

KENNETH C. BALDWIN

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Hartford, CT 06103-3597  
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Direct (860) 275-8345

Also admitted in Massachusetts  
and New York

January 28, 2022

*Via Electronic Mail*

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

Re: **Notice of Exempt Modification – Facility Modification  
157 Chestnut Hill Road, Stafford (Stafford Springs), 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 the existing tower and associated equipment on the ground adjacent to the tower. The tower was approved by the Town of Stafford (“Town”) in September of 2001. Cellco’s use of the tower was approved by the Siting Council (“Council”) in September of 2002 (EM-VER-134-030702). A copy of the Town’s tower approval and the Council’s EM-VER-134-030702 approval are included in Attachment 1.

Cellco now intends to modify its facility by installing three (3) new Samsung MT6407-77A antennas on its existing antenna mounting system. Cellco also intends to remove six (6) remote radio heads (“RRHs”) and install six (6) new RRHs behind its antennas. A set of project plans showing Cellco’s proposed facility modifications and specifications for Cellco’s new antennas and RRHs 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 the Town’s Chief Elected Official and Land Use Officer.

Melanie A. Bachman, Esq.  
January 28, 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. The proposed replacement antennas and RRHs will be installed on Cellco's existing antenna mounts.
2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of Cellco's new antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative General Power Density table for Cellco's modified facility is included in Attachment 3. The modified facility will be capable of providing Cellco's 5G wireless service.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Analysis ("SA") and Mount Analysis ("MA"), the existing tower, tower foundation and antenna mounts 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.  
January 28, 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:

Sal Titus, Stafford First Selectman  
David Perkins, Zoning Enforcement Officer  
Troiano Realty Corporation, Property Owner  
Karla Hanna, Verizon Wireless

# **ATTACHMENT 1**



# *Town of Stafford*

## *The Stafford Planning & Zoning Commission*

Warren Memorial Town Hall  
1 Main Street • Stafford Springs, CT 06076

(860) 684-7444

FAX 864-9845

### TOWN OF STAFFORD LEGAL NOTICE

Notice is hereby given that the Stafford Planning & Zoning Commission at a regularly scheduled meeting held on September 11, 2001, at 7:00 p.m. in the Veterans Meeting Room, Warren Memorial Town Hall, Stafford, CT rendered the following:

1. Approved, with condition, Special Use Permit Application of Tower Ventures, Inc. to construct 180 foot telecommunication tower within a 75' x 75' fenced compound for ground equipment. Location: 157 Chestnut Hill, Assessor's Map #34, Lot #32, AAA Zone.

John Mocko  
Chairman

Journal Inquirer  
September 14, 2001

September 26, 2002

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

RE: **EM-VER-134-020905** - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 157 Chestnut Mountain Road (Route 190), Stafford, Connecticut.

Dear Attorney Baldwin:

At a public meeting held on September 25, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 4, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. 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 will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston  
Chairman

MAG/laf

c: Honorable Gordon J. Frassinelli, Jr., First Selectman, Town of Stafford  
Wendell Avery, Zoning Enforcement Officer, Town of Stafford  
Theresa Ranciato-Viele, Site Development Manager, Tower Ventures, Inc.  
Julie M. Donaldson, Esq., Hurwitz & Sagarin LLC

# **ATTACHMENT 2**

# verizon

## STAFFORD\_3\_CT

157 CHESTNUT HILL ROAD  
STAFFORD SPRINGS, CT 06076  
SBA SITE I.D.#: CT13617

LOCATION CODE (PSLC): 467846  
FUZE ID: 16272410  
EQUIPMENT UPGRADE PROJECT  
RFDS DATE: 08/28/21

### PROJECT SUMMARY

SCOPE OF WORK: EXISTING TELECOMMUNICATIONS FACILITY EQUIPMENT ALTERATION

SITE NAME: STAFFORD\_3\_CT

LOCATION CODE (PSLC): 467846

FUZE PROJECT ID: 16272410

SITE ADDRESS: 157 CHESTNUT HILL ROAD  
STAFFORD SPRINGS, CT 06076

LATITUDE: 41.977417 N (RFDS)

LONGITUDE: -72.383306 W (RFDS)

FACILITY: SBA MONOPOLE  
SITE I.D.#: CT13617

APPLICANT, LESSEE/LICENSEE, PROJECT OWNER: CELCO PARTNERSHIP  
d/b/a VERIZON WIRELESS  
118 FLANDERS ROAD  
THIRD FLOOR  
WESTBOROUGH, MA 01581

SITE ENGINEER: PROTERRA DESIGN GROUP, LLC  
4 BAY ROAD  
BUILDING A, SUITE 200  
HADLEY, MA 01035

### SHEET INDEX

SHT. NO.	DESCRIPTION	REV. NO.
T-1	TITLE SHEET	0
A-1	COMPOUND PLAN & ELEVATION	0
A-2	EXISTING AND PROPOSED ANTENNA PLAN	0
D-1	DETAIL	0
X-1	ANTENNA LAYOUT RENDERINGS (BY OTHERS)	0

### LOCATION MAP



### GENERAL NOTES

1. VERIFY COAX CONFIGURATION, ANTENNA CONFIGURATION, AND ANTENNA HEIGHT WITH LATEST RF DATA SHEET PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL SCHEDULE AND SEQUENCE ALL REQUIRED WORK WITH THE OWNER'S REPRESENTATIVE AND CONSTRUCTION MANAGER.
3. REPAIR ANY DAMAGE DURING CONSTRUCTION TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE CONSTRUCTION MANAGER
4. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES FOR THE WORK.
5. ANTENNAS TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS, GLOBAL STRUCTURAL ANALYSIS, AND LOCAL ANTENNA MOUNT ANALYSIS INCLUDING ANTENNA MOUNT MODIFICATIONS AND STRUCTURAL AUGMENTS AS APPLICABLE.
6. REPLACE AND/OR REUSE (E) MOUNTING HARDWARE, INSPECT FOR DAMAGE, AND REPLACE AS NECESSARY TO THE SATISFACTION OF THE ENGINEER.
7. EQUIPMENT LOCATIONS AND CONDITIONS TO BE FIELD VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR BE RESPONSIBLE FOR THE SAME.
8. NORTH SHOWN IS APPROXIMATE, NOT ALL (E) OR (P) IMPROVEMENTS REQUIRED MAY BE SHOWN FOR CLARITY.
9. ANTENNA ELEVATIONS SHALL BE PER ZONING OR AS APPROVALS DICTATE.
10. THESE CONSTRUCTION DRAWINGS ARE CONTINGENT UPON A PASSING GLOBAL STRUCTURAL ANALYSIS INCLUDING THE INSTALLATION OF ANY REQUIRED MODIFICATIONS AND INSPECTION REPORTS AS A RESULT THEREIN.

### STRUCTURAL NOTES

GLOBAL TOWER STRUCTURAL ANALYSIS REPORT:

PENDING: A GLOBAL TOWER STRUCTURAL ANALYSIS SHALL BE COMPLETED BY OTHERS PRIOR TO CONSTRUCTION TO CONFIRM CAPACITY.

LOCAL ANTENNA MOUNT ANALYSIS REPORT:

PASSING REPORT - ANTENNA PIPE AND PIPE MOUNTING HARDWARE ADDITION AS SHOWN IN SHEET A-2, AND X-1 & MOUNT VERIFICATION MAPPING REQUIRED BY MASER CONSULTING DATED 09/07/21

### CONTRACTOR MOUNT POST MODIFICATION INSPECTION (PMI) REPORT REQUIREMENTS

PMI ONLINE ACCESS: <https://pml.vzsmart.com>

SMART TOOL VENDOR PROJECT NUMBER: 10045199

vzw LOCATION CODE (PSLC): 467846

\*\*\* PMI AND REQUIREMENTS ALSO EMBEDDED IN ANTENNA MOUNT ANALYSIS REPORT BY MASER CONSULTING DATED 09/07/21.

MOUNT MODIFICATIONS REQUIRED (Y/N): YES

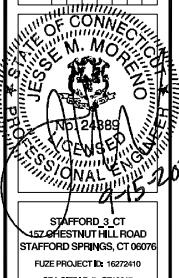
VZW APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR VZW SMART KIT APPROVED VENDORS



PREPARED BY: **ProTerra** DESIGN GROUP, LLC  
4 Bay Road, Bldg A  
Suite 200  
Hadley, MA 01035  
Ph: (413)320-4918

REV.	DATE	DESCRIPTION	BY (CHK APP'D)	
			DESIGNED	DATE
0	09/15/21	PER RFDS DATED 08/28/21		



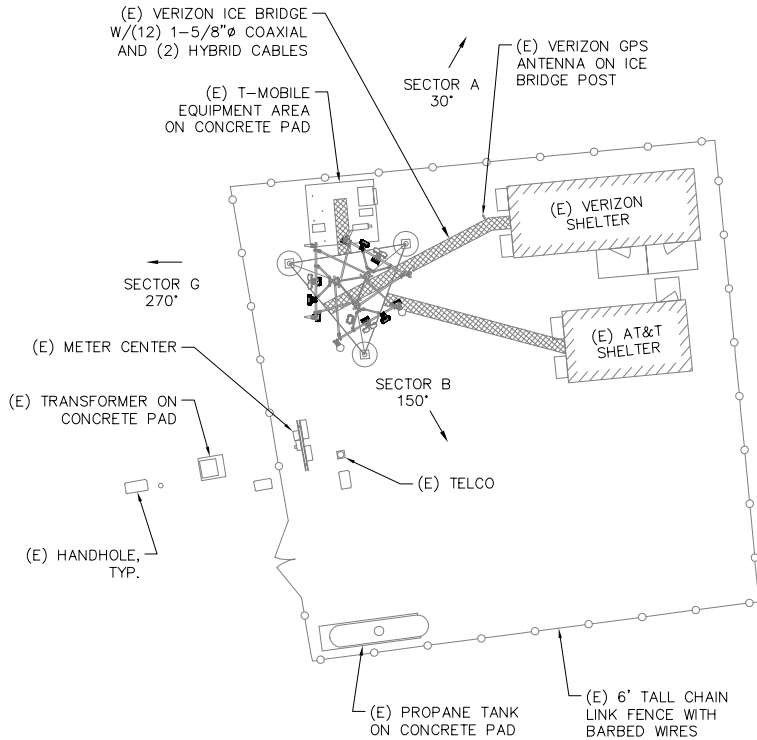
STAFFORD\_3\_CT  
157 CHESTNUT HILL ROAD  
STAFFORD SPRINGS, CT 06076  
FUZE PROJECT ID: 16272410  
SBA SITE I.D.#: CT13617

T-1

Digitally signed by  
Jesse Moreno, PE  
Date: 2021.09.15  
15:33:04 -0400



NOTE: AGL ELEVATIONS SHOWN HEREON FOR GENERAL REFERENCE ONLY, REFER TO LOCAL ANTENNA MOUNT ANALYSIS BY MASER CONSULTING AND SHEET X-1 FOR REQUIRED EQUIPMENT MOUNTING CONFIGURATION INCLUDING VERTICAL AND HORIZONTAL MOUNTING LOCATIONS LISTED IN TABLES. COORDINATE EQUIPMENT LOCATIONS AND ANY CONFLICTS WITH MASER CONSULTING.



