	N93			RIGID	None	None	RIGID	Typical
44	MP1B	N97	N101			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
45	MP2B	N96	N100			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
46	MP3B	N95	N99			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
47	MP4B	N94	N98			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
48	M48	N102	N72			Standoff Arm	Beam	SquareTube	A500 Gr. ...	Typical
49	M49	N11	N79			Connection Angle	Beam	Single Angle	A36 Gr.36	Typical
50	M50	N76	N45A			Connection Angle	Beam	Single Angle	A36 Gr.36	Typical
51	M51	N42A	N14			Connection Angle	Beam	Single Angle	A36 Gr.36	Typical
52	M52	N104	N105A			RIGID	None	None	RIGID	Typical
53	OVP	N107	N106			Mount Pipe	Beam	Pipe	A53 Gr. B	Typical
54	M54	N108	N109			Mod Support Rail	Beam	Pipe	A53 Gr. B	Typical
55	M55	N110	N114			RIGID	None	None	RIGID	Typical
56	M56	N111	N115			RIGID	None	None	RIGID	Typical
57	M57	N112	N116			RIGID	None	None	RIGID	Typical
58	M58	N113	N117			RIGID	None	None	RIGID	Typical
59	M59	N118	N120			RIGID	None	None	RIGID	Typical
60	M60	N119	N121			RIGID	None	None	RIGID	Typical
61	M61	N123	N124			Mod Support Rail	Beam	Pipe	A53 Gr. B	Typical
62	M62	N125	N129			RIGID	None	None	RIGID	Typical
63	M63	N126	N130			RIGID	None	None	RIGID	Typical
64	M64	N127	N131			RIGID	None	None	RIGID	Typical
65	M65	N128	N132			RIGID	None	None	RIGID	Typical
66	M66	N133	N135			RIGID	None	None	RIGID	Typical
67	M67	N134	N136			RIGID	None	None	RIGID	Typical
68	M68	N138	N139			Mod Support Rail	Beam	Pipe	A53 Gr. B	Typical
69	M69	N140	N144			RIGID	None	None	RIGID	Typical
70	M70	N141	N145			RIGID	None	None	RIGID	Typical
71	M71	N142	N146			RIGID	None	None	RIGID	Typical
72	M72	N143	N147			RIGID	None	None	RIGID	Typical
73	M73	N148	N150			RIGID	None	None	RIGID	Typical
74	M74	N149	N151			RIGID	None	None	RIGID	Typical
75	M75	N150	N136		90	MOD Support Angle	Beam	Single Angle	A36 Gr.36	Typical
76	M76	N120	N151		90	MOD Support Angle	Beam	Single Angle	A36 Gr.36	Typical
77	M77	N135	N121		90	MOD Support Angle	Beam	Single Angle	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	FACE						Yes	Default			None
2	M2						Yes	** NA **			None
3	M3						Yes				None
4	M6						Yes	** NA **			None
5	M7						Yes	Default			None
6	M8						Yes	** NA **			None
7	M9						Yes	Default			None
8	M18						Yes	** NA **			None
9	M19						Yes	** NA **			None
10	LIVE1						Yes	** NA **			None
11	LIVE2						Yes	** NA **			None
12	MP1A						Yes				None
13	MP2A						Yes				None
14	MP3A						Yes				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...
15	MP4A						Yes				None
16	M16						Yes				None
17	M17						Yes	Default			None
18	M18A						Yes	** NA **			None
19	M19A						Yes				None
20	M20A						Yes	** NA **			None
21	M21A						Yes	Default			None
22	M22						Yes	** NA **			None
23	M23						Yes	Default			None
24	M24						Yes	** NA **			None
25	M25						Yes	** NA **			None
26	M26						Yes	** NA **			None
27	M27						Yes	** NA **			None
28	MP1C						Yes				None
29	MP2C						Yes				None
30	MP3C						Yes				None
31	MP4C						Yes				None
32	M32						Yes				None
33	M33						Yes	Default			None
34	M34						Yes	** NA **			None
35	M35						Yes				None
36	M36						Yes	** NA **			None
37	M37						Yes	Default			None
38	M38						Yes	** NA **			None
39	M39						Yes	Default			None
40	M40						Yes	** NA **			None
41	M41						Yes	** NA **			None
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	MP1B						Yes				None
45	MP2B						Yes				None
46	MP3B						Yes				None
47	MP4B						Yes				None
48	M48						Yes				None
49	M49	BenPIN	BenPIN				Yes				None
50	M50	BenPIN	BenPIN				Yes				None
51	M51	BenPIN	BenPIN				Yes				None
52	M52						Yes	** NA **			None
53	OVP						Yes				None
54	M54						Yes	Default			None
55	M55						Yes	** NA **			None
56	M56						Yes	** NA **			None
57	M57						Yes	** NA **			None
58	M58						Yes	** NA **			None
59	M59	OOOOOX					Yes	** NA **			None
60	M60	OOOOOX					Yes	** NA **			None
61	M61						Yes	Default			None
62	M62						Yes	** NA **			None
63	M63						Yes	** NA **			None
64	M64						Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66	OOOOOX					Yes	** NA **			None
67	M67	OOOOOX					Yes	** NA **			None
68	M68						Yes	Default			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						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...
72	M72						Yes	** NA **			None
73	M73	OOOOOX					Yes	** NA **			None
74	M74	OOOOOX					Yes	** NA **			None
75	M75						Yes				None
76	M76						Yes				None
77	M77						Yes				None

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	Y	-6.5	.08
2	MP1A	My	0	.08
3	MP1A	Mz	0	.08
4	MP2A	Y	-21.85	.5
5	MP2A	My	-.011	.5
6	MP2A	Mz	.013	.5
7	MP2A	Y	-21.85	4.5
8	MP2A	My	-.011	4.5
9	MP2A	Mz	.013	4.5
10	MP2B	Y	-21.85	.5
11	MP2B	My	-.007	.5
12	MP2B	Mz	-.015	.5
13	MP2B	Y	-21.85	4.5
14	MP2B	My	-.007	4.5
15	MP2B	Mz	-.015	4.5
16	MP2C	Y	-21.85	.5
17	MP2C	My	.015	.5
18	MP2C	Mz	-.007	.5
19	MP2C	Y	-21.85	4.5
20	MP2C	My	.015	4.5
21	MP2C	Mz	-.007	4.5
22	MP2A	Y	-21.85	.5
23	MP2A	My	-.011	.5
24	MP2A	Mz	-.013	.5
25	MP2A	Y	-21.85	4.5
26	MP2A	My	-.011	4.5
27	MP2A	Mz	-.013	4.5
28	MP2B	Y	-21.85	.5
29	MP2B	My	.016	.5
30	MP2B	Mz	-.005	.5
31	MP2B	Y	-21.85	4.5
32	MP2B	My	.016	4.5
33	MP2B	Mz	-.005	4.5
34	MP2C	Y	-21.85	.5
35	MP2C	My	.005	.5
36	MP2C	Mz	.016	.5
37	MP2C	Y	-21.85	4.5
38	MP2C	My	.005	4.5
39	MP2C	Mz	.016	4.5
40	MP3A	Y	-43.55	1.5
41	MP3A	My	-.022	1.5
42	MP3A	Mz	0	1.5
43	MP3A	Y	-43.55	3.5
44	MP3A	My	-.022	3.5
45	MP3A	Mz	0	3.5
46	MP3B	Y	-43.55	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
47	MP3B	My	.009	1.5
48	MP3B	Mz	-.02	1.5
49	MP3B	Y	-43.55	3.5
50	MP3B	My	.009	3.5
51	MP3B	Mz	-.02	3.5
52	MP4C	Y	-43.55	1.5
53	MP4C	My	.02	1.5
54	MP4C	Mz	.009	1.5
55	MP4C	Y	-43.55	3.5
56	MP4C	My	.02	3.5
57	MP4C	Mz	.009	3.5
58	MP1A	Y	-74.7	2.5
59	MP1A	My	.037	2.5
60	MP1A	Mz	0	2.5
61	MP1B	Y	-74.7	2.5
62	MP1B	My	-.016	2.5
63	MP1B	Mz	.034	2.5
64	MP1C	Y	-74.7	2.5
65	MP1C	My	-.034	2.5
66	MP1C	Mz	-.016	2.5
67	MP2A	Y	-70.3	2.5
68	MP2A	My	.035	2.5
69	MP2A	Mz	0	2.5
70	MP2B	Y	-70.3	2.5
71	MP2B	My	-.015	2.5
72	MP2B	Mz	.032	2.5
73	MP2C	Y	-70.3	2.5
74	MP2C	My	-.032	2.5
75	MP2C	Mz	-.015	2.5
76	OVP	Y	-32	.5
77	OVP	My	0	.5
78	OVP	Mz	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	Y	-30.976	.08
2	MP1A	My	0	.08
3	MP1A	Mz	0	.08
4	MP2A	Y	-96.545	.5
5	MP2A	My	-.048	.5
6	MP2A	Mz	.056	.5
7	MP2A	Y	-96.545	4.5
8	MP2A	My	-.048	4.5
9	MP2A	Mz	.056	4.5
10	MP2B	Y	-96.545	.5
11	MP2B	My	-.031	.5
12	MP2B	Mz	-.068	.5
13	MP2B	Y	-96.545	4.5
14	MP2B	My	-.031	4.5
15	MP2B	Mz	-.068	4.5
16	MP2C	Y	-96.545	.5
17	MP2C	My	.068	.5
18	MP2C	Mz	-.031	.5
19	MP2C	Y	-96.545	4.5
20	MP2C	My	.068	4.5
21	MP2C	Mz	-.031	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP2A	Y	-96.545	.5
23	MP2A	My	-.048	.5
24	MP2A	Mz	-.056	.5
25	MP2A	Y	-96.545	4.5
26	MP2A	My	-.048	4.5
27	MP2A	Mz	-.056	4.5
28	MP2B	Y	-96.545	.5
29	MP2B	My	.071	.5
30	MP2B	Mz	-.02	.5
31	MP2B	Y	-96.545	4.5
32	MP2B	My	.071	4.5
33	MP2B	Mz	-.02	4.5
34	MP2C	Y	-96.545	.5
35	MP2C	My	.02	.5
36	MP2C	Mz	.071	.5
37	MP2C	Y	-96.545	4.5
38	MP2C	My	.02	4.5
39	MP2C	Mz	.071	4.5
40	MP3A	Y	-56.996	1.5
41	MP3A	My	-.028	1.5
42	MP3A	Mz	0	1.5
43	MP3A	Y	-56.996	3.5
44	MP3A	My	-.028	3.5
45	MP3A	Mz	0	3.5
46	MP3B	Y	-56.996	1.5
47	MP3B	My	.012	1.5
48	MP3B	Mz	-.026	1.5
49	MP3B	Y	-56.996	3.5
50	MP3B	My	.012	3.5
51	MP3B	Mz	-.026	3.5
52	MP4C	Y	-56.996	1.5
53	MP4C	My	.026	1.5
54	MP4C	Mz	.012	1.5
55	MP4C	Y	-56.996	3.5
56	MP4C	My	.026	3.5
57	MP4C	Mz	.012	3.5
58	MP1A	Y	-72.453	2.5
59	MP1A	My	.036	2.5
60	MP1A	Mz	0	2.5
61	MP1B	Y	-72.453	2.5
62	MP1B	My	-.015	2.5
63	MP1B	Mz	.033	2.5
64	MP1C	Y	-72.453	2.5
65	MP1C	My	-.033	2.5
66	MP1C	Mz	-.015	2.5
67	MP2A	Y	-69.123	2.5
68	MP2A	My	.035	2.5
69	MP2A	Mz	0	2.5
70	MP2B	Y	-69.123	2.5
71	MP2B	My	-.015	2.5
72	MP2B	Mz	.031	2.5
73	MP2C	Y	-69.123	2.5
74	MP2C	My	-.031	2.5
75	MP2C	Mz	-.015	2.5
76	OVP	Y	-139.408	.5
77	OVP	My	0	.5
78	OVP	Mz	0	.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	.08
2	MP1A	Z	-15.369	.08
3	MP1A	Mx	0	.08
4	MP2A	X	0	.5
5	MP2A	Z	-157.296	.5
6	MP2A	Mx	-.092	.5
7	MP2A	X	0	4.5
8	MP2A	Z	-157.296	4.5
9	MP2A	Mx	-.092	4.5
10	MP2B	X	0	.5
11	MP2B	Z	-113.509	.5
12	MP2B	Mx	.079	.5
13	MP2B	X	0	4.5
14	MP2B	Z	-113.509	4.5
15	MP2B	Mx	.079	4.5
16	MP2C	X	0	.5
17	MP2C	Z	-147.775	.5
18	MP2C	Mx	.047	.5
19	MP2C	X	0	4.5
20	MP2C	Z	-147.775	4.5
21	MP2C	Mx	.047	4.5
22	MP2A	X	0	.5
23	MP2A	Z	-157.296	.5
24	MP2A	Mx	.092	.5
25	MP2A	X	0	4.5
26	MP2A	Z	-157.296	4.5
27	MP2A	Mx	.092	4.5
28	MP2B	X	0	.5
29	MP2B	Z	-113.509	.5
30	MP2B	Mx	.023	.5
31	MP2B	X	0	4.5
32	MP2B	Z	-113.509	4.5
33	MP2B	Mx	.023	4.5
34	MP2C	X	0	.5
35	MP2C	Z	-147.775	.5
36	MP2C	Mx	-.109	.5
37	MP2C	X	0	4.5
38	MP2C	Z	-147.775	4.5
39	MP2C	Mx	-.109	4.5
40	MP3A	X	0	1.5
41	MP3A	Z	-91.497	1.5
42	MP3A	Mx	0	1.5
43	MP3A	X	0	3.5
44	MP3A	Z	-91.497	3.5
45	MP3A	Mx	0	3.5
46	MP3B	X	0	1.5
47	MP3B	Z	-45.765	1.5
48	MP3B	Mx	.021	1.5
49	MP3B	X	0	3.5
50	MP3B	Z	-45.765	3.5
51	MP3B	Mx	.021	3.5
52	MP4C	X	0	1.5
53	MP4C	Z	-81.553	1.5
54	MP4C	Mx	-.017	1.5
55	MP4C	X	0	3.5
56	MP4C	Z	-81.553	3.5
57	MP4C	Mx	-.017	3.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	0	2.5
59	MP1A	Z	-72.808	2.5
60	MP1A	Mx	0	2.5
61	MP1B	X	0	2.5
62	MP1B	Z	-52.98	2.5
63	MP1B	Mx	-.024	2.5
64	MP1C	X	0	2.5
65	MP1C	Z	-68.496	2.5
66	MP1C	Mx	.014	2.5
67	MP2A	X	0	2.5
68	MP2A	Z	-72.808	2.5
69	MP2A	Mx	0	2.5
70	MP2B	X	0	2.5
71	MP2B	Z	-49.382	2.5
72	MP2B	Mx	-.022	2.5
73	MP2C	X	0	2.5
74	MP2C	Z	-67.714	2.5
75	MP2C	Mx	.014	2.5
76	OVP	X	0	.5
77	OVP	Z	-155.565	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	X	7.684	.08
2	MP1A	Z	-13.31	.08
3	MP1A	Mx	0	.08
4	MP2A	X	71.985	.5
5	MP2A	Z	-124.681	.5
6	MP2A	Mx	-.109	.5
7	MP2A	X	71.985	4.5
8	MP2A	Z	-124.681	4.5
9	MP2A	Mx	-.109	4.5
10	MP2B	X	52.197	.5
11	MP2B	Z	-90.407	.5
12	MP2B	Mx	.047	.5
13	MP2B	X	52.197	4.5
14	MP2B	Z	-90.407	4.5
15	MP2B	Mx	.047	4.5
16	MP2C	X	78.446	.5
17	MP2C	Z	-135.872	.5
18	MP2C	Mx	.098	.5
19	MP2C	X	78.446	4.5
20	MP2C	Z	-135.872	4.5
21	MP2C	Mx	.098	4.5
22	MP2A	X	71.985	.5
23	MP2A	Z	-124.681	.5
24	MP2A	Mx	.037	.5
25	MP2A	X	71.985	4.5
26	MP2A	Z	-124.681	4.5
27	MP2A	Mx	.037	4.5
28	MP2B	X	52.197	.5
29	MP2B	Z	-90.407	.5
30	MP2B	Mx	.057	.5
31	MP2B	X	52.197	4.5
32	MP2B	Z	-90.407	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2B	Mx	.057	4.5
34	MP2C	X	78.446	.5
35	MP2C	Z	-135.872	.5
36	MP2C	Mx	-.084	.5
37	MP2C	X	78.446	4.5
38	MP2C	Z	-135.872	4.5
39	MP2C	Mx	-.084	4.5
40	MP3A	X	38.789	1.5
41	MP3A	Z	-67.184	1.5
42	MP3A	Mx	-.019	1.5
43	MP3A	X	38.789	3.5
44	MP3A	Z	-67.184	3.5
45	MP3A	Mx	-.019	3.5
46	MP3B	X	18.122	1.5
47	MP3B	Z	-31.388	1.5
48	MP3B	Mx	.018	1.5
49	MP3B	X	18.122	3.5
50	MP3B	Z	-31.388	3.5
51	MP3B	Mx	.018	3.5
52	MP4C	X	45.537	1.5
53	MP4C	Z	-78.872	1.5
54	MP4C	Mx	.004	1.5
55	MP4C	X	45.537	3.5
56	MP4C	Z	-78.872	3.5
57	MP4C	Mx	.004	3.5
58	MP1A	X	33.387	2.5
59	MP1A	Z	-57.827	2.5
60	MP1A	Mx	.017	2.5
61	MP1B	X	24.426	2.5
62	MP1B	Z	-42.307	2.5
63	MP1B	Mx	-.024	2.5
64	MP1C	X	36.312	2.5
65	MP1C	Z	-62.895	2.5
66	MP1C	Mx	-.003	2.5
67	MP2A	X	32.839	2.5
68	MP2A	Z	-56.879	2.5
69	MP2A	Mx	.016	2.5
70	MP2B	X	22.252	2.5
71	MP2B	Z	-38.542	2.5
72	MP2B	Mx	-.022	2.5
73	MP2C	X	36.296	2.5
74	MP2C	Z	-62.866	2.5
75	MP2C	Mx	-.003	2.5
76	OVP	X	77.782	.5
77	OVP	Z	-134.723	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	16.522	.08
2	MP1A	Z	-9.539	.08
3	MP1A	Mx	0	.08
4	MP2A	X	101.598	.5
5	MP2A	Z	-58.658	.5
6	MP2A	Mx	-.085	.5
7	MP2A	X	101.598	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP2A	Z	-58.658	4.5
9	MP2A	Mx	-.085	4.5
10	MP2B	X	105.245	.5
11	MP2B	Z	-60.763	.5
12	MP2B	Mx	.009	.5
13	MP2B	X	105.245	4.5
14	MP2B	Z	-60.763	4.5
15	MP2B	Mx	.009	4.5
16	MP2C	X	121.034	.5
17	MP2C	Z	-69.879	.5
18	MP2C	Mx	.107	.5
19	MP2C	X	121.034	4.5
20	MP2C	Z	-69.879	4.5
21	MP2C	Mx	.107	4.5
22	MP2A	X	101.598	.5
23	MP2A	Z	-58.658	.5
24	MP2A	Mx	-.017	.5
25	MP2A	X	101.598	4.5
26	MP2A	Z	-58.658	4.5
27	MP2A	Mx	-.017	4.5
28	MP2B	X	105.245	.5
29	MP2B	Z	-60.763	.5
30	MP2B	Mx	.09	.5
31	MP2B	X	105.245	4.5
32	MP2B	Z	-60.763	4.5
33	MP2B	Mx	.09	4.5
34	MP2C	X	121.034	.5
35	MP2C	Z	-69.879	.5
36	MP2C	Mx	-.027	.5
37	MP2C	X	121.034	4.5
38	MP2C	Z	-69.879	4.5
39	MP2C	Mx	-.027	4.5
40	MP3A	X	43.076	1.5
41	MP3A	Z	-24.87	1.5
42	MP3A	Mx	-.022	1.5
43	MP3A	X	43.076	3.5
44	MP3A	Z	-24.87	3.5
45	MP3A	Mx	-.022	3.5
46	MP3B	X	46.884	1.5
47	MP3B	Z	-27.069	1.5
48	MP3B	Mx	.022	1.5
49	MP3B	X	46.884	3.5
50	MP3B	Z	-27.069	3.5
51	MP3B	Mx	.022	3.5
52	MP4C	X	63.376	1.5
53	MP4C	Z	-36.59	1.5
54	MP4C	Mx	.021	1.5
55	MP4C	X	63.376	3.5
56	MP4C	Z	-36.59	3.5
57	MP4C	Mx	.021	3.5
58	MP1A	X	47.374	2.5
59	MP1A	Z	-27.352	2.5
60	MP1A	Mx	.024	2.5
61	MP1B	X	49.026	2.5
62	MP1B	Z	-28.305	2.5
63	MP1B	Mx	-.023	2.5
64	MP1C	X	56.176	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
65	MP1C	Z	-32.433	2.5
66	MP1C	Mx	-.019	2.5
67	MP2A	X	44.529	2.5
68	MP2A	Z	-25.709	2.5
69	MP2A	Mx	.022	2.5
70	MP2B	X	46.48	2.5
71	MP2B	Z	-26.835	2.5
72	MP2B	Mx	-.022	2.5
73	MP2C	X	54.928	2.5
74	MP2C	Z	-31.713	2.5
75	MP2C	Mx	-.018	2.5
76	OVP	X	120.67	.5
77	OVP	Z	-69.669	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	22.787	.08
2	MP1A	Z	0	.08
3	MP1A	Mx	0	.08
4	MP2A	X	103.988	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	-.052	.5
7	MP2A	X	103.988	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	-.052	4.5
10	MP2B	X	147.775	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	-.047	.5
13	MP2B	X	147.775	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	-.047	4.5
16	MP2C	X	113.509	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	.079	.5
19	MP2C	X	113.509	4.5
20	MP2C	Z	0	4.5
21	MP2C	Mx	.079	4.5
22	MP2A	X	103.988	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.052	.5
25	MP2A	X	103.988	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	-.052	4.5
28	MP2B	X	147.775	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	.109	.5
31	MP2B	X	147.775	4.5
32	MP2B	Z	0	4.5
33	MP2B	Mx	.109	4.5
34	MP2C	X	113.509	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	.023	.5
37	MP2C	X	113.509	4.5
38	MP2C	Z	0	4.5
39	MP2C	Mx	.023	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
40	MP3A	X	35.821	1.5
41	MP3A	Z	0	1.5
42	MP3A	Mx	-.018	1.5
43	MP3A	X	35.821	3.5
44	MP3A	Z	0	3.5
45	MP3A	Mx	-.018	3.5
46	MP3B	X	81.553	1.5
47	MP3B	Z	0	1.5
48	MP3B	Mx	.017	1.5
49	MP3B	X	81.553	3.5
50	MP3B	Z	0	3.5
51	MP3B	Mx	.017	3.5
52	MP4C	X	45.765	1.5
53	MP4C	Z	0	1.5
54	MP4C	Mx	.021	1.5
55	MP4C	X	45.765	3.5
56	MP4C	Z	0	3.5
57	MP4C	Mx	.021	3.5
58	MP1A	X	48.668	2.5
59	MP1A	Z	0	2.5
60	MP1A	Mx	.024	2.5
61	MP1B	X	68.496	2.5
62	MP1B	Z	0	2.5
63	MP1B	Mx	-.014	2.5
64	MP1C	X	52.98	2.5
65	MP1C	Z	0	2.5
66	MP1C	Mx	-.024	2.5
67	MP2A	X	44.288	2.5
68	MP2A	Z	0	2.5
69	MP2A	Mx	.022	2.5
70	MP2B	X	67.714	2.5
71	MP2B	Z	0	2.5
72	MP2B	Mx	-.014	2.5
73	MP2C	X	49.382	2.5
74	MP2C	Z	0	2.5
75	MP2C	Mx	-.022	2.5
76	OVP	X	123.111	.5
77	OVP	Z	0	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	19.734	.08
2	MP1A	Z	11.394	.08
3	MP1A	Mx	0	.08
4	MP2A	X	101.598	.5
5	MP2A	Z	58.658	.5
6	MP2A	Mx	-.017	.5
7	MP2A	X	101.598	4.5
8	MP2A	Z	58.658	4.5
9	MP2A	Mx	-.017	4.5
10	MP2B	X	135.872	.5
11	MP2B	Z	78.446	.5
12	MP2B	Mx	-.098	.5
13	MP2B	X	135.872	4.5
14	MP2B	Z	78.446	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mx	-.098	4.5
16	MP2C	X	90.407	.5
17	MP2C	Z	52.197	.5
18	MP2C	Mx	.047	.5
19	MP2C	X	90.407	4.5
20	MP2C	Z	52.197	4.5
21	MP2C	Mx	.047	4.5
22	MP2A	X	101.598	.5
23	MP2A	Z	58.658	.5
24	MP2A	Mx	-.085	.5
25	MP2A	X	101.598	4.5
26	MP2A	Z	58.658	4.5
27	MP2A	Mx	-.085	4.5
28	MP2B	X	135.872	.5
29	MP2B	Z	78.446	.5
30	MP2B	Mx	.084	.5
31	MP2B	X	135.872	4.5
32	MP2B	Z	78.446	4.5
33	MP2B	Mx	.084	4.5
34	MP2C	X	90.407	.5
35	MP2C	Z	52.197	.5
36	MP2C	Mx	.057	.5
37	MP2C	X	90.407	4.5
38	MP2C	Z	52.197	4.5
39	MP2C	Mx	.057	4.5
40	MP3A	X	43.076	1.5
41	MP3A	Z	24.87	1.5
42	MP3A	Mx	-.022	1.5
43	MP3A	X	43.076	3.5
44	MP3A	Z	24.87	3.5
45	MP3A	Mx	-.022	3.5
46	MP3B	X	78.872	1.5
47	MP3B	Z	45.537	1.5
48	MP3B	Mx	-.004	1.5
49	MP3B	X	78.872	3.5
50	MP3B	Z	45.537	3.5
51	MP3B	Mx	-.004	3.5
52	MP4C	X	31.388	1.5
53	MP4C	Z	18.122	1.5
54	MP4C	Mx	.018	1.5
55	MP4C	X	31.388	3.5
56	MP4C	Z	18.122	3.5
57	MP4C	Mx	.018	3.5
58	MP1A	X	47.374	2.5
59	MP1A	Z	27.352	2.5
60	MP1A	Mx	.024	2.5
61	MP1B	X	62.895	2.5
62	MP1B	Z	36.312	2.5
63	MP1B	Mx	.003	2.5
64	MP1C	X	42.307	2.5
65	MP1C	Z	24.426	2.5
66	MP1C	Mx	-.024	2.5
67	MP2A	X	44.529	2.5
68	MP2A	Z	25.709	2.5
69	MP2A	Mx	.022	2.5
70	MP2B	X	62.866	2.5
71	MP2B	Z	36.296	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	.003	2.5
73	MP2C	X	38.542	2.5
74	MP2C	Z	22.252	2.5
75	MP2C	Mx	-.022	2.5
76	OVP	X	106.617	.5
77	OVP	Z	61.555	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	9.539	.08
2	MP1A	Z	16.522	.08
3	MP1A	Mx	0	.08
4	MP2A	X	71.985	.5
5	MP2A	Z	124.681	.5
6	MP2A	Mx	.037	.5
7	MP2A	X	71.985	4.5
8	MP2A	Z	124.681	4.5
9	MP2A	Mx	.037	4.5
10	MP2B	X	69.879	.5
11	MP2B	Z	121.034	.5
12	MP2B	Mx	-.107	.5
13	MP2B	X	69.879	4.5
14	MP2B	Z	121.034	4.5
15	MP2B	Mx	-.107	4.5
16	MP2C	X	60.763	.5
17	MP2C	Z	105.245	.5
18	MP2C	Mx	.009	.5
19	MP2C	X	60.763	4.5
20	MP2C	Z	105.245	4.5
21	MP2C	Mx	.009	4.5
22	MP2A	X	71.985	.5
23	MP2A	Z	124.681	.5
24	MP2A	Mx	-.109	.5
25	MP2A	X	71.985	4.5
26	MP2A	Z	124.681	4.5
27	MP2A	Mx	-.109	4.5
28	MP2B	X	69.879	.5
29	MP2B	Z	121.034	.5
30	MP2B	Mx	.027	.5
31	MP2B	X	69.879	4.5
32	MP2B	Z	121.034	4.5
33	MP2B	Mx	.027	4.5
34	MP2C	X	60.763	.5
35	MP2C	Z	105.245	.5
36	MP2C	Mx	.09	.5
37	MP2C	X	60.763	4.5
38	MP2C	Z	105.245	4.5
39	MP2C	Mx	.09	4.5
40	MP3A	X	38.789	1.5
41	MP3A	Z	67.184	1.5
42	MP3A	Mx	-.019	1.5
43	MP3A	X	38.789	3.5
44	MP3A	Z	67.184	3.5
45	MP3A	Mx	-.019	3.5
46	MP3B	X	36.59	1.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
47	MP3B	Z	63.376	1.5
48	MP3B	Mx	-.021	1.5
49	MP3B	X	36.59	3.5
50	MP3B	Z	63.376	3.5
51	MP3B	Mx	-.021	3.5
52	MP4C	X	27.069	1.5
53	MP4C	Z	46.884	1.5
54	MP4C	Mx	.022	1.5
55	MP4C	X	27.069	3.5
56	MP4C	Z	46.884	3.5
57	MP4C	Mx	.022	3.5
58	MP1A	X	33.387	2.5
59	MP1A	Z	57.827	2.5
60	MP1A	Mx	.017	2.5
61	MP1B	X	32.433	2.5
62	MP1B	Z	56.176	2.5
63	MP1B	Mx	.019	2.5
64	MP1C	X	28.305	2.5
65	MP1C	Z	49.026	2.5
66	MP1C	Mx	-.023	2.5
67	MP2A	X	32.839	2.5
68	MP2A	Z	56.879	2.5
69	MP2A	Mx	.016	2.5
70	MP2B	X	31.713	2.5
71	MP2B	Z	54.928	2.5
72	MP2B	Mx	.018	2.5
73	MP2C	X	26.835	2.5
74	MP2C	Z	46.48	2.5
75	MP2C	Mx	-.022	2.5
76	OVP	X	69.669	.5
77	OVP	Z	120.67	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	.08
2	MP1A	Z	15.369	.08
3	MP1A	Mx	0	.08
4	MP2A	X	0	.5
5	MP2A	Z	157.296	.5
6	MP2A	Mx	.092	.5
7	MP2A	X	0	4.5
8	MP2A	Z	157.296	4.5
9	MP2A	Mx	.092	4.5
10	MP2B	X	0	.5
11	MP2B	Z	113.509	.5
12	MP2B	Mx	-.079	.5
13	MP2B	X	0	4.5
14	MP2B	Z	113.509	4.5
15	MP2B	Mx	-.079	4.5
16	MP2C	X	0	.5
17	MP2C	Z	147.775	.5
18	MP2C	Mx	-.047	.5
19	MP2C	X	0	4.5
20	MP2C	Z	147.775	4.5
21	MP2C	Mx	-.047	4.5



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

Mar 1, 2022  
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 Checked By: JL