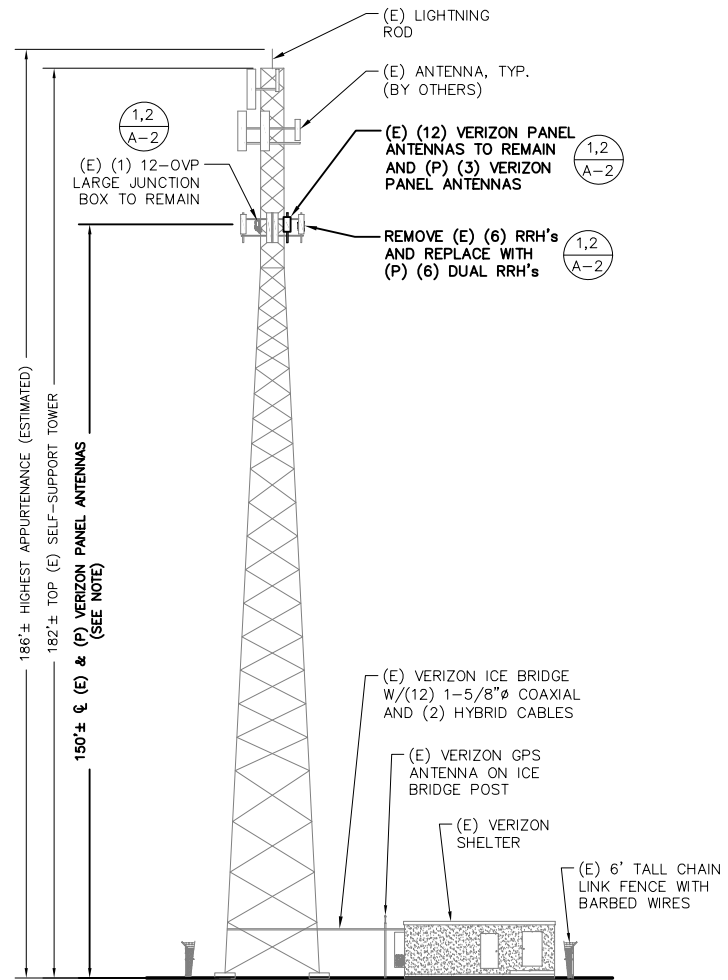
### COMPOUND PLAN

SCALE: 1"=20' (11x17)



1  
A-1

A GLOBAL TOWER STRUCTURAL ANALYSIS SHALL BE COMPLETED BY OTHERS PRIOR TO CONSTRUCTION TO CONFIRM CAPACITY.



### SOUTH ELEVATION

SCALE: 1"=25' (11x17)



2  
A-1



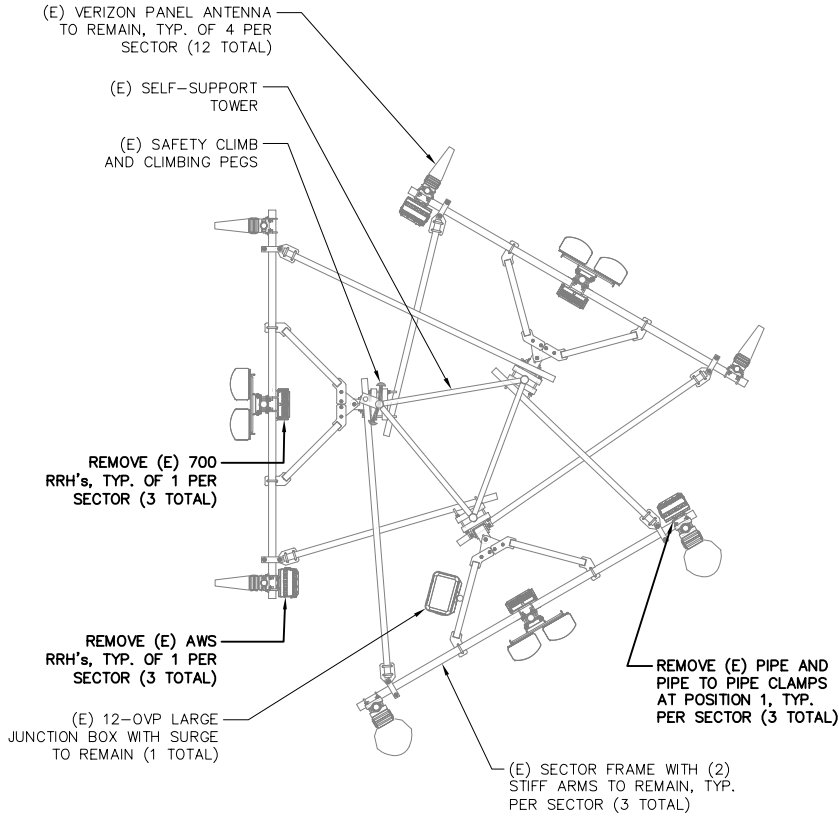
PREPARED BY:  
**ProTerra**  
DESIGN GROUP, LLC  
4 Bay Road, Bldg A  
Suite 200  
Hedley, MA 01035  
Ph: (413)320-4918

REV.	DATE	DESCRIPTION	BY (CHK APP'D)	TBD	JWS	JMM
0	09/15/21	PER REFS DATED 08/28/21				

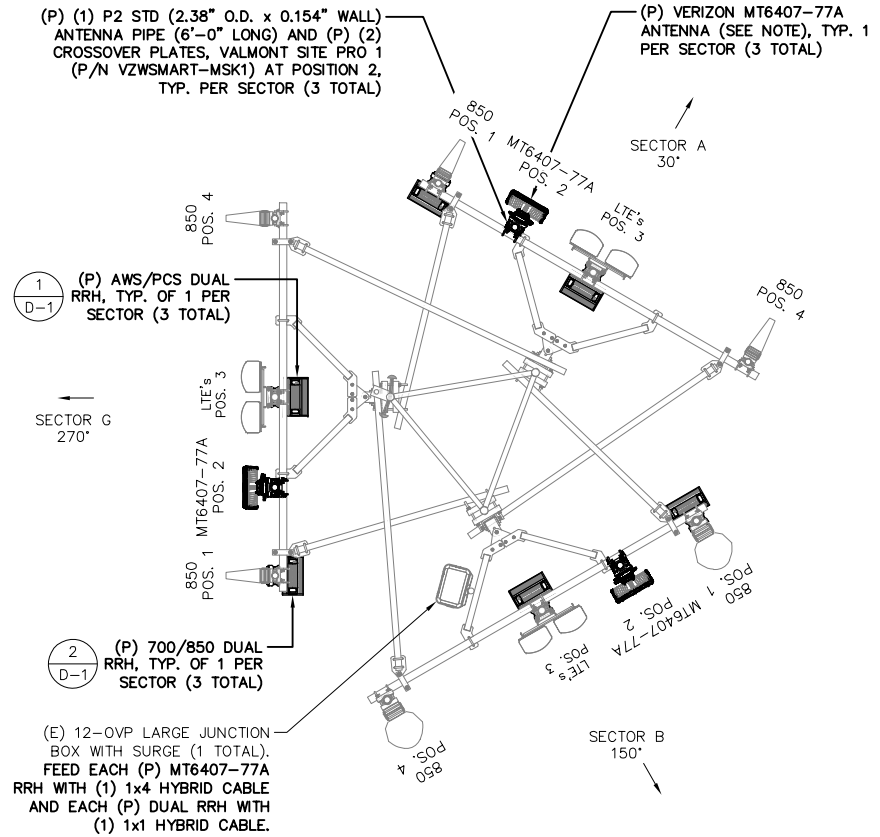


STAFFORD, CT  
457 BRISTNUT HILL ROAD  
STAFFORD SPRINGS, CT 06076  
FLZE PROJECT ID: 16272410  
SBA SITE ID#: CT13617

**A-1**



**(E) ANTENNA PLAN**  
 SCALE: 1"=4'  
 1  
 A-2



**(P) ANTENNA PLAN**  
 SCALE: 1"=4'  
 2  
 A-2

NOTE: AT TIME OF PUBLICATION, THE DESIGN OF THE VERIZON MT6407-77A ANTENNA WAS NOT FINALIZED. BASED UPON DIRECTIVE BY VERIZON WIRELESS, FOR DESIGN PURPOSES THE PROPOSED EQUIPMENT HAS BEEN CONSIDERED TO BE A MAXIMUM SIZE NOT TO EXCEED 35.1"±H x 16.1"±W x 5.6"±D AND WEIGH APPROXIMATELY 87.1±LBS. IF ANY OF THESE PARAMETERS ARE EXCEEDED BY THE EQUIPMENT THE ENGINEER(S) SHALL BE NOTIFIED TO REVISE THE DRAWINGS, STRUCTURAL ANALYSIS, AND MOUNT ANALYSIS.



118 FLANDERS ROAD  
 THIRD FLOOR  
 WESTBOROUGH, MA 01581



PREPARED BY:  
 4 Bay Road, Bldg A  
 Suite 200  
 Haverley, MA 01035  
 Ph: (413)320-4918

REV.	DATE	DESCRIPTION	BY	CHK	APP'D
0	09/15/21	PER REFS DATED 08/28/21	TBD	JWS	JMM

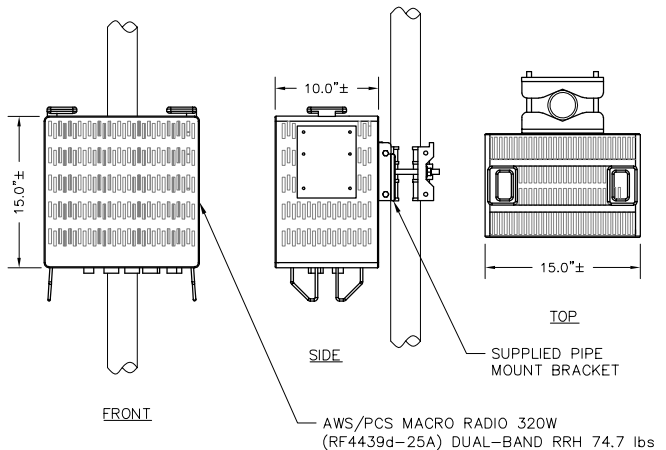


STAFFORD 3, CT  
 457 BRISTNUT HILL ROAD  
 STAFFORD SPRINGS, CT 06076  
 FUSE PROJECT ID: 16272410  
 SBA SITE ID#: CT13617

**A-2**

**INSTALLATION NOTES:**

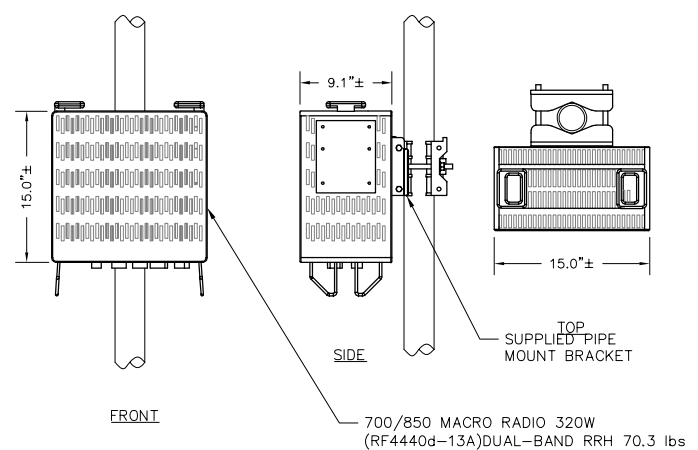
1. INSTALL ALL EQUIPMENT, MOUNTING BRACKETS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
2. GROUND DISTRIBUTION BOXES, MOUNTING PIPES, AND RRHs IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
3. INSTALL EQUIPMENT AND MOUNTING BRACKETS TO PRESERVE CLIMBING ACCESS ON TOWER.
4. EQUIPMENT TO BE INSTALLED AT VERIZON RAD, CENTER IN ACCORDANCE WITH GLOBAL TOWER STRUCTURAL ANALYSIS AND MOUNT ANALYSIS (BY OTHERS).



**(P) AWS/PCS RRH MOUNTING DETAIL**

SCALE: NONE

1  
 D-1



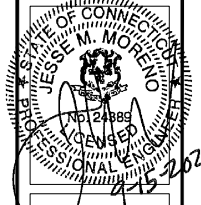
**(P) 700/850 RRH MOUNTING DETAIL**

SCALE: NONE

2  
 D-1

**REVISIONS**

REV.	DATE	DESCRIPTION	BY	CHK APP'D
0	09/15/21	PER REFS DATED 08/28/21	TBD	JWS/JMM

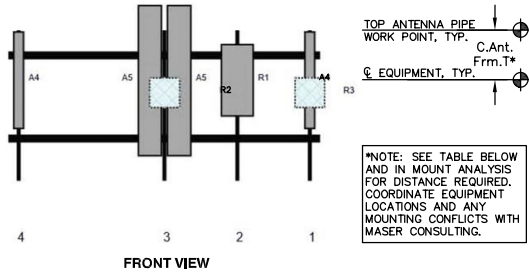
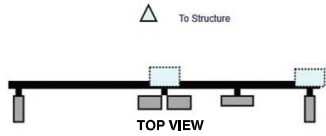


STAFFORD, CT  
 417 BRISTNUT HILL ROAD  
 STAFFORD SPRINGS, CT 06076  
 FUZE PROJECT ID: 16272410  
 SBA SITE ID#: CT13617

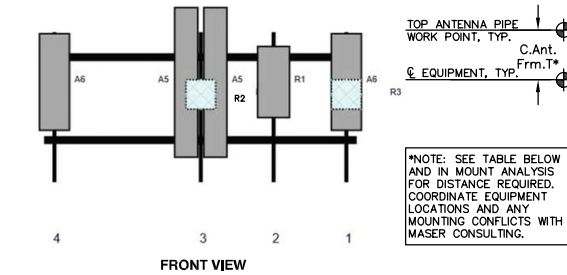
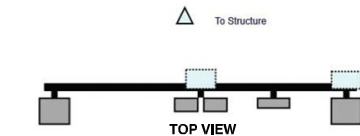
**D-1**

# ANTENNA LAYOUT SCHEMATIC RENDERINGS SHOWN HEREON PROVIDED BY OTHERS

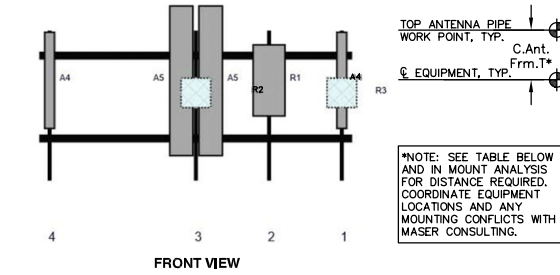
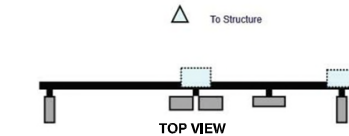
REFER TO ANTENNA MOUNT ANALYSIS REPORT BY MASER CONSULTING DATED 09/07/21



**ALPHA**



**BETA**



**GAMMA**

ALPHA

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
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	145	1	a	Front	24	0	Retained	04/06/2021
R3	RF4440d-13A	15	15	145	1	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	110	2	a	Front	24	0	Added	
A5	SBNHH-1D65B	72.6	11.9	75	3	a	Front	24	7	Retained	04/06/2021
A5	SBNHH-1D65B	72.6	11.9	75	3	b	Front	24	-7	Retained	04/06/2021
R2	RF4439d-25A	15	15	75	3	a	Behind	30	0	Added	
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	5	4	a	Front	24	0	Retained	04/06/2021

BETA

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
A5	SBNHH-1D65B	72.6	11.9	75	3	a	Front	24	7	Retained	04/06/2021
A5	SBNHH-1D65B	72.6	11.9	75	3	b	Front	24	-7	Retained	04/06/2021
R2	RF4439d-25A	15	15	75	3	a	Behind	30	0	Added	
A6	LPA-800634CF	47.4	15.2	5	4	a	Front	24	0	Retained	04/06/2021
A6	LPA-800634CF	47.4	15.2	145	1	a	Front	24	0	Retained	04/06/2021
R3	RF4440d-13A	15	15	145	1	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	110	2	a	Front	24	0	Added	

GAMMA

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
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	145	1	a	Front	24	0	Retained	04/06/2021
R3	RF4440d-13A	15	15	145	1	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	110	2	a	Front	24	0	Added	
A5	SBNHH-1D65B	72.6	11.9	75	3	a	Front	24	7	Retained	04/06/2021
A5	SBNHH-1D65B	72.6	11.9	75	3	b	Front	24	-7	Retained	04/06/2021
R2	RF4439d-25A	15	15	75	3	a	Behind	30	0	Added	
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	5	4	a	Front	24	0	Retained	04/06/2021

## CONTRACTOR MOUNT POST MODIFICATION INSPECTION (PMI) REPORT REQUIREMENTS

PMI ONLINE ACCESS: <https://pmi.vzwsmart.com>

SMART TOOL VENDOR PROJECT NUMBER: 10045199

V2W LOCATION CODE (PSLC): 467846

\*\*\* PMI AND REQUIREMENTS ALSO EMBEDDED IN ANTENNA MOUNT ANALYSIS REPORT BY MASER CONSULTING DATED 09/07/21.

MOUNT MODIFICATIONS REQUIRED (Y/N): **YES**

V2W APPROVED SMART KIT VENDORS

REFER TO MOUNT MODIFICATION DRAWINGS PAGE FOR V2W SMART KIT APPROVED VENDORS



PREPARED BY: ProTerra DESIGN GROUP, LLC  
4 Bay Road, Bldg A Suite 200  
Hedley, MA 01035  
Ph: (413)320-4918

REV.	DATE	DESCRIPTION	BY	CHK APP'D
0	09/15/21	PER REFS DATED 08/28/21	TBD	JWS/JMM

RENDERINGS BY: MASER CONSULTING  
MT, LAUREL OFFICE  
2000 MOUNT LAUREL DRIVE - SUITE 100  
MOUNT LAUREL, NJ 08054  
Phone: 8562797042

STAFFORD 3, CT  
157 CHESTNUT HILL ROAD  
STAFFORD SPRINGS, CT 06076  
FUZE PROJECT ID: 16272410  
SBA SITE ID#: CT13617

**X-1**

# 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)

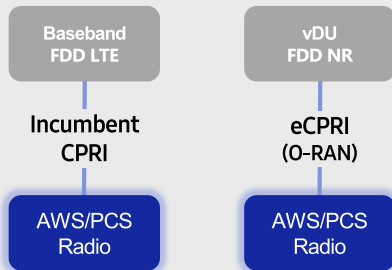


Youtube  
[www.youtube.com/samsung5g](http://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

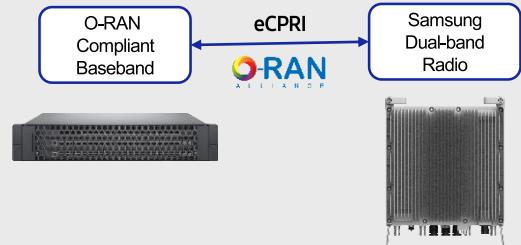
Samsung's AWS/PCS macro radio can support each incumbent CPRI interface as well as advanced eCPRI interfaces. This feature provides installable options for both legacy LTE networks and added NR networks.



### 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.

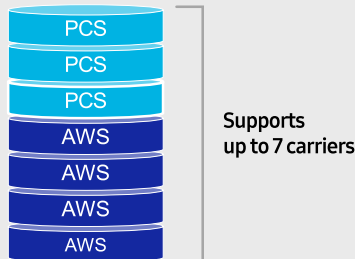
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### Optimum Spectrum Utilization

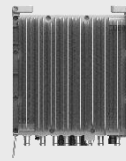
The number of required carriers varies according to site (region). Supporting many carriers is essential for using all frequencies that the operator has available.

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

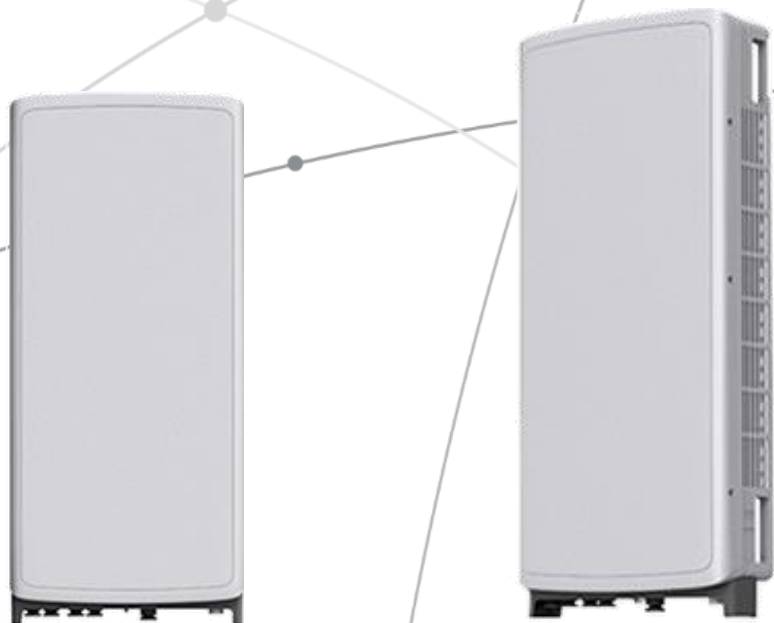
Item	Specification
Tech	LTE / NR
Brand	B25(PCS), B66(AWS)
Frequency Band	DL: 1930 – 1995MHz, UL: 1850 – 1915MHz DL: 2110 – 2200MHz, UL: 1710 – 1780MHz
RF Power	(B25) 4 × 40W or 2 × 60W (B66) 4 × 60W or 2 × 80W
IBW/OBW	(B25) 65MHz / 30MHz (B66) DL 90MHz, UL 70MHz / 60MHz
Installation	Pole, Wall
Size/Weight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



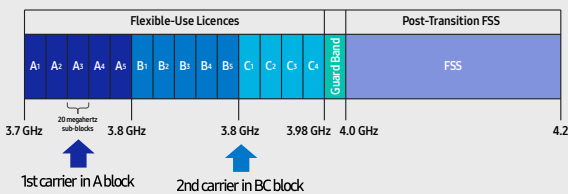
## Points of Differentiation

### 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

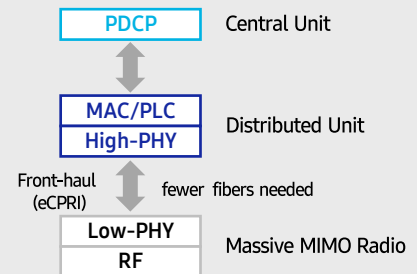
C-Band spectrum supported by Massive MIMO Radio



### 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.

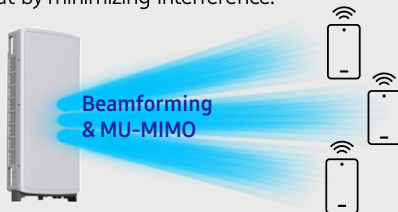


### Enhanced Performance

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.

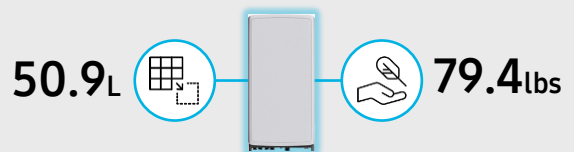
Furthermore, as C-Band massive MIMO Radio supports MU-MIMO (Multi-user MIMO), it enables to increase user throughput by minimizing interference.



### 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)

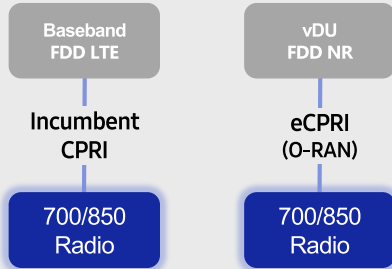


Youtube  
[www.youtube.com/samsung5g](https://www.youtube.com/samsung5g)

## Points of Differentiation

### Continuous Migration

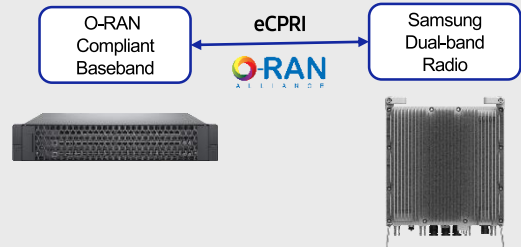
Samsung's 700/850MHz macro radio can support each incumbent CPRI interface as well as an advanced eCPRI interface. This feature provides installable options for both legacy LTE networks and added NR networks.