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	0	.5
23	MP2A	Z	157.296	.5
24	MP2A	Mx	-.092	.5
25	MP2A	X	0	4.5
26	MP2A	Z	157.296	4.5
27	MP2A	Mx	-.092	4.5
28	MP2B	X	0	.5
29	MP2B	Z	113.509	.5
30	MP2B	Mx	-.023	.5
31	MP2B	X	0	4.5
32	MP2B	Z	113.509	4.5
33	MP2B	Mx	-.023	4.5
34	MP2C	X	0	.5
35	MP2C	Z	147.775	.5
36	MP2C	Mx	.109	.5
37	MP2C	X	0	4.5
38	MP2C	Z	147.775	4.5
39	MP2C	Mx	.109	4.5
40	MP3A	X	0	1.5
41	MP3A	Z	91.497	1.5
42	MP3A	Mx	0	1.5
43	MP3A	X	0	3.5
44	MP3A	Z	91.497	3.5
45	MP3A	Mx	0	3.5
46	MP3B	X	0	1.5
47	MP3B	Z	45.765	1.5
48	MP3B	Mx	-.021	1.5
49	MP3B	X	0	3.5
50	MP3B	Z	45.765	3.5
51	MP3B	Mx	-.021	3.5
52	MP4C	X	0	1.5
53	MP4C	Z	81.553	1.5
54	MP4C	Mx	.017	1.5
55	MP4C	X	0	3.5
56	MP4C	Z	81.553	3.5
57	MP4C	Mx	.017	3.5
58	MP1A	X	0	2.5
59	MP1A	Z	72.808	2.5
60	MP1A	Mx	0	2.5
61	MP1B	X	0	2.5
62	MP1B	Z	52.98	2.5
63	MP1B	Mx	.024	2.5
64	MP1C	X	0	2.5
65	MP1C	Z	68.496	2.5
66	MP1C	Mx	-.014	2.5
67	MP2A	X	0	2.5
68	MP2A	Z	72.808	2.5
69	MP2A	Mx	0	2.5
70	MP2B	X	0	2.5
71	MP2B	Z	49.382	2.5
72	MP2B	Mx	.022	2.5
73	MP2C	X	0	2.5
74	MP2C	Z	67.714	2.5
75	MP2C	Mx	-.014	2.5
76	OVP	X	0	.5
77	OVP	Z	155.565	.5
78	OVP	Mx	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-7.684	.08
2	MP1A	Z	13.31	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-71.985	.5
5	MP2A	Z	124.681	.5
6	MP2A	Mx	.109	.5
7	MP2A	X	-71.985	4.5
8	MP2A	Z	124.681	4.5
9	MP2A	Mx	.109	4.5
10	MP2B	X	-52.197	.5
11	MP2B	Z	90.407	.5
12	MP2B	Mx	-.047	.5
13	MP2B	X	-52.197	4.5
14	MP2B	Z	90.407	4.5
15	MP2B	Mx	-.047	4.5
16	MP2C	X	-78.446	.5
17	MP2C	Z	135.872	.5
18	MP2C	Mx	-.098	.5
19	MP2C	X	-78.446	4.5
20	MP2C	Z	135.872	4.5
21	MP2C	Mx	-.098	4.5
22	MP2A	X	-71.985	.5
23	MP2A	Z	124.681	.5
24	MP2A	Mx	-.037	.5
25	MP2A	X	-71.985	4.5
26	MP2A	Z	124.681	4.5
27	MP2A	Mx	-.037	4.5
28	MP2B	X	-52.197	.5
29	MP2B	Z	90.407	.5
30	MP2B	Mx	-.057	.5
31	MP2B	X	-52.197	4.5
32	MP2B	Z	90.407	4.5
33	MP2B	Mx	-.057	4.5
34	MP2C	X	-78.446	.5
35	MP2C	Z	135.872	.5
36	MP2C	Mx	.084	.5
37	MP2C	X	-78.446	4.5
38	MP2C	Z	135.872	4.5
39	MP2C	Mx	.084	4.5
40	MP3A	X	-38.789	1.5
41	MP3A	Z	67.184	1.5
42	MP3A	Mx	.019	1.5
43	MP3A	X	-38.789	3.5
44	MP3A	Z	67.184	3.5
45	MP3A	Mx	.019	3.5
46	MP3B	X	-18.122	1.5
47	MP3B	Z	31.388	1.5
48	MP3B	Mx	-.018	1.5
49	MP3B	X	-18.122	3.5
50	MP3B	Z	31.388	3.5
51	MP3B	Mx	-.018	3.5
52	MP4C	X	-45.537	1.5
53	MP4C	Z	78.872	1.5
54	MP4C	Mx	-.004	1.5
55	MP4C	X	-45.537	3.5
56	MP4C	Z	78.872	3.5
57	MP4C	Mx	-.004	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
58	MP1A	X	-33.387	2.5
59	MP1A	Z	57.827	2.5
60	MP1A	Mx	-.017	2.5
61	MP1B	X	-24.426	2.5
62	MP1B	Z	42.307	2.5
63	MP1B	Mx	.024	2.5
64	MP1C	X	-36.312	2.5
65	MP1C	Z	62.895	2.5
66	MP1C	Mx	.003	2.5
67	MP2A	X	-32.839	2.5
68	MP2A	Z	56.879	2.5
69	MP2A	Mx	-.016	2.5
70	MP2B	X	-22.252	2.5
71	MP2B	Z	38.542	2.5
72	MP2B	Mx	.022	2.5
73	MP2C	X	-36.296	2.5
74	MP2C	Z	62.866	2.5
75	MP2C	Mx	.003	2.5
76	OVP	X	-77.782	.5
77	OVP	Z	134.723	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.-%]
1	MP1A	X	-16.522	.08
2	MP1A	Z	9.539	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-101.598	.5
5	MP2A	Z	58.658	.5
6	MP2A	Mx	.085	.5
7	MP2A	X	-101.598	4.5
8	MP2A	Z	58.658	4.5
9	MP2A	Mx	.085	4.5
10	MP2B	X	-105.245	.5
11	MP2B	Z	60.763	.5
12	MP2B	Mx	-.009	.5
13	MP2B	X	-105.245	4.5
14	MP2B	Z	60.763	4.5
15	MP2B	Mx	-.009	4.5
16	MP2C	X	-121.034	.5
17	MP2C	Z	69.879	.5
18	MP2C	Mx	-.107	.5
19	MP2C	X	-121.034	4.5
20	MP2C	Z	69.879	4.5
21	MP2C	Mx	-.107	4.5
22	MP2A	X	-101.598	.5
23	MP2A	Z	58.658	.5
24	MP2A	Mx	.017	.5
25	MP2A	X	-101.598	4.5
26	MP2A	Z	58.658	4.5
27	MP2A	Mx	.017	4.5
28	MP2B	X	-105.245	.5
29	MP2B	Z	60.763	.5
30	MP2B	Mx	-.09	.5
31	MP2B	X	-105.245	4.5
32	MP2B	Z	60.763	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2B	Mx	-.09	4.5
34	MP2C	X	-121.034	.5
35	MP2C	Z	69.879	.5
36	MP2C	Mx	.027	.5
37	MP2C	X	-121.034	4.5
38	MP2C	Z	69.879	4.5
39	MP2C	Mx	.027	4.5
40	MP3A	X	-43.076	1.5
41	MP3A	Z	24.87	1.5
42	MP3A	Mx	.022	1.5
43	MP3A	X	-43.076	3.5
44	MP3A	Z	24.87	3.5
45	MP3A	Mx	.022	3.5
46	MP3B	X	-46.884	1.5
47	MP3B	Z	27.069	1.5
48	MP3B	Mx	-.022	1.5
49	MP3B	X	-46.884	3.5
50	MP3B	Z	27.069	3.5
51	MP3B	Mx	-.022	3.5
52	MP4C	X	-63.376	1.5
53	MP4C	Z	36.59	1.5
54	MP4C	Mx	-.021	1.5
55	MP4C	X	-63.376	3.5
56	MP4C	Z	36.59	3.5
57	MP4C	Mx	-.021	3.5
58	MP1A	X	-47.374	2.5
59	MP1A	Z	27.352	2.5
60	MP1A	Mx	-.024	2.5
61	MP1B	X	-49.026	2.5
62	MP1B	Z	28.305	2.5
63	MP1B	Mx	.023	2.5
64	MP1C	X	-56.176	2.5
65	MP1C	Z	32.433	2.5
66	MP1C	Mx	.019	2.5
67	MP2A	X	-44.529	2.5
68	MP2A	Z	25.709	2.5
69	MP2A	Mx	-.022	2.5
70	MP2B	X	-46.48	2.5
71	MP2B	Z	26.835	2.5
72	MP2B	Mx	.022	2.5
73	MP2C	X	-54.928	2.5
74	MP2C	Z	31.713	2.5
75	MP2C	Mx	.018	2.5
76	OVP	X	-120.67	.5
77	OVP	Z	69.669	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-22.787	.08
2	MP1A	Z	0	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-103.988	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	.052	.5
7	MP2A	X	-103.988	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Z	0	4.5
9	MP2A	Mx	.052	4.5
10	MP2B	X	-147.775	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	.047	.5
13	MP2B	X	-147.775	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	.047	4.5
16	MP2C	X	-113.509	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	-.079	.5
19	MP2C	X	-113.509	4.5
20	MP2C	Z	0	4.5
21	MP2C	Mx	-.079	4.5
22	MP2A	X	-103.988	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.052	.5
25	MP2A	X	-103.988	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	.052	4.5
28	MP2B	X	-147.775	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	-.109	.5
31	MP2B	X	-147.775	4.5
32	MP2B	Z	0	4.5
33	MP2B	Mx	-.109	4.5
34	MP2C	X	-113.509	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	-.023	.5
37	MP2C	X	-113.509	4.5
38	MP2C	Z	0	4.5
39	MP2C	Mx	-.023	4.5
40	MP3A	X	-35.821	1.5
41	MP3A	Z	0	1.5
42	MP3A	Mx	.018	1.5
43	MP3A	X	-35.821	3.5
44	MP3A	Z	0	3.5
45	MP3A	Mx	.018	3.5
46	MP3B	X	-81.553	1.5
47	MP3B	Z	0	1.5
48	MP3B	Mx	-.017	1.5
49	MP3B	X	-81.553	3.5
50	MP3B	Z	0	3.5
51	MP3B	Mx	-.017	3.5
52	MP4C	X	-45.765	1.5
53	MP4C	Z	0	1.5
54	MP4C	Mx	-.021	1.5
55	MP4C	X	-45.765	3.5
56	MP4C	Z	0	3.5
57	MP4C	Mx	-.021	3.5
58	MP1A	X	-48.668	2.5
59	MP1A	Z	0	2.5
60	MP1A	Mx	-.024	2.5
61	MP1B	X	-68.496	2.5
62	MP1B	Z	0	2.5
63	MP1B	Mx	.014	2.5
64	MP1C	X	-52.98	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
65	MP1C	Z	0	2.5
66	MP1C	Mx	.024	2.5
67	MP2A	X	-44.288	2.5
68	MP2A	Z	0	2.5
69	MP2A	Mx	-.022	2.5
70	MP2B	X	-67.714	2.5
71	MP2B	Z	0	2.5
72	MP2B	Mx	.014	2.5
73	MP2C	X	-49.382	2.5
74	MP2C	Z	0	2.5
75	MP2C	Mx	.022	2.5
76	OVP	X	-123.111	.5
77	OVP	Z	0	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-19.734	.08
2	MP1A	Z	-11.394	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-101.598	.5
5	MP2A	Z	-58.658	.5
6	MP2A	Mx	.017	.5
7	MP2A	X	-101.598	4.5
8	MP2A	Z	-58.658	4.5
9	MP2A	Mx	.017	4.5
10	MP2B	X	-135.872	.5
11	MP2B	Z	-78.446	.5
12	MP2B	Mx	.098	.5
13	MP2B	X	-135.872	4.5
14	MP2B	Z	-78.446	4.5
15	MP2B	Mx	.098	4.5
16	MP2C	X	-90.407	.5
17	MP2C	Z	-52.197	.5
18	MP2C	Mx	-.047	.5
19	MP2C	X	-90.407	4.5
20	MP2C	Z	-52.197	4.5
21	MP2C	Mx	-.047	4.5
22	MP2A	X	-101.598	.5
23	MP2A	Z	-58.658	.5
24	MP2A	Mx	.085	.5
25	MP2A	X	-101.598	4.5
26	MP2A	Z	-58.658	4.5
27	MP2A	Mx	.085	4.5
28	MP2B	X	-135.872	.5
29	MP2B	Z	-78.446	.5
30	MP2B	Mx	-.084	.5
31	MP2B	X	-135.872	4.5
32	MP2B	Z	-78.446	4.5
33	MP2B	Mx	-.084	4.5
34	MP2C	X	-90.407	.5
35	MP2C	Z	-52.197	.5
36	MP2C	Mx	-.057	.5
37	MP2C	X	-90.407	4.5
38	MP2C	Z	-52.197	4.5
39	MP2C	Mx	-.057	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
40	MP3A	X	-43.076	1.5
41	MP3A	Z	-24.87	1.5
42	MP3A	Mx	.022	1.5
43	MP3A	X	-43.076	3.5
44	MP3A	Z	-24.87	3.5
45	MP3A	Mx	.022	3.5
46	MP3B	X	-78.872	1.5
47	MP3B	Z	-45.537	1.5
48	MP3B	Mx	.004	1.5
49	MP3B	X	-78.872	3.5
50	MP3B	Z	-45.537	3.5
51	MP3B	Mx	.004	3.5
52	MP4C	X	-31.388	1.5
53	MP4C	Z	-18.122	1.5
54	MP4C	Mx	-.018	1.5
55	MP4C	X	-31.388	3.5
56	MP4C	Z	-18.122	3.5
57	MP4C	Mx	-.018	3.5
58	MP1A	X	-47.374	2.5
59	MP1A	Z	-27.352	2.5
60	MP1A	Mx	-.024	2.5
61	MP1B	X	-62.895	2.5
62	MP1B	Z	-36.312	2.5
63	MP1B	Mx	-.003	2.5
64	MP1C	X	-42.307	2.5
65	MP1C	Z	-24.426	2.5
66	MP1C	Mx	.024	2.5
67	MP2A	X	-44.529	2.5
68	MP2A	Z	-25.709	2.5
69	MP2A	Mx	-.022	2.5
70	MP2B	X	-62.866	2.5
71	MP2B	Z	-36.296	2.5
72	MP2B	Mx	-.003	2.5
73	MP2C	X	-38.542	2.5
74	MP2C	Z	-22.252	2.5
75	MP2C	Mx	.022	2.5
76	OVP	X	-106.617	.5
77	OVP	Z	-61.555	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-9.539	.08
2	MP1A	Z	-16.522	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-71.985	.5
5	MP2A	Z	-124.681	.5
6	MP2A	Mx	-.037	.5
7	MP2A	X	-71.985	4.5
8	MP2A	Z	-124.681	4.5
9	MP2A	Mx	-.037	4.5
10	MP2B	X	-69.879	.5
11	MP2B	Z	-121.034	.5
12	MP2B	Mx	.107	.5
13	MP2B	X	-69.879	4.5
14	MP2B	Z	-121.034	4.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2B	Mx	.107	4.5
16	MP2C	X	-60.763	.5
17	MP2C	Z	-105.245	.5
18	MP2C	Mx	-.009	.5
19	MP2C	X	-60.763	4.5
20	MP2C	Z	-105.245	4.5
21	MP2C	Mx	-.009	4.5
22	MP2A	X	-71.985	.5
23	MP2A	Z	-124.681	.5
24	MP2A	Mx	.109	.5
25	MP2A	X	-71.985	4.5
26	MP2A	Z	-124.681	4.5
27	MP2A	Mx	.109	4.5
28	MP2B	X	-69.879	.5
29	MP2B	Z	-121.034	.5
30	MP2B	Mx	-.027	.5
31	MP2B	X	-69.879	4.5
32	MP2B	Z	-121.034	4.5
33	MP2B	Mx	-.027	4.5
34	MP2C	X	-60.763	.5
35	MP2C	Z	-105.245	.5
36	MP2C	Mx	-.09	.5
37	MP2C	X	-60.763	4.5
38	MP2C	Z	-105.245	4.5
39	MP2C	Mx	-.09	4.5
40	MP3A	X	-38.789	1.5
41	MP3A	Z	-67.184	1.5
42	MP3A	Mx	.019	1.5
43	MP3A	X	-38.789	3.5
44	MP3A	Z	-67.184	3.5
45	MP3A	Mx	.019	3.5
46	MP3B	X	-36.59	1.5
47	MP3B	Z	-63.376	1.5
48	MP3B	Mx	.021	1.5
49	MP3B	X	-36.59	3.5
50	MP3B	Z	-63.376	3.5
51	MP3B	Mx	.021	3.5
52	MP4C	X	-27.069	1.5
53	MP4C	Z	-46.884	1.5
54	MP4C	Mx	-.022	1.5
55	MP4C	X	-27.069	3.5
56	MP4C	Z	-46.884	3.5
57	MP4C	Mx	-.022	3.5
58	MP1A	X	-33.387	2.5
59	MP1A	Z	-57.827	2.5
60	MP1A	Mx	-.017	2.5
61	MP1B	X	-32.433	2.5
62	MP1B	Z	-56.176	2.5
63	MP1B	Mx	-.019	2.5
64	MP1C	X	-28.305	2.5
65	MP1C	Z	-49.026	2.5
66	MP1C	Mx	.023	2.5
67	MP2A	X	-32.839	2.5
68	MP2A	Z	-56.879	2.5
69	MP2A	Mx	-.016	2.5
70	MP2B	X	-31.713	2.5
71	MP2B	Z	-54.928	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	-.018	2.5
73	MP2C	X	-26.835	2.5
74	MP2C	Z	-46.48	2.5
75	MP2C	Mx	.022	2.5
76	OVP	X	-69.669	.5
77	OVP	Z	-120.67	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	.08
2	MP1A	Z	-18.243	.08
3	MP1A	Mx	0	.08
4	MP2A	X	0	.5
5	MP2A	Z	-34.486	.5
6	MP2A	Mx	-.02	.5
7	MP2A	X	0	4.5
8	MP2A	Z	-34.486	4.5
9	MP2A	Mx	-.02	4.5
10	MP2B	X	0	.5
11	MP2B	Z	-26.084	.5
12	MP2B	Mx	.018	.5
13	MP2B	X	0	4.5
14	MP2B	Z	-26.084	4.5
15	MP2B	Mx	.018	4.5
16	MP2C	X	0	.5
17	MP2C	Z	-32.659	.5
18	MP2C	Mx	.01	.5
19	MP2C	X	0	4.5
20	MP2C	Z	-32.659	4.5
21	MP2C	Mx	.01	4.5
22	MP2A	X	0	.5
23	MP2A	Z	-34.486	.5
24	MP2A	Mx	.02	.5
25	MP2A	X	0	4.5
26	MP2A	Z	-34.486	4.5
27	MP2A	Mx	.02	4.5
28	MP2B	X	0	.5
29	MP2B	Z	-26.084	.5
30	MP2B	Mx	.005	.5
31	MP2B	X	0	4.5
32	MP2B	Z	-26.084	4.5
33	MP2B	Mx	.005	4.5
34	MP2C	X	0	.5
35	MP2C	Z	-32.659	.5
36	MP2C	Mx	-.024	.5
37	MP2C	X	0	4.5
38	MP2C	Z	-32.659	4.5
39	MP2C	Mx	-.024	4.5
40	MP3A	X	0	1.5
41	MP3A	Z	-20.743	1.5
42	MP3A	Mx	0	1.5
43	MP3A	X	0	3.5
44	MP3A	Z	-20.743	3.5
45	MP3A	Mx	0	3.5
46	MP3B	X	0	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
47	MP3B	Z	-11.279	1.5
48	MP3B	Mx	.005	1.5
49	MP3B	X	0	3.5
50	MP3B	Z	-11.279	3.5
51	MP3B	Mx	.005	3.5
52	MP4C	X	0	1.5
53	MP4C	Z	-18.685	1.5
54	MP4C	Mx	-.004	1.5
55	MP4C	X	0	3.5
56	MP4C	Z	-18.685	3.5
57	MP4C	Mx	-.004	3.5
58	MP1A	X	0	2.5
59	MP1A	Z	-17.979	2.5
60	MP1A	Mx	0	2.5
61	MP1B	X	0	2.5
62	MP1B	Z	-13.688	2.5
63	MP1B	Mx	-.006	2.5
64	MP1C	X	0	2.5
65	MP1C	Z	-17.046	2.5
66	MP1C	Mx	.004	2.5
67	MP2A	X	0	2.5
68	MP2A	Z	-17.979	2.5
69	MP2A	Mx	0	2.5
70	MP2B	X	0	2.5
71	MP2B	Z	-12.916	2.5
72	MP2B	Mx	-.006	2.5
73	MP2C	X	0	2.5
74	MP2C	Z	-16.878	2.5
75	MP2C	Mx	.004	2.5
76	OVP	X	0	.5
77	OVP	Z	-35.525	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	9.122	.08
2	MP1A	Z	-15.799	.08
3	MP1A	Mx	0	.08
4	MP2A	X	15.964	.5
5	MP2A	Z	-27.651	.5
6	MP2A	Mx	-.024	.5
7	MP2A	X	15.964	4.5
8	MP2A	Z	-27.651	4.5
9	MP2A	Mx	-.024	4.5
10	MP2B	X	12.167	.5
11	MP2B	Z	-21.074	.5
12	MP2B	Mx	.011	.5
13	MP2B	X	12.167	4.5
14	MP2B	Z	-21.074	4.5
15	MP2B	Mx	.011	4.5
16	MP2C	X	17.204	.5
17	MP2C	Z	-29.798	.5
18	MP2C	Mx	.021	.5
19	MP2C	X	17.204	4.5
20	MP2C	Z	-29.798	4.5
21	MP2C	Mx	.021	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP2A	X	15.964	.5
23	MP2A	Z	-27.651	.5
24	MP2A	Mx	.008	.5
25	MP2A	X	15.964	4.5
26	MP2A	Z	-27.651	4.5
27	MP2A	Mx	.008	4.5
28	MP2B	X	12.167	.5
29	MP2B	Z	-21.074	.5
30	MP2B	Mx	.013	.5
31	MP2B	X	12.167	4.5
32	MP2B	Z	-21.074	4.5
33	MP2B	Mx	.013	4.5
34	MP2C	X	17.204	.5
35	MP2C	Z	-29.798	.5
36	MP2C	Mx	-.018	.5
37	MP2C	X	17.204	4.5
38	MP2C	Z	-29.798	4.5
39	MP2C	Mx	-.018	4.5
40	MP3A	X	8.931	1.5
41	MP3A	Z	-15.469	1.5
42	MP3A	Mx	-.004	1.5
43	MP3A	X	8.931	3.5
44	MP3A	Z	-15.469	3.5
45	MP3A	Mx	-.004	3.5
46	MP3B	X	4.654	1.5
47	MP3B	Z	-8.062	1.5
48	MP3B	Mx	.005	1.5
49	MP3B	X	4.654	3.5
50	MP3B	Z	-8.062	3.5
51	MP3B	Mx	.005	3.5
52	MP4C	X	10.328	1.5
53	MP4C	Z	-17.888	1.5
54	MP4C	Mx	.0009	1.5
55	MP4C	X	10.328	3.5
56	MP4C	Z	-17.888	3.5
57	MP4C	Mx	.0009	3.5
58	MP1A	X	8.337	2.5
59	MP1A	Z	-14.44	2.5
60	MP1A	Mx	.004	2.5
61	MP1B	X	6.397	2.5
62	MP1B	Z	-11.081	2.5
63	MP1B	Mx	-.006	2.5
64	MP1C	X	8.97	2.5
65	MP1C	Z	-15.536	2.5
66	MP1C	Mx	-.000782	2.5
67	MP2A	X	8.219	2.5
68	MP2A	Z	-14.236	2.5
69	MP2A	Mx	.004	2.5
70	MP2B	X	5.931	2.5
71	MP2B	Z	-10.273	2.5
72	MP2B	Mx	-.006	2.5
73	MP2C	X	8.966	2.5
74	MP2C	Z	-15.53	2.5
75	MP2C	Mx	-.000781	2.5
76	OVP	X	17.762	.5
77	OVP	Z	-30.765	.5
78	OVP	Mx	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	15.799	.08
2	MP1A	Z	-9.122	.08
3	MP1A	Mx	0	.08
4	MP2A	X	23.222	.5
5	MP2A	Z	-13.407	.5
6	MP2A	Mx	-.019	.5
7	MP2A	X	23.222	4.5
8	MP2A	Z	-13.407	4.5
9	MP2A	Mx	-.019	4.5
10	MP2B	X	23.921	.5
11	MP2B	Z	-13.811	.5
12	MP2B	Mx	.002	.5
13	MP2B	X	23.921	4.5
14	MP2B	Z	-13.811	4.5
15	MP2B	Mx	.002	4.5
16	MP2C	X	26.951	.5
17	MP2C	Z	-15.56	.5
18	MP2C	Mx	.024	.5
19	MP2C	X	26.951	4.5
20	MP2C	Z	-15.56	4.5
21	MP2C	Mx	.024	4.5
22	MP2A	X	23.222	.5
23	MP2A	Z	-13.407	.5
24	MP2A	Mx	-.004	.5
25	MP2A	X	23.222	4.5
26	MP2A	Z	-13.407	4.5
27	MP2A	Mx	-.004	4.5
28	MP2B	X	23.921	.5
29	MP2B	Z	-13.811	.5
30	MP2B	Mx	.021	.5
31	MP2B	X	23.921	4.5
32	MP2B	Z	-13.811	4.5
33	MP2B	Mx	.021	4.5
34	MP2C	X	26.951	.5
35	MP2C	Z	-15.56	.5
36	MP2C	Mx	-.006	.5
37	MP2C	X	26.951	4.5
38	MP2C	Z	-15.56	4.5
39	MP2C	Mx	-.006	4.5
40	MP3A	X	10.48	1.5
41	MP3A	Z	-6.051	1.5
42	MP3A	Mx	-.005	1.5
43	MP3A	X	10.48	3.5
44	MP3A	Z	-6.051	3.5
45	MP3A	Mx	-.005	3.5
46	MP3B	X	11.268	1.5
47	MP3B	Z	-6.506	1.5
48	MP3B	Mx	.005	1.5
49	MP3B	X	11.268	3.5
50	MP3B	Z	-6.506	3.5
51	MP3B	Mx	.005	3.5
52	MP4C	X	14.681	1.5
53	MP4C	Z	-8.476	1.5
54	MP4C	Mx	.005	1.5
55	MP4C	X	14.681	3.5
56	MP4C	Z	-8.476	3.5
57	MP4C	Mx	.005	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	X	12.177	2.5
59	MP1A	Z	-7.031	2.5
60	MP1A	Mx	.006	2.5
61	MP1B	X	12.535	2.5
62	MP1B	Z	-7.237	2.5
63	MP1B	Mx	-.006	2.5
64	MP1C	X	14.082	2.5
65	MP1C	Z	-8.13	2.5
66	MP1C	Mx	-.005	2.5
67	MP2A	X	11.567	2.5
68	MP2A	Z	-6.678	2.5
69	MP2A	Mx	.006	2.5
70	MP2B	X	11.988	2.5
71	MP2B	Z	-6.921	2.5
72	MP2B	Mx	-.006	2.5
73	MP2C	X	13.814	2.5
74	MP2C	Z	-7.976	2.5
75	MP2C	Mx	-.005	2.5
76	OVP	X	27.937	.5
77	OVP	Z	-16.129	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	18.243	.08
2	MP1A	Z	0	.08
3	MP1A	Mx	0	.08
4	MP2A	X	24.257	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	-.012	.5
7	MP2A	X	24.257	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	-.012	4.5
10	MP2B	X	32.659	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	-.01	.5
13	MP2B	X	32.659	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	-.01	4.5
16	MP2C	X	26.084	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	.018	.5
19	MP2C	X	26.084	4.5
20	MP2C	Z	0	4.5
21	MP2C	Mx	.018	4.5
22	MP2A	X	24.257	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.012	.5
25	MP2A	X	24.257	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	-.012	4.5
28	MP2B	X	32.659	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	.024	.5
31	MP2B	X	32.659	4.5
32	MP2B	Z	0	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2B	Mx	.024	4.5
34	MP2C	X	26.084	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	.005	.5
37	MP2C	X	26.084	4.5
38	MP2C	Z	0	4.5
39	MP2C	Mx	.005	4.5
40	MP3A	X	9.221	1.5
41	MP3A	Z	0	1.5
42	MP3A	Mx	-.005	1.5
43	MP3A	X	9.221	3.5
44	MP3A	Z	0	3.5
45	MP3A	Mx	-.005	3.5
46	MP3B	X	18.685	1.5
47	MP3B	Z	0	1.5
48	MP3B	Mx	.004	1.5
49	MP3B	X	18.685	3.5
50	MP3B	Z	0	3.5
51	MP3B	Mx	.004	3.5
52	MP4C	X	11.279	1.5
53	MP4C	Z	0	1.5
54	MP4C	Mx	.005	1.5
55	MP4C	X	11.279	3.5
56	MP4C	Z	0	3.5
57	MP4C	Mx	.005	3.5
58	MP1A	X	12.755	2.5
59	MP1A	Z	0	2.5
60	MP1A	Mx	.006	2.5
61	MP1B	X	17.046	2.5
62	MP1B	Z	0	2.5
63	MP1B	Mx	-.004	2.5
64	MP1C	X	13.688	2.5
65	MP1C	Z	0	2.5
66	MP1C	Mx	-.006	2.5
67	MP2A	X	11.815	2.5
68	MP2A	Z	0	2.5
69	MP2A	Mx	.006	2.5
70	MP2B	X	16.878	2.5
71	MP2B	Z	0	2.5
72	MP2B	Mx	-.004	2.5
73	MP2C	X	12.916	2.5
74	MP2C	Z	0	2.5
75	MP2C	Mx	-.006	2.5
76	OVP	X	28.992	.5
77	OVP	Z	0	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	15.799	.08
2	MP1A	Z	9.122	.08
3	MP1A	Mx	0	.08
4	MP2A	X	23.222	.5
5	MP2A	Z	13.407	.5
6	MP2A	Mx	-.004	.5
7	MP2A	X	23.222	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP2A	Z	13.407	4.5
9	MP2A	Mx	-.004	4.5
10	MP2B	X	29.798	.5
11	MP2B	Z	17.204	.5
12	MP2B	Mx	-.021	.5
13	MP2B	X	29.798	4.5
14	MP2B	Z	17.204	4.5
15	MP2B	Mx	-.021	4.5
16	MP2C	X	21.074	.5
17	MP2C	Z	12.167	.5
18	MP2C	Mx	.011	.5
19	MP2C	X	21.074	4.5
20	MP2C	Z	12.167	4.5
21	MP2C	Mx	.011	4.5
22	MP2A	X	23.222	.5
23	MP2A	Z	13.407	.5
24	MP2A	Mx	-.019	.5
25	MP2A	X	23.222	4.5
26	MP2A	Z	13.407	4.5
27	MP2A	Mx	-.019	4.5
28	MP2B	X	29.798	.5
29	MP2B	Z	17.204	.5
30	MP2B	Mx	.018	.5
31	MP2B	X	29.798	4.5
32	MP2B	Z	17.204	4.5
33	MP2B	Mx	.018	4.5
34	MP2C	X	21.074	.5
35	MP2C	Z	12.167	.5
36	MP2C	Mx	.013	.5
37	MP2C	X	21.074	4.5
38	MP2C	Z	12.167	4.5
39	MP2C	Mx	.013	4.5
40	MP3A	X	10.48	1.5
41	MP3A	Z	6.051	1.5
42	MP3A	Mx	-.005	1.5
43	MP3A	X	10.48	3.5
44	MP3A	Z	6.051	3.5
45	MP3A	Mx	-.005	3.5
46	MP3B	X	17.888	1.5
47	MP3B	Z	10.328	1.5
48	MP3B	Mx	-.0009	1.5
49	MP3B	X	17.888	3.5
50	MP3B	Z	10.328	3.5
51	MP3B	Mx	-.0009	3.5
52	MP4C	X	8.062	1.5
53	MP4C	Z	4.654	1.5
54	MP4C	Mx	.005	1.5
55	MP4C	X	8.062	3.5
56	MP4C	Z	4.654	3.5
57	MP4C	Mx	.005	3.5
58	MP1A	X	12.177	2.5
59	MP1A	Z	7.031	2.5
60	MP1A	Mx	.006	2.5
61	MP1B	X	15.536	2.5
62	MP1B	Z	8.97	2.5
63	MP1B	Mx	.000782	2.5
64	MP1C	X	11.081	2.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
65	MP1C	Z	6.397	2.5
66	MP1C	Mx	-.006	2.5
67	MP2A	X	11.567	2.5
68	MP2A	Z	6.678	2.5
69	MP2A	Mx	.006	2.5
70	MP2B	X	15.53	2.5
71	MP2B	Z	8.966	2.5
72	MP2B	Mx	.000781	2.5
73	MP2C	X	10.273	2.5
74	MP2C	Z	5.931	2.5
75	MP2C	Mx	-.006	2.5
76	OVP	X	25.108	.5
77	OVP	Z	14.496	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	9.122	.08
2	MP1A	Z	15.799	.08
3	MP1A	Mx	0	.08
4	MP2A	X	15.964	.5
5	MP2A	Z	27.651	.5
6	MP2A	Mx	.008	.5
7	MP2A	X	15.964	4.5
8	MP2A	Z	27.651	4.5
9	MP2A	Mx	.008	4.5
10	MP2B	X	15.56	.5
11	MP2B	Z	26.951	.5
12	MP2B	Mx	-.024	.5
13	MP2B	X	15.56	4.5
14	MP2B	Z	26.951	4.5
15	MP2B	Mx	-.024	4.5
16	MP2C	X	13.811	.5
17	MP2C	Z	23.921	.5
18	MP2C	Mx	.002	.5
19	MP2C	X	13.811	4.5
20	MP2C	Z	23.921	4.5
21	MP2C	Mx	.002	4.5
22	MP2A	X	15.964	.5
23	MP2A	Z	27.651	.5
24	MP2A	Mx	-.024	.5
25	MP2A	X	15.964	4.5
26	MP2A	Z	27.651	4.5
27	MP2A	Mx	-.024	4.5
28	MP2B	X	15.56	.5
29	MP2B	Z	26.951	.5
30	MP2B	Mx	.006	.5
31	MP2B	X	15.56	4.5
32	MP2B	Z	26.951	4.5
33	MP2B	Mx	.006	4.5
34	MP2C	X	13.811	.5
35	MP2C	Z	23.921	.5
36	MP2C	Mx	.021	.5
37	MP2C	X	13.811	4.5
38	MP2C	Z	23.921	4.5
39	MP2C	Mx	.021	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
40	MP3A	X	8.931	1.5
41	MP3A	Z	15.469	1.5
42	MP3A	Mx	-.004	1.5
43	MP3A	X	8.931	3.5
44	MP3A	Z	15.469	3.5
45	MP3A	Mx	-.004	3.5
46	MP3B	X	8.476	1.5
47	MP3B	Z	14.681	1.5
48	MP3B	Mx	-.005	1.5
49	MP3B	X	8.476	3.5
50	MP3B	Z	14.681	3.5
51	MP3B	Mx	-.005	3.5
52	MP4C	X	6.506	1.5
53	MP4C	Z	11.268	1.5
54	MP4C	Mx	.005	1.5
55	MP4C	X	6.506	3.5
56	MP4C	Z	11.268	3.5
57	MP4C	Mx	.005	3.5
58	MP1A	X	8.337	2.5
59	MP1A	Z	14.44	2.5
60	MP1A	Mx	.004	2.5
61	MP1B	X	8.13	2.5
62	MP1B	Z	14.082	2.5
63	MP1B	Mx	.005	2.5
64	MP1C	X	7.237	2.5
65	MP1C	Z	12.535	2.5
66	MP1C	Mx	-.006	2.5
67	MP2A	X	8.219	2.5
68	MP2A	Z	14.236	2.5
69	MP2A	Mx	.004	2.5
70	MP2B	X	7.976	2.5
71	MP2B	Z	13.814	2.5
72	MP2B	Mx	.005	2.5
73	MP2C	X	6.921	2.5
74	MP2C	Z	11.988	2.5
75	MP2C	Mx	-.006	2.5
76	OVP	X	16.129	.5
77	OVP	Z	27.937	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	.08
2	MP1A	Z	18.243	.08
3	MP1A	Mx	0	.08
4	MP2A	X	0	.5
5	MP2A	Z	34.486	.5
6	MP2A	Mx	.02	.5
7	MP2A	X	0	4.5
8	MP2A	Z	34.486	4.5
9	MP2A	Mx	.02	4.5
10	MP2B	X	0	.5
11	MP2B	Z	26.084	.5
12	MP2B	Mx	-.018	.5
13	MP2B	X	0	4.5
14	MP2B	Z	26.084	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2B	Mx	-.018	4.5
16	MP2C	X	0	.5
17	MP2C	Z	32.659	.5
18	MP2C	Mx	-.01	.5
19	MP2C	X	0	4.5
20	MP2C	Z	32.659	4.5
21	MP2C	Mx	-.01	4.5
22	MP2A	X	0	.5
23	MP2A	Z	34.486	.5
24	MP2A	Mx	-.02	.5
25	MP2A	X	0	4.5
26	MP2A	Z	34.486	4.5
27	MP2A	Mx	-.02	4.5
28	MP2B	X	0	.5
29	MP2B	Z	26.084	.5
30	MP2B	Mx	-.005	.5
31	MP2B	X	0	4.5
32	MP2B	Z	26.084	4.5
33	MP2B	Mx	-.005	4.5
34	MP2C	X	0	.5
35	MP2C	Z	32.659	.5
36	MP2C	Mx	.024	.5
37	MP2C	X	0	4.5
38	MP2C	Z	32.659	4.5
39	MP2C	Mx	.024	4.5
40	MP3A	X	0	1.5
41	MP3A	Z	20.743	1.5
42	MP3A	Mx	0	1.5
43	MP3A	X	0	3.5
44	MP3A	Z	20.743	3.5
45	MP3A	Mx	0	3.5
46	MP3B	X	0	1.5
47	MP3B	Z	11.279	1.5
48	MP3B	Mx	-.005	1.5
49	MP3B	X	0	3.5
50	MP3B	Z	11.279	3.5
51	MP3B	Mx	-.005	3.5
52	MP4C	X	0	1.5
53	MP4C	Z	18.685	1.5
54	MP4C	Mx	.004	1.5
55	MP4C	X	0	3.5
56	MP4C	Z	18.685	3.5
57	MP4C	Mx	.004	3.5
58	MP1A	X	0	2.5
59	MP1A	Z	17.979	2.5
60	MP1A	Mx	0	2.5
61	MP1B	X	0	2.5
62	MP1B	Z	13.688	2.5
63	MP1B	Mx	.006	2.5
64	MP1C	X	0	2.5
65	MP1C	Z	17.046	2.5
66	MP1C	Mx	-.004	2.5
67	MP2A	X	0	2.5
68	MP2A	Z	17.979	2.5
69	MP2A	Mx	0	2.5
70	MP2B	X	0	2.5
71	MP2B	Z	12.916	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	.006	2.5
73	MP2C	X	0	2.5
74	MP2C	Z	16.878	2.5
75	MP2C	Mx	-.004	2.5
76	OVP	X	0	.5
77	OVP	Z	35.525	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-9.122	.08
2	MP1A	Z	15.799	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-15.964	.5
5	MP2A	Z	27.651	.5
6	MP2A	Mx	.024	.5
7	MP2A	X	-15.964	4.5
8	MP2A	Z	27.651	4.5
9	MP2A	Mx	.024	4.5
10	MP2B	X	-12.167	.5
11	MP2B	Z	21.074	.5
12	MP2B	Mx	-.011	.5
13	MP2B	X	-12.167	4.5
14	MP2B	Z	21.074	4.5
15	MP2B	Mx	-.011	4.5
16	MP2C	X	-17.204	.5
17	MP2C	Z	29.798	.5
18	MP2C	Mx	-.021	.5
19	MP2C	X	-17.204	4.5
20	MP2C	Z	29.798	4.5
21	MP2C	Mx	-.021	4.5
22	MP2A	X	-15.964	.5
23	MP2A	Z	27.651	.5
24	MP2A	Mx	-.008	.5
25	MP2A	X	-15.964	4.5
26	MP2A	Z	27.651	4.5
27	MP2A	Mx	-.008	4.5
28	MP2B	X	-12.167	.5
29	MP2B	Z	21.074	.5
30	MP2B	Mx	-.013	.5
31	MP2B	X	-12.167	4.5
32	MP2B	Z	21.074	4.5
33	MP2B	Mx	-.013	4.5
34	MP2C	X	-17.204	.5
35	MP2C	Z	29.798	.5
36	MP2C	Mx	.018	.5
37	MP2C	X	-17.204	4.5
38	MP2C	Z	29.798	4.5
39	MP2C	Mx	.018	4.5
40	MP3A	X	-8.931	1.5
41	MP3A	Z	15.469	1.5
42	MP3A	Mx	.004	1.5
43	MP3A	X	-8.931	3.5
44	MP3A	Z	15.469	3.5
45	MP3A	Mx	.004	3.5
46	MP3B	X	-4.654	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
47	MP3B	Z	8.062	1.5
48	MP3B	Mx	-0.005	1.5
49	MP3B	X	-4.654	3.5
50	MP3B	Z	8.062	3.5
51	MP3B	Mx	-0.005	3.5
52	MP4C	X	-10.328	1.5
53	MP4C	Z	17.888	1.5
54	MP4C	Mx	-0.009	1.5
55	MP4C	X	-10.328	3.5
56	MP4C	Z	17.888	3.5
57	MP4C	Mx	-0.009	3.5
58	MP1A	X	-8.337	2.5
59	MP1A	Z	14.44	2.5
60	MP1A	Mx	-0.004	2.5
61	MP1B	X	-6.397	2.5
62	MP1B	Z	11.081	2.5
63	MP1B	Mx	.006	2.5
64	MP1C	X	-8.97	2.5
65	MP1C	Z	15.536	2.5
66	MP1C	Mx	.000782	2.5
67	MP2A	X	-8.219	2.5
68	MP2A	Z	14.236	2.5
69	MP2A	Mx	-0.004	2.5
70	MP2B	X	-5.931	2.5
71	MP2B	Z	10.273	2.5
72	MP2B	Mx	.006	2.5
73	MP2C	X	-8.966	2.5
74	MP2C	Z	15.53	2.5
75	MP2C	Mx	.000781	2.5
76	OVP	X	-17.762	.5
77	OVP	Z	30.765	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-15.799	.08
2	MP1A	Z	9.122	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-23.222	.5
5	MP2A	Z	13.407	.5
6	MP2A	Mx	.019	.5
7	MP2A	X	-23.222	4.5
8	MP2A	Z	13.407	4.5
9	MP2A	Mx	.019	4.5
10	MP2B	X	-23.921	.5
11	MP2B	Z	13.811	.5
12	MP2B	Mx	-0.002	.5
13	MP2B	X	-23.921	4.5