### 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.

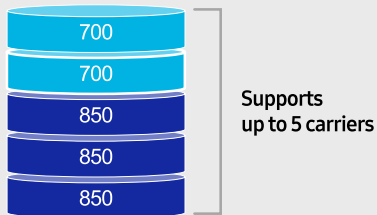
Samsung's state-of-the-art O-RAN technology will help accelerate the effort toward constructing a solid O-RAN ecosystem.



### 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.

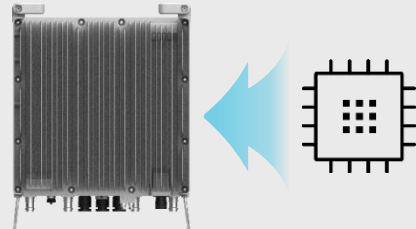
The new 700/850MHz dual-band radio can support up to 2 carriers in the B13 (700MHz) band and 3 carriers in the B5 (850MHz) band, respectively.



### 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

# **ATTACHMENT 3**

	General	Power	Density					
<b>Site Name: Stafford 3</b>								
<b>Tower Height: Verizon @ 150ft</b>								
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	FREQ.	CALC. POWER DENS	MAX. PERMISS.EXP.	FRACTION MPE	Total
*T-Mobile	4	1087	177	1900	0.053473836	1	0.53%	
*T-Mobile	1	408	177	1900	0.005017784	1	0.05%	
*T-Mobile	2	789	177	600	0.019407018	0.4	0.49%	
*T-Mobile	2	433	175	700	0.010904067	0.466666667	0.23%	
*AT&T	1	728	167	850	0.010100053	0.566666667	0.18%	
*AT&T	1	2951	167	770	0.040941286	0.513333333	0.80%	
*AT&T	3	3664	167	1930	0.152499701	1	1.52%	
*AT&T	1	1476	167	725	0.02047758	0.483333333	0.42%	
*AT&T	1	1000	167	850	0.013873699	0.566666667	0.24%	
*AT&T	1	3837	167	2170	0.053233384	1	0.53%	
*AT&T	1	1000	167	850	0.013873699	0.566666667	0.24%	
<b>VZW 700</b>	<b>4</b>	<b>690</b>	<b>150</b>	<b>751</b>	<b>0.0044</b>	<b>0.5007</b>	<b>0.88%</b>	
<b>VZW CDMA</b>	<b>2</b>	<b>377</b>	<b>150</b>	<b>877.26</b>	<b>0.0012</b>	<b>0.5848</b>	<b>0.21%</b>	
<b>VZW Cellular</b>	<b>4</b>	<b>825</b>	<b>150</b>	<b>874</b>	<b>0.0053</b>	<b>0.5827</b>	<b>0.91%</b>	
<b>VZW PCS</b>	<b>4</b>	<b>1593</b>	<b>150</b>	<b>1975</b>	<b>0.0102</b>	<b>1.0000</b>	<b>1.02%</b>	
<b>VZW AWS</b>	<b>4</b>	<b>1563</b>	<b>150</b>	<b>2120</b>	<b>0.0100</b>	<b>1.0000</b>	<b>1.00%</b>	
<b>VZW CBAND</b>	<b>2</b>	<b>21627</b>	<b>150</b>	<b>3730.08</b>	<b>0.0691</b>	<b>1.0000</b>	<b>6.91%</b>	
								<b>16.17%</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 180 ft Rohn Self Supporting Tower**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT13617-A**

**Customer Site Name: Troiano Realty**

**Carrier Name: Verizon (App#: 174699, V2)**

**Carrier Site ID / Name: 467846 / Stafford 3, CT**

**Site Location: 157 Chestnut Hill Road**

**Stafford Springs, Connecticut**

**Tolland County**

**Latitude: 41.977416**

**Longitude: -72.383305**

Exp. 01/31/2022



12/14/2021

### **Analysis Result:**

**Max Structural Usage: 88.6% [Pass]**

**Max Foundation Usage: 60.0% [Pass]**

**Additional Usage Caused by Mount Modification:**

**Report Prepared By: Younus Alkarawi**



**Tower Engineering Solutions**

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1320 Greenway Drive, Suite 600, Irving, Texas 75038

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**Max Foundation Usage: 60.0% [Pass]**

**Additional Usage Caused by Mount Modification:**

**Report Prepared By: Younus Alkarawi**



## Introduction

The purpose of this report is to summarize the analysis results on the 180 ft Rohn Self Supporting Tower 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>	Rohn Eng. File # 49944AE, Dwg. # C011522, dated 12/17/2001
<b>Foundation Drawing</b>	Rohn Eng. File # 49944AE, Dwg. # A012939, dated 12/17/2001
<b>Geotechnical Report</b>	Jaworski Geotech Project # 01659G, dated 10/19/2001
<b>Modification Drawings</b>	
<b>Mount Analysis</b>	Verizon MA by Maser Consulting Connecticut Project #: 21777300A, dated

## Analysis Criteria

The rigorous analysis was performed in accordance with the requirements and stipulations of the TIA- In accordance with this standard, the structure was analyzed using **TESTowers**, 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 $V_{ult} = 125.0$ mph (3-Sec. Gust)/ Nominal Design Wind Speed $V_{asd} = 97.0$ 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>Structure Class:</b>	
<b>Topographic Category:</b>	
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	

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
			RFS - APXV18-206516S-C-A20 - Panel	(3) T-Arms (Commscope)	(3) 1 5/8" Fiber	T-Mobile
			Ericsson - KRY 112 489/2 - TMA			
			Ericsson - Radio 4449 B71+B12 - RRU			
			Kathrein - 782 11056 - Bias T			
		3	RFS - APXVAARR24_43-U-NA20 - Panel			
			CCI - OPA65R-BU4DA - Panel	Sector Frame SitePro 1	Cables	
			CCI - DMP65R-BU8DA - Panel			
			CCI - DMP65R-BU4DA - Panel			
			ADC/Cleargain CT-1900W800 TMA			
			Ericsson 4449 B5/B12			
			Ericsson RRUS 8843 B2 B66A			
			Raycap DC6-48-60-18-8F ("Squid")			
			Powerwave - P65-17-XLH-RR - Panel			
			CCI - OPA65R-BU8DA - Panel			
			Commscope - SBNHH-1D65B - Panel			
			Antel - LPA-80080-4CF-EDIN-2 - Panel			
			Antel - LPA-80063-4CF-EDIN-5 - Panel			
			Alcatel Lucent - RRH2x60-700U - RRU			
			Alcatel Lucent - RRH2x60-PCS - RRU			
			Alcatel Lucent - RRH2x60-AWS - RRU			
			RFS - FD9R6004/2C-3L - Diplexer			
			Alcatel Lucent - KS24019-L112A - GPS			

**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
			Antel LPA-80080-4CF-EDIN-0 - Panel	(3) Modified Sector Frames (Site Pro VFA12-HD) W/ (3) Commscope	Hybrid	Verizon
			Antel - LPA-80063-4CF-EDIN-5 - Panel			
			Commscope SBNHH-1D65B- Panel			
			Samsung MT6407-77A - Panel			
			Samsung RF4440d-13A - RRU			
			Samsung RF4439d-25A - RRU			

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:

Tower Component	Legs	Diagonals	Horizontals
Max. Usage:			
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Compression (Kips)	Uplift (Kips)	Shear (Kips)
Analysis Reactions			

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 0.3263 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

This analysis was performed based on the information supplied to **Tower Engineering Solutions,** Verification of the information provided was not included in the Scope of Work for . The accuracy of the analysis is dependent on the accuracy of the information provided.

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.

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 . 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, should be notified in writing and the applicable minimum values provided by the client.

The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. 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, should be notified immediately to evaluate the effect of the discrepancy on the analysis results.

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.

If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.

## Structure: CT13617-A-SBA

**Site Name:** Troiano Realty

**Code:** EIA/TIA-222-G

12/14/2021

**Type:** Self Support

**Base Shape:** Triangle

**Basic WS:** 97.00

**Height:** 180.00 (ft)

**Base Width:** 18.99

**Basic Ice WS:** 50.00

**Base Elev:** 0.00 (ft)

**Top Width:** 4.64

**Operational WS:** 60.00

Page: 1



### Section Properties

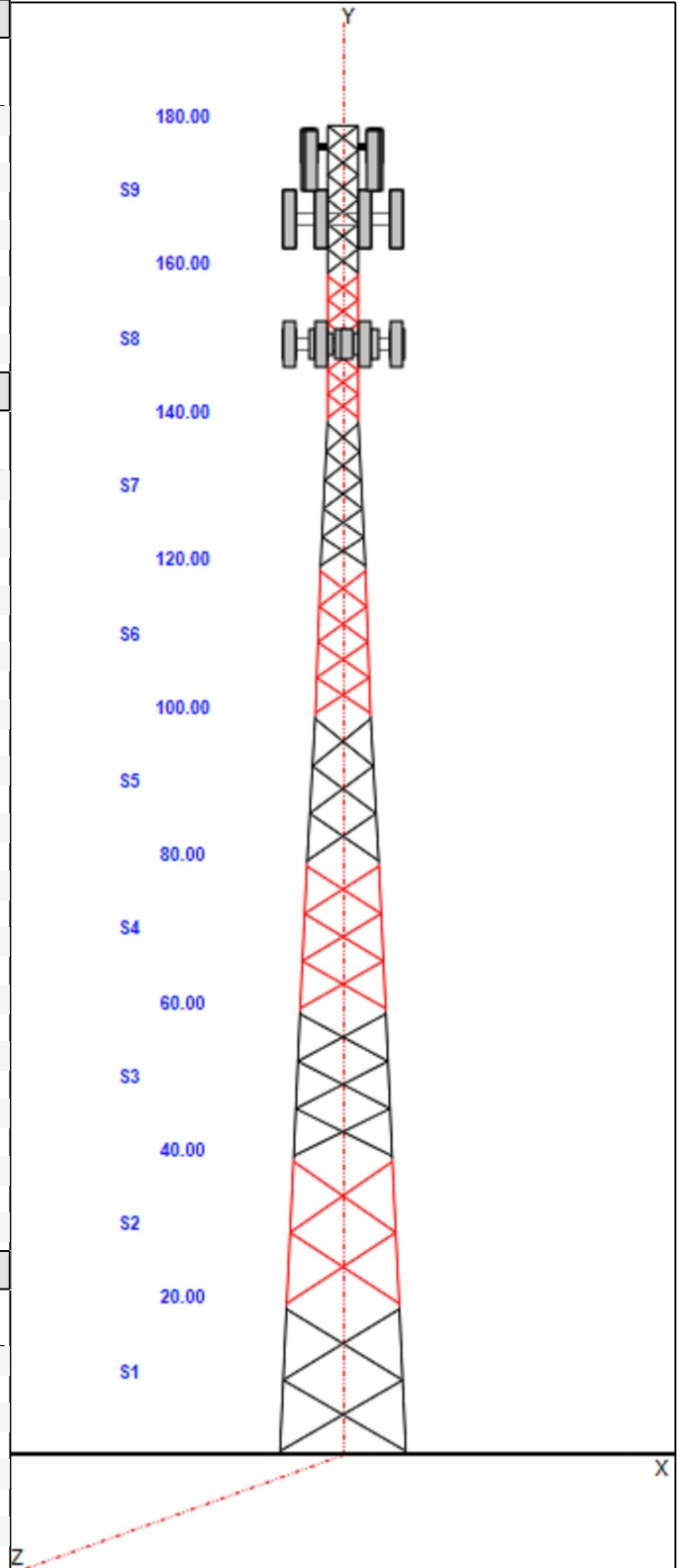
Sect	Leg Members	Diagonal Members	Horizontal Members
1	PX 8" DIA PIPE	SAE 3.5X3.5X0.25	
2	PSP ROHN 8 EHS	SAE 3X3X0.25	
3	PX 6" DIA PIPE	SAE 2.5X2.5X0.25	
4	PSP ROHN 6 EHS	SAE 2.5X2.5X0.1875	
5	PX 5" DIA PIPE	SAE 2.5X2.5X0.1875	
6	PX 5" DIA PIPE	SAE 2X2X0.1875	
7	PX 4" DIA PIPE	SAE 2X2X0.1875	
8	PST 3" DIA PIPE	SAE 2X2X0.25	
9	PST 2-1/2" DIA PIPE	SAE 1.75X1.75X0.1875	SAE 1.75X1.75X0.125

### Discrete Appurtenances

Attach Elev (ft)	Force Elev (ft)	Qty	Description
180.00	180.00	1	Lightning Rod
180.00	180.00	1	Beacon
177.00	177.00	1	MC-K12M-12-96
177.00	177.00	3	APXV18-206516S-C-A20
177.00	177.00	3	KRY 112 89/4
177.00	177.00	3	4449
177.00	177.00	3	782 10254
177.00	175.00	3	APXVAARR24_43-U-NA20
167.00	167.00	6	P65-17-XLH-RR
167.00	167.00	2	OPA65R-BU8DA
167.00	167.00	1	OPA65R-BU4DA
167.00	167.00	2	DMP65R-BU8DA
167.00	167.00	1	DMP65R-BU4DA
167.00	167.00	12	ADC/Cleargain CT-1900W800
167.00	167.00	3	Ericsson 4449 B5/B12
167.00	167.00	3	Ericsson RRUS 8843 B2 B66A
167.00	167.00	1	RaycaDC6-48-60-18-8F ("Squid")
167.00	167.00	3	VFA12-WLL-30120
150.00	150.00	3	Samsung MT6407-77A
150.00	150.00	3	Commscope BSAMNT-SBS-1-2
150.00	150.00	3	Samsung RF4440d-13A
150.00	150.00	3	Samsung RF4439d-25A
150.00	150.00	1	(3) VFA12-HD
150.00	150.00	6	SBNHH-1D65B
150.00	150.00	4	LPA-80080-4CF-EDIN-0
150.00	150.00	2	LPA-80063-4CF-EDIN-5
150.00	150.00	2	RFS DB-B1-6C-12AB-OZ

### Linear Appurtenances

Elev From (ft)	Elev To (ft)	Qty	Description
0.00	177.00	9	1 5/8" Coax
0.00	177.00	3	1 5/8" Fiber
0.00	175.00	1	W/G Ladder
0.00	167.00	12	1 5/8" Coax
0.00	167.00	2	1" DC Cables
0.00	167.00	1	1/2" Coax
0.00	150.00	8	1 5/8" Coax
0.00	150.00	4	1 5/8" Coax
0.00	150.00	2	1 5/8" Hybrid
0.00	150.00	1	W/G Ladder



## Structure: CT13617-A-SBA

<b>Site Name:</b> Troiano Realty	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Type:</b> Self Support	<b>Base Shape:</b> Triangle	<b>Basic WS:</b> 97.00
<b>Height:</b> 180.00 (ft)	<b>Base Width:</b> 18.99	<b>Basic Ice WS:</b> 50.00
<b>Base Elev:</b> 0.00 (ft)	<b>Top Width:</b> 4.64	<b>Operational WS:</b> 60.00

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### Base Reactions

Leg	Overturning
Max Uplift: -250.48 (kips)	Moment: 4452.93 (ft-kips)
Max Down: 285.27 (kips)	Total Down: 43.53 (kips)
Max Shear: 26.29 (kips)	Total Shear: 41.59 (kips)



# Structure: CT13617-A-SBA

**Site Name:** Troiano Realty

**Type:** Self Support

**Height:** 180.00 (ft)

**Base Elev:** 0.00 (ft)

**Base Shape:** Triangle

**Base Width:** 18.99

**Top Width:** 4.64

**Code:** EIA/TIA-222-G

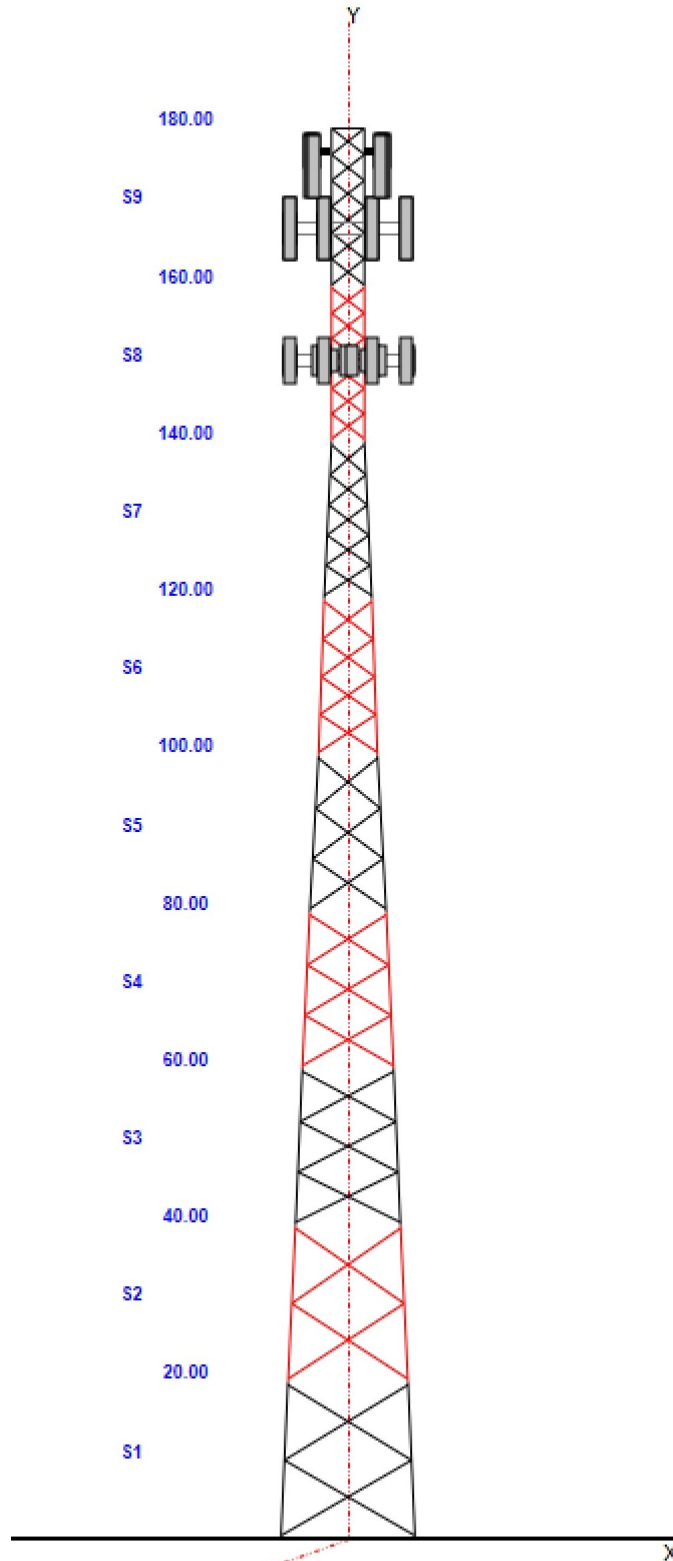
**Basic WS:** 97.00

**Basic Ice WS:** 50.00

**Operational WS:** 60.00

12/14/2021

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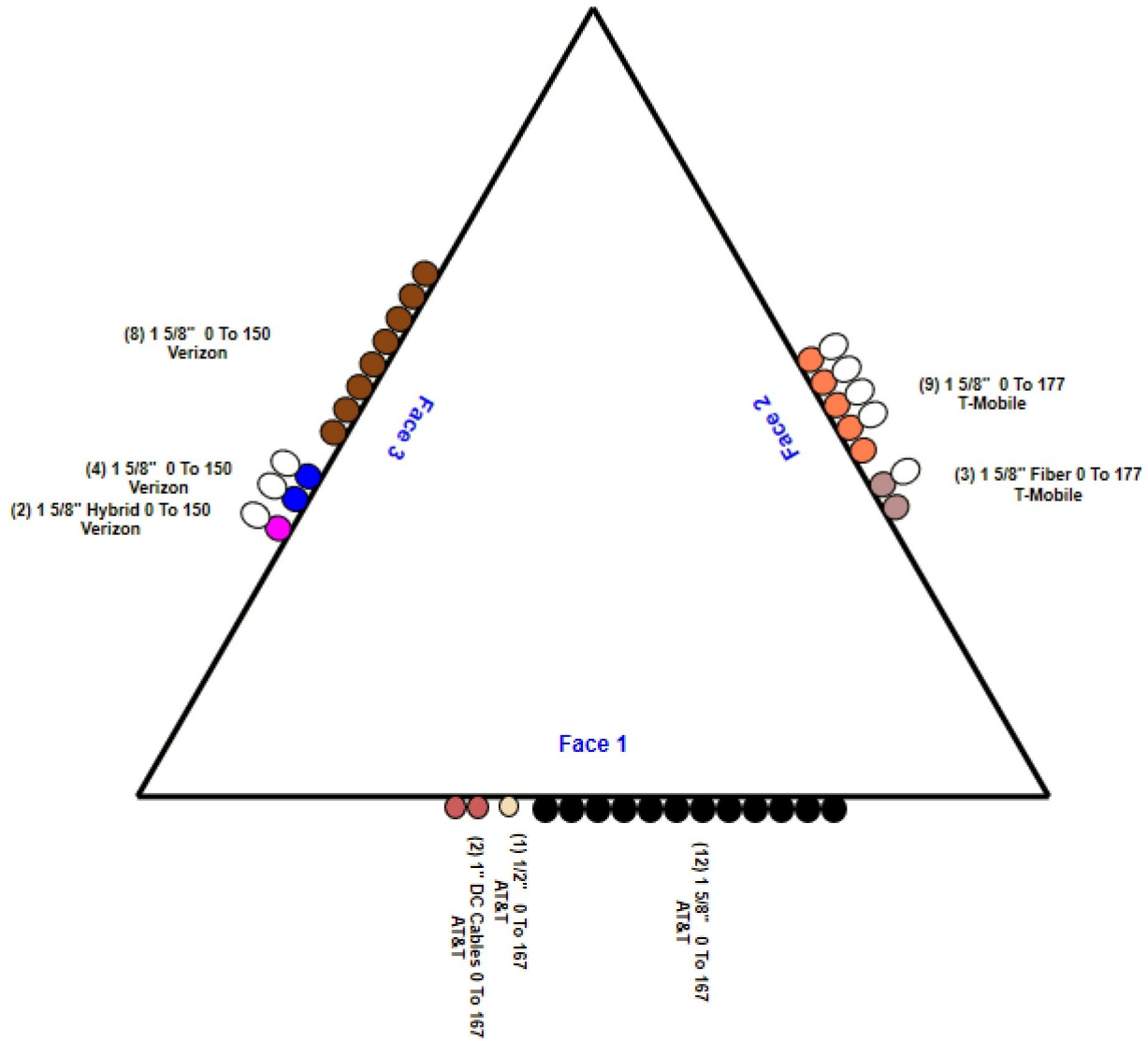
# Structure: CT13617-A-SBA - Coax Line Placement

Type: Self Support  
Site Name: Troiano Realty  
Height: 180.00 (ft)

12/14/2021



Page: 4



## Loading Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II




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### Discrete Appurtenances Properties