14	MP2B	Z	13.811	4.5
15	MP2B	Mx	-0.002	4.5
16	MP2C	X	-26.951	.5
17	MP2C	Z	15.56	.5
18	MP2C	Mx	-0.024	.5
19	MP2C	X	-26.951	4.5
20	MP2C	Z	15.56	4.5
21	MP2C	Mx	-0.024	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP2A	X	-23.222	.5
23	MP2A	Z	13.407	.5
24	MP2A	Mx	.004	.5
25	MP2A	X	-23.222	4.5
26	MP2A	Z	13.407	4.5
27	MP2A	Mx	.004	4.5
28	MP2B	X	-23.921	.5
29	MP2B	Z	13.811	.5
30	MP2B	Mx	-.021	.5
31	MP2B	X	-23.921	4.5
32	MP2B	Z	13.811	4.5
33	MP2B	Mx	-.021	4.5
34	MP2C	X	-26.951	.5
35	MP2C	Z	15.56	.5
36	MP2C	Mx	.006	.5
37	MP2C	X	-26.951	4.5
38	MP2C	Z	15.56	4.5
39	MP2C	Mx	.006	4.5
40	MP3A	X	-10.48	1.5
41	MP3A	Z	6.051	1.5
42	MP3A	Mx	.005	1.5
43	MP3A	X	-10.48	3.5
44	MP3A	Z	6.051	3.5
45	MP3A	Mx	.005	3.5
46	MP3B	X	-11.268	1.5
47	MP3B	Z	6.506	1.5
48	MP3B	Mx	-.005	1.5
49	MP3B	X	-11.268	3.5
50	MP3B	Z	6.506	3.5
51	MP3B	Mx	-.005	3.5
52	MP4C	X	-14.681	1.5
53	MP4C	Z	8.476	1.5
54	MP4C	Mx	-.005	1.5
55	MP4C	X	-14.681	3.5
56	MP4C	Z	8.476	3.5
57	MP4C	Mx	-.005	3.5
58	MP1A	X	-12.177	2.5
59	MP1A	Z	7.031	2.5
60	MP1A	Mx	-.006	2.5
61	MP1B	X	-12.535	2.5
62	MP1B	Z	7.237	2.5
63	MP1B	Mx	.006	2.5
64	MP1C	X	-14.082	2.5
65	MP1C	Z	8.13	2.5
66	MP1C	Mx	.005	2.5
67	MP2A	X	-11.567	2.5
68	MP2A	Z	6.678	2.5
69	MP2A	Mx	-.006	2.5
70	MP2B	X	-11.988	2.5
71	MP2B	Z	6.921	2.5
72	MP2B	Mx	.006	2.5
73	MP2C	X	-13.814	2.5
74	MP2C	Z	7.976	2.5
75	MP2C	Mx	.005	2.5
76	OVP	X	-27.937	.5
77	OVP	Z	16.129	.5
78	OVP	Mx	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-18.243	.08
2	MP1A	Z	0	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-24.257	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	.012	.5
7	MP2A	X	-24.257	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	.012	4.5
10	MP2B	X	-32.659	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	.01	.5
13	MP2B	X	-32.659	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	.01	4.5
16	MP2C	X	-26.084	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	-.018	.5
19	MP2C	X	-26.084	4.5
20	MP2C	Z	0	4.5
21	MP2C	Mx	-.018	4.5
22	MP2A	X	-24.257	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.012	.5
25	MP2A	X	-24.257	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	.012	4.5
28	MP2B	X	-32.659	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	-.024	.5
31	MP2B	X	-32.659	4.5
32	MP2B	Z	0	4.5
33	MP2B	Mx	-.024	4.5
34	MP2C	X	-26.084	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	-.005	.5
37	MP2C	X	-26.084	4.5
38	MP2C	Z	0	4.5
39	MP2C	Mx	-.005	4.5
40	MP3A	X	-9.221	1.5
41	MP3A	Z	0	1.5
42	MP3A	Mx	.005	1.5
43	MP3A	X	-9.221	3.5
44	MP3A	Z	0	3.5
45	MP3A	Mx	.005	3.5
46	MP3B	X	-18.685	1.5
47	MP3B	Z	0	1.5
48	MP3B	Mx	-.004	1.5
49	MP3B	X	-18.685	3.5
50	MP3B	Z	0	3.5
51	MP3B	Mx	-.004	3.5
52	MP4C	X	-11.279	1.5
53	MP4C	Z	0	1.5
54	MP4C	Mx	-.005	1.5
55	MP4C	X	-11.279	3.5
56	MP4C	Z	0	3.5
57	MP4C	Mx	-.005	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	X	-12.755	2.5
59	MP1A	Z	0	2.5
60	MP1A	Mx	-.006	2.5
61	MP1B	X	-17.046	2.5
62	MP1B	Z	0	2.5
63	MP1B	Mx	.004	2.5
64	MP1C	X	-13.688	2.5
65	MP1C	Z	0	2.5
66	MP1C	Mx	.006	2.5
67	MP2A	X	-11.815	2.5
68	MP2A	Z	0	2.5
69	MP2A	Mx	-.006	2.5
70	MP2B	X	-16.878	2.5
71	MP2B	Z	0	2.5
72	MP2B	Mx	.004	2.5
73	MP2C	X	-12.916	2.5
74	MP2C	Z	0	2.5
75	MP2C	Mx	.006	2.5
76	OVP	X	-28.992	.5
77	OVP	Z	0	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-15.799	.08
2	MP1A	Z	-9.122	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-23.222	.5
5	MP2A	Z	-13.407	.5
6	MP2A	Mx	.004	.5
7	MP2A	X	-23.222	4.5
8	MP2A	Z	-13.407	4.5
9	MP2A	Mx	.004	4.5
10	MP2B	X	-29.798	.5
11	MP2B	Z	-17.204	.5
12	MP2B	Mx	.021	.5
13	MP2B	X	-29.798	4.5
14	MP2B	Z	-17.204	4.5
15	MP2B	Mx	.021	4.5
16	MP2C	X	-21.074	.5
17	MP2C	Z	-12.167	.5
18	MP2C	Mx	-.011	.5
19	MP2C	X	-21.074	4.5
20	MP2C	Z	-12.167	4.5
21	MP2C	Mx	-.011	4.5
22	MP2A	X	-23.222	.5
23	MP2A	Z	-13.407	.5
24	MP2A	Mx	.019	.5
25	MP2A	X	-23.222	4.5
26	MP2A	Z	-13.407	4.5
27	MP2A	Mx	.019	4.5
28	MP2B	X	-29.798	.5
29	MP2B	Z	-17.204	.5
30	MP2B	Mx	-.018	.5
31	MP2B	X	-29.798	4.5
32	MP2B	Z	-17.204	4.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2B	Mx	-.018	4.5
34	MP2C	X	-21.074	.5
35	MP2C	Z	-12.167	.5
36	MP2C	Mx	-.013	.5
37	MP2C	X	-21.074	4.5
38	MP2C	Z	-12.167	4.5
39	MP2C	Mx	-.013	4.5
40	MP3A	X	-10.48	1.5
41	MP3A	Z	-6.051	1.5
42	MP3A	Mx	.005	1.5
43	MP3A	X	-10.48	3.5
44	MP3A	Z	-6.051	3.5
45	MP3A	Mx	.005	3.5
46	MP3B	X	-17.888	1.5
47	MP3B	Z	-10.328	1.5
48	MP3B	Mx	.0009	1.5
49	MP3B	X	-17.888	3.5
50	MP3B	Z	-10.328	3.5
51	MP3B	Mx	.0009	3.5
52	MP4C	X	-8.062	1.5
53	MP4C	Z	-4.654	1.5
54	MP4C	Mx	-.005	1.5
55	MP4C	X	-8.062	3.5
56	MP4C	Z	-4.654	3.5
57	MP4C	Mx	-.005	3.5
58	MP1A	X	-12.177	2.5
59	MP1A	Z	-7.031	2.5
60	MP1A	Mx	-.006	2.5
61	MP1B	X	-15.536	2.5
62	MP1B	Z	-8.97	2.5
63	MP1B	Mx	-.000782	2.5
64	MP1C	X	-11.081	2.5
65	MP1C	Z	-6.397	2.5
66	MP1C	Mx	.006	2.5
67	MP2A	X	-11.567	2.5
68	MP2A	Z	-6.678	2.5
69	MP2A	Mx	-.006	2.5
70	MP2B	X	-15.53	2.5
71	MP2B	Z	-8.966	2.5
72	MP2B	Mx	-.000781	2.5
73	MP2C	X	-10.273	2.5
74	MP2C	Z	-5.931	2.5
75	MP2C	Mx	.006	2.5
76	OVP	X	-25.108	.5
77	OVP	Z	-14.496	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-9.122	.08
2	MP1A	Z	-15.799	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-15.964	.5
5	MP2A	Z	-27.651	.5
6	MP2A	Mx	-.008	.5
7	MP2A	X	-15.964	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
8	MP2A	Z	-27.651	4.5
9	MP2A	Mx	-0.008	4.5
10	MP2B	X	-15.56	.5
11	MP2B	Z	-26.951	.5
12	MP2B	Mx	.024	.5
13	MP2B	X	-15.56	4.5
14	MP2B	Z	-26.951	4.5
15	MP2B	Mx	.024	4.5
16	MP2C	X	-13.811	.5
17	MP2C	Z	-23.921	.5
18	MP2C	Mx	-.002	.5
19	MP2C	X	-13.811	4.5
20	MP2C	Z	-23.921	4.5
21	MP2C	Mx	-.002	4.5
22	MP2A	X	-15.964	.5
23	MP2A	Z	-27.651	.5
24	MP2A	Mx	.024	.5
25	MP2A	X	-15.964	4.5
26	MP2A	Z	-27.651	4.5
27	MP2A	Mx	.024	4.5
28	MP2B	X	-15.56	.5
29	MP2B	Z	-26.951	.5
30	MP2B	Mx	-.006	.5
31	MP2B	X	-15.56	4.5
32	MP2B	Z	-26.951	4.5
33	MP2B	Mx	-.006	4.5
34	MP2C	X	-13.811	.5
35	MP2C	Z	-23.921	.5
36	MP2C	Mx	-.021	.5
37	MP2C	X	-13.811	4.5
38	MP2C	Z	-23.921	4.5
39	MP2C	Mx	-.021	4.5
40	MP3A	X	-8.931	1.5
41	MP3A	Z	-15.469	1.5
42	MP3A	Mx	.004	1.5
43	MP3A	X	-8.931	3.5
44	MP3A	Z	-15.469	3.5
45	MP3A	Mx	.004	3.5
46	MP3B	X	-8.476	1.5
47	MP3B	Z	-14.681	1.5
48	MP3B	Mx	.005	1.5
49	MP3B	X	-8.476	3.5
50	MP3B	Z	-14.681	3.5
51	MP3B	Mx	.005	3.5
52	MP4C	X	-6.506	1.5
53	MP4C	Z	-11.268	1.5
54	MP4C	Mx	-.005	1.5
55	MP4C	X	-6.506	3.5
56	MP4C	Z	-11.268	3.5
57	MP4C	Mx	-.005	3.5
58	MP1A	X	-8.337	2.5
59	MP1A	Z	-14.44	2.5
60	MP1A	Mx	-.004	2.5
61	MP1B	X	-8.13	2.5
62	MP1B	Z	-14.082	2.5
63	MP1B	Mx	-.005	2.5
64	MP1C	X	-7.237	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
65	MP1C	Z	-12.535	2.5
66	MP1C	Mx	.006	2.5
67	MP2A	X	-8.219	2.5
68	MP2A	Z	-14.236	2.5
69	MP2A	Mx	-.004	2.5
70	MP2B	X	-7.976	2.5
71	MP2B	Z	-13.814	2.5
72	MP2B	Mx	-.005	2.5
73	MP2C	X	-6.921	2.5
74	MP2C	Z	-11.988	2.5
75	MP2C	Mx	.006	2.5
76	OVP	X	-16.129	.5
77	OVP	Z	-27.937	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	0	.08
2	MP1A	Z	-1.046	.08
3	MP1A	Mx	0	.08
4	MP2A	X	0	.5
5	MP2A	Z	-10.704	.5
6	MP2A	Mx	-.006	.5
7	MP2A	X	0	4.5
8	MP2A	Z	-10.704	4.5
9	MP2A	Mx	-.006	4.5
10	MP2B	X	0	.5
11	MP2B	Z	-7.725	.5
12	MP2B	Mx	.005	.5
13	MP2B	X	0	4.5
14	MP2B	Z	-7.725	4.5
15	MP2B	Mx	.005	4.5
16	MP2C	X	0	.5
17	MP2C	Z	-10.057	.5
18	MP2C	Mx	.003	.5
19	MP2C	X	0	4.5
20	MP2C	Z	-10.057	4.5
21	MP2C	Mx	.003	4.5
22	MP2A	X	0	.5
23	MP2A	Z	-10.704	.5
24	MP2A	Mx	.006	.5
25	MP2A	X	0	4.5
26	MP2A	Z	-10.704	4.5
27	MP2A	Mx	.006	4.5
28	MP2B	X	0	.5
29	MP2B	Z	-7.725	.5
30	MP2B	Mx	.002	.5
31	MP2B	X	0	4.5
32	MP2B	Z	-7.725	4.5
33	MP2B	Mx	.002	4.5
34	MP2C	X	0	.5
35	MP2C	Z	-10.057	.5
36	MP2C	Mx	-.007	.5
37	MP2C	X	0	4.5
38	MP2C	Z	-10.057	4.5
39	MP2C	Mx	-.007	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
40	MP3A	X	0	1.5
41	MP3A	Z	-6.227	1.5
42	MP3A	Mx	0	1.5
43	MP3A	X	0	3.5
44	MP3A	Z	-6.227	3.5
45	MP3A	Mx	0	3.5
46	MP3B	X	0	1.5
47	MP3B	Z	-3.114	1.5
48	MP3B	Mx	.001	1.5
49	MP3B	X	0	3.5
50	MP3B	Z	-3.114	3.5
51	MP3B	Mx	.001	3.5
52	MP4C	X	0	1.5
53	MP4C	Z	-5.55	1.5
54	MP4C	Mx	-.001	1.5
55	MP4C	X	0	3.5
56	MP4C	Z	-5.55	3.5
57	MP4C	Mx	-.001	3.5
58	MP1A	X	0	2.5
59	MP1A	Z	-4.955	2.5
60	MP1A	Mx	0	2.5
61	MP1B	X	0	2.5
62	MP1B	Z	-3.605	2.5
63	MP1B	Mx	-.002	2.5
64	MP1C	X	0	2.5
65	MP1C	Z	-4.661	2.5
66	MP1C	Mx	.000985	2.5
67	MP2A	X	0	2.5
68	MP2A	Z	-4.955	2.5
69	MP2A	Mx	0	2.5
70	MP2B	X	0	2.5
71	MP2B	Z	-3.361	2.5
72	MP2B	Mx	-.002	2.5
73	MP2C	X	0	2.5
74	MP2C	Z	-4.608	2.5
75	MP2C	Mx	.000974	2.5
76	OVP	X	0	.5
77	OVP	Z	-10.587	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	.523	.08
2	MP1A	Z	-.906	.08
3	MP1A	Mx	0	.08
4	MP2A	X	4.899	.5
5	MP2A	Z	-8.485	.5
6	MP2A	Mx	-.007	.5
7	MP2A	X	4.899	4.5
8	MP2A	Z	-8.485	4.5
9	MP2A	Mx	-.007	4.5
10	MP2B	X	3.552	.5
11	MP2B	Z	-6.152	.5
12	MP2B	Mx	.003	.5
13	MP2B	X	3.552	4.5
14	MP2B	Z	-6.152	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
15	MP2B	Mx	.003	4.5
16	MP2C	X	5.338	.5
17	MP2C	Z	-9.246	.5
18	MP2C	Mx	.007	.5
19	MP2C	X	5.338	4.5
20	MP2C	Z	-9.246	4.5
21	MP2C	Mx	.007	4.5
22	MP2A	X	4.899	.5
23	MP2A	Z	-8.485	.5
24	MP2A	Mx	.003	.5
25	MP2A	X	4.899	4.5
26	MP2A	Z	-8.485	4.5
27	MP2A	Mx	.003	4.5
28	MP2B	X	3.552	.5
29	MP2B	Z	-6.152	.5
30	MP2B	Mx	.004	.5
31	MP2B	X	3.552	4.5
32	MP2B	Z	-6.152	4.5
33	MP2B	Mx	.004	4.5
34	MP2C	X	5.338	.5
35	MP2C	Z	-9.246	.5
36	MP2C	Mx	-.006	.5
37	MP2C	X	5.338	4.5
38	MP2C	Z	-9.246	4.5
39	MP2C	Mx	-.006	4.5
40	MP3A	X	2.64	1.5
41	MP3A	Z	-4.572	1.5
42	MP3A	Mx	-.001	1.5
43	MP3A	X	2.64	3.5
44	MP3A	Z	-4.572	3.5
45	MP3A	Mx	-.001	3.5
46	MP3B	X	1.233	1.5
47	MP3B	Z	-2.136	1.5
48	MP3B	Mx	.001	1.5
49	MP3B	X	1.233	3.5
50	MP3B	Z	-2.136	3.5
51	MP3B	Mx	.001	3.5
52	MP4C	X	3.099	1.5
53	MP4C	Z	-5.367	1.5
54	MP4C	Mx	.00027	1.5
55	MP4C	X	3.099	3.5
56	MP4C	Z	-5.367	3.5
57	MP4C	Mx	.00027	3.5
58	MP1A	X	2.272	2.5
59	MP1A	Z	-3.935	2.5
60	MP1A	Mx	.001	2.5
61	MP1B	X	1.662	2.5
62	MP1B	Z	-2.879	2.5
63	MP1B	Mx	-.002	2.5
64	MP1C	X	2.471	2.5
65	MP1C	Z	-4.28	2.5
66	MP1C	Mx	-.000215	2.5
67	MP2A	X	2.235	2.5
68	MP2A	Z	-3.871	2.5
69	MP2A	Mx	.001	2.5
70	MP2B	X	1.514	2.5
71	MP2B	Z	-2.623	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	-0.002	2.5
73	MP2C	X	2.47	2.5
74	MP2C	Z	-4.278	2.5
75	MP2C	Mx	-.000215	2.5
76	OVP	X	5.293	.5
77	OVP	Z	-9.168	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	1.124	.08
2	MP1A	Z	-.649	.08
3	MP1A	Mx	0	.08
4	MP2A	X	6.914	.5
5	MP2A	Z	-3.992	.5
6	MP2A	Mx	-.006	.5
7	MP2A	X	6.914	4.5
8	MP2A	Z	-3.992	4.5
9	MP2A	Mx	-.006	4.5
10	MP2B	X	7.162	.5
11	MP2B	Z	-4.135	.5
12	MP2B	Mx	.00062	.5
13	MP2B	X	7.162	4.5
14	MP2B	Z	-4.135	4.5
15	MP2B	Mx	.00062	4.5
16	MP2C	X	8.237	.5
17	MP2C	Z	-4.755	.5
18	MP2C	Mx	.007	.5
19	MP2C	X	8.237	4.5
20	MP2C	Z	-4.755	4.5
21	MP2C	Mx	.007	4.5
22	MP2A	X	6.914	.5
23	MP2A	Z	-3.992	.5
24	MP2A	Mx	-.001	.5
25	MP2A	X	6.914	4.5
26	MP2A	Z	-3.992	4.5
27	MP2A	Mx	-.001	4.5
28	MP2B	X	7.162	.5
29	MP2B	Z	-4.135	.5
30	MP2B	Mx	.006	.5
31	MP2B	X	7.162	4.5
32	MP2B	Z	-4.135	4.5
33	MP2B	Mx	.006	4.5
34	MP2C	X	8.237	.5
35	MP2C	Z	-4.755	.5
36	MP2C	Mx	-.002	.5
37	MP2C	X	8.237	4.5
38	MP2C	Z	-4.755	4.5
39	MP2C	Mx	-.002	4.5
40	MP3A	X	2.931	1.5
41	MP3A	Z	-1.692	1.5
42	MP3A	Mx	-.001	1.5
43	MP3A	X	2.931	3.5
44	MP3A	Z	-1.692	3.5
45	MP3A	Mx	-.001	3.5
46	MP3B	X	3.191	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
47	MP3B	Z	-1.842	1.5
48	MP3B	Mx	.002	1.5
49	MP3B	X	3.191	3.5
50	MP3B	Z	-1.842	3.5
51	MP3B	Mx	.002	3.5
52	MP4C	X	4.313	1.5
53	MP4C	Z	-2.49	1.5
54	MP4C	Mx	.001	1.5
55	MP4C	X	4.313	3.5
56	MP4C	Z	-2.49	3.5
57	MP4C	Mx	.001	3.5
58	MP1A	X	3.224	2.5
59	MP1A	Z	-1.861	2.5
60	MP1A	Mx	.002	2.5
61	MP1B	X	3.336	2.5
62	MP1B	Z	-1.926	2.5
63	MP1B	Mx	-.002	2.5
64	MP1C	X	3.823	2.5
65	MP1C	Z	-2.207	2.5
66	MP1C	Mx	-.001	2.5
67	MP2A	X	3.03	2.5
68	MP2A	Z	-1.75	2.5
69	MP2A	Mx	.002	2.5
70	MP2B	X	3.163	2.5
71	MP2B	Z	-1.826	2.5
72	MP2B	Mx	-.001	2.5
73	MP2C	X	3.738	2.5
74	MP2C	Z	-2.158	2.5
75	MP2C	Mx	-.001	2.5
76	OVP	X	8.212	.5
77	OVP	Z	-4.741	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	1.551	.08
2	MP1A	Z	0	.08
3	MP1A	Mx	0	.08
4	MP2A	X	7.077	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	-.004	.5
7	MP2A	X	7.077	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	-.004	4.5
10	MP2B	X	10.057	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	-.003	.5
13	MP2B	X	10.057	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	-.003	4.5
16	MP2C	X	7.725	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	.005	.5
19	MP2C	X	7.725	4.5
20	MP2C	Z	0	4.5
21	MP2C	Mx	.005	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP2A	X	7.077	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	-.004	.5
25	MP2A	X	7.077	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	-.004	4.5
28	MP2B	X	10.057	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	.007	.5
31	MP2B	X	10.057	4.5
32	MP2B	Z	0	4.5
33	MP2B	Mx	.007	4.5
34	MP2C	X	7.725	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	.002	.5
37	MP2C	X	7.725	4.5
38	MP2C	Z	0	4.5
39	MP2C	Mx	.002	4.5
40	MP3A	X	2.438	1.5
41	MP3A	Z	0	1.5
42	MP3A	Mx	-.001	1.5
43	MP3A	X	2.438	3.5
44	MP3A	Z	0	3.5
45	MP3A	Mx	-.001	3.5
46	MP3B	X	5.55	1.5
47	MP3B	Z	0	1.5
48	MP3B	Mx	.001	1.5
49	MP3B	X	5.55	3.5
50	MP3B	Z	0	3.5
51	MP3B	Mx	.001	3.5
52	MP4C	X	3.114	1.5
53	MP4C	Z	0	1.5
54	MP4C	Mx	.001	1.5
55	MP4C	X	3.114	3.5
56	MP4C	Z	0	3.5
57	MP4C	Mx	.001	3.5
58	MP1A	X	3.312	2.5
59	MP1A	Z	0	2.5
60	MP1A	Mx	.002	2.5
61	MP1B	X	4.661	2.5
62	MP1B	Z	0	2.5
63	MP1B	Mx	-.000985	2.5
64	MP1C	X	3.605	2.5
65	MP1C	Z	0	2.5
66	MP1C	Mx	-.002	2.5
67	MP2A	X	3.014	2.5
68	MP2A	Z	0	2.5
69	MP2A	Mx	.002	2.5
70	MP2B	X	4.608	2.5
71	MP2B	Z	0	2.5
72	MP2B	Mx	-.000974	2.5
73	MP2C	X	3.361	2.5
74	MP2C	Z	0	2.5
75	MP2C	Mx	-.002	2.5
76	OVP	X	8.378	.5
77	OVP	Z	0	.5
78	OVP	Mx	0	.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	1.343	.08
2	MP1A	Z	.775	.08
3	MP1A	Mx	0	.08
4	MP2A	X	6.914	.5
5	MP2A	Z	3.992	.5
6	MP2A	Mx	-.001	.5
7	MP2A	X	6.914	4.5
8	MP2A	Z	3.992	4.5
9	MP2A	Mx	-.001	4.5
10	MP2B	X	9.246	.5
11	MP2B	Z	5.338	.5
12	MP2B	Mx	-.007	.5
13	MP2B	X	9.246	4.5
14	MP2B	Z	5.338	4.5
15	MP2B	Mx	-.007	4.5
16	MP2C	X	6.152	.5
17	MP2C	Z	3.552	.5
18	MP2C	Mx	.003	.5
19	MP2C	X	6.152	4.5
20	MP2C	Z	3.552	4.5
21	MP2C	Mx	.003	4.5
22	MP2A	X	6.914	.5
23	MP2A	Z	3.992	.5
24	MP2A	Mx	-.006	.5
25	MP2A	X	6.914	4.5
26	MP2A	Z	3.992	4.5
27	MP2A	Mx	-.006	4.5
28	MP2B	X	9.246	.5
29	MP2B	Z	5.338	.5
30	MP2B	Mx	.006	.5
31	MP2B	X	9.246	4.5
32	MP2B	Z	5.338	4.5
33	MP2B	Mx	.006	4.5
34	MP2C	X	6.152	.5
35	MP2C	Z	3.552	.5
36	MP2C	Mx	.004	.5
37	MP2C	X	6.152	4.5
38	MP2C	Z	3.552	4.5
39	MP2C	Mx	.004	4.5
40	MP3A	X	2.931	1.5
41	MP3A	Z	1.692	1.5
42	MP3A	Mx	-.001	1.5
43	MP3A	X	2.931	3.5
44	MP3A	Z	1.692	3.5
45	MP3A	Mx	-.001	3.5
46	MP3B	X	5.367	1.5
47	MP3B	Z	3.099	1.5
48	MP3B	Mx	-.00027	1.5
49	MP3B	X	5.367	3.5
50	MP3B	Z	3.099	3.5
51	MP3B	Mx	-.00027	3.5
52	MP4C	X	2.136	1.5
53	MP4C	Z	1.233	1.5
54	MP4C	Mx	.001	1.5
55	MP4C	X	2.136	3.5
56	MP4C	Z	1.233	3.5
57	MP4C	Mx	.001	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
58	MP1A	X	3.224	2.5
59	MP1A	Z	1.861	2.5
60	MP1A	Mx	.002	2.5
61	MP1B	X	4.28	2.5
62	MP1B	Z	2.471	2.5
63	MP1B	Mx	.000215	2.5
64	MP1C	X	2.879	2.5
65	MP1C	Z	1.662	2.5
66	MP1C	Mx	-.002	2.5
67	MP2A	X	3.03	2.5
68	MP2A	Z	1.75	2.5
69	MP2A	Mx	.002	2.5
70	MP2B	X	4.278	2.5
71	MP2B	Z	2.47	2.5
72	MP2B	Mx	.000215	2.5
73	MP2C	X	2.623	2.5
74	MP2C	Z	1.514	2.5
75	MP2C	Mx	-.002	2.5
76	OVP	X	7.256	.5
77	OVP	Z	4.189	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	.649	.08
2	MP1A	Z	1.124	.08
3	MP1A	Mx	0	.08
4	MP2A	X	4.899	.5
5	MP2A	Z	8.485	.5
6	MP2A	Mx	.003	.5
7	MP2A	X	4.899	4.5
8	MP2A	Z	8.485	4.5
9	MP2A	Mx	.003	4.5
10	MP2B	X	4.755	.5
11	MP2B	Z	8.237	.5
12	MP2B	Mx	-.007	.5
13	MP2B	X	4.755	4.5
14	MP2B	Z	8.237	4.5
15	MP2B	Mx	-.007	4.5
16	MP2C	X	4.135	.5
17	MP2C	Z	7.162	.5
18	MP2C	Mx	.00062	.5
19	MP2C	X	4.135	4.5
20	MP2C	Z	7.162	4.5
21	MP2C	Mx	.00062	4.5
22	MP2A	X	4.899	.5
23	MP2A	Z	8.485	.5
24	MP2A	Mx	-.007	.5
25	MP2A	X	4.899	4.5
26	MP2A	Z	8.485	4.5
27	MP2A	Mx	-.007	4.5
28	MP2B	X	4.755	.5
29	MP2B	Z	8.237	.5
30	MP2B	Mx	.002	.5
31	MP2B	X	4.755	4.5
32	MP2B	Z	8.237	4.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
33	MP2B	Mx	.002	4.5
34	MP2C	X	4.135	.5
35	MP2C	Z	7.162	.5
36	MP2C	Mx	.006	.5
37	MP2C	X	4.135	4.5
38	MP2C	Z	7.162	4.5
39	MP2C	Mx	.006	4.5
40	MP3A	X	2.64	1.5
41	MP3A	Z	4.572	1.5
42	MP3A	Mx	-.001	1.5
43	MP3A	X	2.64	3.5
44	MP3A	Z	4.572	3.5
45	MP3A	Mx	-.001	3.5
46	MP3B	X	2.49	1.5
47	MP3B	Z	4.313	1.5
48	MP3B	Mx	-.001	1.5
49	MP3B	X	2.49	3.5
50	MP3B	Z	4.313	3.5
51	MP3B	Mx	-.001	3.5
52	MP4C	X	1.842	1.5
53	MP4C	Z	3.191	1.5
54	MP4C	Mx	.002	1.5
55	MP4C	X	1.842	3.5
56	MP4C	Z	3.191	3.5
57	MP4C	Mx	.002	3.5
58	MP1A	X	2.272	2.5
59	MP1A	Z	3.935	2.5
60	MP1A	Mx	.001	2.5
61	MP1B	X	2.207	2.5
62	MP1B	Z	3.823	2.5
63	MP1B	Mx	.001	2.5
64	MP1C	X	1.926	2.5
65	MP1C	Z	3.336	2.5
66	MP1C	Mx	-.002	2.5
67	MP2A	X	2.235	2.5
68	MP2A	Z	3.871	2.5
69	MP2A	Mx	.001	2.5
70	MP2B	X	2.158	2.5
71	MP2B	Z	3.738	2.5
72	MP2B	Mx	.001	2.5
73	MP2C	X	1.826	2.5
74	MP2C	Z	3.163	2.5
75	MP2C	Mx	-.001	2.5
76	OVP	X	4.741	.5
77	OVP	Z	8.212	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	0	.08
2	MP1A	Z	1.046	.08
3	MP1A	Mx	0	.08
4	MP2A	X	0	.5
5	MP2A	Z	10.704	.5
6	MP2A	Mx	.006	.5
7	MP2A	X	0	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
8	MP2A	Z	10.704	4.5
9	MP2A	Mx	.006	4.5
10	MP2B	X	0	.5
11	MP2B	Z	7.725	.5
12	MP2B	Mx	-.005	.5
13	MP2B	X	0	4.5
14	MP2B	Z	7.725	4.5
15	MP2B	Mx	-.005	4.5
16	MP2C	X	0	.5
17	MP2C	Z	10.057	.5
18	MP2C	Mx	-.003	.5
19	MP2C	X	0	4.5
20	MP2C	Z	10.057	4.5
21	MP2C	Mx	-.003	4.5
22	MP2A	X	0	.5
23	MP2A	Z	10.704	.5
24	MP2A	Mx	-.006	.5
25	MP2A	X	0	4.5
26	MP2A	Z	10.704	4.5
27	MP2A	Mx	-.006	4.5
28	MP2B	X	0	.5
29	MP2B	Z	7.725	.5
30	MP2B	Mx	-.002	.5
31	MP2B	X	0	4.5
32	MP2B	Z	7.725	4.5
33	MP2B	Mx	-.002	4.5
34	MP2C	X	0	.5
35	MP2C	Z	10.057	.5
36	MP2C	Mx	.007	.5
37	MP2C	X	0	4.5
38	MP2C	Z	10.057	4.5
39	MP2C	Mx	.007	4.5
40	MP3A	X	0	1.5
41	MP3A	Z	6.227	1.5
42	MP3A	Mx	0	1.5
43	MP3A	X	0	3.5
44	MP3A	Z	6.227	3.5
45	MP3A	Mx	0	3.5
46	MP3B	X	0	1.5
47	MP3B	Z	3.114	1.5
48	MP3B	Mx	-.001	1.5
49	MP3B	X	0	3.5
50	MP3B	Z	3.114	3.5
51	MP3B	Mx	-.001	3.5
52	MP4C	X	0	1.5
53	MP4C	Z	5.55	1.5
54	MP4C	Mx	.001	1.5
55	MP4C	X	0	3.5
56	MP4C	Z	5.55	3.5
57	MP4C	Mx	.001	3.5
58	MP1A	X	0	2.5
59	MP1A	Z	4.955	2.5
60	MP1A	Mx	0	2.5
61	MP1B	X	0	2.5
62	MP1B	Z	3.605	2.5
63	MP1B	Mx	.002	2.5
64	MP1C	X	0	2.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
65	MP1C	Z	4.661	2.5
66	MP1C	Mx	-0.000985	2.5
67	MP2A	X	0	2.5
68	MP2A	Z	4.955	2.5
69	MP2A	Mx	0	2.5
70	MP2B	X	0	2.5
71	MP2B	Z	3.361	2.5
72	MP2B	Mx	.002	2.5
73	MP2C	X	0	2.5
74	MP2C	Z	4.608	2.5
75	MP2C	Mx	-0.000974	2.5
76	OVP	X	0	.5
77	OVP	Z	10.587	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-.523	.08
2	MP1A	Z	.906	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-4.899	.5
5	MP2A	Z	8.485	.5
6	MP2A	Mx	.007	.5
7	MP2A	X	-4.899	4.5
8	MP2A	Z	8.485	4.5
9	MP2A	Mx	.007	4.5
10	MP2B	X	-3.552	.5
11	MP2B	Z	6.152	.5
12	MP2B	Mx	-.003	.5
13	MP2B	X	-3.552	4.5
14	MP2B	Z	6.152	4.5
15	MP2B	Mx	-.003	4.5
16	MP2C	X	-5.338	.5
17	MP2C	Z	9.246	.5
18	MP2C	Mx	-.007	.5
19	MP2C	X	-5.338	4.5
20	MP2C	Z	9.246	4.5
21	MP2C	Mx	-.007	4.5
22	MP2A	X	-4.899	.5
23	MP2A	Z	8.485	.5
24	MP2A	Mx	-.003	.5
25	MP2A	X	-4.899	4.5
26	MP2A	Z	8.485	4.5
27	MP2A	Mx	-.003	4.5
28	MP2B	X	-3.552	.5
29	MP2B	Z	6.152	.5
30	MP2B	Mx	-.004	.5
31	MP2B	X	-3.552	4.5
32	MP2B	Z	6.152	4.5
33	MP2B	Mx	-.004	4.5
34	MP2C	X	-5.338	.5
35	MP2C	Z	9.246	.5
36	MP2C	Mx	.006	.5
37	MP2C	X	-5.338	4.5
38	MP2C	Z	9.246	4.5
39	MP2C	Mx	.006	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
40	MP3A	X	-2.64	1.5
41	MP3A	Z	4.572	1.5
42	MP3A	Mx	.001	1.5
43	MP3A	X	-2.64	3.5
44	MP3A	Z	4.572	3.5
45	MP3A	Mx	.001	3.5
46	MP3B	X	-1.233	1.5
47	MP3B	Z	2.136	1.5
48	MP3B	Mx	-.001	1.5
49	MP3B	X	-1.233	3.5
50	MP3B	Z	2.136	3.5
51	MP3B	Mx	-.001	3.5
52	MP4C	X	-3.099	1.5
53	MP4C	Z	5.367	1.5
54	MP4C	Mx	-.00027	1.5
55	MP4C	X	-3.099	3.5
56	MP4C	Z	5.367	3.5
57	MP4C	Mx	-.00027	3.5
58	MP1A	X	-2.272	2.5
59	MP1A	Z	3.935	2.5
60	MP1A	Mx	-.001	2.5
61	MP1B	X	-1.662	2.5
62	MP1B	Z	2.879	2.5
63	MP1B	Mx	.002	2.5
64	MP1C	X	-2.471	2.5
65	MP1C	Z	4.28	2.5
66	MP1C	Mx	.000215	2.5
67	MP2A	X	-2.235	2.5
68	MP2A	Z	3.871	2.5
69	MP2A	Mx	-.001	2.5
70	MP2B	X	-1.514	2.5
71	MP2B	Z	2.623	2.5
72	MP2B	Mx	.002	2.5
73	MP2C	X	-2.47	2.5
74	MP2C	Z	4.278	2.5
75	MP2C	Mx	.000215	2.5
76	OVP	X	-5.293	.5
77	OVP	Z	9.168	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-1.124	.08
2	MP1A	Z	.649	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-6.914	.5
5	MP2A	Z	3.992	.5
6	MP2A	Mx	.006	.5
7	MP2A	X	-6.914	4.5
8	MP2A	Z	3.992	4.5
9	MP2A	Mx	.006	4.5
10	MP2B	X	-7.162	.5
11	MP2B	Z	4.135	.5
12	MP2B	Mx	-.00062	.5
13	MP2B	X	-7.162	4.5
14	MP2B	Z	4.135	4.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mx	-.00062	4.5
16	MP2C	X	-8.237	.5
17	MP2C	Z	4.755	.5
18	MP2C	Mx	-.007	.5
19	MP2C	X	-8.237	4.5
20	MP2C	Z	4.755	4.5
21	MP2C	Mx	-.007	4.5
22	MP2A	X	-6.914	.5
23	MP2A	Z	3.992	.5
24	MP2A	Mx	.001	.5
25	MP2A	X	-6.914	4.5
26	MP2A	Z	3.992	4.5
27	MP2A	Mx	.001	4.5
28	MP2B	X	-7.162	.5
29	MP2B	Z	4.135	.5
30	MP2B	Mx	-.006	.5
31	MP2B	X	-7.162	4.5
32	MP2B	Z	4.135	4.5
33	MP2B	Mx	-.006	4.5
34	MP2C	X	-8.237	.5
35	MP2C	Z	4.755	.5
36	MP2C	Mx	.002	.5
37	MP2C	X	-8.237	4.5
38	MP2C	Z	4.755	4.5
39	MP2C	Mx	.002	4.5
40	MP3A	X	-2.931	1.5
41	MP3A	Z	1.692	1.5
42	MP3A	Mx	.001	1.5
43	MP3A	X	-2.931	3.5
44	MP3A	Z	1.692	3.5
45	MP3A	Mx	.001	3.5
46	MP3B	X	-3.191	1.5
47	MP3B	Z	1.842	1.5
48	MP3B	Mx	-.002	1.5
49	MP3B	X	-3.191	3.5
50	MP3B	Z	1.842	3.5
51	MP3B	Mx	-.002	3.5
52	MP4C	X	-4.313	1.5
53	MP4C	Z	2.49	1.5
54	MP4C	Mx	-.001	1.5
55	MP4C	X	-4.313	3.5
56	MP4C	Z	2.49	3.5
57	MP4C	Mx	-.001	3.5
58	MP1A	X	-3.224	2.5
59	MP1A	Z	1.861	2.5
60	MP1A	Mx	-.002	2.5
61	MP1B	X	-3.336	2.5
62	MP1B	Z	1.926	2.5
63	MP1B	Mx	.002	2.5
64	MP1C	X	-3.823	2.5
65	MP1C	Z	2.207	2.5
66	MP1C	Mx	.001	2.5
67	MP2A	X	-3.03	2.5
68	MP2A	Z	1.75	2.5
69	MP2A	Mx	-.002	2.5
70	MP2B	X	-3.163	2.5
71	MP2B	Z	1.826	2.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
72	MP2B	Mx	.001	2.5
73	MP2C	X	-3.738	2.5
74	MP2C	Z	2.158	2.5
75	MP2C	Mx	.001	2.5
76	OVP	X	-8.212	.5
77	OVP	Z	4.741	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-1.551	.08
2	MP1A	Z	0	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-7.077	.5
5	MP2A	Z	0	.5
6	MP2A	Mx	.004	.5
7	MP2A	X	-7.077	4.5
8	MP2A	Z	0	4.5
9	MP2A	Mx	.004	4.5
10	MP2B	X	-10.057	.5
11	MP2B	Z	0	.5
12	MP2B	Mx	.003	.5
13	MP2B	X	-10.057	4.5
14	MP2B	Z	0	4.5
15	MP2B	Mx	.003	4.5
16	MP2C	X	-7.725	.5
17	MP2C	Z	0	.5
18	MP2C	Mx	-.005	.5
19	MP2C	X	-7.725	4.5
20	MP2C	Z	0	4.5
21	MP2C	Mx	-.005	4.5
22	MP2A	X	-7.077	.5
23	MP2A	Z	0	.5
24	MP2A	Mx	.004	.5
25	MP2A	X	-7.077	4.5
26	MP2A	Z	0	4.5
27	MP2A	Mx	.004	4.5
28	MP2B	X	-10.057	.5
29	MP2B	Z	0	.5
30	MP2B	Mx	-.007	.5
31	MP2B	X	-10.057	4.5
32	MP2B	Z	0	4.5
33	MP2B	Mx	-.007	4.5
34	MP2C	X	-7.725	.5
35	MP2C	Z	0	.5
36	MP2C	Mx	-.002	.5
37	MP2C	X	-7.725	4.5
38	MP2C	Z	0	4.5
39	MP2C	Mx	-.002	4.5
40	MP3A	X	-2.438	1.5
41	MP3A	Z	0	1.5
42	MP3A	Mx	.001	1.5
43	MP3A	X	-2.438	3.5
44	MP3A	Z	0	3.5
45	MP3A	Mx	.001	3.5
46	MP3B	X	-5.55	1.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
47	MP3B	Z	0	1.5
48	MP3B	Mx	-.001	1.5
49	MP3B	X	-5.55	3.5
50	MP3B	Z	0	3.5
51	MP3B	Mx	-.001	3.5
52	MP4C	X	-3.114	1.5
53	MP4C	Z	0	1.5
54	MP4C	Mx	-.001	1.5
55	MP4C	X	-3.114	3.5
56	MP4C	Z	0	3.5
57	MP4C	Mx	-.001	3.5
58	MP1A	X	-3.312	2.5
59	MP1A	Z	0	2.5
60	MP1A	Mx	-.002	2.5
61	MP1B	X	-4.661	2.5
62	MP1B	Z	0	2.5
63	MP1B	Mx	.000985	2.5
64	MP1C	X	-3.605	2.5
65	MP1C	Z	0	2.5
66	MP1C	Mx	.002	2.5
67	MP2A	X	-3.014	2.5
68	MP2A	Z	0	2.5
69	MP2A	Mx	-.002	2.5
70	MP2B	X	-4.608	2.5
71	MP2B	Z	0	2.5
72	MP2B	Mx	.000974	2.5
73	MP2C	X	-3.361	2.5
74	MP2C	Z	0	2.5
75	MP2C	Mx	.002	2.5
76	OVP	X	-8.378	.5
77	OVP	Z	0	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP1A	X	-1.343	.08
2	MP1A	Z	-.775	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-6.914	.5
5	MP2A	Z	-3.992	.5
6	MP2A	Mx	.001	.5
7	MP2A	X	-6.914	4.5
8	MP2A	Z	-3.992	4.5
9	MP2A	Mx	.001	4.5
10	MP2B	X	-9.246	.5
11	MP2B	Z	-5.338	.5
12	MP2B	Mx	.007	.5
13	MP2B	X	-9.246	4.5
14	MP2B	Z	-5.338	4.5
15	MP2B	Mx	.007	4.5
16	MP2C	X	-6.152	.5
17	MP2C	Z	-3.552	.5
18	MP2C	Mx	-.003	.5
19	MP2C	X	-6.152	4.5
20	MP2C	Z	-3.552	4.5
21	MP2C	Mx	-.003	4.5