Attach Elev (ft)	Description	Qty	No Ice		Ice		Len (in)	Width (in)	Depth (in)	Ka	Orientation Factor	Vert Ecc (ft)
			Weight (lb)	CaAa (sf)	Weight (lb)	CaAa (sf)						
180.00	Lightning Rod	1	5.00	0.500	33.28	2.856	72.000	1.000	1.000	1.00	1.00	0.000
180.00	Beacon	1	36.00	2.720	215.83	4.002	28.000	17.500	17.500	1.00	1.00	0.000
177.00	MC-K12M-12-96	1	550.00	15.550	1275.73	41.931	0.000	0.000	0.000	0.75	0.75	0.000
177.00	APXV18-206516S-C-A20	3	18.70	3.610	113.31	6.118	53.100	6.900	3.200	0.80	0.78	0.000
177.00	KRY 112 89/4	3	15.40	0.650	39.19	1.476	11.000	6.100	3.900	0.80	0.50	0.000
177.00	4449	3	70.00	1.650	201.95	2.428	15.000	13.200	9.300	0.80	0.67	0.000
177.00	782 10254	3	2.90	0.130	8.29	0.524	4.300	3.000	1.700	0.80	0.50	0.000
177.00	APXVAARR24_43-U-NA20	3	128.00	20.240	762.93	22.834	95.900	24.000	7.800	0.80	0.70	-2.000
167.00	P65-17-XLH-RR	6	59.00	11.440	351.44	15.807	96.000	12.000	6.000	0.80	0.82	0.000
167.00	OPA65R-BU8DA	2	76.50	18.090	459.65	20.903	96.000	21.000	7.800	0.80	0.82	0.000
167.00	OPA65R-BU4DA	1	52.50	8.440	315.44	9.752	48.200	21.000	7.800	0.80	1.00	0.000
167.00	DMP65R-BU8DA	2	95.70	17.870	575.01	20.649	96.000	20.700	7.700	0.80	0.82	0.000
167.00	DMP65R-BU4DA	1	67.90	8.280	407.98	9.568	48.000	20.700	7.700	0.80	1.00	0.000
167.00	ADC/Cleargain CT-1900W800	12	15.40	1.100	125.73	1.890	11.700	11.300	2.800	0.80	0.67	0.000
167.00	Ericsson 4449 B5/B12	3	73.20	1.970	151.16	2.739	17.900	13.200	10.600	0.80	0.67	0.000
167.00	Ericsson RRUS 8843 B2 B66A	3	72.00	1.640	135.25	2.311	14.900	13.200	10.900	0.80	0.67	0.000
167.00	RaycaDC6-48-60-18-8F ("Squid")	1	31.80	0.920	115.27	1.511	24.000	11.000	11.000	0.80	1.00	0.000
167.00	VFA12-WLL-30120	3	774.00	18.900	1795.30	50.964	0.000	0.000	0.000	0.75	0.75	0.000
150.00	Samsung MT6407-77A	3	79.40	4.690	0.00	0.000	35.100	16.100	5.500	0.80	0.70	0.000
150.00	Commscope BSAMNT-SBS-1-2	3	25.35	0.000	26.50	0.000	0.000	0.000	0.000	1.00	1.00	0.000
150.00	Samsung RF4440d-13A	3	70.30	1.850	0.00	0.000	15.000	15.000	9.100	0.80	0.67	0.000
150.00	Samsung RF4439d-25A	3	74.70	1.880	0.00	0.000	15.000	15.000	10.000	0.80	0.67	0.000
150.00	(3) VFA12-HD	1	2322.0	50.700	5347.78	135.64	0.000	0.000	0.000	0.75	1.00	0.000
150.00	SBNHH-1D65B	6	50.71	8.080	396.97	9.847	72.000	11.900	7.100	0.80	0.83	0.000
150.00	LPA-80080-4CF-EDIN-0	4	12.00	2.610	166.16	3.808	47.200	5.500	13.200	0.80	1.70	0.000
150.00	LPA-80063-4CF-EDIN-5	2	20.00	6.150	263.92	8.674	47.400	15.200	13.100	0.80	0.93	0.000
150.00	RFS DB-B1-6C-12AB-0Z	2	18.90	4.800	180.34	7.034	24.000	24.000	10.000	0.80	0.71	0.000
<b>Totals:</b>		<b>79</b>	<b>8,590.31</b>		<b>27,034.58</b>					<b>Number of Appurtenances : 27</b>		

## Loading Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021	
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B		
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00		
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil		
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II	
		Page: 6	

### Linear Appurtenances Properties

Elev. From (ft)	Elev. To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	Pct In Block	Spread On Faces	Bundling Arrangement	Cluster Dia (in)	Out of Zone	Spacing (in)	Orientation Factor	Ka Override
0.00	177.00	1 5/8" Coax	9	1.98	1.04	50.00	2	Block		N	0.50	0.63	
0.00	177.00	1 5/8" Fiber	3	2.00	1.10	50.00	2	Block		N	0.50	0.96	
0.00	175.00	W/G Ladder	1	1.00	6.00	100.00	2	Individual NR		N	0.50	1.00	
0.00	167.00	1 5/8" Coax	12	1.98	1.04	100.00	1	Individual IR		N	0.50	1.00	
0.00	167.00	1" DC Cables	2	1.00	0.40	100.00	1	Individual IR		N	0.50	1.00	
0.00	167.00	1/2" Coax	1	0.65	0.16	100.00	1	Individual NR		N	0.50	1.00	
0.00	150.00	1 5/8" Coax	8	1.98	1.04	100.00	3	Individual IR		N	0.50	0.43	
0.00	150.00	1 5/8" Coax	4	1.98	1.04	50.00	3	Block		N	0.50	0.96	
0.00	150.00	1 5/8" Hybrid	2	2.00	1.10	50.00	3	Block		N	0.50	1.00	
0.00	150.00	W/G Ladder	1	0.50	6.00	100.00	3	Individual NR		N	0.50	1.00	

## Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	<b>12/14/2021</b>
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.6W Normal Wind	1.2D + 1.6W 97 mph Wind at Normal To Face
<b>Wind Load Factor:</b> 1.60	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.20	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	14.33	22.969	28.80	0.00	0.14	2.81	1.00	1.00	0.00	35.64	111.02	0.00	6,103.2	0.0	1955.48	1575.83	3,531.31
1 2	30.0	14.34	17.891	28.80	0.00	0.14	2.81	1.00	1.00	0.00	30.59	111.02	0.00	4,966.1	0.0	1675.20	1577.16	3,252.36
1 3	50.0	16.60	18.433	22.12	0.00	0.14	2.81	1.00	1.00	0.00	29.25	111.02	0.00	4,681.8	0.0	1853.59	1824.99	3,678.58
1 4	70.0	18.27	16.186	22.12	0.00	0.15	2.76	1.00	1.00	0.00	26.86	111.02	0.00	3,809.5	0.0	1839.85	2009.14	3,848.99
1 5	90.0	19.63	13.845	18.59	0.00	0.16	2.73	1.00	1.00	0.00	23.41	111.02	0.00	3,532.0	0.0	1706.46	2158.71	3,865.17
1 6	110.0	20.79	11.319	18.56	0.00	0.19	2.64	1.00	1.00	0.00	20.91	111.02	0.00	3,393.5	0.0	1561.50	2286.10	3,847.60
1 7	130.0	21.81	10.857	15.03	0.00	0.21	2.55	1.00	1.00	0.00	19.20	111.02	0.00	2,952.4	0.0	1454.31	2397.86	3,852.17
1 8	150.0	22.72	10.707	11.67	0.00	0.23	2.51	1.00	1.00	0.00	17.47	92.02	0.00	2,342.3	0.0	1354.54	2043.28	3,397.82
1 9	170.0	23.55	10.221	9.58	0.00	0.20	2.59	1.00	1.00	0.00	15.73	39.89	0.00	1,443.7	0.0	1303.11	885.68	2,188.79
														<b>33,224.6</b>	<b>0.0</b>			<b>31,462.78</b>

<b>Load Case:</b> 1.2D + 1.6W 60° Wind	1.2D + 1.6W 97 mph Wind at 60° From Face
<b>Wind Load Factor:</b> 1.60	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.20	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	14.33	22.969	28.80	0.00	0.14	2.81	0.80	1.00	0.00	31.05	111.02	0.00	6,103.2	0.0	1703.45	1575.83	3,279.27
1 2	30.0	14.34	17.891	28.80	0.00	0.14	2.81	0.80	1.00	0.00	27.01	111.02	0.00	4,966.1	0.0	1479.23	1577.16	3,056.39
1 3	50.0	16.60	18.433	22.12	0.00	0.14	2.81	0.80	1.00	0.00	25.57	111.02	0.00	4,681.8	0.0	1620.00	1824.99	3,444.99
1 4	70.0	18.27	16.186	22.12	0.00	0.15	2.76	0.80	1.00	0.00	23.62	111.02	0.00	3,809.5	0.0	1618.11	2009.14	3,627.25
1 5	90.0	19.63	13.845	18.59	0.00	0.16	2.73	0.80	1.00	0.00	20.64	111.02	0.00	3,532.0	0.0	1504.63	2158.71	3,663.34
1 6	110.0	20.79	11.319	18.56	0.00	0.19	2.64	0.80	1.00	0.00	18.64	111.02	0.00	3,393.5	0.0	1392.41	2286.10	3,678.51
1 7	130.0	21.81	10.857	15.03	0.00	0.21	2.55	0.80	1.00	0.00	17.03	111.02	0.00	2,952.4	0.0	1289.87	2397.86	3,687.73
1 8	150.0	22.72	10.707	11.67	0.00	0.23	2.51	0.80	1.00	0.00	15.33	92.02	0.00	2,342.3	0.0	1188.50	2043.28	3,231.78
1 9	170.0	23.55	10.221	9.58	0.00	0.20	2.59	0.80	1.00	0.00	13.69	39.89	0.00	1,443.7	0.0	1133.78	885.68	2,019.46
														<b>33,224.6</b>	<b>0.0</b>			<b>29,688.72</b>

## Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	<b>12/14/2021</b>
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.2D + 1.6W 90° Wind	1.2D + 1.6W 97 mph Wind at 90° From Face
<b>Wind Load Factor:</b> 1.60	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.20	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	14.33	22.969	28.80	0.00	0.14	2.81	0.85	1.00	0.00	32.20	111.02	0.00	6,103.2	0.0	1766.46	1575.83	3,342.28
1 2	30.0	14.34	17.891	28.80	0.00	0.14	2.81	0.85	1.00	0.00	27.90	111.02	0.00	4,966.1	0.0	1528.22	1577.16	3,105.38
1 3	50.0	16.60	18.433	22.12	0.00	0.14	2.81	0.85	1.00	0.00	26.49	111.02	0.00	4,681.8	0.0	1678.40	1824.99	3,503.39
1 4	70.0	18.27	16.186	22.12	0.00	0.15	2.76	0.85	1.00	0.00	24.43	111.02	0.00	3,809.5	0.0	1673.54	2009.14	3,682.68
1 5	90.0	19.63	13.845	18.59	0.00	0.16	2.73	0.85	1.00	0.00	21.34	111.02	0.00	3,532.0	0.0	1555.08	2158.71	3,713.80
1 6	110.0	20.79	11.319	18.56	0.00	0.19	2.64	0.85	1.00	0.00	19.21	111.02	0.00	3,393.5	0.0	1434.69	2286.10	3,720.78
1 7	130.0	21.81	10.857	15.03	0.00	0.21	2.55	0.85	1.00	0.00	17.58	111.02	0.00	2,952.4	0.0	1330.98	2397.86	3,728.84
1 8	150.0	22.72	10.707	11.67	0.00	0.23	2.51	0.85	1.00	0.00	15.86	92.02	0.00	2,342.3	0.0	1230.01	2043.28	3,273.29
1 9	170.0	23.55	10.221	9.58	0.00	0.20	2.59	0.85	1.00	0.00	14.20	39.89	0.00	1,443.7	0.0	1176.11	885.68	2,061.79
														<b>33,224.6</b>	<b>0.0</b>			<b>30,132.24</b>

<b>Load Case:</b> 0.9D + 1.6W Normal Wind	0.9D + 1.6W 97 mph Wind at Normal To Face
<b>Wind Load Factor:</b> 1.60	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 0.90	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	14.33	22.969	28.80	0.00	0.14	2.81	1.00	1.00	0.00	35.64	111.02	0.00	4,577.4	0.0	1955.48	1575.83	3,531.31
1 2	30.0	14.34	17.891	28.80	0.00	0.14	2.81	1.00	1.00	0.00	30.59	111.02	0.00	3,724.6	0.0	1675.20	1577.16	3,252.36
1 3	50.0	16.60	18.433	22.12	0.00	0.14	2.81	1.00	1.00	0.00	29.25	111.02	0.00	3,511.4	0.0	1853.59	1824.99	3,678.58
1 4	70.0	18.27	16.186	22.12	0.00	0.15	2.76	1.00	1.00	0.00	26.86	111.02	0.00	2,857.1	0.0	1839.85	2009.14	3,848.99
1 5	90.0	19.63	13.845	18.59	0.00	0.16	2.73	1.00	1.00	0.00	23.41	111.02	0.00	2,649.0	0.0	1706.46	2158.71	3,865.17
1 6	110.0	20.79	11.319	18.56	0.00	0.19	2.64	1.00	1.00	0.00	20.91	111.02	0.00	2,545.2	0.0	1561.50	2286.10	3,847.60
1 7	130.0	21.81	10.857	15.03	0.00	0.21	2.55	1.00	1.00	0.00	19.20	111.02	0.00	2,214.3	0.0	1454.31	2397.86	3,852.17
1 8	150.0	22.72	10.707	11.67	0.00	0.23	2.51	1.00	1.00	0.00	17.47	92.02	0.00	1,756.7	0.0	1354.54	2043.28	3,397.82
1 9	170.0	23.55	10.221	9.58	0.00	0.20	2.59	1.00	1.00	0.00	15.73	39.89	0.00	1,082.8	0.0	1303.11	885.68	2,188.79
														<b>24,918.4</b>	<b>0.0</b>			<b>31,462.78</b>

## Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	<b>12/14/2021</b>
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 0.9D + 1.6W 60° Wind	0.9D + 1.6W 97 mph Wind at 60° From Face
<b>Wind Load Factor:</b> 1.60	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 0.90	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	14.33	22.969	28.80	0.00	0.14	2.81	0.80	1.00	0.00	31.05	111.02	0.00	4,577.4	0.0	1703.45	1575.83	3,279.27
1 2	30.0	14.34	17.891	28.80	0.00	0.14	2.81	0.80	1.00	0.00	27.01	111.02	0.00	3,724.6	0.0	1479.23	1577.16	3,056.39
1 3	50.0	16.60	18.433	22.12	0.00	0.14	2.81	0.80	1.00	0.00	25.57	111.02	0.00	3,511.4	0.0	1620.00	1824.99	3,444.99
1 4	70.0	18.27	16.186	22.12	0.00	0.15	2.76	0.80	1.00	0.00	23.62	111.02	0.00	2,857.1	0.0	1618.11	2009.14	3,627.25
1 5	90.0	19.63	13.845	18.59	0.00	0.16	2.73	0.80	1.00	0.00	20.64	111.02	0.00	2,649.0	0.0	1504.63	2158.71	3,663.34
1 6	110.0	20.79	11.319	18.56	0.00	0.19	2.64	0.80	1.00	0.00	18.64	111.02	0.00	2,545.2	0.0	1392.41	2286.10	3,678.51
1 7	130.0	21.81	10.857	15.03	0.00	0.21	2.55	0.80	1.00	0.00	17.03	111.02	0.00	2,214.3	0.0	1289.87	2397.86	3,687.73
1 8	150.0	22.72	10.707	11.67	0.00	0.23	2.51	0.80	1.00	0.00	15.33	92.02	0.00	1,756.7	0.0	1188.50	2043.28	3,231.78
1 9	170.0	23.55	10.221	9.58	0.00	0.20	2.59	0.80	1.00	0.00	13.69	39.89	0.00	1,082.8	0.0	1133.78	885.68	2,019.46
														<b>24,918.4</b>	<b>0.0</b>			<b>29,688.72</b>

<b>Load Case:</b> 0.9D + 1.6W 90° Wind	0.9D + 1.6W 97 mph Wind at 90° From Face
<b>Wind Load Factor:</b> 1.60	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 0.90	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	14.33	22.969	28.80	0.00	0.14	2.81	0.85	1.00	0.00	32.20	111.02	0.00	4,577.4	0.0	1766.46	1575.83	3,342.28
1 2	30.0	14.34	17.891	28.80	0.00	0.14	2.81	0.85	1.00	0.00	27.90	111.02	0.00	3,724.6	0.0	1528.22	1577.16	3,105.38
1 3	50.0	16.60	18.433	22.12	0.00	0.14	2.81	0.85	1.00	0.00	26.49	111.02	0.00	3,511.4	0.0	1678.40	1824.99	3,503.39
1 4	70.0	18.27	16.186	22.12	0.00	0.15	2.76	0.85	1.00	0.00	24.43	111.02	0.00	2,857.1	0.0	1673.54	2009.14	3,682.68
1 5	90.0	19.63	13.845	18.59	0.00	0.16	2.73	0.85	1.00	0.00	21.34	111.02	0.00	2,649.0	0.0	1555.08	2158.71	3,713.80
1 6	110.0	20.79	11.319	18.56	0.00	0.19	2.64	0.85	1.00	0.00	19.21	111.02	0.00	2,545.2	0.0	1434.69	2286.10	3,720.78
1 7	130.0	21.81	10.857	15.03	0.00	0.21	2.55	0.85	1.00	0.00	17.58	111.02	0.00	2,214.3	0.0	1330.98	2397.86	3,728.84
1 8	150.0	22.72	10.707	11.67	0.00	0.23	2.51	0.85	1.00	0.00	15.86	92.02	0.00	1,756.7	0.0	1230.01	2043.28	3,273.29
1 9	170.0	23.55	10.221	9.58	0.00	0.20	2.59	0.85	1.00	0.00	14.20	39.89	0.00	1,082.8	0.0	1176.11	885.68	2,061.79
														<b>24,918.4</b>	<b>0.0</b>			<b>30,132.24</b>

## Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	<b>12/14/2021</b>
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi Normal Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face
<b>Wind Load Factor:</b> 1.00	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.20	
<b>Ice Dead Load Factor:</b> 1.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	3.81	22.969	64.80	36.00	0.23	2.50	1.00	1.00	1.77	60.59	180.10	5.92	14,239.	8136.6	489.50	462.10	951.59
1 2	30.0	3.81	17.891	66.61	37.81	0.25	2.44	1.00	1.00	1.98	56.84	186.28	6.60	13,597.	8631.6	449.42	481.32	930.74
1 3	50.0	4.41	18.433	67.93	45.82	0.29	2.32	1.00	1.00	2.08	58.96	189.40	6.95	13,796.	9114.3	512.11	566.66	1,078.78
1 4	70.0	4.86	16.186	65.64	43.51	0.32	2.24	1.00	1.00	2.16	55.92	191.54	7.19	12,926.	9117.1	517.92	631.17	1,149.10
1 5	90.0	5.22	13.845	58.89	40.29	0.35	2.17	1.00	1.00	2.21	50.11	193.18	7.37	12,331.	8799.5	482.85	683.82	1,166.67
1 6	110.0	5.52	11.319	60.55	41.98	0.43	2.01	1.00	1.00	2.26	50.62	194.53	7.52	12,130.	8737.1	477.79	693.09	1,170.88
1 7	130.0	5.79	10.857	56.69	41.66	0.52	1.87	1.00	1.00	2.29	50.40	195.67	7.65	11,608.	8655.6	464.73	611.29	1,076.02
1 8	150.0	6.04	10.707	53.45	41.79	0.60	1.80	1.00	1.00	2.33	50.55	159.23	7.76	9,886.2	7543.9	467.47	450.54	918.02
1 9	170.0	6.26	10.221	54.06	44.48	0.61	1.80	1.00	1.00	2.36	50.74	68.13	2.75	6,435.9	4992.2	485.30	197.73	683.03
														<b>106,952.5</b>	<b>73728.0</b>			

<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi 60° Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face
<b>Wind Load Factor:</b> 1.00	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.20	
<b>Ice Dead Load Factor:</b> 1.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	3.81	22.969	64.80	36.00	0.23	2.50	0.80	1.00	1.77	55.99	180.10	5.92	14,239.	8136.6	452.38	462.10	914.48
1 2	30.0	3.81	17.891	66.61	37.81	0.25	2.44	0.80	1.00	1.98	53.26	186.28	6.60	13,597.	8631.6	421.13	481.32	902.45
1 3	50.0	4.41	18.433	67.93	45.82	0.29	2.32	0.80	1.00	2.08	55.27	189.40	6.95	13,796.	9114.3	480.09	566.66	1,046.75
1 4	70.0	4.86	16.186	65.64	43.51	0.32	2.24	0.80	1.00	2.16	52.68	191.54	7.19	12,926.	9117.1	487.94	631.17	1,119.11
1 5	90.0	5.22	13.845	58.89	40.29	0.35	2.17	0.80	1.00	2.21	47.34	193.18	7.37	12,331.	8799.5	456.16	683.82	1,139.98
1 6	110.0	5.52	11.319	60.55	41.98	0.43	2.01	0.80	1.00	2.26	48.35	194.53	7.52	12,130.	8737.1	456.43	693.09	1,149.51
1 7	130.0	5.79	10.857	56.69	41.66	0.52	1.87	0.80	1.00	2.29	48.23	195.67	7.65	11,608.	8655.6	444.70	611.29	1,055.99
1 8	150.0	6.04	10.707	53.45	41.79	0.60	1.80	0.80	1.00	2.33	48.41	159.23	7.76	9,886.2	7543.9	447.67	450.54	898.21
1 9	170.0	6.26	10.221	54.06	44.48	0.61	1.80	0.80	1.00	2.36	48.69	68.13	2.75	6,435.9	4992.2	465.74	197.73	663.48
														<b>106,952.5</b>	<b>73728.0</b>			



## Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.2D + 1.0Di + 1.0Wi 90° Wind	1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face
<b>Wind Load Factor:</b> 1.00	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.20	
<b>Ice Dead Load Factor:</b> 1.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	3.81	22.969	64.80	36.00	0.23	2.50	0.85	1.00	1.77	57.14	180.10	5.92	14,239.	8136.6	461.66	462.10	923.76
1 2	30.0	3.81	17.891	66.61	37.81	0.25	2.44	0.85	1.00	1.98	54.16	186.28	6.60	13,597.	8631.6	428.21	481.32	909.53
1 3	50.0	4.41	18.433	67.93	45.82	0.29	2.32	0.85	1.00	2.08	56.19	189.40	6.95	13,796.	9114.3	488.10	566.66	1,054.76
1 4	70.0	4.86	16.186	65.64	43.51	0.32	2.24	0.85	1.00	2.16	53.49	191.54	7.19	12,926.	9117.1	495.44	631.17	1,126.61
1 5	90.0	5.22	13.845	58.89	40.29	0.35	2.17	0.85	1.00	2.21	48.03	193.18	7.37	12,331.	8799.5	462.83	683.82	1,146.65
1 6	110.0	5.52	11.319	60.55	41.98	0.43	2.01	0.85	1.00	2.26	48.92	194.53	7.52	12,130.	8737.1	461.77	693.09	1,154.86
1 7	130.0	5.79	10.857	56.69	41.66	0.52	1.87	0.85	1.00	2.29	48.77	195.67	7.65	11,608.	8655.6	449.71	611.29	1,061.00
1 8	150.0	6.04	10.707	53.45	41.79	0.60	1.80	0.85	1.00	2.33	48.94	159.23	7.76	9,886.2	7543.9	452.62	450.54	903.17
1 9	170.0	6.26	10.221	54.06	44.48	0.61	1.80	0.85	1.00	2.36	49.20	68.13	2.75	6,435.9	4992.2	470.63	197.73	668.36
														<b>106,952.5</b>	<b>73728.0</b>			<b>8,948.69</b>