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

Mar 1, 2022  
 10:25 AM  
 Checked By: JL

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
22	MP2A	X	-6.914	.5
23	MP2A	Z	-3.992	.5
24	MP2A	Mx	.006	.5
25	MP2A	X	-6.914	4.5
26	MP2A	Z	-3.992	4.5
27	MP2A	Mx	.006	4.5
28	MP2B	X	-9.246	.5
29	MP2B	Z	-5.338	.5
30	MP2B	Mx	-.006	.5
31	MP2B	X	-9.246	4.5
32	MP2B	Z	-5.338	4.5
33	MP2B	Mx	-.006	4.5
34	MP2C	X	-6.152	.5
35	MP2C	Z	-3.552	.5
36	MP2C	Mx	-.004	.5
37	MP2C	X	-6.152	4.5
38	MP2C	Z	-3.552	4.5
39	MP2C	Mx	-.004	4.5
40	MP3A	X	-2.931	1.5
41	MP3A	Z	-1.692	1.5
42	MP3A	Mx	.001	1.5
43	MP3A	X	-2.931	3.5
44	MP3A	Z	-1.692	3.5
45	MP3A	Mx	.001	3.5
46	MP3B	X	-5.367	1.5
47	MP3B	Z	-3.099	1.5
48	MP3B	Mx	.00027	1.5
49	MP3B	X	-5.367	3.5
50	MP3B	Z	-3.099	3.5
51	MP3B	Mx	.00027	3.5
52	MP4C	X	-2.136	1.5
53	MP4C	Z	-1.233	1.5
54	MP4C	Mx	-.001	1.5
55	MP4C	X	-2.136	3.5
56	MP4C	Z	-1.233	3.5
57	MP4C	Mx	-.001	3.5
58	MP1A	X	-3.224	2.5
59	MP1A	Z	-1.861	2.5
60	MP1A	Mx	-.002	2.5
61	MP1B	X	-4.28	2.5
62	MP1B	Z	-2.471	2.5
63	MP1B	Mx	-.000215	2.5
64	MP1C	X	-2.879	2.5
65	MP1C	Z	-1.662	2.5
66	MP1C	Mx	.002	2.5
67	MP2A	X	-3.03	2.5
68	MP2A	Z	-1.75	2.5
69	MP2A	Mx	-.002	2.5
70	MP2B	X	-4.278	2.5
71	MP2B	Z	-2.47	2.5
72	MP2B	Mx	-.000215	2.5
73	MP2C	X	-2.623	2.5
74	MP2C	Z	-1.514	2.5
75	MP2C	Mx	.002	2.5
76	OVP	X	-7.256	.5
77	OVP	Z	-4.189	.5
78	OVP	Mx	0	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	-0.649	.08
2	MP1A	Z	-1.124	.08
3	MP1A	Mx	0	.08
4	MP2A	X	-4.899	.5
5	MP2A	Z	-8.485	.5
6	MP2A	Mx	-0.003	.5
7	MP2A	X	-4.899	4.5
8	MP2A	Z	-8.485	4.5
9	MP2A	Mx	-0.003	4.5
10	MP2B	X	-4.755	.5
11	MP2B	Z	-8.237	.5
12	MP2B	Mx	.007	.5
13	MP2B	X	-4.755	4.5
14	MP2B	Z	-8.237	4.5
15	MP2B	Mx	.007	4.5
16	MP2C	X	-4.135	.5
17	MP2C	Z	-7.162	.5
18	MP2C	Mx	-0.0062	.5
19	MP2C	X	-4.135	4.5
20	MP2C	Z	-7.162	4.5
21	MP2C	Mx	-0.0062	4.5
22	MP2A	X	-4.899	.5
23	MP2A	Z	-8.485	.5
24	MP2A	Mx	.007	.5
25	MP2A	X	-4.899	4.5
26	MP2A	Z	-8.485	4.5
27	MP2A	Mx	.007	4.5
28	MP2B	X	-4.755	.5
29	MP2B	Z	-8.237	.5
30	MP2B	Mx	-0.002	.5
31	MP2B	X	-4.755	4.5
32	MP2B	Z	-8.237	4.5
33	MP2B	Mx	-0.002	4.5
34	MP2C	X	-4.135	.5
35	MP2C	Z	-7.162	.5
36	MP2C	Mx	-0.006	.5
37	MP2C	X	-4.135	4.5
38	MP2C	Z	-7.162	4.5
39	MP2C	Mx	-0.006	4.5
40	MP3A	X	-2.64	1.5
41	MP3A	Z	-4.572	1.5
42	MP3A	Mx	.001	1.5
43	MP3A	X	-2.64	3.5
44	MP3A	Z	-4.572	3.5
45	MP3A	Mx	.001	3.5
46	MP3B	X	-2.49	1.5
47	MP3B	Z	-4.313	1.5
48	MP3B	Mx	.001	1.5
49	MP3B	X	-2.49	3.5
50	MP3B	Z	-4.313	3.5
51	MP3B	Mx	.001	3.5
52	MP4C	X	-1.842	1.5
53	MP4C	Z	-3.191	1.5
54	MP4C	Mx	-0.002	1.5
55	MP4C	X	-1.842	3.5
56	MP4C	Z	-3.191	3.5
57	MP4C	Mx	-0.002	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
58	MP1A	X	-2.272	2.5
59	MP1A	Z	-3.935	2.5
60	MP1A	Mx	-.001	2.5
61	MP1B	X	-2.207	2.5
62	MP1B	Z	-3.823	2.5
63	MP1B	Mx	-.001	2.5
64	MP1C	X	-1.926	2.5
65	MP1C	Z	-3.336	2.5
66	MP1C	Mx	.002	2.5
67	MP2A	X	-2.235	2.5
68	MP2A	Z	-3.871	2.5
69	MP2A	Mx	-.001	2.5
70	MP2B	X	-2.158	2.5
71	MP2B	Z	-3.738	2.5
72	MP2B	Mx	-.001	2.5
73	MP2C	X	-1.826	2.5
74	MP2C	Z	-3.163	2.5
75	MP2C	Mx	.001	2.5
76	OVP	X	-4.741	.5
77	OVP	Z	-8.212	.5
78	OVP	Mx	0	.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	LIVE1	Y	-500	0

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	LIVE2	Y	-500	0

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

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

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

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

**Member Point Loads (BLC 81 : Antenna Ev)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	Y	0	.08
2	MP1A	My	0	.08
3	MP1A	Mz	0	.08
4	MP2A	Y	0	.5
5	MP2A	My	0	.5
6	MP2A	Mz	0	.5
7	MP2A	Y	0	4.5
8	MP2A	My	0	4.5
9	MP2A	Mz	0	4.5
10	MP2B	Y	0	.5
11	MP2B	My	0	.5
12	MP2B	Mz	0	.5
13	MP2B	Y	0	4.5
14	MP2B	My	0	4.5



**Member Point Loads (BLC 81 : Antenna Ev) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mz	0	4.5
16	MP2C	Y	0	.5
17	MP2C	My	0	.5
18	MP2C	Mz	0	.5
19	MP2C	Y	0	4.5
20	MP2C	My	0	4.5
21	MP2C	Mz	0	4.5
22	MP2A	Y	0	.5
23	MP2A	My	0	.5
24	MP2A	Mz	0	.5
25	MP2A	Y	0	4.5
26	MP2A	My	0	4.5
27	MP2A	Mz	0	4.5
28	MP2B	Y	0	.5
29	MP2B	My	0	.5
30	MP2B	Mz	0	.5
31	MP2B	Y	0	4.5
32	MP2B	My	0	4.5
33	MP2B	Mz	0	4.5
34	MP2C	Y	0	.5
35	MP2C	My	0	.5
36	MP2C	Mz	0	.5
37	MP2C	Y	0	4.5
38	MP2C	My	0	4.5
39	MP2C	Mz	0	4.5
40	MP3A	Y	0	1.5
41	MP3A	My	0	1.5
42	MP3A	Mz	0	1.5
43	MP3A	Y	0	3.5
44	MP3A	My	0	3.5
45	MP3A	Mz	0	3.5
46	MP3B	Y	0	1.5
47	MP3B	My	0	1.5
48	MP3B	Mz	0	1.5
49	MP3B	Y	0	3.5
50	MP3B	My	0	3.5
51	MP3B	Mz	0	3.5
52	MP4C	Y	0	1.5
53	MP4C	My	0	1.5
54	MP4C	Mz	0	1.5
55	MP4C	Y	0	3.5
56	MP4C	My	0	3.5
57	MP4C	Mz	0	3.5
58	MP1A	Y	0	2.5
59	MP1A	My	0	2.5
60	MP1A	Mz	0	2.5
61	MP1B	Y	0	2.5
62	MP1B	My	0	2.5
63	MP1B	Mz	0	2.5
64	MP1C	Y	0	2.5
65	MP1C	My	0	2.5
66	MP1C	Mz	0	2.5
67	MP2A	Y	0	2.5
68	MP2A	My	0	2.5
69	MP2A	Mz	0	2.5
70	MP2B	Y	0	2.5
71	MP2B	My	0	2.5



**Member Point Loads (BLC 81 : Antenna Ev) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP2B	Mz	0	2.5
73	MP2C	Y	0	2.5
74	MP2C	My	0	2.5
75	MP2C	Mz	0	2.5
76	OVP	Y	0	.5
77	OVP	My	0	.5
78	OVP	Mz	0	.5

**Member Point Loads (BLC 82 : Antenna Eh (0 Deg))**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP1A	Z	-.195	.08
2	MP1A	Mx	0	.08
3	MP2A	Z	-.655	.5
4	MP2A	Mx	-.000382	.5
5	MP2A	Z	-.655	4.5
6	MP2A	Mx	-.000382	4.5
7	MP2B	Z	-.655	.5
8	MP2B	Mx	.000459	.5
9	MP2B	Z	-.655	4.5
10	MP2B	Mx	.000459	4.5
11	MP2C	Z	-.655	.5
12	MP2C	Mx	.000208	.5
13	MP2C	Z	-.655	4.5
14	MP2C	Mx	.000208	4.5
15	MP2A	Z	-.655	.5
16	MP2A	Mx	.000382	.5
17	MP2A	Z	-.655	4.5
18	MP2A	Mx	.000382	4.5
19	MP2B	Z	-.655	.5
20	MP2B	Mx	.000135	.5
21	MP2B	Z	-.655	4.5
22	MP2B	Mx	.000135	4.5
23	MP2C	Z	-.655	.5
24	MP2C	Mx	-.000485	.5
25	MP2C	Z	-.655	4.5
26	MP2C	Mx	-.000485	4.5
27	MP3A	Z	-1.306	1.5
28	MP3A	Mx	0	1.5
29	MP3A	Z	-1.306	3.5
30	MP3A	Mx	0	3.5
31	MP3B	Z	-1.306	1.5
32	MP3B	Mx	.000592	1.5
33	MP3B	Z	-1.306	3.5
34	MP3B	Mx	.000592	3.5
35	MP4C	Z	-1.306	1.5
36	MP4C	Mx	-.000276	1.5
37	MP4C	Z	-1.306	3.5
38	MP4C	Mx	-.000276	3.5
39	MP1A	Z	-2.241	2.5
40	MP1A	Mx	0	2.5
41	MP1B	Z	-2.241	2.5
42	MP1B	Mx	-.001	2.5
43	MP1C	Z	-2.241	2.5
44	MP1C	Mx	.000474	2.5
45	MP2A	Z	-2.109	2.5
46	MP2A	Mx	0	2.5



**Member Point Loads (BLC 82 : Antenna Eh (0 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
47	MP2B	Z	-2.109	2.5
48	MP2B	Mx	-.000956	2.5
49	MP2C	Z	-2.109	2.5
50	MP2C	Mx	.000446	2.5
51	OVP	Z	-.96	.5
52	OVP	Mx	0	.5

**Member Point Loads (BLC 83 : Antenna Eh (90 Deg))**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP1A	X	.195	.08
2	MP1A	Mx	0	.08
3	MP2A	X	.655	.5
4	MP2A	Mx	-.000328	.5
5	MP2A	X	.655	4.5
6	MP2A	Mx	-.000328	4.5
7	MP2B	X	.655	.5
8	MP2B	Mx	-.000208	.5
9	MP2B	X	.655	4.5
10	MP2B	Mx	-.000208	4.5
11	MP2C	X	.655	.5
12	MP2C	Mx	.000459	.5
13	MP2C	X	.655	4.5
14	MP2C	Mx	.000459	4.5
15	MP2A	X	.655	.5
16	MP2A	Mx	-.000328	.5
17	MP2A	X	.655	4.5
18	MP2A	Mx	-.000328	4.5
19	MP2B	X	.655	.5
20	MP2B	Mx	.000485	.5
21	MP2B	X	.655	4.5
22	MP2B	Mx	.000485	4.5
23	MP2C	X	.655	.5
24	MP2C	Mx	.000135	.5
25	MP2C	X	.655	4.5
26	MP2C	Mx	.000135	4.5
27	MP3A	X	1.306	1.5
28	MP3A	Mx	-.000653	1.5
29	MP3A	X	1.306	3.5
30	MP3A	Mx	-.000653	3.5
31	MP3B	X	1.306	1.5
32	MP3B	Mx	.000276	1.5
33	MP3B	X	1.306	3.5
34	MP3B	Mx	.000276	3.5
35	MP4C	X	1.306	1.5
36	MP4C	Mx	.000592	1.5
37	MP4C	X	1.306	3.5
38	MP4C	Mx	.000592	3.5
39	MP1A	X	2.241	2.5
40	MP1A	Mx	.001	2.5
41	MP1B	X	2.241	2.5
42	MP1B	Mx	-.000474	2.5
43	MP1C	X	2.241	2.5
44	MP1C	Mx	-.001	2.5
45	MP2A	X	2.109	2.5
46	MP2A	Mx	.001	2.5
47	MP2B	X	2.109	2.5



**Member Point Loads (BLC 83 : Antenna Eh (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mx	-0.000446	2.5
49	MP2C	X	2.109	2.5
50	MP2C	Mx	-0.000956	2.5
51	OVP	X	.96	.5
52	OVP	Mx	0	.5

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	Y	-12.239	-12.239	0 %100
2	M3	Y	-15.77	-15.77	0 %100
3	M7	Y	-15.77	-15.77	0 %100
4	M9	Y	-15.77	-15.77	0 %100
5	MP1A	Y	-8.777	-8.777	0 %100
6	MP2A	Y	-8.777	-8.777	0 %100
7	MP3A	Y	-8.777	-8.777	0 %100
8	MP4A	Y	-8.777	-8.777	0 %100
9	M16	Y	-15.77	-15.77	0 %100
10	M17	Y	-12.239	-12.239	0 %100
11	M19A	Y	-15.77	-15.77	0 %100
12	M21A	Y	-15.77	-15.77	0 %100
13	M23	Y	-15.77	-15.77	0 %100
14	MP1C	Y	-8.777	-8.777	0 %100
15	MP2C	Y	-8.777	-8.777	0 %100
16	MP3C	Y	-8.777	-8.777	0 %100
17	MP4C	Y	-8.777	-8.777	0 %100
18	M32	Y	-15.77	-15.77	0 %100
19	M33	Y	-12.239	-12.239	0 %100
20	M35	Y	-15.77	-15.77	0 %100
21	M37	Y	-15.77	-15.77	0 %100
22	M39	Y	-15.77	-15.77	0 %100
23	MP1B	Y	-8.777	-8.777	0 %100
24	MP2B	Y	-8.777	-8.777	0 %100
25	MP3B	Y	-8.777	-8.777	0 %100
26	MP4B	Y	-8.777	-8.777	0 %100
27	M48	Y	-15.77	-15.77	0 %100
28	M49	Y	-9.743	-9.743	0 %100
29	M50	Y	-9.743	-9.743	0 %100
30	M51	Y	-9.743	-9.743	0 %100
31	OVP	Y	-8.777	-8.777	0 %100
32	M54	Y	-9.842	-9.842	0 %100
33	M61	Y	-9.842	-9.842	0 %100
34	M68	Y	-9.842	-9.842	0 %100
35	M75	Y	-12.756	-12.756	0 %100
36	M76	Y	-12.756	-12.756	0 %100
37	M77	Y	-12.756	-12.756	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	0	0	0 %100
2	FACE	Z	-13.662	-13.662	0 %100
3	M3	X	0	0	0 %100
4	M3	Z	0	0	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	-4.948	-4.948	0 %100
7	M9	X	0	0	0 %100





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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
8	M9	Z	-4.948	-4.948	0 %100
9	MP1A	X	0	0	0 %100
10	MP1A	Z	-9.247	-9.247	0 %100
11	MP2A	X	0	0	0 %100
12	MP2A	Z	-9.247	-9.247	0 %100
13	MP3A	X	0	0	0 %100
14	MP3A	Z	-9.247	-9.247	0 %100
15	MP4A	X	0	0	0 %100
16	MP4A	Z	-9.247	-9.247	0 %100
17	M16	X	0	0	0 %100
18	M16	Z	0	0	0 %100
19	M17	X	0	0	0 %100
20	M17	Z	-3.416	-3.416	0 %100
21	M19A	X	0	0	0 %100
22	M19A	Z	-8.733	-8.733	0 %100
23	M21A	X	0	0	0 %100
24	M21A	Z	-19.791	-19.791	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	-4.948	-4.948	0 %100
27	MP1C	X	0	0	0 %100
28	MP1C	Z	-9.247	-9.247	0 %100
29	MP2C	X	0	0	0 %100
30	MP2C	Z	-9.247	-9.247	0 %100
31	MP3C	X	0	0	0 %100
32	MP3C	Z	-9.247	-9.247	0 %100
33	MP4C	X	0	0	0 %100
34	MP4C	Z	-9.247	-9.247	0 %100
35	M32	X	0	0	0 %100
36	M32	Z	-9.375	-9.375	0 %100
37	M33	X	0	0	0 %100
38	M33	Z	-3.416	-3.416	0 %100
39	M35	X	0	0	0 %100
40	M35	Z	-8.733	-8.733	0 %100
41	M37	X	0	0	0 %100
42	M37	Z	-4.948	-4.948	0 %100
43	M39	X	0	0	0 %100
44	M39	Z	-19.791	-19.791	0 %100
45	MP1B	X	0	0	0 %100
46	MP1B	Z	-9.247	-9.247	0 %100
47	MP2B	X	0	0	0 %100
48	MP2B	Z	-9.247	-9.247	0 %100
49	MP3B	X	0	0	0 %100
50	MP3B	Z	-9.247	-9.247	0 %100
51	MP4B	X	0	0	0 %100
52	MP4B	Z	-9.247	-9.247	0 %100
53	M48	X	0	0	0 %100
54	M48	Z	-9.375	-9.375	0 %100
55	M49	X	0	0	0 %100
56	M49	Z	-2.088	-2.088	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	-8.354	-8.354	0 %100
59	M51	X	0	0	0 %100
60	M51	Z	-2.088	-2.088	0 %100
61	OVP	X	0	0	0 %100
62	OVP	Z	-7.562	-7.562	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	-11.194	-11.194	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
65	M61	X	0	0	0 %100
66	M61	Z	-2.798	-2.798	0 %100
67	M68	X	0	0	0 %100
68	M68	Z	-2.798	-2.798	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	-15.788	-15.788	0 %100
71	M76	X	0	0	0 %100
72	M76	Z	-3.947	-3.947	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	-3.947	-3.947	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	5.123	5.123	0 %100
2	FACE	Z	-8.874	-8.874	0 %100
3	M3	X	1.456	1.456	0 %100
4	M3	Z	-2.521	-2.521	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	7.422	7.422	0 %100
8	M9	Z	-12.855	-12.855	0 %100
9	MP1A	X	4.623	4.623	0 %100
10	MP1A	Z	-8.008	-8.008	0 %100
11	MP2A	X	4.623	4.623	0 %100
12	MP2A	Z	-8.008	-8.008	0 %100
13	MP3A	X	4.623	4.623	0 %100
14	MP3A	Z	-8.008	-8.008	0 %100
15	MP4A	X	4.623	4.623	0 %100
16	MP4A	Z	-8.008	-8.008	0 %100
17	M16	X	1.563	1.563	0 %100
18	M16	Z	-2.706	-2.706	0 %100
19	M17	X	5.123	5.123	0 %100
20	M17	Z	-8.874	-8.874	0 %100
21	M19A	X	1.456	1.456	0 %100
22	M19A	Z	-2.521	-2.521	0 %100
23	M21A	X	7.422	7.422	0 %100
24	M21A	Z	-12.855	-12.855	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	0	0	0 %100
27	MP1C	X	4.623	4.623	0 %100
28	MP1C	Z	-8.008	-8.008	0 %100
29	MP2C	X	4.623	4.623	0 %100
30	MP2C	Z	-8.008	-8.008	0 %100
31	MP3C	X	4.623	4.623	0 %100
32	MP3C	Z	-8.008	-8.008	0 %100
33	MP4C	X	4.623	4.623	0 %100
34	MP4C	Z	-8.008	-8.008	0 %100
35	M32	X	1.563	1.563	0 %100
36	M32	Z	-2.706	-2.706	0 %100
37	M33	X	0	0	0 %100
38	M33	Z	0	0	0 %100
39	M35	X	5.822	5.822	0 %100
40	M35	Z	-10.084	-10.084	0 %100
41	M37	X	7.422	7.422	0 %100
42	M37	Z	-12.855	-12.855	0 %100
43	M39	X	7.422	7.422	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
44	M39	Z	-12.855	-12.855	0 %100
45	MP1B	X	4.623	4.623	0 %100
46	MP1B	Z	-8.008	-8.008	0 %100
47	MP2B	X	4.623	4.623	0 %100
48	MP2B	Z	-8.008	-8.008	0 %100
49	MP3B	X	4.623	4.623	0 %100
50	MP3B	Z	-8.008	-8.008	0 %100
51	MP4B	X	4.623	4.623	0 %100
52	MP4B	Z	-8.008	-8.008	0 %100
53	M48	X	6.25	6.25	0 %100
54	M48	Z	-10.826	-10.826	0 %100
55	M49	X	3.133	3.133	0 %100
56	M49	Z	-5.426	-5.426	0 %100
57	M50	X	3.133	3.133	0 %100
58	M50	Z	-5.426	-5.426	0 %100
59	M51	X	0	0	0 %100
60	M51	Z	0	0	0 %100
61	OVP	X	3.781	3.781	0 %100
62	OVP	Z	-6.549	-6.549	0 %100
63	M54	X	4.198	4.198	0 %100
64	M54	Z	-7.271	-7.271	0 %100
65	M61	X	4.198	4.198	0 %100
66	M61	Z	-7.271	-7.271	0 %100
67	M68	X	0	0	0 %100
68	M68	Z	0	0	0 %100
69	M75	X	5.921	5.921	0 %100
70	M75	Z	-10.255	-10.255	0 %100
71	M76	X	5.921	5.921	0 %100
72	M76	Z	-10.255	-10.255	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	0	0	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	2.958	2.958	0 %100
2	FACE	Z	-1.708	-1.708	0 %100
3	M3	X	7.563	7.563	0 %100
4	M3	Z	-4.367	-4.367	0 %100
5	M7	X	4.285	4.285	0 %100
6	M7	Z	-2.474	-2.474	0 %100
7	M9	X	17.14	17.14	0 %100
8	M9	Z	-9.896	-9.896	0 %100
9	MP1A	X	8.008	8.008	0 %100
10	MP1A	Z	-4.623	-4.623	0 %100
11	MP2A	X	8.008	8.008	0 %100
12	MP2A	Z	-4.623	-4.623	0 %100
13	MP3A	X	8.008	8.008	0 %100
14	MP3A	Z	-4.623	-4.623	0 %100
15	MP4A	X	8.008	8.008	0 %100
16	MP4A	Z	-4.623	-4.623	0 %100
17	M16	X	8.119	8.119	0 %100
18	M16	Z	-4.688	-4.688	0 %100
19	M17	X	11.832	11.832	0 %100
20	M17	Z	-6.831	-6.831	0 %100
21	M19A	X	0	0	0 %100
22	M19A	Z	0	0	0 %100



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
23	M21A	X	4.285	4.285	0	%100
24	M21A	Z	-2.474	-2.474	0	%100
25	M23	X	4.285	4.285	0	%100
26	M23	Z	-2.474	-2.474	0	%100
27	MP1C	X	8.008	8.008	0	%100
28	MP1C	Z	-4.623	-4.623	0	%100
29	MP2C	X	8.008	8.008	0	%100
30	MP2C	Z	-4.623	-4.623	0	%100
31	MP3C	X	8.008	8.008	0	%100
32	MP3C	Z	-4.623	-4.623	0	%100
33	MP4C	X	8.008	8.008	0	%100
34	MP4C	Z	-4.623	-4.623	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M33	X	2.958	2.958	0	%100
38	M33	Z	-1.708	-1.708	0	%100
39	M35	X	7.563	7.563	0	%100
40	M35	Z	-4.367	-4.367	0	%100
41	M37	X	17.14	17.14	0	%100
42	M37	Z	-9.896	-9.896	0	%100
43	M39	X	4.285	4.285	0	%100
44	M39	Z	-2.474	-2.474	0	%100
45	MP1B	X	8.008	8.008	0	%100
46	MP1B	Z	-4.623	-4.623	0	%100
47	MP2B	X	8.008	8.008	0	%100
48	MP2B	Z	-4.623	-4.623	0	%100
49	MP3B	X	8.008	8.008	0	%100
50	MP3B	Z	-4.623	-4.623	0	%100
51	MP4B	X	8.008	8.008	0	%100
52	MP4B	Z	-4.623	-4.623	0	%100
53	M48	X	8.119	8.119	0	%100
54	M48	Z	-4.688	-4.688	0	%100
55	M49	X	7.235	7.235	0	%100
56	M49	Z	-4.177	-4.177	0	%100
57	M50	X	1.809	1.809	0	%100
58	M50	Z	-1.044	-1.044	0	%100
59	M51	X	1.809	1.809	0	%100
60	M51	Z	-1.044	-1.044	0	%100
61	OVP	X	6.549	6.549	0	%100
62	OVP	Z	-3.781	-3.781	0	%100
63	M54	X	2.424	2.424	0	%100
64	M54	Z	-1.399	-1.399	0	%100
65	M61	X	9.694	9.694	0	%100
66	M61	Z	-5.597	-5.597	0	%100
67	M68	X	2.424	2.424	0	%100
68	M68	Z	-1.399	-1.399	0	%100
69	M75	X	3.418	3.418	0	%100
70	M75	Z	-1.974	-1.974	0	%100
71	M76	X	13.673	13.673	0	%100
72	M76	Z	-7.894	-7.894	0	%100
73	M77	X	3.418	3.418	0	%100
74	M77	Z	-1.973	-1.973	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
1	FACE	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
2	FACE	Z	0	0	%100
3	M3	X	11.644	11.644	0
4	M3	Z	0	0	%100
5	M7	X	14.844	14.844	0
6	M7	Z	0	0	%100
7	M9	X	14.844	14.844	0
8	M9	Z	0	0	%100
9	MP1A	X	9.247	9.247	0
10	MP1A	Z	0	0	%100
11	MP2A	X	9.247	9.247	0
12	MP2A	Z	0	0	%100
13	MP3A	X	9.247	9.247	0
14	MP3A	Z	0	0	%100
15	MP4A	X	9.247	9.247	0
16	MP4A	Z	0	0	%100
17	M16	X	12.501	12.501	0
18	M16	Z	0	0	%100
19	M17	X	10.247	10.247	0
20	M17	Z	0	0	%100
21	M19A	X	2.911	2.911	0
22	M19A	Z	0	0	%100
23	M21A	X	0	0	%100
24	M21A	Z	0	0	%100
25	M23	X	14.844	14.844	0
26	M23	Z	0	0	%100
27	MP1C	X	9.247	9.247	0
28	MP1C	Z	0	0	%100
29	MP2C	X	9.247	9.247	0
30	MP2C	Z	0	0	%100
31	MP3C	X	9.247	9.247	0
32	MP3C	Z	0	0	%100
33	MP4C	X	9.247	9.247	0
34	MP4C	Z	0	0	%100
35	M32	X	3.125	3.125	0
36	M32	Z	0	0	%100
37	M33	X	10.247	10.247	0
38	M33	Z	0	0	%100
39	M35	X	2.911	2.911	0
40	M35	Z	0	0	%100
41	M37	X	14.844	14.844	0
42	M37	Z	0	0	%100
43	M39	X	0	0	%100
44	M39	Z	0	0	%100
45	MP1B	X	9.247	9.247	0
46	MP1B	Z	0	0	%100
47	MP2B	X	9.247	9.247	0
48	MP2B	Z	0	0	%100
49	MP3B	X	9.247	9.247	0
50	MP3B	Z	0	0	%100
51	MP4B	X	9.247	9.247	0
52	MP4B	Z	0	0	%100
53	M48	X	3.125	3.125	0
54	M48	Z	0	0	%100
55	M49	X	6.265	6.265	0
56	M49	Z	0	0	%100
57	M50	X	0	0	%100
58	M50	Z	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
59	M51	X	6.265	6.265	0 %100
60	M51	Z	0	0	0 %100
61	OVP	X	7.562	7.562	0 %100
62	OVP	Z	0	0	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	0	0	0 %100
65	M61	X	8.395	8.395	0 %100
66	M61	Z	0	0	0 %100
67	M68	X	8.395	8.395	0 %100
68	M68	Z	0	0	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	0	0	0 %100
71	M76	X	11.841	11.841	0 %100
72	M76	Z	0	0	0 %100
73	M77	X	11.841	11.841	0 %100
74	M77	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	2.958	2.958	0 %100
2	FACE	Z	1.708	1.708	0 %100
3	M3	X	7.563	7.563	0 %100
4	M3	Z	4.367	4.367	0 %100
5	M7	X	17.14	17.14	0 %100
6	M7	Z	9.896	9.896	0 %100
7	M9	X	4.285	4.285	0 %100
8	M9	Z	2.474	2.474	0 %100
9	MP1A	X	8.008	8.008	0 %100
10	MP1A	Z	4.623	4.623	0 %100
11	MP2A	X	8.008	8.008	0 %100
12	MP2A	Z	4.623	4.623	0 %100
13	MP3A	X	8.008	8.008	0 %100
14	MP3A	Z	4.623	4.623	0 %100
15	MP4A	X	8.008	8.008	0 %100
16	MP4A	Z	4.623	4.623	0 %100
17	M16	X	8.119	8.119	0 %100
18	M16	Z	4.688	4.688	0 %100
19	M17	X	2.958	2.958	0 %100
20	M17	Z	1.708	1.708	0 %100
21	M19A	X	7.563	7.563	0 %100
22	M19A	Z	4.367	4.367	0 %100
23	M21A	X	4.285	4.285	0 %100
24	M21A	Z	2.474	2.474	0 %100
25	M23	X	17.14	17.14	0 %100
26	M23	Z	9.896	9.896	0 %100
27	MP1C	X	8.008	8.008	0 %100
28	MP1C	Z	4.623	4.623	0 %100
29	MP2C	X	8.008	8.008	0 %100
30	MP2C	Z	4.623	4.623	0 %100
31	MP3C	X	8.008	8.008	0 %100
32	MP3C	Z	4.623	4.623	0 %100
33	MP4C	X	8.008	8.008	0 %100
34	MP4C	Z	4.623	4.623	0 %100
35	M32	X	8.119	8.119	0 %100
36	M32	Z	4.688	4.688	0 %100
37	M33	X	11.832	11.832	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
38	M33	Z	6.831	6.831	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	0	0	0	%100
41	M37	X	4.285	4.285	0	%100
42	M37	Z	2.474	2.474	0	%100
43	M39	X	4.285	4.285	0	%100
44	M39	Z	2.474	2.474	0	%100
45	MP1B	X	8.008	8.008	0	%100
46	MP1B	Z	4.623	4.623	0	%100
47	MP2B	X	8.008	8.008	0	%100
48	MP2B	Z	4.623	4.623	0	%100
49	MP3B	X	8.008	8.008	0	%100
50	MP3B	Z	4.623	4.623	0	%100
51	MP4B	X	8.008	8.008	0	%100
52	MP4B	Z	4.623	4.623	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	1.809	1.809	0	%100
56	M49	Z	1.044	1.044	0	%100
57	M50	X	1.809	1.809	0	%100
58	M50	Z	1.044	1.044	0	%100
59	M51	X	7.235	7.235	0	%100
60	M51	Z	4.177	4.177	0	%100
61	OVP	X	6.549	6.549	0	%100
62	OVP	Z	3.781	3.781	0	%100
63	M54	X	2.424	2.424	0	%100
64	M54	Z	1.399	1.399	0	%100
65	M61	X	2.424	2.424	0	%100
66	M61	Z	1.399	1.399	0	%100
67	M68	X	9.694	9.694	0	%100
68	M68	Z	5.597	5.597	0	%100
69	M75	X	3.418	3.418	0	%100
70	M75	Z	1.973	1.973	0	%100
71	M76	X	3.418	3.418	0	%100
72	M76	Z	1.974	1.974	0	%100
73	M77	X	13.673	13.673	0	%100
74	M77	Z	7.894	7.894	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	5.123	5.123	0	%100
2	FACE	Z	8.874	8.874	0	%100
3	M3	X	1.456	1.456	0	%100
4	M3	Z	2.521	2.521	0	%100
5	M7	X	7.422	7.422	0	%100
6	M7	Z	12.855	12.855	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	4.623	4.623	0	%100
10	MP1A	Z	8.008	8.008	0	%100
11	MP2A	X	4.623	4.623	0	%100
12	MP2A	Z	8.008	8.008	0	%100
13	MP3A	X	4.623	4.623	0	%100
14	MP3A	Z	8.008	8.008	0	%100
15	MP4A	X	4.623	4.623	0	%100
16	MP4A	Z	8.008	8.008	0	%100



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
17	M16	X	1.563	1.563	0	%100
18	M16	Z	2.706	2.706	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M19A	X	5.822	5.822	0	%100
22	M19A	Z	10.084	10.084	0	%100
23	M21A	X	7.422	7.422	0	%100
24	M21A	Z	12.855	12.855	0	%100
25	M23	X	7.422	7.422	0	%100
26	M23	Z	12.855	12.855	0	%100
27	MP1C	X	4.623	4.623	0	%100
28	MP1C	Z	8.008	8.008	0	%100
29	MP2C	X	4.623	4.623	0	%100
30	MP2C	Z	8.008	8.008	0	%100
31	MP3C	X	4.623	4.623	0	%100
32	MP3C	Z	8.008	8.008	0	%100
33	MP4C	X	4.623	4.623	0	%100
34	MP4C	Z	8.008	8.008	0	%100
35	M32	X	6.25	6.25	0	%100
36	M32	Z	10.826	10.826	0	%100
37	M33	X	5.123	5.123	0	%100
38	M33	Z	8.874	8.874	0	%100
39	M35	X	1.456	1.456	0	%100
40	M35	Z	2.521	2.521	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M39	X	7.422	7.422	0	%100
44	M39	Z	12.855	12.855	0	%100
45	MP1B	X	4.623	4.623	0	%100
46	MP1B	Z	8.008	8.008	0	%100
47	MP2B	X	4.623	4.623	0	%100
48	MP2B	Z	8.008	8.008	0	%100
49	MP3B	X	4.623	4.623	0	%100
50	MP3B	Z	8.008	8.008	0	%100
51	MP4B	X	4.623	4.623	0	%100
52	MP4B	Z	8.008	8.008	0	%100
53	M48	X	1.563	1.563	0	%100
54	M48	Z	2.706	2.706	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	3.133	3.133	0	%100
58	M50	Z	5.426	5.426	0	%100
59	M51	X	3.133	3.133	0	%100
60	M51	Z	5.426	5.426	0	%100
61	OVP	X	3.781	3.781	0	%100
62	OVP	Z	6.549	6.549	0	%100
63	M54	X	4.198	4.198	0	%100
64	M54	Z	7.271	7.271	0	%100
65	M61	X	0	0	0	%100
66	M61	Z	0	0	0	%100
67	M68	X	4.198	4.198	0	%100
68	M68	Z	7.271	7.271	0	%100
69	M75	X	5.921	5.921	0	%100
70	M75	Z	10.255	10.255	0	%100
71	M76	X	0	0	0	%100
72	M76	Z	0	0	0	%100
73	M77	X	5.921	5.921	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
74	M77	Z	10.255	10.255	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	0	0	%100
2	FACE	Z	13.662	13.662	0 %100
3	M3	X	0	0	%100
4	M3	Z	0	0	%100
5	M7	X	0	0	%100
6	M7	Z	4.948	4.948	0 %100
7	M9	X	0	0	%100
8	M9	Z	4.948	4.948	0 %100
9	MP1A	X	0	0	%100
10	MP1A	Z	9.247	9.247	0 %100
11	MP2A	X	0	0	%100
12	MP2A	Z	9.247	9.247	0 %100
13	MP3A	X	0	0	%100
14	MP3A	Z	9.247	9.247	0 %100
15	MP4A	X	0	0	%100
16	MP4A	Z	9.247	9.247	0 %100
17	M16	X	0	0	%100
18	M16	Z	0	0	%100
19	M17	X	0	0	%100
20	M17	Z	3.416	3.416	0 %100
21	M19A	X	0	0	%100
22	M19A	Z	8.733	8.733	0 %100
23	M21A	X	0	0	%100
24	M21A	Z	19.791	19.791	0 %100
25	M23	X	0	0	%100
26	M23	Z	4.948	4.948	0 %100
27	MP1C	X	0	0	%100
28	MP1C	Z	9.247	9.247	0 %100
29	MP2C	X	0	0	%100
30	MP2C	Z	9.247	9.247	0 %100
31	MP3C	X	0	0	%100
32	MP3C	Z	9.247	9.247	0 %100
33	MP4C	X	0	0	%100
34	MP4C	Z	9.247	9.247	0 %100
35	M32	X	0	0	%100
36	M32	Z	9.375	9.375	0 %100
37	M33	X	0	0	%100
38	M33	Z	3.416	3.416	0 %100
39	M35	X	0	0	%100
40	M35	Z	8.733	8.733	0 %100
41	M37	X	0	0	%100
42	M37	Z	4.948	4.948	0 %100
43	M39	X	0	0	%100
44	M39	Z	19.791	19.791	0 %100
45	MP1B	X	0	0	%100
46	MP1B	Z	9.247	9.247	0 %100
47	MP2B	X	0	0	%100
48	MP2B	Z	9.247	9.247	0 %100
49	MP3B	X	0	0	%100
50	MP3B	Z	9.247	9.247	0 %100
51	MP4B	X	0	0	%100
52	MP4B	Z	9.247	9.247	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
53	M48	X	0	0	0 %100
54	M48	Z	9.375	9.375	0 %100
55	M49	X	0	0	0 %100
56	M49	Z	2.088	2.088	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	8.354	8.354	0 %100
59	M51	X	0	0	0 %100
60	M51	Z	2.088	2.088	0 %100
61	OVP	X	0	0	0 %100
62	OVP	Z	7.562	7.562	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	11.194	11.194	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	2.798	2.798	0 %100
67	M68	X	0	0	0 %100
68	M68	Z	2.798	2.798	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	15.788	15.788	0 %100
71	M76	X	0	0	0 %100
72	M76	Z	3.947	3.947	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	3.947	3.947	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	-5.123	-5.123	0 %100
2	FACE	Z	8.874	8.874	0 %100
3	M3	X	-1.456	-1.456	0 %100
4	M3	Z	2.521	2.521	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	-7.422	-7.422	0 %100
8	M9	Z	12.855	12.855	0 %100
9	MP1A	X	-4.623	-4.623	0 %100
10	MP1A	Z	8.008	8.008	0 %100
11	MP2A	X	-4.623	-4.623	0 %100
12	MP2A	Z	8.008	8.008	0 %100
13	MP3A	X	-4.623	-4.623	0 %100
14	MP3A	Z	8.008	8.008	0 %100
15	MP4A	X	-4.623	-4.623	0 %100
16	MP4A	Z	8.008	8.008	0 %100
17	M16	X	-1.563	-1.563	0 %100
18	M16	Z	2.706	2.706	0 %100
19	M17	X	-5.123	-5.123	0 %100
20	M17	Z	8.874	8.874	0 %100
21	M19A	X	-1.456	-1.456	0 %100
22	M19A	Z	2.521	2.521	0 %100
23	M21A	X	-7.422	-7.422	0 %100
24	M21A	Z	12.855	12.855	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	0	0	0 %100
27	MP1C	X	-4.623	-4.623	0 %100
28	MP1C	Z	8.008	8.008	0 %100
29	MP2C	X	-4.623	-4.623	0 %100
30	MP2C	Z	8.008	8.008	0 %100
31	MP3C	X	-4.623	-4.623	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
32	MP3C	Z	8.008	8.008	0	%100
33	MP4C	X	-4.623	-4.623	0	%100
34	MP4C	Z	8.008	8.008	0	%100
35	M32	X	-1.563	-1.563	0	%100
36	M32	Z	2.706	2.706	0	%100
37	M33	X	0	0	0	%100
38	M33	Z	0	0	0	%100
39	M35	X	-5.822	-5.822	0	%100
40	M35	Z	10.084	10.084	0	%100
41	M37	X	-7.422	-7.422	0	%100
42	M37	Z	12.855	12.855	0	%100
43	M39	X	-7.422	-7.422	0	%100
44	M39	Z	12.855	12.855	0	%100
45	MP1B	X	-4.623	-4.623	0	%100
46	MP1B	Z	8.008	8.008	0	%100
47	MP2B	X	-4.623	-4.623	0	%100
48	MP2B	Z	8.008	8.008	0	%100
49	MP3B	X	-4.623	-4.623	0	%100
50	MP3B	Z	8.008	8.008	0	%100
51	MP4B	X	-4.623	-4.623	0	%100
52	MP4B	Z	8.008	8.008	0	%100
53	M48	X	-6.25	-6.25	0	%100
54	M48	Z	10.826	10.826	0	%100
55	M49	X	-3.133	-3.133	0	%100
56	M49	Z	5.426	5.426	0	%100
57	M50	X	-3.133	-3.133	0	%100
58	M50	Z	5.426	5.426	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	OVP	X	-3.781	-3.781	0	%100
62	OVP	Z	6.549	6.549	0	%100
63	M54	X	-4.198	-4.198	0	%100
64	M54	Z	7.271	7.271	0	%100
65	M61	X	-4.198	-4.198	0	%100
66	M61	Z	7.271	7.271	0	%100
67	M68	X	0	0	0	%100
68	M68	Z	0	0	0	%100
69	M75	X	-5.921	-5.921	0	%100
70	M75	Z	10.255	10.255	0	%100
71	M76	X	-5.921	-5.921	0	%100
72	M76	Z	10.255	10.255	0	%100
73	M77	X	0	0	0	%100
74	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	-2.958	-2.958	0	%100
2	FACE	Z	1.708	1.708	0	%100
3	M3	X	-7.563	-7.563	0	%100
4	M3	Z	4.367	4.367	0	%100
5	M7	X	-4.285	-4.285	0	%100
6	M7	Z	2.474	2.474	0	%100
7	M9	X	-17.14	-17.14	0	%100
8	M9	Z	9.896	9.896	0	%100
9	MP1A	X	-8.008	-8.008	0	%100
10	MP1A	Z	4.623	4.623	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
11	MP2A	X	-8.008	-8.008	0	%100
12	MP2A	Z	4.623	4.623	0	%100
13	MP3A	X	-8.008	-8.008	0	%100
14	MP3A	Z	4.623	4.623	0	%100
15	MP4A	X	-8.008	-8.008	0	%100
16	MP4A	Z	4.623	4.623	0	%100
17	M16	X	-8.119	-8.119	0	%100
18	M16	Z	4.688	4.688	0	%100
19	M17	X	-11.832	-11.832	0	%100
20	M17	Z	6.831	6.831	0	%100
21	M19A	X	0	0	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	-4.285	-4.285	0	%100
24	M21A	Z	2.474	2.474	0	%100
25	M23	X	-4.285	-4.285	0	%100
26	M23	Z	2.474	2.474	0	%100
27	MP1C	X	-8.008	-8.008	0	%100
28	MP1C	Z	4.623	4.623	0	%100
29	MP2C	X	-8.008	-8.008	0	%100
30	MP2C	Z	4.623	4.623	0	%100
31	MP3C	X	-8.008	-8.008	0	%100
32	MP3C	Z	4.623	4.623	0	%100
33	MP4C	X	-8.008	-8.008	0	%100
34	MP4C	Z	4.623	4.623	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M33	X	-2.958	-2.958	0	%100
38	M33	Z	1.708	1.708	0	%100
39	M35	X	-7.563	-7.563	0	%100
40	M35	Z	4.367	4.367	0	%100
41	M37	X	-17.14	-17.14	0	%100
42	M37	Z	9.896	9.896	0	%100
43	M39	X	-4.285	-4.285	0	%100
44	M39	Z	2.474	2.474	0	%100
45	MP1B	X	-8.008	-8.008	0	%100
46	MP1B	Z	4.623	4.623	0	%100
47	MP2B	X	-8.008	-8.008	0	%100
48	MP2B	Z	4.623	4.623	0	%100
49	MP3B	X	-8.008	-8.008	0	%100
50	MP3B	Z	4.623	4.623	0	%100
51	MP4B	X	-8.008	-8.008	0	%100
52	MP4B	Z	4.623	4.623	0	%100
53	M48	X	-8.119	-8.119	0	%100
54	M48	Z	4.688	4.688	0	%100
55	M49	X	-7.235	-7.235	0	%100
56	M49	Z	4.177	4.177	0	%100
57	M50	X	-1.809	-1.809	0	%100
58	M50	Z	1.044	1.044	0	%100
59	M51	X	-1.809	-1.809	0	%100
60	M51	Z	1.044	1.044	0	%100
61	OVP	X	-6.549	-6.549	0	%100
62	OVP	Z	3.781	3.781	0	%100
63	M54	X	-2.424	-2.424	0	%100
64	M54	Z	1.399	1.399	0	%100
65	M61	X	-9.694	-9.694	0	%100
66	M61	Z	5.597	5.597	0	%100
67	M68	X	-2.424	-2.424	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
68	M68	Z	1.399	1.399	0	%100
69	M75	X	-3.418	-3.418	0	%100
70	M75	Z	1.974	1.974	0	%100
71	M76	X	-13.673	-13.673	0	%100
72	M76	Z	7.894	7.894	0	%100
73	M77	X	-3.418	-3.418	0	%100
74	M77	Z	1.973	1.973	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M3	X	-11.644	-11.644	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	-14.844	-14.844	0	%100
6	M7	Z	0	0	0	%100
7	M9	X	-14.844	-14.844	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	-9.247	-9.247	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	-9.247	-9.247	0	%100
12	MP2A	Z	0	0	0	%100
13	MP3A	X	-9.247	-9.247	0	%100
14	MP3A	Z	0	0	0	%100
15	MP4A	X	-9.247	-9.247	0	%100
16	MP4A	Z	0	0	0	%100
17	M16	X	-12.501	-12.501	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	-10.247	-10.247	0	%100
20	M17	Z	0	0	0	%100
21	M19A	X	-2.911	-2.911	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	0	0	0	%100
24	M21A	Z	0	0	0	%100
25	M23	X	-14.844	-14.844	0	%100
26	M23	Z	0	0	0	%100
27	MP1C	X	-9.247	-9.247	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	-9.247	-9.247	0	%100
30	MP2C	Z	0	0	0	%100
31	MP3C	X	-9.247	-9.247	0	%100
32	MP3C	Z	0	0	0	%100
33	MP4C	X	-9.247	-9.247	0	%100
34	MP4C	Z	0	0	0	%100
35	M32	X	-3.125	-3.125	0	%100
36	M32	Z	0	0	0	%100
37	M33	X	-10.247	-10.247	0	%100
38	M33	Z	0	0	0	%100
39	M35	X	-2.911	-2.911	0	%100
40	M35	Z	0	0	0	%100
41	M37	X	-14.844	-14.844	0	%100
42	M37	Z	0	0	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	0	%100
45	MP1B	X	-9.247	-9.247	0	%100
46	MP1B	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
47	MP2B	X	-9.247	-9.247	0 %100
48	MP2B	Z	0	0	0 %100
49	MP3B	X	-9.247	-9.247	0 %100
50	MP3B	Z	0	0	0 %100
51	MP4B	X	-9.247	-9.247	0 %100
52	MP4B	Z	0	0	0 %100
53	M48	X	-3.125	-3.125	0 %100
54	M48	Z	0	0	0 %100
55	M49	X	-6.265	-6.265	0 %100
56	M49	Z	0	0	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	0	0	0 %100
59	M51	X	-6.265	-6.265	0 %100
60	M51	Z	0	0	0 %100
61	OVP	X	-7.562	-7.562	0 %100
62	OVP	Z	0	0	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	0	0	0 %100
65	M61	X	-8.395	-8.395	0 %100
66	M61	Z	0	0	0 %100
67	M68	X	-8.395	-8.395	0 %100
68	M68	Z	0	0	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	0	0	0 %100
71	M76	X	-11.841	-11.841	0 %100
72	M76	Z	0	0	0 %100
73	M77	X	-11.841	-11.841	0 %100
74	M77	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	-2.958	-2.958	0 %100
2	FACE	Z	-1.708	-1.708	0 %100
3	M3	X	-7.563	-7.563	0 %100
4	M3	Z	-4.367	-4.367	0 %100
5	M7	X	-17.14	-17.14	0 %100
6	M7	Z	-9.896	-9.896	0 %100
7	M9	X	-4.285	-4.285	0 %100
8	M9	Z	-2.474	-2.474	0 %100
9	MP1A	X	-8.008	-8.008	0 %100
10	MP1A	Z	-4.623	-4.623	0 %100
11	MP2A	X	-8.008	-8.008	0 %100
12	MP2A	Z	-4.623	-4.623	0 %100
13	MP3A	X	-8.008	-8.008	0 %100
14	MP3A	Z	-4.623	-4.623	0 %100
15	MP4A	X	-8.008	-8.008	0 %100
16	MP4A	Z	-4.623	-4.623	0 %100
17	M16	X	-8.119	-8.119	0 %100
18	M16	Z	-4.688	-4.688	0 %100
19	M17	X	-2.958	-2.958	0 %100
20	M17	Z	-1.708	-1.708	0 %100
21	M19A	X	-7.563	-7.563	0 %100
22	M19A	Z	-4.367	-4.367	0 %100
23	M21A	X	-4.285	-4.285	0 %100
24	M21A	Z	-2.474	-2.474	0 %100
25	M23	X	-17.14	-17.14	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
26	M23	Z	-9.896	-9.896	0 %100
27	MP1C	X	-8.008	-8.008	0 %100
28	MP1C	Z	-4.623	-4.623	0 %100
29	MP2C	X	-8.008	-8.008	0 %100
30	MP2C	Z	-4.623	-4.623	0 %100
31	MP3C	X	-8.008	-8.008	0 %100
32	MP3C	Z	-4.623	-4.623	0 %100
33	MP4C	X	-8.008	-8.008	0 %100
34	MP4C	Z	-4.623	-4.623	0 %100
35	M32	X	-8.119	-8.119	0 %100
36	M32	Z	-4.688	-4.688	0 %100
37	M33	X	-11.832	-11.832	0 %100
38	M33	Z	-6.831	-6.831	0 %100
39	M35	X	0	0	0 %100
40	M35	Z	0	0	0 %100
41	M37	X	-4.285	-4.285	0 %100
42	M37	Z	-2.474	-2.474	0 %100
43	M39	X	-4.285	-4.285	0 %100
44	M39	Z	-2.474	-2.474	0 %100
45	MP1B	X	-8.008	-8.008	0 %100
46	MP1B	Z	-4.623	-4.623	0 %100
47	MP2B	X	-8.008	-8.008	0 %100
48	MP2B	Z	-4.623	-4.623	0 %100
49	MP3B	X	-8.008	-8.008	0 %100
50	MP3B	Z	-4.623	-4.623	0 %100
51	MP4B	X	-8.008	-8.008	0 %100
52	MP4B	Z	-4.623	-4.623	0 %100
53	M48	X	0	0	0 %100
54	M48	Z	0	0	0 %100
55	M49	X	-1.809	-1.809	0 %100
56	M49	Z	-1.044	-1.044	0 %100
57	M50	X	-1.809	-1.809	0 %100
58	M50	Z	-1.044	-1.044	0 %100
59	M51	X	-7.235	-7.235	0 %100
60	M51	Z	-4.177	-4.177	0 %100
61	OVP	X	-6.549	-6.549	0 %100
62	OVP	Z	-3.781	-3.781	0 %100
63	M54	X	-2.424	-2.424	0 %100
64	M54	Z	-1.399	-1.399	0 %100
65	M61	X	-2.424	-2.424	0 %100
66	M61	Z	-1.399	-1.399	0 %100
67	M68	X	-9.694	-9.694	0 %100
68	M68	Z	-5.597	-5.597	0 %100
69	M75	X	-3.418	-3.418	0 %100
70	M75	Z	-1.973	-1.973	0 %100
71	M76	X	-3.418	-3.418	0 %100
72	M76	Z	-1.974	-1.974	0 %100
73	M77	X	-13.673	-13.673	0 %100
74	M77	Z	-7.894	-7.894	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	-5.123	-5.123	0 %100
2	FACE	Z	-8.874	-8.874	0 %100
3	M3	X	-1.456	-1.456	0 %100
4	M3	Z	-2.521	-2.521	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
5	M7	X	-7.422	0 %100
6	M7	Z	-12.855	0 %100
7	M9	X	0	0 %100
8	M9	Z	0	0 %100
9	MP1A	X	-4.623	0 %100
10	MP1A	Z	-8.008	0 %100
11	MP2A	X	-4.623	0 %100
12	MP2A	Z	-8.008	0 %100
13	MP3A	X	-4.623	0 %100
14	MP3A	Z	-8.008	0 %100
15	MP4A	X	-4.623	0 %100
16	MP4A	Z	-8.008	0 %100
17	M16	X	-1.563	0 %100
18	M16	Z	-2.706	0 %100
19	M17	X	0	0 %100
20	M17	Z	0	0 %100
21	M19A	X	-5.822	0 %100
22	M19A	Z	-10.084	0 %100
23	M21A	X	-7.422	0 %100
24	M21A	Z	-12.855	0 %100
25	M23	X	-7.422	0 %100
26	M23	Z	-12.855	0 %100
27	MP1C	X	-4.623	0 %100
28	MP1C	Z	-8.008	0 %100
29	MP2C	X	-4.623	0 %100
30	MP2C	Z	-8.008	0 %100
31	MP3C	X	-4.623	0 %100
32	MP3C	Z	-8.008	0 %100
33	MP4C	X	-4.623	0 %100
34	MP4C	Z	-8.008	0 %100
35	M32	X	-6.25	0 %100
36	M32	Z	-10.826	0 %100
37	M33	X	-5.123	0 %100
38	M33	Z	-8.874	0 %100
39	M35	X	-1.456	0 %100
40	M35	Z	-2.521	0 %100
41	M37	X	0	0 %100
42	M37	Z	0	0 %100
43	M39	X	-7.422	0 %100
44	M39	Z	-12.855	0 %100
45	MP1B	X	-4.623	0 %100
46	MP1B	Z	-8.008	0 %100
47	MP2B	X	-4.623	0 %100
48	MP2B	Z	-8.008	0 %100
49	MP3B	X	-4.623	0 %100
50	MP3B	Z	-8.008	0 %100
51	MP4B	X	-4.623	0 %100
52	MP4B	Z	-8.008	0 %100
53	M48	X	-1.563	0 %100
54	M48	Z	-2.706	0 %100
55	M49	X	0	0 %100
56	M49	Z	0	0 %100
57	M50	X	-3.133	0 %100
58	M50	Z	-5.426	0 %100
59	M51	X	-3.133	0 %100
60	M51	Z	-5.426	0 %100
61	OVP	X	-3.781	0 %100





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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
62	OVP	Z	-6.549	0	%100
63	M54	X	-4.198	0	%100
64	M54	Z	-7.271	0	%100
65	M61	X	0	0	%100
66	M61	Z	0	0	%100
67	M68	X	-4.198	0	%100
68	M68	Z	-7.271	0	%100
69	M75	X	-5.921	0	%100
70	M75	Z	-10.255	0	%100
71	M76	X	0	0	%100
72	M76	Z	0	0	%100
73	M77	X	-5.921	0	%100
74	M77	Z	-10.255	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	0	0	%100
2	FACE	Z	-5.511	0	%100
3	M3	X	0	0	%100
4	M3	Z	0	0	%100
5	M7	X	0	0	%100
6	M7	Z	-1.427	0	%100
7	M9	X	0	0	%100
8	M9	Z	-1.427	0	%100
9	MP1A	X	0	0	%100
10	MP1A	Z	-4.108	0	%100
11	MP2A	X	0	0	%100
12	MP2A	Z	-4.19	0	%100
13	MP3A	X	0	0	%100
14	MP3A	Z	-4.19	0	%100
15	MP4A	X	0	0	%100
16	MP4A	Z	-3.999	0	%100
17	M16	X	0	0	%100
18	M16	Z	0	0	%100
19	M17	X	0	0	%100
20	M17	Z	-1.378	0	%100
21	M19A	X	0	0	%100
22	M19A	Z	-2.961	0	%100
23	M21A	X	0	0	%100
24	M21A	Z	-5.706	0	%100
25	M23	X	0	0	%100
26	M23	Z	-1.427	0	%100
27	MP1C	X	0	0	%100
28	MP1C	Z	-4.108	0	%100
29	MP2C	X	0	0	%100
30	MP2C	Z	-4.19	0	%100
31	MP3C	X	0	0	%100
32	MP3C	Z	-4.19	0	%100
33	MP4C	X	0	0	%100
34	MP4C	Z	-3.999	0	%100
35	M32	X	0	0	%100
36	M32	Z	-3.225	0	%100
37	M33	X	0	0	%100
38	M33	Z	-1.378	0	%100
39	M35	X	0	0	%100
40	M35	Z	-2.961	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
41	M37	X	0	0	0 %100
42	M37	Z	-1.427	-1.427	0 %100
43	M39	X	0	0	0 %100
44	M39	Z	-5.706	-5.706	0 %100
45	MP1B	X	0	0	0 %100
46	MP1B	Z	-4.108	-4.108	0 %100
47	MP2B	X	0	0	0 %100
48	MP2B	Z	-4.19	-4.19	0 %100
49	MP3B	X	0	0	0 %100
50	MP3B	Z	-4.19	-4.19	0 %100
51	MP4B	X	0	0	0 %100
52	MP4B	Z	-3.999	-3.999	0 %100
53	M48	X	0	0	0 %100
54	M48	Z	-3.225	-3.225	0 %100
55	M49	X	0	0	0 %100
56	M49	Z	-.77	-.77	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	-3.08	-3.08	0 %100
59	M51	X	0	0	0 %100
60	M51	Z	-.77	-.77	0 %100
61	OVP	X	0	0	0 %100
62	OVP	Z	-3.299	-3.299	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	-4.683	-4.683	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	-1.171	-1.171	0 %100
67	M68	X	0	0	0 %100
68	M68	Z	-1.171	-1.171	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	-4.922	-4.922	0 %100
71	M76	X	0	0	0 %100
72	M76	Z	-1.23	-1.23	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	-1.23	-1.23	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	2.067	2.067	0 %100
2	FACE	Z	-3.58	-3.58	0 %100
3	M3	X	.493	.493	0 %100
4	M3	Z	-.855	-.855	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	2.14	2.14	0 %100
8	M9	Z	-3.706	-3.706	0 %100
9	MP1A	X	2.054	2.054	0 %100
10	MP1A	Z	-3.558	-3.558	0 %100
11	MP2A	X	2.095	2.095	0 %100
12	MP2A	Z	-3.629	-3.629	0 %100
13	MP3A	X	2.095	2.095	0 %100
14	MP3A	Z	-3.629	-3.629	0 %100
15	MP4A	X	2	2	0 %100
16	MP4A	Z	-3.463	-3.463	0 %100
17	M16	X	.538	.538	0 %100
18	M16	Z	-.931	-.931	0 %100
19	M17	X	2.067	2.067	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
20	M17	Z	-3.58	0	%100
21	M19A	X	.493	0	%100
22	M19A	Z	-.855	0	%100
23	M21A	X	2.14	0	%100
24	M21A	Z	-3.706	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	MP1C	X	2.054	0	%100
28	MP1C	Z	-3.558	0	%100
29	MP2C	X	2.095	0	%100
30	MP2C	Z	-3.629	0	%100
31	MP3C	X	2.095	0	%100
32	MP3C	Z	-3.629	0	%100
33	MP4C	X	2	0	%100
34	MP4C	Z	-3.463	0	%100
35	M32	X	.538	0	%100
36	M32	Z	-.931	0	%100
37	M33	X	0	0	%100
38	M33	Z	0	0	%100
39	M35	X	1.974	0	%100
40	M35	Z	-3.419	0	%100
41	M37	X	2.14	0	%100
42	M37	Z	-3.706	0	%100
43	M39	X	2.14	0	%100
44	M39	Z	-3.706	0	%100
45	MP1B	X	2.054	0	%100
46	MP1B	Z	-3.558	0	%100
47	MP2B	X	2.095	0	%100
48	MP2B	Z	-3.629	0	%100
49	MP3B	X	2.095	0	%100
50	MP3B	Z	-3.629	0	%100
51	MP4B	X	2	0	%100
52	MP4B	Z	-3.463	0	%100
53	M48	X	2.15	0	%100
54	M48	Z	-3.724	0	%100
55	M49	X	1.155	0	%100
56	M49	Z	-2	0	%100
57	M50	X	1.155	0	%100
58	M50	Z	-2	0	%100
59	M51	X	0	0	%100
60	M51	Z	0	0	%100
61	OVP	X	1.649	0	%100
62	OVP	Z	-2.857	0	%100
63	M54	X	1.756	0	%100
64	M54	Z	-3.042	0	%100
65	M61	X	1.756	0	%100
66	M61	Z	-3.042	0	%100
67	M68	X	0	0	%100
68	M68	Z	0	0	%100
69	M75	X	1.846	0	%100
70	M75	Z	-3.197	0	%100
71	M76	X	1.846	0	%100
72	M76	Z	-3.197	0	%100
73	M77	X	0	0	%100
74	M77	Z	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
1	FACE	X	1.193	1.193	0	%100
2	FACE	Z	-689	-689	0	%100
3	M3	X	2.564	2.564	0	%100
4	M3	Z	-1.48	-1.48	0	%100
5	M7	X	1.235	1.235	0	%100
6	M7	Z	-713	-713	0	%100
7	M9	X	4.942	4.942	0	%100
8	M9	Z	-2.853	-2.853	0	%100
9	MP1A	X	3.558	3.558	0	%100
10	MP1A	Z	-2.054	-2.054	0	%100
11	MP2A	X	3.629	3.629	0	%100
12	MP2A	Z	-2.095	-2.095	0	%100
13	MP3A	X	3.629	3.629	0	%100
14	MP3A	Z	-2.095	-2.095	0	%100
15	MP4A	X	3.463	3.463	0	%100
16	MP4A	Z	-2	-2	0	%100
17	M16	X	2.793	2.793	0	%100
18	M16	Z	-1.613	-1.613	0	%100
19	M17	X	4.773	4.773	0	%100
20	M17	Z	-2.756	-2.756	0	%100
21	M19A	X	0	0	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	1.235	1.235	0	%100
24	M21A	Z	-713	-713	0	%100
25	M23	X	1.235	1.235	0	%100
26	M23	Z	-713	-713	0	%100
27	MP1C	X	3.558	3.558	0	%100
28	MP1C	Z	-2.054	-2.054	0	%100
29	MP2C	X	3.629	3.629	0	%100
30	MP2C	Z	-2.095	-2.095	0	%100
31	MP3C	X	3.629	3.629	0	%100
32	MP3C	Z	-2.095	-2.095	0	%100
33	MP4C	X	3.463	3.463	0	%100
34	MP4C	Z	-2	-2	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100
37	M33	X	1.193	1.193	0	%100
38	M33	Z	-689	-689	0	%100
39	M35	X	2.564	2.564	0	%100
40	M35	Z	-1.48	-1.48	0	%100
41	M37	X	4.942	4.942	0	%100
42	M37	Z	-2.853	-2.853	0	%100
43	M39	X	1.235	1.235	0	%100
44	M39	Z	-713	-713	0	%100
45	MP1B	X	3.558	3.558	0	%100
46	MP1B	Z	-2.054	-2.054	0	%100
47	MP2B	X	3.629	3.629	0	%100
48	MP2B	Z	-2.095	-2.095	0	%100
49	MP3B	X	3.629	3.629	0	%100
50	MP3B	Z	-2.095	-2.095	0	%100
51	MP4B	X	3.463	3.463	0	%100
52	MP4B	Z	-2	-2	0	%100
53	M48	X	2.793	2.793	0	%100
54	M48	Z	-1.613	-1.613	0	%100
55	M49	X	2.667	2.667	0	%100
56	M49	Z	-1.54	-1.54	0	%100
57	M50	X	.667	.667	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
58	M50	Z	-.385	-.385	0	%100
59	M51	X	.667	.667	0	%100
60	M51	Z	-.385	-.385	0	%100
61	OVP	X	2.857	2.857	0	%100
62	OVP	Z	-1.649	-1.649	0	%100
63	M54	X	1.014	1.014	0	%100
64	M54	Z	-.585	-.585	0	%100
65	M61	X	4.056	4.056	0	%100
66	M61	Z	-2.342	-2.342	0	%100
67	M68	X	1.014	1.014	0	%100
68	M68	Z	-.585	-.585	0	%100
69	M75	X	1.066	1.066	0	%100
70	M75	Z	-.615	-.615	0	%100
71	M76	X	4.262	4.262	0	%100
72	M76	Z	-2.461	-2.461	0	%100
73	M77	X	1.066	1.066	0	%100
74	M77	Z	-.615	-.615	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	0	0	0	%100
2	FACE	Z	0	0	0	%100
3	M3	X	3.948	3.948	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	4.28	4.28	0	%100
6	M7	Z	0	0	0	%100
7	M9	X	4.28	4.28	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	4.108	4.108	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	4.19	4.19	0	%100
12	MP2A	Z	0	0	0	%100
13	MP3A	X	4.19	4.19	0	%100
14	MP3A	Z	0	0	0	%100
15	MP4A	X	3.999	3.999	0	%100
16	MP4A	Z	0	0	0	%100
17	M16	X	4.301	4.301	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	4.133	4.133	0	%100
20	M17	Z	0	0	0	%100
21	M19A	X	.987	.987	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	0	0	0	%100
24	M21A	Z	0	0	0	%100
25	M23	X	4.28	4.28	0	%100
26	M23	Z	0	0	0	%100
27	MP1C	X	4.108	4.108	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	4.19	4.19	0	%100
30	MP2C	Z	0	0	0	%100
31	MP3C	X	4.19	4.19	0	%100
32	MP3C	Z	0	0	0	%100
33	MP4C	X	3.999	3.999	0	%100
34	MP4C	Z	0	0	0	%100
35	M32	X	1.075	1.075	0	%100
36	M32	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
37	M33	X	4.133	4.133	0 %100
38	M33	Z	0	0	0 %100
39	M35	X	.987	.987	0 %100
40	M35	Z	0	0	0 %100
41	M37	X	4.28	4.28	0 %100
42	M37	Z	0	0	0 %100
43	M39	X	0	0	0 %100
44	M39	Z	0	0	0 %100
45	MP1B	X	4.108	4.108	0 %100
46	MP1B	Z	0	0	0 %100
47	MP2B	X	4.19	4.19	0 %100
48	MP2B	Z	0	0	0 %100
49	MP3B	X	4.19	4.19	0 %100
50	MP3B	Z	0	0	0 %100
51	MP4B	X	3.999	3.999	0 %100
52	MP4B	Z	0	0	0 %100
53	M48	X	1.075	1.075	0 %100
54	M48	Z	0	0	0 %100
55	M49	X	2.31	2.31	0 %100
56	M49	Z	0	0	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	0	0	0 %100
59	M51	X	2.31	2.31	0 %100
60	M51	Z	0	0	0 %100
61	OVP	X	3.299	3.299	0 %100
62	OVP	Z	0	0	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	0	0	0 %100
65	M61	X	3.512	3.512	0 %100
66	M61	Z	0	0	0 %100
67	M68	X	3.512	3.512	0 %100
68	M68	Z	0	0	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	0	0	0 %100
71	M76	X	3.691	3.691	0 %100
72	M76	Z	0	0	0 %100
73	M77	X	3.691	3.691	0 %100
74	M77	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	1.193	1.193	0 %100
2	FACE	Z	.689	.689	0 %100
3	M3	X	2.564	2.564	0 %100
4	M3	Z	1.48	1.48	0 %100
5	M7	X	4.942	4.942	0 %100
6	M7	Z	2.853	2.853	0 %100
7	M9	X	1.235	1.235	0 %100
8	M9	Z	.713	.713	0 %100
9	MP1A	X	3.558	3.558	0 %100
10	MP1A	Z	2.054	2.054	0 %100
11	MP2A	X	3.629	3.629	0 %100
12	MP2A	Z	2.095	2.095	0 %100
13	MP3A	X	3.629	3.629	0 %100
14	MP3A	Z	2.095	2.095	0 %100
15	MP4A	X	3.463	3.463	0 %100



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

Mar 1, 2022  
 10:25 AM  
 Checked By: JL

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
16	MP4A	Z	2	2	0	%100
17	M16	X	2.793	2.793	0	%100
18	M16	Z	1.613	1.613	0	%100
19	M17	X	1.193	1.193	0	%100
20	M17	Z	.689	.689	0	%100
21	M19A	X	2.564	2.564	0	%100
22	M19A	Z	1.48	1.48	0	%100
23	M21A	X	1.235	1.235	0	%100
24	M21A	Z	.713	.713	0	%100
25	M23	X	4.942	4.942	0	%100
26	M23	Z	2.853	2.853	0	%100
27	MP1C	X	3.558	3.558	0	%100
28	MP1C	Z	2.054	2.054	0	%100
29	MP2C	X	3.629	3.629	0	%100
30	MP2C	Z	2.095	2.095	0	%100
31	MP3C	X	3.629	3.629	0	%100
32	MP3C	Z	2.095	2.095	0	%100
33	MP4C	X	3.463	3.463	0	%100
34	MP4C	Z	2	2	0	%100
35	M32	X	2.793	2.793	0	%100
36	M32	Z	1.613	1.613	0	%100
37	M33	X	4.773	4.773	0	%100
38	M33	Z	2.756	2.756	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	0	0	0	%100
41	M37	X	1.235	1.235	0	%100
42	M37	Z	.713	.713	0	%100
43	M39	X	1.235	1.235	0	%100
44	M39	Z	.713	.713	0	%100
45	MP1B	X	3.558	3.558	0	%100
46	MP1B	Z	2.054	2.054	0	%100
47	MP2B	X	3.629	3.629	0	%100
48	MP2B	Z	2.095	2.095	0	%100
49	MP3B	X	3.629	3.629	0	%100
50	MP3B	Z	2.095	2.095	0	%100
51	MP4B	X	3.463	3.463	0	%100
52	MP4B	Z	2	2	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	.667	.667	0	%100
56	M49	Z	.385	.385	0	%100
57	M50	X	.667	.667	0	%100
58	M50	Z	.385	.385	0	%100
59	M51	X	2.667	2.667	0	%100
60	M51	Z	1.54	1.54	0	%100
61	OVP	X	2.857	2.857	0	%100
62	OVP	Z	1.649	1.649	0	%100
63	M54	X	1.014	1.014	0	%100
64	M54	Z	.585	.585	0	%100
65	M61	X	1.014	1.014	0	%100
66	M61	Z	.585	.585	0	%100
67	M68	X	4.056	4.056	0	%100
68	M68	Z	2.342	2.342	0	%100
69	M75	X	1.066	1.066	0	%100
70	M75	Z	.615	.615	0	%100
71	M76	X	1.066	1.066	0	%100
72	M76	Z	.615	.615	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
73	M77	X	4.262	4.262	0 %100
74	M77	Z	2.461	2.461	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	2.067	2.067	0 %100
2	FACE	Z	3.58	3.58	0 %100
3	M3	X	.493	.493	0 %100
4	M3	Z	.855	.855	0 %100
5	M7	X	2.14	2.14	0 %100
6	M7	Z	3.706	3.706	0 %100
7	M9	X	0	0	0 %100
8	M9	Z	0	0	0 %100
9	MP1A	X	2.054	2.054	0 %100
10	MP1A	Z	3.558	3.558	0 %100
11	MP2A	X	2.095	2.095	0 %100
12	MP2A	Z	3.629	3.629	0 %100
13	MP3A	X	2.095	2.095	0 %100
14	MP3A	Z	3.629	3.629	0 %100
15	MP4A	X	2	2	0 %100
16	MP4A	Z	3.463	3.463	0 %100
17	M16	X	.538	.538	0 %100
18	M16	Z	.931	.931	0 %100
19	M17	X	0	0	0 %100
20	M17	Z	0	0	0 %100
21	M19A	X	1.974	1.974	0 %100
22	M19A	Z	3.419	3.419	0 %100
23	M21A	X	2.14	2.14	0 %100
24	M21A	Z	3.706	3.706	0 %100
25	M23	X	2.14	2.14	0 %100
26	M23	Z	3.706	3.706	0 %100
27	MP1C	X	2.054	2.054	0 %100
28	MP1C	Z	3.558	3.558	0 %100
29	MP2C	X	2.095	2.095	0 %100
30	MP2C	Z	3.629	3.629	0 %100
31	MP3C	X	2.095	2.095	0 %100
32	MP3C	Z	3.629	3.629	0 %100
33	MP4C	X	2	2	0 %100
34	MP4C	Z	3.463	3.463	0 %100
35	M32	X	2.15	2.15	0 %100
36	M32	Z	3.724	3.724	0 %100
37	M33	X	2.067	2.067	0 %100
38	M33	Z	3.58	3.58	0 %100
39	M35	X	.493	.493	0 %100
40	M35	Z	.855	.855	0 %100
41	M37	X	0	0	0 %100
42	M37	Z	0	0	0 %100
43	M39	X	2.14	2.14	0 %100
44	M39	Z	3.706	3.706	0 %100
45	MP1B	X	2.054	2.054	0 %100
46	MP1B	Z	3.558	3.558	0 %100
47	MP2B	X	2.095	2.095	0 %100
48	MP2B	Z	3.629	3.629	0 %100
49	MP3B	X	2.095	2.095	0 %100
50	MP3B	Z	3.629	3.629	0 %100
51	MP4B	X	2	2	0 %100





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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
52	MP4B	Z	3.463	3.463	0	%100
53	M48	X	.538	.538	0	%100
54	M48	Z	.931	.931	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	1.155	1.155	0	%100
58	M50	Z	2	2	0	%100
59	M51	X	1.155	1.155	0	%100
60	M51	Z	2	2	0	%100
61	OVP	X	1.649	1.649	0	%100
62	OVP	Z	2.857	2.857	0	%100
63	M54	X	1.756	1.756	0	%100
64	M54	Z	3.042	3.042	0	%100
65	M61	X	0	0	0	%100
66	M61	Z	0	0	0	%100
67	M68	X	1.756	1.756	0	%100
68	M68	Z	3.042	3.042	0	%100
69	M75	X	1.846	1.846	0	%100
70	M75	Z	3.197	3.197	0	%100
71	M76	X	0	0	0	%100
72	M76	Z	0	0	0	%100
73	M77	X	1.846	1.846	0	%100
74	M77	Z	3.197	3.197	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	0	0	0	%100
2	FACE	Z	5.511	5.511	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	1.427	1.427	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	1.427	1.427	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	4.108	4.108	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	4.19	4.19	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	4.19	4.19	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	3.999	3.999	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	1.378	1.378	0	%100
21	M19A	X	0	0	0	%100
22	M19A	Z	2.961	2.961	0	%100
23	M21A	X	0	0	0	%100
24	M21A	Z	5.706	5.706	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	1.427	1.427	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	4.108	4.108	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	4.19	4.19	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
31	MP3C	X	0	0	0 %100
32	MP3C	Z	4.19	4.19	0 %100
33	MP4C	X	0	0	0 %100
34	MP4C	Z	3.999	3.999	0 %100
35	M32	X	0	0	0 %100
36	M32	Z	3.225	3.225	0 %100
37	M33	X	0	0	0 %100
38	M33	Z	1.378	1.378	0 %100
39	M35	X	0	0	0 %100
40	M35	Z	2.961	2.961	0 %100
41	M37	X	0	0	0 %100
42	M37	Z	1.427	1.427	0 %100
43	M39	X	0	0	0 %100
44	M39	Z	5.706	5.706	0 %100
45	MP1B	X	0	0	0 %100
46	MP1B	Z	4.108	4.108	0 %100
47	MP2B	X	0	0	0 %100
48	MP2B	Z	4.19	4.19	0 %100
49	MP3B	X	0	0	0 %100
50	MP3B	Z	4.19	4.19	0 %100
51	MP4B	X	0	0	0 %100
52	MP4B	Z	3.999	3.999	0 %100
53	M48	X	0	0	0 %100
54	M48	Z	3.225	3.225	0 %100
55	M49	X	0	0	0 %100
56	M49	Z	.77	.77	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	3.08	3.08	0 %100
59	M51	X	0	0	0 %100
60	M51	Z	.77	.77	0 %100
61	OVP	X	0	0	0 %100
62	OVP	Z	3.299	3.299	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	4.683	4.683	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	1.171	1.171	0 %100
67	M68	X	0	0	0 %100
68	M68	Z	1.171	1.171	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	4.922	4.922	0 %100
71	M76	X	0	0	0 %100
72	M76	Z	1.23	1.23	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	1.23	1.23	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	-2.067	-2.067	0 %100
2	FACE	Z	3.58	3.58	0 %100
3	M3	X	-.493	-.493	0 %100
4	M3	Z	.855	.855	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	-2.14	-2.14	0 %100
8	M9	Z	3.706	3.706	0 %100
9	MP1A	X	-2.054	-2.054	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
10	MP1A	Z	3.558	3.558	0	%100
11	MP2A	X	-2.095	-2.095	0	%100
12	MP2A	Z	3.629	3.629	0	%100
13	MP3A	X	-2.095	-2.095	0	%100
14	MP3A	Z	3.629	3.629	0	%100
15	MP4A	X	-2	-2	0	%100
16	MP4A	Z	3.463	3.463	0	%100
17	M16	X	-.538	-.538	0	%100
18	M16	Z	.931	.931	0	%100
19	M17	X	-2.067	-2.067	0	%100
20	M17	Z	3.58	3.58	0	%100
21	M19A	X	-.493	-.493	0	%100
22	M19A	Z	.855	.855	0	%100
23	M21A	X	-2.14	-2.14	0	%100
24	M21A	Z	3.706	3.706	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	MP1C	X	-2.054	-2.054	0	%100
28	MP1C	Z	3.558	3.558	0	%100
29	MP2C	X	-2.095	-2.095	0	%100
30	MP2C	Z	3.629	3.629	0	%100
31	MP3C	X	-2.095	-2.095	0	%100
32	MP3C	Z	3.629	3.629	0	%100
33	MP4C	X	-2	-2	0	%100
34	MP4C	Z	3.463	3.463	0	%100
35	M32	X	-.538	-.538	0	%100
36	M32	Z	.931	.931	0	%100
37	M33	X	0	0	0	%100
38	M33	Z	0	0	0	%100
39	M35	X	-1.974	-1.974	0	%100
40	M35	Z	3.419	3.419	0	%100
41	M37	X	-2.14	-2.14	0	%100
42	M37	Z	3.706	3.706	0	%100
43	M39	X	-2.14	-2.14	0	%100
44	M39	Z	3.706	3.706	0	%100
45	MP1B	X	-2.054	-2.054	0	%100
46	MP1B	Z	3.558	3.558	0	%100
47	MP2B	X	-2.095	-2.095	0	%100
48	MP2B	Z	3.629	3.629	0	%100
49	MP3B	X	-2.095	-2.095	0	%100
50	MP3B	Z	3.629	3.629	0	%100
51	MP4B	X	-2	-2	0	%100
52	MP4B	Z	3.463	3.463	0	%100
53	M48	X	-2.15	-2.15	0	%100
54	M48	Z	3.724	3.724	0	%100
55	M49	X	-1.155	-1.155	0	%100
56	M49	Z	2	2	0	%100
57	M50	X	-1.155	-1.155	0	%100
58	M50	Z	2	2	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	OVP	X	-1.649	-1.649	0	%100
62	OVP	Z	2.857	2.857	0	%100
63	M54	X	-1.756	-1.756	0	%100
64	M54	Z	3.042	3.042	0	%100
65	M61	X	-1.756	-1.756	0	%100
66	M61	Z	3.042	3.042	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
67	M68	X	0	0	0 %100
68	M68	Z	0	0	0 %100
69	M75	X	-1.846	-1.846	0 %100
70	M75	Z	3.197	3.197	0 %100
71	M76	X	-1.846	-1.846	0 %100
72	M76	Z	3.197	3.197	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	-1.193	-1.193	0 %100
2	FACE	Z	.689	.689	0 %100
3	M3	X	-2.564	-2.564	0 %100
4	M3	Z	1.48	1.48	0 %100
5	M7	X	-1.235	-1.235	0 %100
6	M7	Z	.713	.713	0 %100
7	M9	X	-4.942	-4.942	0 %100
8	M9	Z	2.853	2.853	0 %100
9	MP1A	X	-3.558	-3.558	0 %100
10	MP1A	Z	2.054	2.054	0 %100
11	MP2A	X	-3.629	-3.629	0 %100
12	MP2A	Z	2.095	2.095	0 %100
13	MP3A	X	-3.629	-3.629	0 %100
14	MP3A	Z	2.095	2.095	0 %100
15	MP4A	X	-3.463	-3.463	0 %100
16	MP4A	Z	2	2	0 %100
17	M16	X	-2.793	-2.793	0 %100
18	M16	Z	1.613	1.613	0 %100
19	M17	X	-4.773	-4.773	0 %100
20	M17	Z	2.756	2.756	0 %100
21	M19A	X	0	0	0 %100
22	M19A	Z	0	0	0 %100
23	M21A	X	-1.235	-1.235	0 %100
24	M21A	Z	.713	.713	0 %100
25	M23	X	-1.235	-1.235	0 %100
26	M23	Z	.713	.713	0 %100
27	MP1C	X	-3.558	-3.558	0 %100
28	MP1C	Z	2.054	2.054	0 %100
29	MP2C	X	-3.629	-3.629	0 %100
30	MP2C	Z	2.095	2.095	0 %100
31	MP3C	X	-3.629	-3.629	0 %100
32	MP3C	Z	2.095	2.095	0 %100
33	MP4C	X	-3.463	-3.463	0 %100
34	MP4C	Z	2	2	0 %100
35	M32	X	0	0	0 %100
36	M32	Z	0	0	0 %100
37	M33	X	-1.193	-1.193	0 %100
38	M33	Z	.689	.689	0 %100
39	M35	X	-2.564	-2.564	0 %100
40	M35	Z	1.48	1.48	0 %100
41	M37	X	-4.942	-4.942	0 %100
42	M37	Z	2.853	2.853	0 %100
43	M39	X	-1.235	-1.235	0 %100
44	M39	Z	.713	.713	0 %100
45	MP1B	X	-3.558	-3.558	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
46	MP1B	Z	2.054	2.054	0 %100
47	MP2B	X	-3.629	-3.629	0 %100
48	MP2B	Z	2.095	2.095	0 %100
49	MP3B	X	-3.629	-3.629	0 %100
50	MP3B	Z	2.095	2.095	0 %100
51	MP4B	X	-3.463	-3.463	0 %100
52	MP4B	Z	2	2	0 %100
53	M48	X	-2.793	-2.793	0 %100
54	M48	Z	1.613	1.613	0 %100
55	M49	X	-2.667	-2.667	0 %100
56	M49	Z	1.54	1.54	0 %100
57	M50	X	-.667	-.667	0 %100
58	M50	Z	.385	.385	0 %100
59	M51	X	-.667	-.667	0 %100
60	M51	Z	.385	.385	0 %100
61	OVP	X	-2.857	-2.857	0 %100
62	OVP	Z	1.649	1.649	0 %100
63	M54	X	-1.014	-1.014	0 %100
64	M54	Z	.585	.585	0 %100
65	M61	X	-4.056	-4.056	0 %100
66	M61	Z	2.342	2.342	0 %100
67	M68	X	-1.014	-1.014	0 %100
68	M68	Z	.585	.585	0 %100
69	M75	X	-1.066	-1.066	0 %100
70	M75	Z	.615	.615	0 %100
71	M76	X	-4.262	-4.262	0 %100
72	M76	Z	2.461	2.461	0 %100
73	M77	X	-1.066	-1.066	0 %100
74	M77	Z	.615	.615	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	0	0	0 %100
2	FACE	Z	0	0	0 %100
3	M3	X	-3.948	-3.948	0 %100
4	M3	Z	0	0	0 %100
5	M7	X	-4.28	-4.28	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	-4.28	-4.28	0 %100
8	M9	Z	0	0	0 %100
9	MP1A	X	-4.108	-4.108	0 %100
10	MP1A	Z	0	0	0 %100
11	MP2A	X	-4.19	-4.19	0 %100
12	MP2A	Z	0	0	0 %100
13	MP3A	X	-4.19	-4.19	0 %100
14	MP3A	Z	0	0	0 %100
15	MP4A	X	-3.999	-3.999	0 %100
16	MP4A	Z	0	0	0 %100
17	M16	X	-4.301	-4.301	0 %100
18	M16	Z	0	0	0 %100
19	M17	X	-4.133	-4.133	0 %100
20	M17	Z	0	0	0 %100
21	M19A	X	-.987	-.987	0 %100
22	M19A	Z	0	0	0 %100
23	M21A	X	0	0	0 %100
24	M21A	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
25	M23	X	-4.28	-4.28	0 %100
26	M23	Z	0	0	0 %100
27	MP1C	X	-4.108	-4.108	0 %100
28	MP1C	Z	0	0	0 %100
29	MP2C	X	-4.19	-4.19	0 %100
30	MP2C	Z	0	0	0 %100
31	MP3C	X	-4.19	-4.19	0 %100
32	MP3C	Z	0	0	0 %100
33	MP4C	X	-3.999	-3.999	0 %100
34	MP4C	Z	0	0	0 %100
35	M32	X	-1.075	-1.075	0 %100
36	M32	Z	0	0	0 %100
37	M33	X	-4.133	-4.133	0 %100
38	M33	Z	0	0	0 %100
39	M35	X	-0.987	-0.987	0 %100
40	M35	Z	0	0	0 %100
41	M37	X	-4.28	-4.28	0 %100
42	M37	Z	0	0	0 %100
43	M39	X	0	0	0 %100
44	M39	Z	0	0	0 %100
45	MP1B	X	-4.108	-4.108	0 %100
46	MP1B	Z	0	0	0 %100
47	MP2B	X	-4.19	-4.19	0 %100
48	MP2B	Z	0	0	0 %100
49	MP3B	X	-4.19	-4.19	0 %100
50	MP3B	Z	0	0	0 %100
51	MP4B	X	-3.999	-3.999	0 %100
52	MP4B	Z	0	0	0 %100
53	M48	X	-1.075	-1.075	0 %100
54	M48	Z	0	0	0 %100
55	M49	X	-2.31	-2.31	0 %100
56	M49	Z	0	0	0 %100
57	M50	X	0	0	0 %100
58	M50	Z	0	0	0 %100
59	M51	X	-2.31	-2.31	0 %100
60	M51	Z	0	0	0 %100
61	OVP	X	-3.299	-3.299	0 %100
62	OVP	Z	0	0	0 %100
63	M54	X	0	0	0 %100
64	M54	Z	0	0	0 %100
65	M61	X	-3.512	-3.512	0 %100
66	M61	Z	0	0	0 %100
67	M68	X	-3.512	-3.512	0 %100
68	M68	Z	0	0	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	0	0	0 %100
71	M76	X	-3.691	-3.691	0 %100
72	M76	Z	0	0	0 %100
73	M77	X	-3.691	-3.691	0 %100
74	M77	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	-1.193	-1.193	0 %100
2	FACE	Z	-0.689	-0.689	0 %100
3	M3	X	-2.564	-2.564	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
4	M3	Z	-1.48	0	%100
5	M7	X	-4.942	0	%100
6	M7	Z	-2.853	0	%100
7	M9	X	-1.235	0	%100
8	M9	Z	-.713	0	%100
9	MP1A	X	-3.558	0	%100
10	MP1A	Z	-2.054	0	%100
11	MP2A	X	-3.629	0	%100
12	MP2A	Z	-2.095	0	%100
13	MP3A	X	-3.629	0	%100
14	MP3A	Z	-2.095	0	%100
15	MP4A	X	-3.463	0	%100
16	MP4A	Z	-2	0	%100
17	M16	X	-2.793	0	%100
18	M16	Z	-1.613	0	%100
19	M17	X	-1.193	0	%100
20	M17	Z	-.689	0	%100
21	M19A	X	-2.564	0	%100
22	M19A	Z	-1.48	0	%100
23	M21A	X	-1.235	0	%100
24	M21A	Z	-.713	0	%100
25	M23	X	-4.942	0	%100
26	M23	Z	-2.853	0	%100
27	MP1C	X	-3.558	0	%100
28	MP1C	Z	-2.054	0	%100
29	MP2C	X	-3.629	0	%100
30	MP2C	Z	-2.095	0	%100
31	MP3C	X	-3.629	0	%100
32	MP3C	Z	-2.095	0	%100
33	MP4C	X	-3.463	0	%100
34	MP4C	Z	-2	0	%100
35	M32	X	-2.793	0	%100
36	M32	Z	-1.613	0	%100
37	M33	X	-4.773	0	%100
38	M33	Z	-2.756	0	%100
39	M35	X	0	0	%100
40	M35	Z	0	0	%100
41	M37	X	-1.235	0	%100
42	M37	Z	-.713	0	%100
43	M39	X	-1.235	0	%100
44	M39	Z	-.713	0	%100
45	MP1B	X	-3.558	0	%100
46	MP1B	Z	-2.054	0	%100
47	MP2B	X	-3.629	0	%100
48	MP2B	Z	-2.095	0	%100
49	MP3B	X	-3.629	0	%100
50	MP3B	Z	-2.095	0	%100
51	MP4B	X	-3.463	0	%100
52	MP4B	Z	-2	0	%100
53	M48	X	0	0	%100
54	M48	Z	0	0	%100
55	M49	X	-.667	0	%100
56	M49	Z	-.385	0	%100
57	M50	X	-.667	0	%100
58	M50	Z	-.385	0	%100
59	M51	X	-2.667	0	%100
60	M51	Z	-1.54	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
61	OVP	X	-2.857	-2.857	0	%100
62	OVP	Z	-1.649	-1.649	0	%100
63	M54	X	-1.014	-1.014	0	%100
64	M54	Z	-.585	-.585	0	%100
65	M61	X	-1.014	-1.014	0	%100
66	M61	Z	-.585	-.585	0	%100
67	M68	X	-4.056	-4.056	0	%100
68	M68	Z	-2.342	-2.342	0	%100
69	M75	X	-1.066	-1.066	0	%100
70	M75	Z	-.615	-.615	0	%100
71	M76	X	-1.066	-1.066	0	%100
72	M76	Z	-.615	-.615	0	%100
73	M77	X	-4.262	-4.262	0	%100
74	M77	Z	-2.461	-2.461	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
1	FACE	X	-2.067	-2.067	0	%100
2	FACE	Z	-3.58	-3.58	0	%100
3	M3	X	-.493	-.493	0	%100
4	M3	Z	-.855	-.855	0	%100
5	M7	X	-2.14	-2.14	0	%100
6	M7	Z	-3.706	-3.706	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	-2.054	-2.054	0	%100
10	MP1A	Z	-3.558	-3.558	0	%100
11	MP2A	X	-2.095	-2.095	0	%100
12	MP2A	Z	-3.629	-3.629	0	%100
13	MP3A	X	-2.095	-2.095	0	%100
14	MP3A	Z	-3.629	-3.629	0	%100
15	MP4A	X	-2	-2	0	%100
16	MP4A	Z	-3.463	-3.463	0	%100
17	M16	X	-.538	-.538	0	%100
18	M16	Z	-.931	-.931	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M19A	X	-1.974	-1.974	0	%100
22	M19A	Z	-3.419	-3.419	0	%100
23	M21A	X	-2.14	-2.14	0	%100
24	M21A	Z	-3.706	-3.706	0	%100
25	M23	X	-2.14	-2.14	0	%100
26	M23	Z	-3.706	-3.706	0	%100
27	MP1C	X	-2.054	-2.054	0	%100
28	MP1C	Z	-3.558	-3.558	0	%100
29	MP2C	X	-2.095	-2.095	0	%100
30	MP2C	Z	-3.629	-3.629	0	%100
31	MP3C	X	-2.095	-2.095	0	%100
32	MP3C	Z	-3.629	-3.629	0	%100
33	MP4C	X	-2	-2	0	%100
34	MP4C	Z	-3.463	-3.463	0	%100
35	M32	X	-2.15	-2.15	0	%100
36	M32	Z	-3.724	-3.724	0	%100
37	M33	X	-2.067	-2.067	0	%100
38	M33	Z	-3.58	-3.58	0	%100
39	M35	X	-.493	-.493	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...]	End Location[ft...]
40	M35	Z	-0.855	-0.855	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	0	0	0	%100
43	M39	X	-2.14	-2.14	0	%100
44	M39	Z	-3.706	-3.706	0	%100
45	MP1B	X	-2.054	-2.054	0	%100
46	MP1B	Z	-3.558	-3.558	0	%100
47	MP2B	X	-2.095	-2.095	0	%100
48	MP2B	Z	-3.629	-3.629	0	%100
49	MP3B	X	-2.095	-2.095	0	%100
50	MP3B	Z	-3.629	-3.629	0	%100
51	MP4B	X	-2	-2	0	%100
52	MP4B	Z	-3.463	-3.463	0	%100
53	M48	X	-0.538	-0.538	0	%100
54	M48	Z	-0.931	-0.931	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	-1.155	-1.155	0	%100
58	M50	Z	-2	-2	0	%100
59	M51	X	-1.155	-1.155	0	%100
60	M51	Z	-2	-2	0	%100
61	OVP	X	-1.649	-1.649	0	%100
62	OVP	Z	-2.857	-2.857	0	%100
63	M54	X	-1.756	-1.756	0	%100
64	M54	Z	-3.042	-3.042	0	%100
65	M61	X	0	0	0	%100
66	M61	Z	0	0	0	%100
67	M68	X	-1.756	-1.756	0	%100
68	M68	Z	-3.042	-3.042	0	%100
69	M75	X	-1.846	-1.846	0	%100
70	M75	Z	-3.197	-3.197	0	%100
71	M76	X	0	0	0	%100
72	M76	Z	0	0	0	%100
73	M77	X	-1.846	-1.846	0	%100
74	M77	Z	-3.197	-3.197	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...]	End Location[ft...]
1	FACE	X	0	0	0	%100
2	FACE	Z	-0.93	-0.93	0	%100
3	M3	X	0	0	0	%100
4	M3	Z	0	0	0	%100
5	M7	X	0	0	0	%100
6	M7	Z	-0.337	-0.337	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	-0.337	-0.337	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-0.629	-0.629	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-0.629	-0.629	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	-0.629	-0.629	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	-0.629	-0.629	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	0	0	0	%100



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
19	M17	X	0	0 %100
20	M17	Z	-0.232	0 %100
21	M19A	X	0	0 %100
22	M19A	Z	-0.594	0 %100
23	M21A	X	0	0 %100
24	M21A	Z	-1.347	0 %100
25	M23	X	0	0 %100
26	M23	Z	-0.337	0 %100
27	MP1C	X	0	0 %100
28	MP1C	Z	-0.629	0 %100
29	MP2C	X	0	0 %100
30	MP2C	Z	-0.629	0 %100
31	MP3C	X	0	0 %100
32	MP3C	Z	-0.629	0 %100
33	MP4C	X	0	0 %100
34	MP4C	Z	-0.629	0 %100
35	M32	X	0	0 %100
36	M32	Z	-0.638	0 %100
37	M33	X	0	0 %100
38	M33	Z	-0.232	0 %100
39	M35	X	0	0 %100
40	M35	Z	-0.594	0 %100
41	M37	X	0	0 %100
42	M37	Z	-0.337	0 %100
43	M39	X	0	0 %100
44	M39	Z	-1.347	0 %100
45	MP1B	X	0	0 %100
46	MP1B	Z	-0.629	0 %100
47	MP2B	X	0	0 %100
48	MP2B	Z	-0.629	0 %100
49	MP3B	X	0	0 %100
50	MP3B	Z	-0.629	0 %100
51	MP4B	X	0	0 %100
52	MP4B	Z	-0.629	0 %100
53	M48	X	0	0 %100
54	M48	Z	-0.638	0 %100
55	M49	X	0	0 %100
56	M49	Z	-0.142	0 %100
57	M50	X	0	0 %100
58	M50	Z	-0.568	0 %100
59	M51	X	0	0 %100
60	M51	Z	-0.142	0 %100
61	OVP	X	0	0 %100
62	OVP	Z	-0.515	0 %100
63	M54	X	0	0 %100
64	M54	Z	-0.762	0 %100
65	M61	X	0	0 %100
66	M61	Z	-0.19	0 %100
67	M68	X	0	0 %100
68	M68	Z	-0.19	0 %100
69	M75	X	0	0 %100
70	M75	Z	-1.074	0 %100
71	M76	X	0	0 %100
72	M76	Z	-0.269	0 %100
73	M77	X	0	0 %100
74	M77	Z	-0.269	0 %100



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	.349	.349 0 %100
2	FACE	Z	-.604	-.604 0 %100
3	M3	X	.099	.099 0 %100
4	M3	Z	-.172	-.172 0 %100
5	M7	X	0	0 0 %100
6	M7	Z	0	0 0 %100
7	M9	X	.505	.505 0 %100
8	M9	Z	-.875	-.875 0 %100
9	MP1A	X	.315	.315 0 %100
10	MP1A	Z	-.545	-.545 0 %100
11	MP2A	X	.315	.315 0 %100
12	MP2A	Z	-.545	-.545 0 %100
13	MP3A	X	.315	.315 0 %100
14	MP3A	Z	-.545	-.545 0 %100
15	MP4A	X	.315	.315 0 %100
16	MP4A	Z	-.545	-.545 0 %100
17	M16	X	.106	.106 0 %100
18	M16	Z	-.184	-.184 0 %100
19	M17	X	.349	.349 0 %100
20	M17	Z	-.604	-.604 0 %100
21	M19A	X	.099	.099 0 %100
22	M19A	Z	-.172	-.172 0 %100
23	M21A	X	.505	.505 0 %100
24	M21A	Z	-.875	-.875 0 %100
25	M23	X	0	0 0 %100
26	M23	Z	0	0 0 %100
27	MP1C	X	.315	.315 0 %100
28	MP1C	Z	-.545	-.545 0 %100
29	MP2C	X	.315	.315 0 %100
30	MP2C	Z	-.545	-.545 0 %100
31	MP3C	X	.315	.315 0 %100
32	MP3C	Z	-.545	-.545 0 %100
33	MP4C	X	.315	.315 0 %100
34	MP4C	Z	-.545	-.545 0 %100
35	M32	X	.106	.106 0 %100
36	M32	Z	-.184	-.184 0 %100
37	M33	X	0	0 0 %100
38	M33	Z	0	0 0 %100
39	M35	X	.396	.396 0 %100
40	M35	Z	-.686	-.686 0 %100
41	M37	X	.505	.505 0 %100
42	M37	Z	-.875	-.875 0 %100
43	M39	X	.505	.505 0 %100
44	M39	Z	-.875	-.875 0 %100
45	MP1B	X	.315	.315 0 %100
46	MP1B	Z	-.545	-.545 0 %100
47	MP2B	X	.315	.315 0 %100
48	MP2B	Z	-.545	-.545 0 %100
49	MP3B	X	.315	.315 0 %100
50	MP3B	Z	-.545	-.545 0 %100
51	MP4B	X	.315	.315 0 %100
52	MP4B	Z	-.545	-.545 0 %100
53	M48	X	.425	.425 0 %100
54	M48	Z	-.737	-.737 0 %100
55	M49	X	.213	.213 0 %100
56	M49	Z	-.369	-.369 0 %100
57	M50	X	.213	.213 0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
58	M50	Z	-.369	-.369	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	OVP	X	.257	.257	0	%100
62	OVP	Z	-.446	-.446	0	%100
63	M54	X	.286	.286	0	%100
64	M54	Z	-.495	-.495	0	%100
65	M61	X	.286	.286	0	%100
66	M61	Z	-.495	-.495	0	%100
67	M68	X	0	0	0	%100
68	M68	Z	0	0	0	%100
69	M75	X	.403	.403	0	%100
70	M75	Z	-.698	-.698	0	%100
71	M76	X	.403	.403	0	%100
72	M76	Z	-.698	-.698	0	%100
73	M77	X	0	0	0	%100
74	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	.201	.201	0	%100
2	FACE	Z	-.116	-.116	0	%100
3	M3	X	.515	.515	0	%100
4	M3	Z	-.297	-.297	0	%100
5	M7	X	.292	.292	0	%100
6	M7	Z	-.168	-.168	0	%100
7	M9	X	1.166	1.166	0	%100
8	M9	Z	-.673	-.673	0	%100
9	MP1A	X	.545	.545	0	%100
10	MP1A	Z	-.315	-.315	0	%100
11	MP2A	X	.545	.545	0	%100
12	MP2A	Z	-.315	-.315	0	%100
13	MP3A	X	.545	.545	0	%100
14	MP3A	Z	-.315	-.315	0	%100
15	MP4A	X	.545	.545	0	%100
16	MP4A	Z	-.315	-.315	0	%100
17	M16	X	.553	.553	0	%100
18	M16	Z	-.319	-.319	0	%100
19	M17	X	.805	.805	0	%100
20	M17	Z	-.465	-.465	0	%100
21	M19A	X	0	0	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	.292	.292	0	%100
24	M21A	Z	-.168	-.168	0	%100
25	M23	X	.292	.292	0	%100
26	M23	Z	-.168	-.168	0	%100
27	MP1C	X	.545	.545	0	%100
28	MP1C	Z	-.315	-.315	0	%100
29	MP2C	X	.545	.545	0	%100
30	MP2C	Z	-.315	-.315	0	%100
31	MP3C	X	.545	.545	0	%100
32	MP3C	Z	-.315	-.315	0	%100
33	MP4C	X	.545	.545	0	%100
34	MP4C	Z	-.315	-.315	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
37	M33	X	.201	.201	0 %100
38	M33	Z	-.116	-.116	0 %100
39	M35	X	.515	.515	0 %100
40	M35	Z	-.297	-.297	0 %100
41	M37	X	1.166	1.166	0 %100
42	M37	Z	-.673	-.673	0 %100
43	M39	X	.292	.292	0 %100
44	M39	Z	-.168	-.168	0 %100
45	MP1B	X	.545	.545	0 %100
46	MP1B	Z	-.315	-.315	0 %100
47	MP2B	X	.545	.545	0 %100
48	MP2B	Z	-.315	-.315	0 %100
49	MP3B	X	.545	.545	0 %100
50	MP3B	Z	-.315	-.315	0 %100
51	MP4B	X	.545	.545	0 %100
52	MP4B	Z	-.315	-.315	0 %100
53	M48	X	.553	.553	0 %100
54	M48	Z	-.319	-.319	0 %100
55	M49	X	.492	.492	0 %100
56	M49	Z	-.284	-.284	0 %100
57	M50	X	.123	.123	0 %100
58	M50	Z	-.071	-.071	0 %100
59	M51	X	.123	.123	0 %100
60	M51	Z	-.071	-.071	0 %100
61	OVP	X	.446	.446	0 %100
62	OVP	Z	-.257	-.257	0 %100
63	M54	X	.165	.165	0 %100
64	M54	Z	-.095	-.095	0 %100
65	M61	X	.66	.66	0 %100
66	M61	Z	-.381	-.381	0 %100
67	M68	X	.165	.165	0 %100
68	M68	Z	-.095	-.095	0 %100
69	M75	X	.233	.233	0 %100
70	M75	Z	-.134	-.134	0 %100
71	M76	X	.93	.93	0 %100
72	M76	Z	-.537	-.537	0 %100
73	M77	X	.233	.233	0 %100
74	M77	Z	-.134	-.134	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	0	0	0 %100
2	FACE	Z	0	0	0 %100
3	M3	X	.792	.792	0 %100
4	M3	Z	0	0	0 %100
5	M7	X	1.01	1.01	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	1.01	1.01	0 %100
8	M9	Z	0	0	0 %100
9	MP1A	X	.629	.629	0 %100
10	MP1A	Z	0	0	0 %100
11	MP2A	X	.629	.629	0 %100
12	MP2A	Z	0	0	0 %100
13	MP3A	X	.629	.629	0 %100
14	MP3A	Z	0	0	0 %100
15	MP4A	X	.629	.629	0 %100



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

Mar 1, 2022  
 10:25 AM  
 Checked By: JL

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
16	MP4A	Z	0	0	%100
17	M16	X	.851	.851	%100
18	M16	Z	0	0	%100
19	M17	X	.697	.697	%100
20	M17	Z	0	0	%100
21	M19A	X	.198	.198	%100
22	M19A	Z	0	0	%100
23	M21A	X	0	0	%100
24	M21A	Z	0	0	%100
25	M23	X	1.01	1.01	%100
26	M23	Z	0	0	%100
27	MP1C	X	.629	.629	%100
28	MP1C	Z	0	0	%100
29	MP2C	X	.629	.629	%100
30	MP2C	Z	0	0	%100
31	MP3C	X	.629	.629	%100
32	MP3C	Z	0	0	%100
33	MP4C	X	.629	.629	%100
34	MP4C	Z	0	0	%100
35	M32	X	.213	.213	%100
36	M32	Z	0	0	%100
37	M33	X	.697	.697	%100
38	M33	Z	0	0	%100
39	M35	X	.198	.198	%100
40	M35	Z	0	0	%100
41	M37	X	1.01	1.01	%100
42	M37	Z	0	0	%100
43	M39	X	0	0	%100
44	M39	Z	0	0	%100
45	MP1B	X	.629	.629	%100
46	MP1B	Z	0	0	%100
47	MP2B	X	.629	.629	%100
48	MP2B	Z	0	0	%100
49	MP3B	X	.629	.629	%100
50	MP3B	Z	0	0	%100
51	MP4B	X	.629	.629	%100
52	MP4B	Z	0	0	%100
53	M48	X	.213	.213	%100
54	M48	Z	0	0	%100
55	M49	X	.426	.426	%100
56	M49	Z	0	0	%100
57	M50	X	0	0	%100
58	M50	Z	0	0	%100
59	M51	X	.426	.426	%100
60	M51	Z	0	0	%100
61	OVP	X	.515	.515	%100
62	OVP	Z	0	0	%100
63	M54	X	0	0	%100
64	M54	Z	0	0	%100
65	M61	X	.571	.571	%100
66	M61	Z	0	0	%100
67	M68	X	.571	.571	%100
68	M68	Z	0	0	%100
69	M75	X	0	0	%100
70	M75	Z	0	0	%100
71	M76	X	.806	.806	%100
72	M76	Z	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
73	M77	X	.806	.806	0 %100
74	M77	Z	0	0	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	.201	.201	0 %100
2	FACE	Z	.116	.116	0 %100
3	M3	X	.515	.515	0 %100
4	M3	Z	.297	.297	0 %100
5	M7	X	1.166	1.166	0 %100
6	M7	Z	.673	.673	0 %100
7	M9	X	.292	.292	0 %100
8	M9	Z	.168	.168	0 %100
9	MP1A	X	.545	.545	0 %100
10	MP1A	Z	.315	.315	0 %100
11	MP2A	X	.545	.545	0 %100
12	MP2A	Z	.315	.315	0 %100
13	MP3A	X	.545	.545	0 %100
14	MP3A	Z	.315	.315	0 %100
15	MP4A	X	.545	.545	0 %100
16	MP4A	Z	.315	.315	0 %100
17	M16	X	.553	.553	0 %100
18	M16	Z	.319	.319	0 %100
19	M17	X	.201	.201	0 %100
20	M17	Z	.116	.116	0 %100
21	M19A	X	.515	.515	0 %100
22	M19A	Z	.297	.297	0 %100
23	M21A	X	.292	.292	0 %100
24	M21A	Z	.168	.168	0 %100
25	M23	X	1.166	1.166	0 %100
26	M23	Z	.673	.673	0 %100
27	MP1C	X	.545	.545	0 %100
28	MP1C	Z	.315	.315	0 %100
29	MP2C	X	.545	.545	0 %100
30	MP2C	Z	.315	.315	0 %100
31	MP3C	X	.545	.545	0 %100
32	MP3C	Z	.315	.315	0 %100
33	MP4C	X	.545	.545	0 %100
34	MP4C	Z	.315	.315	0 %100
35	M32	X	.553	.553	0 %100
36	M32	Z	.319	.319	0 %100
37	M33	X	.805	.805	0 %100
38	M33	Z	.465	.465	0 %100
39	M35	X	0	0	0 %100
40	M35	Z	0	0	0 %100
41	M37	X	.292	.292	0 %100
42	M37	Z	.168	.168	0 %100
43	M39	X	.292	.292	0 %100
44	M39	Z	.168	.168	0 %100
45	MP1B	X	.545	.545	0 %100
46	MP1B	Z	.315	.315	0 %100
47	MP2B	X	.545	.545	0 %100
48	MP2B	Z	.315	.315	0 %100
49	MP3B	X	.545	.545	0 %100
50	MP3B	Z	.315	.315	0 %100
51	MP4B	X	.545	.545	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
52	MP4B	Z	.315	.315	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	.123	.123	0	%100
56	M49	Z	.071	.071	0	%100
57	M50	X	.123	.123	0	%100
58	M50	Z	.071	.071	0	%100
59	M51	X	.492	.492	0	%100
60	M51	Z	.284	.284	0	%100
61	OVP	X	.446	.446	0	%100
62	OVP	Z	.257	.257	0	%100
63	M54	X	.165	.165	0	%100
64	M54	Z	.095	.095	0	%100
65	M61	X	.165	.165	0	%100
66	M61	Z	.095	.095	0	%100
67	M68	X	.66	.66	0	%100
68	M68	Z	.381	.381	0	%100
69	M75	X	.233	.233	0	%100
70	M75	Z	.134	.134	0	%100
71	M76	X	.233	.233	0	%100
72	M76	Z	.134	.134	0	%100
73	M77	X	.93	.93	0	%100
74	M77	Z	.537	.537	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	.349	.349	0	%100
2	FACE	Z	.604	.604	0	%100
3	M3	X	.099	.099	0	%100
4	M3	Z	.172	.172	0	%100
5	M7	X	.505	.505	0	%100
6	M7	Z	.875	.875	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	.315	.315	0	%100
10	MP1A	Z	.545	.545	0	%100
11	MP2A	X	.315	.315	0	%100
12	MP2A	Z	.545	.545	0	%100
13	MP3A	X	.315	.315	0	%100
14	MP3A	Z	.545	.545	0	%100
15	MP4A	X	.315	.315	0	%100
16	MP4A	Z	.545	.545	0	%100
17	M16	X	.106	.106	0	%100
18	M16	Z	.184	.184	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	0	0	0	%100
21	M19A	X	.396	.396	0	%100
22	M19A	Z	.686	.686	0	%100
23	M21A	X	.505	.505	0	%100
24	M21A	Z	.875	.875	0	%100
25	M23	X	.505	.505	0	%100
26	M23	Z	.875	.875	0	%100
27	MP1C	X	.315	.315	0	%100
28	MP1C	Z	.545	.545	0	%100
29	MP2C	X	.315	.315	0	%100
30	MP2C	Z	.545	.545	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
31	MP3C	X	.315	.315	0 %100
32	MP3C	Z	.545	.545	0 %100
33	MP4C	X	.315	.315	0 %100
34	MP4C	Z	.545	.545	0 %100
35	M32	X	.425	.425	0 %100
36	M32	Z	.737	.737	0 %100
37	M33	X	.349	.349	0 %100
38	M33	Z	.604	.604	0 %100
39	M35	X	.099	.099	0 %100
40	M35	Z	.172	.172	0 %100
41	M37	X	0	0	0 %100
42	M37	Z	0	0	0 %100
43	M39	X	.505	.505	0 %100
44	M39	Z	.875	.875	0 %100
45	MP1B	X	.315	.315	0 %100
46	MP1B	Z	.545	.545	0 %100
47	MP2B	X	.315	.315	0 %100
48	MP2B	Z	.545	.545	0 %100
49	MP3B	X	.315	.315	0 %100
50	MP3B	Z	.545	.545	0 %100
51	MP4B	X	.315	.315	0 %100
52	MP4B	Z	.545	.545	0 %100
53	M48	X	.106	.106	0 %100
54	M48	Z	.184	.184	0 %100
55	M49	X	0	0	0 %100
56	M49	Z	0	0	0 %100
57	M50	X	.213	.213	0 %100
58	M50	Z	.369	.369	0 %100
59	M51	X	.213	.213	0 %100
60	M51	Z	.369	.369	0 %100
61	OVP	X	.257	.257	0 %100
62	OVP	Z	.446	.446	0 %100
63	M54	X	.286	.286	0 %100
64	M54	Z	.495	.495	0 %100
65	M61	X	0	0	0 %100
66	M61	Z	0	0	0 %100
67	M68	X	.286	.286	0 %100
68	M68	Z	.495	.495	0 %100
69	M75	X	.403	.403	0 %100
70	M75	Z	.698	.698	0 %100
71	M76	X	0	0	0 %100
72	M76	Z	0	0	0 %100
73	M77	X	.403	.403	0 %100
74	M77	Z	.698	.698	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	0	0	0 %100
2	FACE	Z	.93	.93	0 %100
3	M3	X	0	0	0 %100
4	M3	Z	0	0	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	.337	.337	0 %100
7	M9	X	0	0	0 %100
8	M9	Z	.337	.337	0 %100
9	MP1A	X	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
10	MP1A	Z	.629	.629	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.629	.629	0	%100
13	MP3A	X	0	0	0	%100
14	MP3A	Z	.629	.629	0	%100
15	MP4A	X	0	0	0	%100
16	MP4A	Z	.629	.629	0	%100
17	M16	X	0	0	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	0	0	0	%100
20	M17	Z	.232	.232	0	%100
21	M19A	X	0	0	0	%100
22	M19A	Z	.594	.594	0	%100
23	M21A	X	0	0	0	%100
24	M21A	Z	1.347	1.347	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	.337	.337	0	%100
27	MP1C	X	0	0	0	%100
28	MP1C	Z	.629	.629	0	%100
29	MP2C	X	0	0	0	%100
30	MP2C	Z	.629	.629	0	%100
31	MP3C	X	0	0	0	%100
32	MP3C	Z	.629	.629	0	%100
33	MP4C	X	0	0	0	%100
34	MP4C	Z	.629	.629	0	%100
35	M32	X	0	0	0	%100
36	M32	Z	.638	.638	0	%100
37	M33	X	0	0	0	%100
38	M33	Z	.232	.232	0	%100
39	M35	X	0	0	0	%100
40	M35	Z	.594	.594	0	%100
41	M37	X	0	0	0	%100
42	M37	Z	.337	.337	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	1.347	1.347	0	%100
45	MP1B	X	0	0	0	%100
46	MP1B	Z	.629	.629	0	%100
47	MP2B	X	0	0	0	%100
48	MP2B	Z	.629	.629	0	%100
49	MP3B	X	0	0	0	%100
50	MP3B	Z	.629	.629	0	%100
51	MP4B	X	0	0	0	%100
52	MP4B	Z	.629	.629	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	.638	.638	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	.142	.142	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	.568	.568	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	.142	.142	0	%100
61	OVP	X	0	0	0	%100
62	OVP	Z	.515	.515	0	%100
63	M54	X	0	0	0	%100
64	M54	Z	.762	.762	0	%100
65	M61	X	0	0	0	%100
66	M61	Z	.19	.19	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
67	M68	X	0	0	0 %100
68	M68	Z	.19	.19	0 %100
69	M75	X	0	0	0 %100
70	M75	Z	1.074	1.074	0 %100
71	M76	X	0	0	0 %100
72	M76	Z	.269	.269	0 %100
73	M77	X	0	0	0 %100
74	M77	Z	.269	.269	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	-.349	-.349	0 %100
2	FACE	Z	.604	.604	0 %100
3	M3	X	-.099	-.099	0 %100
4	M3	Z	.172	.172	0 %100
5	M7	X	0	0	0 %100
6	M7	Z	0	0	0 %100
7	M9	X	-.505	-.505	0 %100
8	M9	Z	.875	.875	0 %100
9	MP1A	X	-.315	-.315	0 %100
10	MP1A	Z	.545	.545	0 %100
11	MP2A	X	-.315	-.315	0 %100
12	MP2A	Z	.545	.545	0 %100
13	MP3A	X	-.315	-.315	0 %100
14	MP3A	Z	.545	.545	0 %100
15	MP4A	X	-.315	-.315	0 %100
16	MP4A	Z	.545	.545	0 %100
17	M16	X	-.106	-.106	0 %100
18	M16	Z	.184	.184	0 %100
19	M17	X	-.349	-.349	0 %100
20	M17	Z	.604	.604	0 %100
21	M19A	X	-.099	-.099	0 %100
22	M19A	Z	.172	.172	0 %100
23	M21A	X	-.505	-.505	0 %100
24	M21A	Z	.875	.875	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	0	0	0 %100
27	MP1C	X	-.315	-.315	0 %100
28	MP1C	Z	.545	.545	0 %100
29	MP2C	X	-.315	-.315	0 %100
30	MP2C	Z	.545	.545	0 %100
31	MP3C	X	-.315	-.315	0 %100
32	MP3C	Z	.545	.545	0 %100
33	MP4C	X	-.315	-.315	0 %100
34	MP4C	Z	.545	.545	0 %100
35	M32	X	-.106	-.106	0 %100
36	M32	Z	.184	.184	0 %100
37	M33	X	0	0	0 %100
38	M33	Z	0	0	0 %100
39	M35	X	-.396	-.396	0 %100
40	M35	Z	.686	.686	0 %100
41	M37	X	-.505	-.505	0 %100
42	M37	Z	.875	.875	0 %100
43	M39	X	-.505	-.505	0 %100
44	M39	Z	.875	.875	0 %100
45	MP1B	X	-.315	-.315	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...]	End Location[ft...]
46	MP1B	Z	.545	.545	0	%100
47	MP2B	X	-.315	-.315	0	%100
48	MP2B	Z	.545	.545	0	%100
49	MP3B	X	-.315	-.315	0	%100
50	MP3B	Z	.545	.545	0	%100
51	MP4B	X	-.315	-.315	0	%100
52	MP4B	Z	.545	.545	0	%100
53	M48	X	-.425	-.425	0	%100
54	M48	Z	.737	.737	0	%100
55	M49	X	-.213	-.213	0	%100
56	M49	Z	.369	.369	0	%100
57	M50	X	-.213	-.213	0	%100
58	M50	Z	.369	.369	0	%100
59	M51	X	0	0	0	%100
60	M51	Z	0	0	0	%100
61	OVP	X	-.257	-.257	0	%100
62	OVP	Z	.446	.446	0	%100
63	M54	X	-.286	-.286	0	%100
64	M54	Z	.495	.495	0	%100
65	M61	X	-.286	-.286	0	%100
66	M61	Z	.495	.495	0	%100
67	M68	X	0	0	0	%100
68	M68	Z	0	0	0	%100
69	M75	X	-.403	-.403	0	%100
70	M75	Z	.698	.698	0	%100
71	M76	X	-.403	-.403	0	%100
72	M76	Z	.698	.698	0	%100
73	M77	X	0	0	0	%100
74	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...]	End Location[ft...]
1	FACE	X	-.201	-.201	0	%100
2	FACE	Z	.116	.116	0	%100
3	M3	X	-.515	-.515	0	%100
4	M3	Z	.297	.297	0	%100
5	M7	X	-.292	-.292	0	%100
6	M7	Z	.168	.168	0	%100
7	M9	X	-1.166	-1.166	0	%100
8	M9	Z	.673	.673	0	%100
9	MP1A	X	-.545	-.545	0	%100
10	MP1A	Z	.315	.315	0	%100
11	MP2A	X	-.545	-.545	0	%100
12	MP2A	Z	.315	.315	0	%100
13	MP3A	X	-.545	-.545	0	%100
14	MP3A	Z	.315	.315	0	%100
15	MP4A	X	-.545	-.545	0	%100
16	MP4A	Z	.315	.315	0	%100
17	M16	X	-.553	-.553	0	%100
18	M16	Z	.319	.319	0	%100
19	M17	X	-.805	-.805	0	%100
20	M17	Z	.465	.465	0	%100
21	M19A	X	0	0	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	-.292	-.292	0	%100
24	M21A	Z	.168	.168	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
25	M23	X	-.292	0 %100
26	M23	Z	.168	0 %100
27	MP1C	X	-.545	0 %100
28	MP1C	Z	.315	0 %100
29	MP2C	X	-.545	0 %100
30	MP2C	Z	.315	0 %100
31	MP3C	X	-.545	0 %100
32	MP3C	Z	.315	0 %100
33	MP4C	X	-.545	0 %100
34	MP4C	Z	.315	0 %100
35	M32	X	0	0 %100
36	M32	Z	0	0 %100
37	M33	X	-.201	0 %100
38	M33	Z	.116	0 %100
39	M35	X	-.515	0 %100
40	M35	Z	.297	0 %100
41	M37	X	-1.166	0 %100
42	M37	Z	.673	0 %100
43	M39	X	-.292	0 %100
44	M39	Z	.168	0 %100
45	MP1B	X	-.545	0 %100
46	MP1B	Z	.315	0 %100
47	MP2B	X	-.545	0 %100
48	MP2B	Z	.315	0 %100
49	MP3B	X	-.545	0 %100
50	MP3B	Z	.315	0 %100
51	MP4B	X	-.545	0 %100
52	MP4B	Z	.315	0 %100
53	M48	X	-.553	0 %100
54	M48	Z	.319	0 %100
55	M49	X	-.492	0 %100
56	M49	Z	.284	0 %100
57	M50	X	-.123	0 %100
58	M50	Z	.071	0 %100
59	M51	X	-.123	0 %100
60	M51	Z	.071	0 %100
61	OVP	X	-.446	0 %100
62	OVP	Z	.257	0 %100
63	M54	X	-.165	0 %100
64	M54	Z	.095	0 %100
65	M61	X	-.66	0 %100
66	M61	Z	.381	0 %100
67	M68	X	-.165	0 %100
68	M68	Z	.095	0 %100
69	M75	X	-.233	0 %100
70	M75	Z	.134	0 %100
71	M76	X	-.93	0 %100
72	M76	Z	.537	0 %100
73	M77	X	-.233	0 %100
74	M77	Z	.134	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	0	0 %100
2	FACE	Z	0	0 %100
3	M3	X	-.792	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...	
4	M3	Z	0	0	%100	
5	M7	X	-1.01	-1.01	0	%100
6	M7	Z	0	0	0	%100
7	M9	X	-1.01	-1.01	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	-629	-629	0	%100
10	MP1A	Z	0	0	0	%100
11	MP2A	X	-629	-629	0	%100
12	MP2A	Z	0	0	0	%100
13	MP3A	X	-629	-629	0	%100
14	MP3A	Z	0	0	0	%100
15	MP4A	X	-629	-629	0	%100
16	MP4A	Z	0	0	0	%100
17	M16	X	-851	-851	0	%100
18	M16	Z	0	0	0	%100
19	M17	X	-697	-697	0	%100
20	M17	Z	0	0	0	%100
21	M19A	X	-198	-198	0	%100
22	M19A	Z	0	0	0	%100
23	M21A	X	0	0	0	%100
24	M21A	Z	0	0	0	%100
25	M23	X	-1.01	-1.01	0	%100
26	M23	Z	0	0	0	%100
27	MP1C	X	-629	-629	0	%100
28	MP1C	Z	0	0	0	%100
29	MP2C	X	-629	-629	0	%100
30	MP2C	Z	0	0	0	%100
31	MP3C	X	-629	-629	0	%100
32	MP3C	Z	0	0	0	%100
33	MP4C	X	-629	-629	0	%100
34	MP4C	Z	0	0	0	%100
35	M32	X	-213	-213	0	%100
36	M32	Z	0	0	0	%100
37	M33	X	-697	-697	0	%100
38	M33	Z	0	0	0	%100
39	M35	X	-198	-198	0	%100
40	M35	Z	0	0	0	%100
41	M37	X	-1.01	-1.01	0	%100
42	M37	Z	0	0	0	%100
43	M39	X	0	0	0	%100
44	M39	Z	0	0	0	%100
45	MP1B	X	-629	-629	0	%100
46	MP1B	Z	0	0	0	%100
47	MP2B	X	-629	-629	0	%100
48	MP2B	Z	0	0	0	%100
49	MP3B	X	-629	-629	0	%100
50	MP3B	Z	0	0	0	%100
51	MP4B	X	-629	-629	0	%100
52	MP4B	Z	0	0	0	%100
53	M48	X	-213	-213	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-426	-426	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M51	X	-426	-426	0	%100
60	M51	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
61	OVP	X	-515	-515	0	%100
62	OVP	Z	0	0	0	%100
63	M54	X	0	0	0	%100
64	M54	Z	0	0	0	%100
65	M61	X	-571	-571	0	%100
66	M61	Z	0	0	0	%100
67	M68	X	-571	-571	0	%100
68	M68	Z	0	0	0	%100
69	M75	X	0	0	0	%100
70	M75	Z	0	0	0	%100
71	M76	X	-806	-806	0	%100
72	M76	Z	0	0	0	%100
73	M77	X	-806	-806	0	%100
74	M77	Z	0	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...		
1	FACE	X	-201	-201	0	%100
2	FACE	Z	-116	-116	0	%100
3	M3	X	-515	-515	0	%100
4	M3	Z	-297	-297	0	%100
5	M7	X	-1.166	-1.166	0	%100
6	M7	Z	-673	-673	0	%100
7	M9	X	-292	-292	0	%100
8	M9	Z	-168	-168	0	%100
9	MP1A	X	-545	-545	0	%100
10	MP1A	Z	-315	-315	0	%100
11	MP2A	X	-545	-545	0	%100
12	MP2A	Z	-315	-315	0	%100
13	MP3A	X	-545	-545	0	%100
14	MP3A	Z	-315	-315	0	%100
15	MP4A	X	-545	-545	0	%100
16	MP4A	Z	-315	-315	0	%100
17	M16	X	-553	-553	0	%100
18	M16	Z	-319	-319	0	%100
19	M17	X	-201	-201	0	%100
20	M17	Z	-116	-116	0	%100
21	M19A	X	-515	-515	0	%100
22	M19A	Z	-297	-297	0	%100
23	M21A	X	-292	-292	0	%100
24	M21A	Z	-168	-168	0	%100
25	M23	X	-1.166	-1.166	0	%100
26	M23	Z	-673	-673	0	%100
27	MP1C	X	-545	-545	0	%100
28	MP1C	Z	-315	-315	0	%100
29	MP2C	X	-545	-545	0	%100
30	MP2C	Z	-315	-315	0	%100
31	MP3C	X	-545	-545	0	%100
32	MP3C	Z	-315	-315	0	%100
33	MP4C	X	-545	-545	0	%100
34	MP4C	Z	-315	-315	0	%100
35	M32	X	-553	-553	0	%100
36	M32	Z	-319	-319	0	%100
37	M33	X	-805	-805	0	%100
38	M33	Z	-465	-465	0	%100
39	M35	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
40	M35	Z	0	0	0	%100
41	M37	X	-.292	-.292	0	%100
42	M37	Z	-.168	-.168	0	%100
43	M39	X	-.292	-.292	0	%100
44	M39	Z	-.168	-.168	0	%100
45	MP1B	X	-.545	-.545	0	%100
46	MP1B	Z	-.315	-.315	0	%100
47	MP2B	X	-.545	-.545	0	%100
48	MP2B	Z	-.315	-.315	0	%100
49	MP3B	X	-.545	-.545	0	%100
50	MP3B	Z	-.315	-.315	0	%100
51	MP4B	X	-.545	-.545	0	%100
52	MP4B	Z	-.315	-.315	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-.123	-.123	0	%100
56	M49	Z	-.071	-.071	0	%100
57	M50	X	-.123	-.123	0	%100
58	M50	Z	-.071	-.071	0	%100
59	M51	X	-.492	-.492	0	%100
60	M51	Z	-.284	-.284	0	%100
61	OVP	X	-.446	-.446	0	%100
62	OVP	Z	-.257	-.257	0	%100
63	M54	X	-.165	-.165	0	%100
64	M54	Z	-.095	-.095	0	%100
65	M61	X	-.165	-.165	0	%100
66	M61	Z	-.095	-.095	0	%100
67	M68	X	-.66	-.66	0	%100
68	M68	Z	-.381	-.381	0	%100
69	M75	X	-.233	-.233	0	%100
70	M75	Z	-.134	-.134	0	%100
71	M76	X	-.233	-.233	0	%100
72	M76	Z	-.134	-.134	0	%100
73	M77	X	-.93	-.93	0	%100
74	M77	Z	-.537	-.537	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft...	End Locationft...
1	FACE	X	-.349	-.349	0	%100
2	FACE	Z	-.604	-.604	0	%100
3	M3	X	-.099	-.099	0	%100
4	M3	Z	-.172	-.172	0	%100
5	M7	X	-.505	-.505	0	%100
6	M7	Z	-.875	-.875	0	%100
7	M9	X	0	0	0	%100
8	M9	Z	0	0	0	%100
9	MP1A	X	-.315	-.315	0	%100
10	MP1A	Z	-.545	-.545	0	%100
11	MP2A	X	-.315	-.315	0	%100
12	MP2A	Z	-.545	-.545	0	%100
13	MP3A	X	-.315	-.315	0	%100
14	MP3A	Z	-.545	-.545	0	%100
15	MP4A	X	-.315	-.315	0	%100
16	MP4A	Z	-.545	-.545	0	%100
17	M16	X	-.106	-.106	0	%100
18	M16	Z	-.184	-.184	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
19	M17	X	0	0 %100
20	M17	Z	0	0 %100
21	M19A	X	-396	0 %100
22	M19A	Z	-686	0 %100
23	M21A	X	-505	0 %100
24	M21A	Z	-875	0 %100
25	M23	X	-505	0 %100
26	M23	Z	-875	0 %100
27	MP1C	X	-315	0 %100
28	MP1C	Z	-545	0 %100
29	MP2C	X	-315	0 %100
30	MP2C	Z	-545	0 %100
31	MP3C	X	-315	0 %100
32	MP3C	Z	-545	0 %100
33	MP4C	X	-315	0 %100
34	MP4C	Z	-545	0 %100
35	M32	X	-425	0 %100
36	M32	Z	-737	0 %100
37	M33	X	-349	0 %100
38	M33	Z	-604	0 %100
39	M35	X	-099	0 %100
40	M35	Z	-172	0 %100
41	M37	X	0	0 %100
42	M37	Z	0	0 %100
43	M39	X	-505	0 %100
44	M39	Z	-875	0 %100
45	MP1B	X	-315	0 %100
46	MP1B	Z	-545	0 %100
47	MP2B	X	-315	0 %100
48	MP2B	Z	-545	0 %100
49	MP3B	X	-315	0 %100
50	MP3B	Z	-545	0 %100
51	MP4B	X	-315	0 %100
52	MP4B	Z	-545	0 %100
53	M48	X	-106	0 %100
54	M48	Z	-184	0 %100
55	M49	X	0	0 %100
56	M49	Z	0	0 %100
57	M50	X	-213	0 %100
58	M50	Z	-369	0 %100
59	M51	X	-213	0 %100
60	M51	Z	-369	0 %100
61	OVP	X	-257	0 %100
62	OVP	Z	-446	0 %100
63	M54	X	-286	0 %100
64	M54	Z	-495	0 %100
65	M61	X	0	0 %100
66	M61	Z	0	0 %100
67	M68	X	-286	0 %100
68	M68	Z	-495	0 %100
69	M75	X	-403	0 %100
70	M75	Z	-698	0 %100
71	M76	X	0	0 %100
72	M76	Z	0	0 %100
73	M77	X	-403	0 %100
74	M77	Z	-698	0 %100



**Member Distributed Loads (BLC 87 : BLC 39 Transient Area Loads)**

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	Y	-1.767	2.917 7.292
2	FACE	Y	-1.767	7.292 11.667
3	M7	Y	-1.042	.717 2.15
4	M7	Y	-6.266	2.15 3.583
5	M9	Y	-1.042	.717 2.15
6	M9	Y	-6.266	2.15 3.583
7	M16	Y	-19.088	.793 2.626
8	M17	Y	-1.767	2.917 7.292
9	M17	Y	-1.767	7.292 11.667
10	M21A	Y	-1.042	.717 2.15
11	M21A	Y	-6.266	2.15 3.583
12	M23	Y	-1.042	.717 2.15
13	M23	Y	-6.266	2.15 3.583
14	M32	Y	-19.088	.793 2.626
15	M33	Y	-1.767	2.917 7.292
16	M33	Y	-1.767	7.292 11.667
17	M37	Y	-1.042	.717 2.15
18	M37	Y	-6.266	2.15 3.583
19	M39	Y	-1.042	.717 2.15
20	M39	Y	-6.266	2.15 3.583
21	M48	Y	-19.088	.793 2.626

**Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads)**

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	Y	-4.351	2.917 7.292
2	FACE	Y	-4.351	7.292 11.667
3	M7	Y	-2.567	.717 2.15
4	M7	Y	-15.43	2.15 3.583
5	M9	Y	-2.565	.717 2.15
6	M9	Y	-15.431	2.15 3.583
7	M16	Y	-47.008	.793 2.626
8	M17	Y	-4.351	2.917 7.292
9	M17	Y	-4.351	7.292 11.667
10	M21A	Y	-2.567	.717 2.15
11	M21A	Y	-15.43	2.15 3.583
12	M23	Y	-2.565	.717 2.15
13	M23	Y	-15.431	2.15 3.583
14	M32	Y	-47.008	.793 2.626
15	M33	Y	-4.351	2.917 7.292
16	M33	Y	-4.351	7.292 11.667
17	M37	Y	-2.567	.717 2.15
18	M37	Y	-15.43	2.15 3.583
19	M39	Y	-2.565	.717 2.15
20	M39	Y	-15.431	2.15 3.583
21	M48	Y	-47.008	.793 2.626

**Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads)**

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	Z	-0.053	2.917 7.292
2	FACE	Z	-0.053	7.292 11.667
3	M7	Z	-0.031	.717 2.15
4	M7	Z	-1.188	2.15 3.583
5	M9	Z	-0.031	.717 2.15
6	M9	Z	-1.188	2.15 3.583
7	M16	Z	-0.573	.793 2.626
8	M17	Z	-0.053	2.917 7.292



**Member Distributed Loads (BLC 90 : BLC 85 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
9	M17	Z	-.053	-.053	7.292 11.667
10	M21A	Z	-.031	-.188	.717 2.15
11	M21A	Z	-.188	-.345	2.15 3.583
12	M23	Z	-.031	-.188	.717 2.15
13	M23	Z	-.188	-.345	2.15 3.583
14	M32	Z	-.573	-.573	.793 2.626
15	M33	Z	-.053	-.053	2.917 7.292
16	M33	Z	-.053	-.053	7.292 11.667
17	M37	Z	-.031	-.188	.717 2.15
18	M37	Z	-.188	-.345	2.15 3.583
19	M39	Z	-.031	-.188	.717 2.15
20	M39	Z	-.188	-.345	2.15 3.583
21	M48	Z	-.573	-.573	.793 2.626

**Member Distributed Loads (BLC 91 : BLC 86 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Location[ft...End Location[ft...
1	FACE	X	.053	.053	2.917 7.292
2	FACE	X	.053	.053	7.292 11.667
3	M7	X	.031	.188	.717 2.15
4	M7	X	.188	.345	2.15 3.583
5	M9	X	.031	.188	.717 2.15
6	M9	X	.188	.345	2.15 3.583
7	M16	X	.573	.573	.793 2.626
8	M17	X	.053	.053	2.917 7.292
9	M17	X	.053	.053	7.292 11.667
10	M21A	X	.031	.188	.717 2.15
11	M21A	X	.188	.345	2.15 3.583
12	M23	X	.031	.188	.717 2.15
13	M23	X	.188	.345	2.15 3.583
14	M32	X	.573	.573	.793 2.626
15	M33	X	.053	.053	2.917 7.292
16	M33	X	.053	.053	7.292 11.667
17	M37	X	.031	.188	.717 2.15
18	M37	X	.188	.345	2.15 3.583
19	M39	X	.031	.188	.717 2.15
20	M39	X	.188	.345	2.15 3.583
21	M48	X	.573	.573	.793 2.626

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N34	N33	N31	Y	Two Way	-.005
2	N49	N51	N50	N48	Y	Two Way	-.005
3	N83	N85	N84	N82	Y	Two Way	-.005

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N34	N33	N31	Y	Two Way	-.013
2	N49	N51	N50	N48	Y	Two Way	-.013
3	N83	N85	N84	N82	Y	Two Way	-.013

**Member Area Loads (BLC 84 : Structure Ev)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N34	N33	N31	Y	Two Way	0
2	N49	N51	N50	N48	Y	Two Way	0



**Member Area Loads (BLC 84 : Structure Ev) (Continued)**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
3	N83	N85	N84	N82	Y	Two Way	0

**Member Area Loads (BLC 85 : Structure Eh (0 Deg))**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N34	N33	N31	Z	Two Way	-.000156
2	N49	N51	N50	N48	Z	Two Way	-.000156
3	N83	N85	N84	N82	Z	Two Way	-.000156

**Member Area Loads (BLC 86 : Structure Eh (90 Deg))**

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N32	N34	N33	N31	X	Two Way	.000156
2	N49	N51	N50	N48	X	Two Way	.000156
3	N83	N85	N84	N82	X	Two Way	.000156

**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	N101A	max	1043.336	9	2893.151	17	2132.535	1	-1.999	1	2.942	11	3.671	41
2		min	-1028.947	3	786.364	75	-1654.559	7	-11.095	19	-2.907	3	-1.933	49
3	N103	max	1584.14	9	2636.874	13	1249.107	2	5.524	13	3.387	7	9.164	16
4		min	-1159.158	3	741.809	72	-1486.865	8	.598	7	-3.446	1	2.037	10
5	N105	max	1304.283	10	2633.506	21	1127.012	12	5.128	24	2.73	3	-1.918	4
6		min	-1743.772	4	741.109	67	-1369.049	6	.493	6	-2.712	9	-9.361	22
7	Totals:	max	3912.418	10	8152.543	22	4314.698	1						
8		min	-3912.408	4	2269.636	67	-4314.705	7						

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

Memb...	Shape	Code Check	Loc[ft]	LC	Shear	Loc[...]	Dir	LC	phi*P...	phi*Pnt [...]	phi*Mn ...	phi*Mn z-...	Cb	Eqn
1	FACE	PIPE 3.5	.467	7.292	38	.250	7.292		1	33093..	78750	7.954	7.954	1.7..H1..
2	M3	HSS4X4X4	.733	1.148	20	.315	1.148	y	41	13659..	139518	16.181	16.181	1.3..H1..
3	M7	L4X4X4	.191	0	9	.010	0	z	14	46815..	62532	3.138	6.715	1.56H2..
4	M9	L4X4X4	.185	0	5	.010	0	y	42	46815..	62532	3.138	6.715	1.5..H2..
5	MP1A	PIPE 2.0	.481	3.625	48	.151	3.625		44	20866..	32130	1.872	1.872	1.9..H1..
6	MP2A	PIPE 2.0	.699	3.656	1	.088	3.656		8	19360..	32130	1.872	1.872	1.8..H1..
7	MP3A	PIPE 2.0	.351	3.656	14	.094	1.422		6	19360..	32130	1.872	1.872	1.8..H1..
8	MP4A	PIPE 2.0	.283	3	49	.095	.5		6	22845..	32130	1.872	1.872	2.0..H1..
9	M16	HSS4X4X4	.516	0	20	.311	0	y	41	13286..	139518	16.181	16.181	1.8..H1..
10	M17	PIPE 3.5	.358	7.292	20	.244	7.292		8	33093..	78750	7.954	7.954	1.7..H1..
11	M19A	HSS4X4X4	.709	1.148	13	.107	1.148	z	7	13659..	139518	16.181	16.181	1.3..H1..
12	M21A	L4X4X4	.183	0	5	.011	0	z	38	46815..	62532	3.138	6.715	1.5..H2..
13	M23	L4X4X4	.210	0	1	.009	3.583	z	1	46815..	62532	3.138	6.715	1.57H2..
14	MP1C	PIPE 2.0	.427	3.625	19	.112	3.625		4	20866..	32130	1.872	1.872	1.3..H1..
15	MP2C	PIPE 2.0	.643	3.656	8	.088	3.724		4	19360..	32130	1.872	1.872	1.9..H1..
16	MP3C	PIPE 2.0	.361	3.656	22	.100	3.656		2	19360..	32130	1.872	1.872	2.1..H1..
17	MP4C	PIPE 2.0	.289	3	23	.116	.5		2	22845..	32130	1.872	1.872	2.1..H1..
18	M32	HSS4X4X4	.504	0	14	.107	0	z	7	13286..	139518	16.181	16.181	1.8..H1..
19	M33	PIPE 3.5	.371	7.292	18	.244	7.292		5	33093..	78750	7.954	7.954	1.6..H1..
20	M35	HSS4X4X4	.691	1.148	24	.114	1.148	y	21	13659..	139518	16.181	16.181	1.3..H1..
21	M37	L4X4X4	.207	0	1	.009	3.583	y	1	46815..	62532	3.138	6.715	1.57H2..
22	M39	L4X4X4	.192	0	9	.010	0	y	18	46815..	62532	3.138	6.715	1.5..H2..
23	MP1B	PIPE 2.0	.418	3.625	16	.123	3.625		12	20866..	32130	1.872	1.872	2.1..H1..
24	MP2B	PIPE 2.0	.685	3.656	5	.088	3.724		1	19360..	32130	1.872	1.872	2.1..H1..
25	MP3B	PIPE 2.0	.346	3.656	18	.096	3.656		11	19360..	32130	1.872	1.872	1.84H1..
26	MP4B	PIPE 2.0	.262	3	19	.098	.5		10	22845..	32130	1.872	1.872	1.4..H1..



Company : Maser Consulting  
 Designer : NL  
 Job Number : Project No. 10112268  
 Model Name : 468823-VZW\_MT\_LO\_H

Mar 1, 2022  
 10:25 AM  
 Checked By: JL

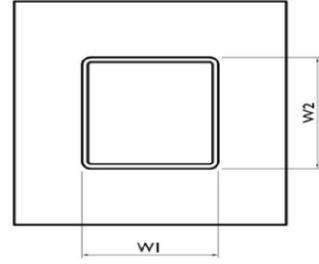
**Envelope AISC 15th(360-16): LRFD Steel Code Checks (Continued)**

Memb...	Shape	Code Check	Loc[ft]	LC	Shear ...	Loc[...]	Dir	LC	phi*P...	phi*Pnt [...]	phi*Mn ...	phi*Mn z-...	Cb	Eqn
27	M48	HSS4X4X4	.493	0	24	.113	0	y	21	13286..	139518	16.181	16.181	1.8.. H1..
28	M49	L2x2x2	.016	.372	9	.073	.744	y	38	12739..	15908.4	.403	.845	1.1.. H2..
29	M50	L2x2x2	.017	.372	1	.021	.744	z	2	12739..	15908.4	.403	.845	1.1.. H2..
30	M51	L2x2x2	.015	.372	5	.117	.744	y	38	12739..	15908.4	.403	.845	1.1.. H2..
31	OVP	PIPE 2.0	.180	2.5	7	.018	2.5		7	28843..	32130	1.872	1.872	1 H1..
32	M54	PIPE 2.5	.237	8.203	47	.080	8.203		8	10696..	50715	3.596	3.596	1.9.. H1..
33	M61	PIPE 2.5	.230	8.203	19	.094	3.494		8	10696..	50715	3.596	3.596	2.7.. H1..
34	M68	PIPE 2.5	.233	8.203	15	.080	8.203		12	10696..	50715	3.596	3.596	2.5.. H1..
35	M75	L3X3X4	.265	3.415	22	.067	0	y	10	36033..	46656	1.688	3.632	1.2.. H2..
36	M76	L3X3X4	.274	0	24	.156	0	y	42	36033..	46656	1.688	3.657	1.2.. H2..
37	M77	L3X3X4	.268	0	20	.196	0	y	38	36033..	46656	1.688	3.664	1.3.. H2..

Tower Connection Weld Checks

Weld Shape:  
Weld Stiffener Configuration:  
Stiffener Notch Length, n (in):  
Weld Size (1/16 in):  
W1 (in):  
W2 (in):  
Weld Total Length (in):  
 $Z_x$  (in<sup>3</sup>/in):  
 $Z_y$  (in<sup>3</sup>/in):  
 $J_p$  (in<sup>4</sup>/in):  
 $c_x$  (in)  
 $c_y$  (in)  
Required combined strength (kip/in):  
Weld Capacity (kip/in):  
Weld Utilization:

Yes
Rectangle
None
0
8
4
4
16.00
21.33
21.33
85.33
2.25
2.25
4.41
11.14
<b>39.6%</b>





# Maser Consulting Connecticut

**Subject**

*TIA-222-H Adoption and Wind Speed Usage*

**Site Information**

Site ID: 468823-VZW / NORTH CANTON CT  
Site Name: NORTH CANTON CT  
Carrier Name: Verizon Wireless  
Address: 540 Cherry Brook Road  
North Canton, Connecticut 06019  
Hartford County  
Latitude: 41.894161°  
Longitude: -72.893286°

**Structure Information**

Tower Type: Monopole  
Mount Type: 14.58-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 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. The 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: 2022.03.02 09:18:25-05'00'

Justin Linette, PE  
Technical Manager







PROJECT NOTES

- 1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER REGULATORY GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. 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.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES AND STRUCTURES ON THE PROJECT. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF THE CONSTRUCTION OF THE FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND THE MANUFACTURER'S RECOMMENDATIONS.
7. 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.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS OF EXISTING STRUCTURE SHOWN ON THESE DRAWINGS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE MAINTAINED. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL PROTECTIVE EQUIPMENT SHOULD BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).
12. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS OF EXISTING STRUCTURE SHOWN ON THESE DRAWINGS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
13. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE MAINTAINED. EQUIPMENT SHOULD BE SHUT DOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL PROTECTIVE EQUIPMENT SHOULD BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
14. NO NOISE, SMOKE, DUST OR ODOOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
15. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

- 1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-223-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 UTILITIES AND STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK. ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND THE 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 MODIFICATION, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE DRAWINGS SHALL BE PERFORMED BY A QUALIFIED WORKER WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE 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 CONSTRUCTION OF THE FACILITY. THE CONTRACTOR SHALL MEET ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER REGULATORY GOVERNING AUTHORITIES.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND COMPLETING ALL MODIFICATION PROGRAMS IN ACCORDANCE WITH ALL APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY WINDS (WINDS LESS THAN 30MPH). THE STRUCTURES 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, CONSTRUCTION AND OPERATION. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS SHALL BE DESIGNED, COORDINATED AND CONSTRUCTED BY THE CONTRACTOR AFTER THEIR USE. THE CONTRACTOR SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THE STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPRAC, GROUNDING, AND OTHER ITEMS SHALL BE REPAIRED TO ORIGINAL CONDITION. APPROVAL REQUIRED TO ACHIEVE OWNER APPROVAL POSITIVE DAMAGE 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 SHALL BE DESIGNED, COORDINATED AND CONSTRUCTED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL STATE, COUNTY OR MUNICIPAL AUTHORITIES.
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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SIZE AND ANCHOR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MEMBER UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

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 (GR 36)
STEEL PIPE ASTM A53 (GR 35)
ASTM A325
ASTM A490
NUTS LOCKING STRUCTURAL GRADE
LOCK WASHERS
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 BETWEEN THE ORIGINAL DESIGN CRITERIA AND THE SUBSTITUTE SHALL BE NOTED, ESTIMATES OF COSTS AND COSTS TO THE SUBSTITUTION (INCLUDING REDESIGN COSTS AND COSTS TO SUB-CONTRACTORS) 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
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.
5. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
6. ALL NEW STEEL SHALL BE HOT DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. EXISTING STRUCTURAL STEEL SHALL BE PAIRED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
7. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
8. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-223-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 NEW BOLTS AND MATCH EXISTING DISTANCE AND SPACING.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING DISTANCE AND SPACING.

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE ALL NECESSARY HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS SHALL BE DESIGNED, COORDINATED AND CONSTRUCTED BY THE CONTRACTOR AFTER THEIR USE. THE CONTRACTOR SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THE STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOPRAC, GROUNDING, AND OTHER ITEMS SHALL BE REPAIRED TO ORIGINAL CONDITION. APPROVAL REQUIRED TO ACHIEVE OWNER APPROVAL POSITIVE DAMAGE 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 SHALL BE DESIGNED, COORDINATED AND CONSTRUCTED BY A PROFESSIONAL ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL STATE, COUNTY OR MUNICIPAL AUTHORITIES.
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. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE SIZE AND ANCHOR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MEMBER UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

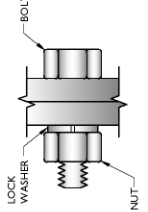
- 12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE MEMBER TO WHICH IT IS APPLIED AND TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED GALVANIZED SURFACES DAMAGED DURING REPAIRS INCLUDING AREAS UNDER STRENGTHENING 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.

WELDING NOTES

- 1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTOR (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMPLETING A THIRD PARTY INSPECTION REPORT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE IN A WRITTEN CWI REPORT THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH ACCEPTANCE CRITERIA OF AWS D1.1. THE CONTRACTOR SHALL PROVIDE PHOTOGRAPHY AND PHOTOS SHALL BE SUBMITTED DURING THE PMI DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED MEMBER WITH A GRINDER.
7. CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA AND/AS3291.0 AND ANS1 Z89.1 AND LOCAL JURISDICTIONAL REQUIREMENTS.

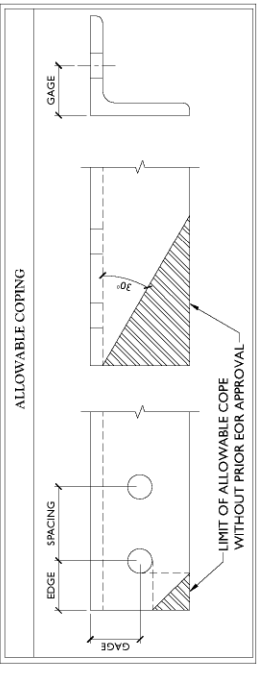
Table with 4 columns: BOLT DIAMETER, STANDARD HOLE, SHORT SLOT, MIN. EDGE DISTANCE, SPACING. Rows include diameters 1/2, 5/8, 3/4, 7/8, 1 and various hole/slot dimensions.

Table with 2 columns: LEG, GAGE. Rows include leg sizes 4, 3 1/2, 3, 2 1/2, 2 and corresponding gage values.



TYP. BOLT ASSEMBLY

- NOTES:
1. ALL DIMENSIONS REPRESENTED IN THE ABOVE TABLES ARE AISC MINIMUM REQUIREMENTS. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN FIELD AND NOTIFY ENGINEER IF DISTANCES ARE LESS THAN THOSE PROVIDED.
2. THE DIMENSIONS PROVIDED ARE MINIMUM REQUIREMENTS. ACTUAL DIMENSIONS MAY VARY WITHIN THE AISC MINIMUM REQUIREMENTS.
3. SHORT SLOT HOLES SHALL ONLY BE USED WHEN DEPICTED IN THE DRAWINGS.
4. MATCH EXISTING GAGES WHEN APPLICABLE UNLESS MINIMUM EDGE DISTANCES ARE COMPROMISED.



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Table with 3 columns: NO., REVISION, DATE. Includes revision details for PERMITS, PERMITS, PERMITS, PERMITS, PERMITS.



SITE NAME: NORTH CANTON CT 468823 540 CHERRY BROOK ROAD HARTFORD COUNTY

MASER CONSULTING logo and contact information: 111 ALABAMA DRIVE, SUITE 100, HARTFORD, CT 06105. Phone: 860.321.1411. Fax: 860.321.1412.

MODIFICATION NOTES: SCN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

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**PROFESSIONAL SEAL**

STATE OF CONNECTICUT  
 REGISTERED PROFESSIONAL ENGINEER

Signature: [Handwritten Signature]

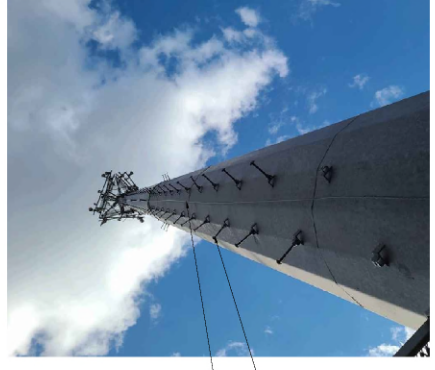
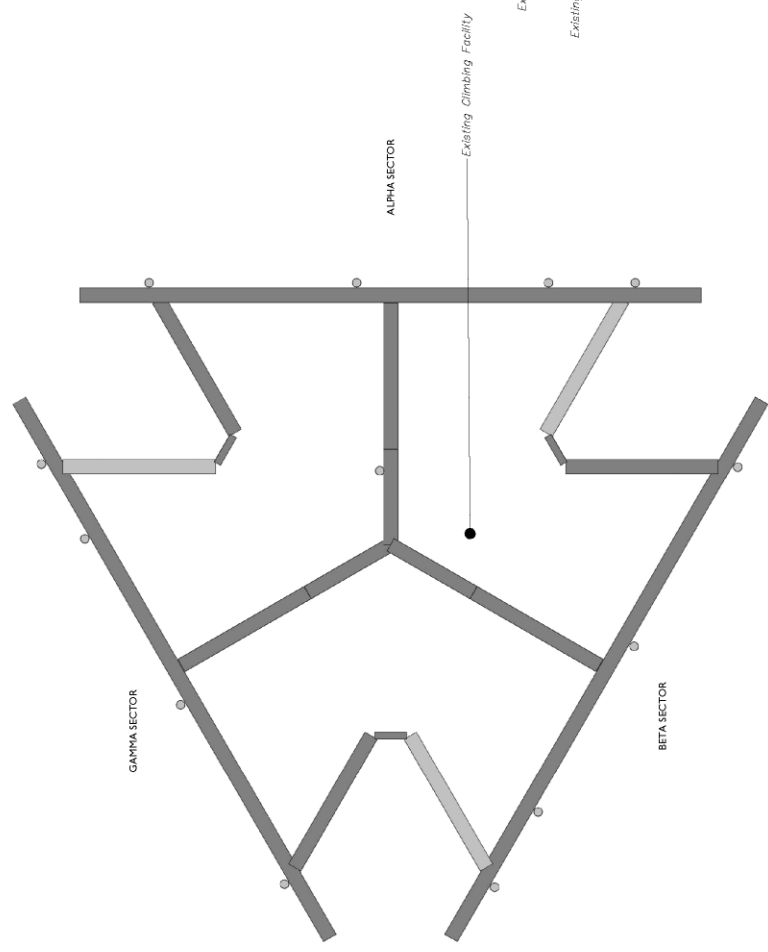
Digitally signed by Justin Prael  
 Date: 2022.05.05 09:20:41 -0400

**SITE NAME:**  
 NORTH CANTON CT  
 468823  
 540 CHERRY BROOK ROAD  
 NORTH CANTON CT 06106  
 HARTFORD COUNTY

**MASER CONSULTING**

PROJECT: CLIMBING FACILITY DETAIL

SCALE: SCF-1



CLIMBING FACILITY PHOTO

**CLIMBING FACILITY LOCATION**

SCALE: N.T.S.

1

**STRUCTURAL NOTES:**

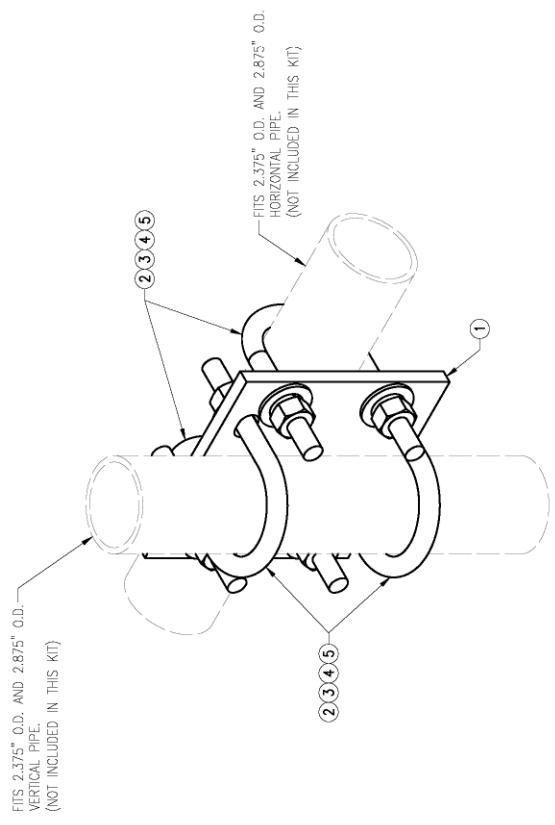
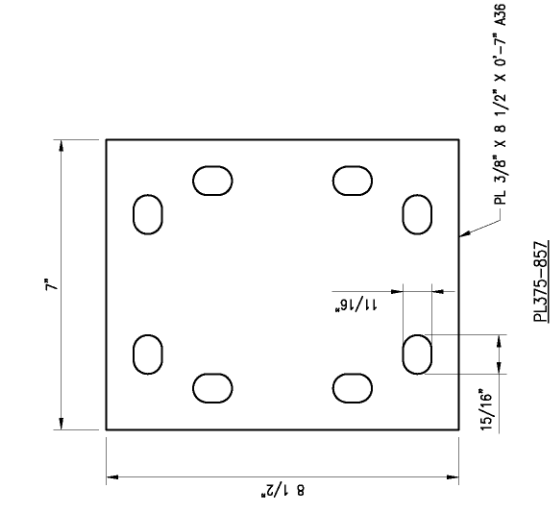
1. PER THE MOUNT MAPPING COMPLETED BY ROAMING NETWORKS, INC. ON 3/30/2021, THE SAFETY CLIMB AND CLIMBING FACILITIES UP TO THE VERIZON MOUNT ELEVATION (149'-0") ARE IN GOOD CONDITION. MASER DOES NOT WARRANT THIS INFORMATION.
2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE. CLIMBING FACILITY, SAFETY CLIMB, 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.





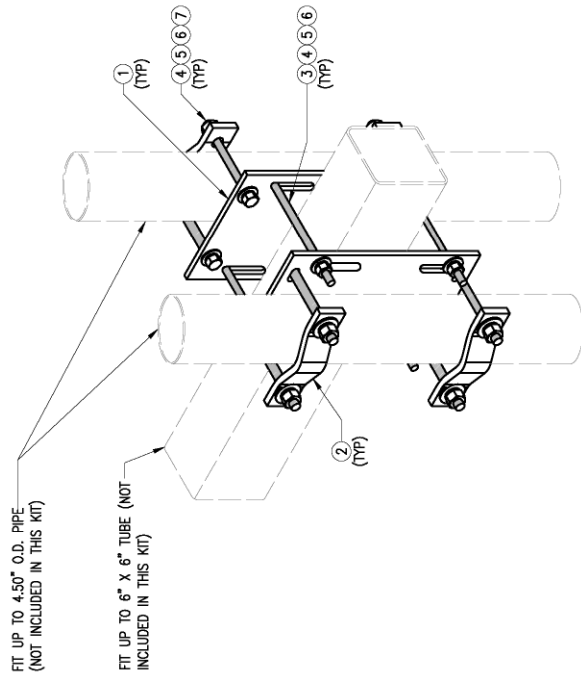
DRAWN BY: H.R.	CHECKED BY: H.M.
REV. DESCRIPTION	OR DATE
1. FIRST ISSUE	H.R. 05/08/20
△	
△	
△	
△	

SHEET TITLE:	
VZWSMART-MSK1 CROSSOVER PLATE	
SHEET NUMBER:	REV #:
VZWSMART-MSK1	0



ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	1	PL-375-857	PL 3/8" X 8 1/2" X 0'-7" A36	MSK1-F1	6
2	4	MSD2-625-300-500	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	NUJ-625	5/8" HDG HEX NUT	---	1
VZWSMART-MSK1 (CROSSOVER PLATE)				GALVANIZED WT 14	

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



1  
 FIT UP TO 4.50" O.D. PIPE  
 (NOT INCLUDED IN THIS KIT)

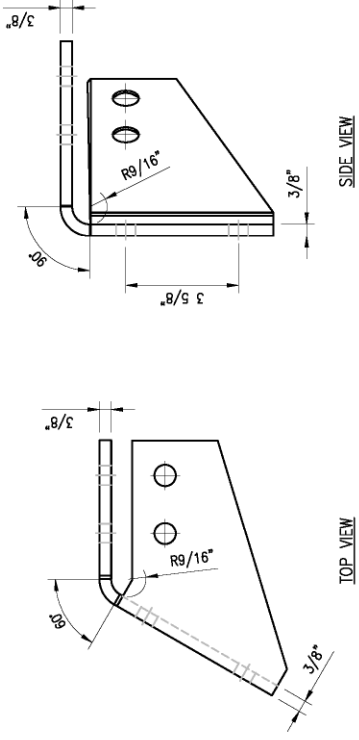
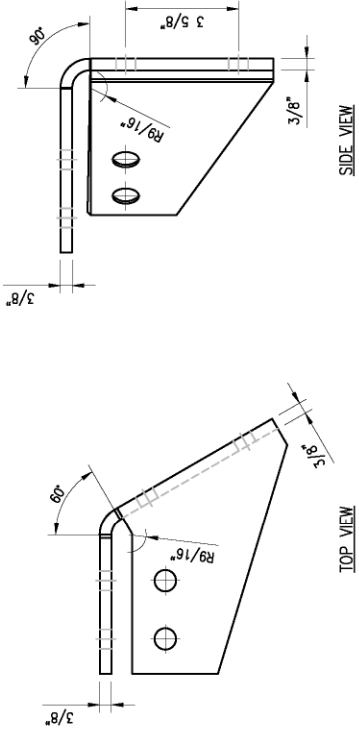
2  
 FIT UP TO 6" X 6" TUBE (NOT  
 INCLUDED IN THIS KIT)

ISOMETRIC VIEW  
 BACK TO BACK CROSSOVER

VZSMART-MSK6 (VZSMART-MSK6 - BACK TO BACK CROSSOVER)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	2	PL375-8512	PL 3/8" X 8 1/2" X 1'-0" A36	MSK6-F2	20.7
2	4	VOP	PL 1/2" X 2" X 8 5/8" A36 BENT PLATE	MSK6-F1	9.6
3	4	---	THREADED ROD 5/8" DIA. X 10" F1554-36 HDG	---	---
4	16	NUT-625	5/8" HDG HEX NUT	---	2
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1
6	16	LW-625	5/8" HDG LOCK WASHER	---	0
7	8	---	BOLT 5/8" X 6" SAE GRADE 5 ALL THREAD	---	1
				<b>GALVANIZED</b>	<b>WT</b>
					<b>34</b>

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



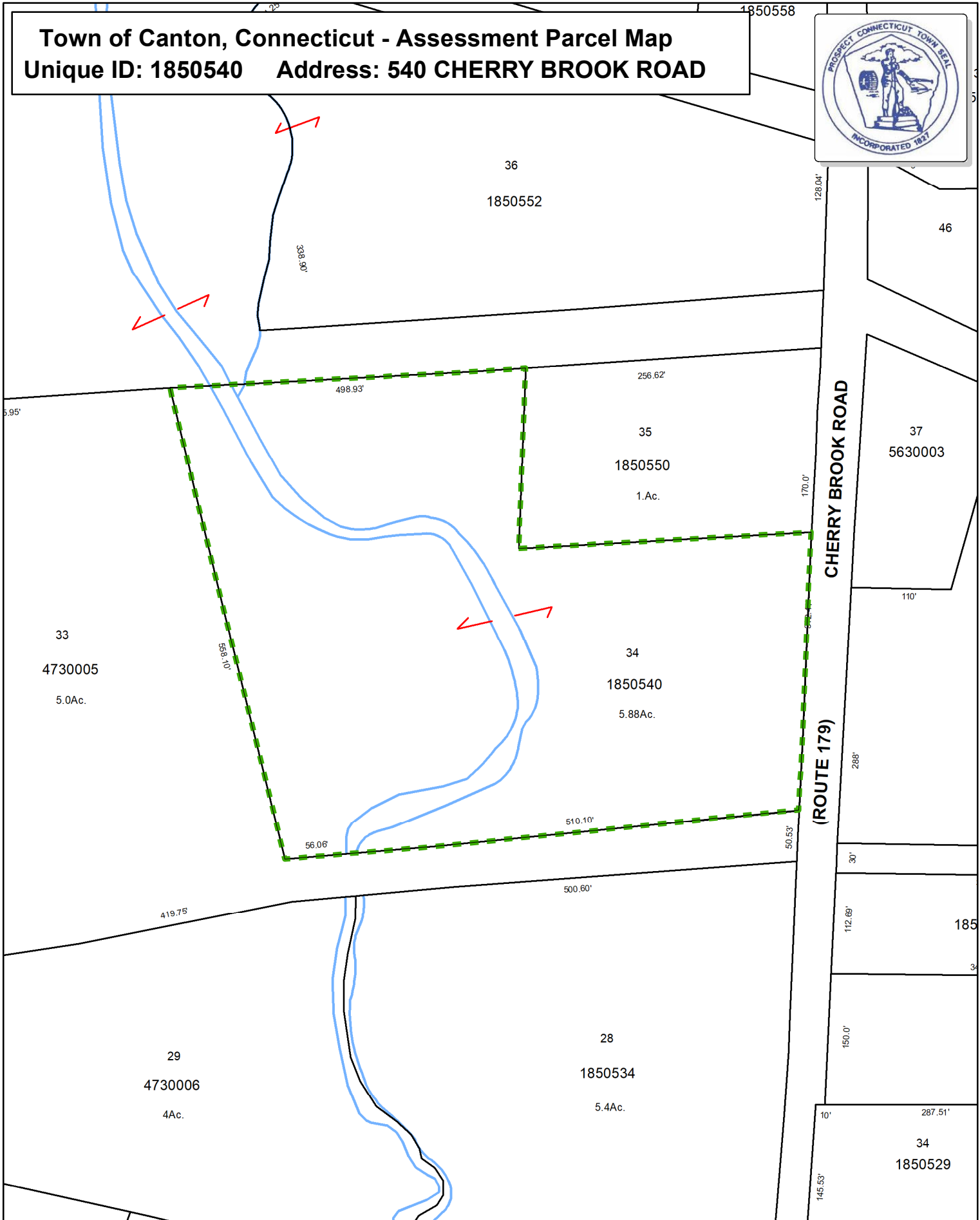
NOTES:  
 1. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK3 (SUPPORT RAIL CORNER BRACKET)						
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT	
1	1	CBP-L	CORNER BENT PLATE BRACKET	PLK3-F1	9	
2	1	CBP-R	CORNER BENT PLATE BRACKET	PLK3-F1	9	
3	4	MS02-625-300-500	RU-BOLT 5/8" X 3" LW X 5" I.L. A36 (OR EQUIV.)	R00-1	5	
4	8	---	BOLT 5/8" X 2" A325	---	3	
5	16	FW-625	5/8" HDG USS FLAT WASHER	---	1	
6	16	LW-625	5/8" HDG LOCK WASHER	---	0	
7	16	NUT-625	5/8" HDG HEX NUT	---	2	
					<b>GALVANIZED WT</b>	<b>30</b>



# **ATTACHMENT 5**

**Town of Canton, Connecticut - Assessment Parcel Map**  
**Unique ID: 1850540    Address: 540 CHERRY BROOK ROAD**



**Approximate Scale:**  
 1 inch = 142 feet

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

**Map Produced**  
 June 2021

--- Sublot  
 --- Easement  
 --- Parcel ID  
 89' Dimension

The Assessor's office is responsible for the maintenance of records on the ownership of properties. Assessments are computed at 70% of the estimated market value of real property at the time of the last revaluation which was 2018.



# TOWN OF CANTON<sub>CT</sub>

Information on the Property Records for the Municipality of Canton was last updated on 4/19/2022.

## Property Summary Information

Parcel Data And Values **Building** ▾ Outbuildings Sales

### Parcel Information

Location:	540 CHERRY BROOK ROAD	Property Use:	Automotive	Primary Use:	Serv Sta w/o Bays
Unique ID:	1850540	Map Block Lot:	7/185/0540	Acres:	5.77
490 Acres:	0.00	Zone:	MCPF	Volume / Page:	438/ 33
Developers Map / Lot:		Census:			

### Value Information

	Appraised Value	Assessed Value
Land	171,310	119,910
Buildings	591,394	413,980
Detached Outbuildings	4,800	3,360
<b>Total</b>	<b>767,504</b>	<b>537,250</b>



### Owner's Information

Owner's Data
CANTON TOWN OF PO BOX 168 COLLINSVILLE, CT 06022

# **ATTACHMENT 6**



**NORTH CANTON**  
**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  2	TOTAL NO. of Pieces Received at Post Office™  2	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  neopost™ 04/22/2022 <b>US POSTAGE \$002.99<sup>0</sup></b>   ZIP 06103 041L12203937
	Postmaster, per (name of receiving employee)  		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Robert Bessel, First Selectman Town of North Canton 4 Market Street Collinsville, CT 06022				
2.	Neil Pade, Director of Planning and Community Development Town of North Canton 4 Market Street Collinsville, CT 06022				
3.					
4.					
5.					
6.					