<b>Load Case:</b> 1.0D + 1.0W Normal Wind	1.0D + 1.0W 60 mph Wind at Normal To Face
<b>Wind Load Factor:</b> 1.00	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.00	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	5.48	22.969	28.80	0.00	0.14	2.81	1.00	1.00	0.00	38.72	111.02	0.00	5,086.0	0.0	507.97	376.83	884.80
1 2	30.0	5.49	17.891	28.80	0.00	0.14	2.81	1.00	1.00	0.00	33.65	111.02	0.00	4,138.4	0.0	440.69	377.15	817.84
1 3	50.0	6.35	18.433	22.12	0.00	0.14	2.81	1.00	1.00	0.00	30.97	111.02	0.00	3,901.5	0.0	469.20	436.41	905.61
1 4	70.0	6.99	16.186	22.12	0.00	0.15	2.76	1.00	1.00	0.00	28.75	111.02	0.00	3,174.6	0.0	470.95	480.45	951.40
1 5	90.0	7.51	13.845	18.59	0.00	0.16	2.73	1.00	1.00	0.00	24.42	111.02	0.00	2,943.3	0.0	425.64	516.22	941.86
1 6	110.0	7.96	11.319	18.56	0.00	0.19	2.64	1.00	1.00	0.00	21.94	111.02	0.00	2,827.9	0.0	391.90	546.68	938.58
1 7	130.0	8.34	10.857	15.03	0.00	0.21	2.55	1.00	1.00	0.00	19.53	111.02	0.00	2,460.4	0.0	353.60	573.41	927.00
1 8	150.0	8.69	10.707	11.67	0.00	0.23	2.51	1.00	1.00	0.00	17.47	92.02	0.00	1,951.9	0.0	323.91	488.62	812.53
1 9	170.0	9.01	10.221	9.58	0.00	0.20	2.59	1.00	1.00	0.00	15.73	39.89	0.00	1,203.1	0.0	311.62	211.80	523.41
														<b>27,687.1</b>	<b>0.0</b>			<b>7,703.04</b>

## Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	<b>12/14/2021</b>
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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<b>Load Case:</b> 1.0D + 1.0W 60° Wind	1.0D + 1.0W 60 mph Wind at 60° From Face
<b>Wind Load Factor:</b> 1.00	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.00	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	5.48	22.969	28.80	0.00	0.14	2.81	0.80	1.00	0.00	34.12	111.02	0.00	5,086.0	0.0	447.70	376.83	824.53
1 2	30.0	5.49	17.891	28.80	0.00	0.14	2.81	0.80	1.00	0.00	30.07	111.02	0.00	4,138.4	0.0	393.83	377.15	770.98
1 3	50.0	6.35	18.433	22.12	0.00	0.14	2.81	0.80	1.00	0.00	27.28	111.02	0.00	3,901.5	0.0	413.34	436.41	849.75
1 4	70.0	6.99	16.186	22.12	0.00	0.15	2.76	0.80	1.00	0.00	25.51	111.02	0.00	3,174.6	0.0	417.92	480.45	898.38
1 5	90.0	7.51	13.845	18.59	0.00	0.16	2.73	0.80	1.00	0.00	21.65	111.02	0.00	2,943.3	0.0	377.38	516.22	893.60
1 6	110.0	7.96	11.319	18.56	0.00	0.19	2.64	0.80	1.00	0.00	19.68	111.02	0.00	2,827.9	0.0	351.47	546.68	898.15
1 7	130.0	8.34	10.857	15.03	0.00	0.21	2.55	0.80	1.00	0.00	17.35	111.02	0.00	2,460.4	0.0	314.28	573.41	887.68
1 8	150.0	8.69	10.707	11.67	0.00	0.23	2.51	0.80	1.00	0.00	15.33	92.02	0.00	1,951.9	0.0	284.21	488.62	772.82
1 9	170.0	9.01	10.221	9.58	0.00	0.20	2.59	0.80	1.00	0.00	13.69	39.89	0.00	1,203.1	0.0	271.12	211.80	482.92
														<b>27,687.1</b>	<b>0.0</b>			<b>7,278.80</b>

<b>Load Case:</b> 1.0D + 1.0W 90° Wind	1.0D + 1.0W 60 mph Wind at 90° From Face
<b>Wind Load Factor:</b> 1.00	<b>Wind Importance Factor:</b> 1.00
<b>Dead Load Factor:</b> 1.00	
<b>Ice Dead Load Factor:</b> 0.00	<b>Ice Importance Factor:</b> 1.00

Sect Seq	Wind Height (ft)	qz (psf)	Total Area (sqft)		Ice Round Area (sqft)	Sol Ratio	Cf	Df	Dr	Ice Thick (in)	Eff Area (sqft)	Ice Area (sqft)		Total Weight (lb)	Weight Ice (lb)	Struct Force (lb)	Linear Force (lb)	Total Force (lb)
			Flat Area (sqft)	Round Area (sqft)								Linear Area (sqft)	Linear Area (sqft)					
1 1	10.0	5.48	22.969	28.80	0.00	0.14	2.81	0.85	1.00	0.00	35.27	111.02	0.00	5,086.0	0.0	462.77	376.83	839.60
1 2	30.0	5.49	17.891	28.80	0.00	0.14	2.81	0.85	1.00	0.00	30.97	111.02	0.00	4,138.4	0.0	405.54	377.15	782.69
1 3	50.0	6.35	18.433	22.12	0.00	0.14	2.81	0.85	1.00	0.00	28.20	111.02	0.00	3,901.5	0.0	427.30	436.41	863.72
1 4	70.0	6.99	16.186	22.12	0.00	0.15	2.76	0.85	1.00	0.00	26.32	111.02	0.00	3,174.6	0.0	431.18	480.45	911.63
1 5	90.0	7.51	13.845	18.59	0.00	0.16	2.73	0.85	1.00	0.00	22.34	111.02	0.00	2,943.3	0.0	389.44	516.22	905.66
1 6	110.0	7.96	11.319	18.56	0.00	0.19	2.64	0.85	1.00	0.00	20.24	111.02	0.00	2,827.9	0.0	361.58	546.68	908.26
1 7	130.0	8.34	10.857	15.03	0.00	0.21	2.55	0.85	1.00	0.00	17.90	111.02	0.00	2,460.4	0.0	324.11	573.41	897.51
1 8	150.0	8.69	10.707	11.67	0.00	0.23	2.51	0.85	1.00	0.00	15.86	92.02	0.00	1,951.9	0.0	294.14	488.62	782.75
1 9	170.0	9.01	10.221	9.58	0.00	0.20	2.59	0.85	1.00	0.00	14.20	39.89	0.00	1,203.1	0.0	281.25	211.80	493.04
														<b>27,687.1</b>	<b>0.0</b>			<b>7,384.86</b>

## Force/Stress Compression Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	<b>12/14/2021</b>
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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### LEG MEMBERS

Sect	Top Elev	Member	Force		Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
			(kips)				X	Y	Z				
1	20	PX - 8" DIA PIPE	-279.33	1.2D + 1.6W	Normal Wind	9.64	100	100	100	40.20	510.21	54.7	Member X
2	40	PSP - ROHN 8 EHS	-256.38	1.2D + 1.6W	Normal Wind	9.64	100	100	100	39.63	389.94	65.7	Member X
3	60	PX - 6" DIA PIPE	-234.12	1.2D + 1.6W	Normal Wind	6.43	100	100	100	35.21	345.23	67.8	Member X
4	80	PSP - ROHN 6 EHS	-207.18	1.2D + 1.6W	Normal Wind	6.43	100	100	100	34.67	276.67	74.9	Member X
5	100	PX - 5" DIA PIPE	-182.45	1.2D + 1.6W	Normal Wind	6.43	100	100	100	41.96	241.74	75.5	Member X
6	120	PX - 5" DIA PIPE	-160.34	1.2D + 1.6W	Normal Wind	4.82	100	100	100	31.42	255.81	62.7	Member X
7	140	PX - 4" DIA PIPE	-122.91	1.2D + 1.6W	Normal Wind	3.86	100	100	100	31.27	184.75	66.5	Member X
8	160	PST - 3" DIA PIPE	-88.79	1.2D + 1.6W	Normal Wind	0.38	100	100	100	3.88	100.24	88.6	Member X
9	180	PST - 2-1/2" DIA PIPE	-20.83	1.2D + 1.6W	Normal Wind	3.33	100	100	100	42.24	67.30	30.9	Member X

### Splices

Sect	Top Elev	Load Case	Top Splice				Load Case	Bottom Splice			
			Force (kips)	Cap (kips)	Use %	Bolt Type		Force (kips)	Cap (kips)	Use %	Bolt Type
1	20	1.2D + 1.6W Normal Wind	262.95	0.00	0.0		1.2D + 1.6W Normal Wind	285.90	0.00		
2	40	1.2D + 1.6W Normal Wind	239.59	0.00	0.0		1.2D + 1.6W Normal Wind	262.95	0.00	1	A325
3	60	1.2D + 1.6W Normal Wind	212.24	0.00	0.0		1.2D + 1.6W Normal Wind	239.59	0.00	1	A325
4	80	1.2D + 1.6W Normal Wind	186.31	0.00	0.0		1.2D + 1.6W Normal Wind	212.24	0.00	1	A325
5	100	1.2D + 1.6W Normal Wind	166.24	0.00	0.0		1.2D + 1.6W Normal Wind	186.31	0.00	1	A325
6	120	1.2D + 1.6W Normal Wind	126.54	0.00	0.0		1.2D + 1.6W Normal Wind	166.24	0.00	1	A325
7	140	1.2D + 1.6W Normal Wind	89.32	0.00	0.0		1.2D + 1.6W Normal Wind	126.54	0.00	1	A325
8	160	1.2D + 1.6W Normal Wind	24.68	0.00	0.0		1.2D + 1.6W Normal Wind	89.32	0.00	7/8	A325
9	180	1.2D + 1.0Di + 1.0Wi 60° Wind	0.54	0.00	0.0		1.2D + 1.6W Normal Wind	24.68	0.00	3/4	A325

### HORIZONTAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z								
1	20								0.00	0	0					
2	40								0.00	0	0					
3	60								0.00	0	0					
4	80								0.00	0	0					
5	100								0.00	0	0					
6	120								0.00	0	0					
7	140								0.00	0	0					
8	160								0.00	0	0					
9	180	SAE - 1.75X1.75X0.125	-0.07	1.2D + 1.6W 60° Wind	4.64	100	100	100	160.63	36.00	3.68	1	1	12.43	5.22	2 Member Z

### DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z								
1	20	SAE - 3.5X3.5X0.25	-6.75	0.9D + 1.6W 90° Wind	19.98	50	50	25	109.99	36.00	28.96	1	1	17.89	12.6	54 Bolt Bear
2	40	SAE - 3X3X0.25	-5.84	0.9D + 1.6W 90° Wind	19.05	50	50	50	193.07	36.00	8.73	1	1	17.89	12.6	67 Member Z
3	60	SAE - 2.5X2.5X0.25	-5.79	0.9D + 1.6W 90° Wind	15.86	50	50	50	193.85	36.00	7.15	1	1	12.43	10.4	81 Member Z
4	80	SAE - 2.5X2.5X0.1875	-4.99	0.9D + 1.6W 90° Wind	14.09	50	50	50	170.79	36.00	6.99	1	1	12.43	7.84	71 Member Z
5	100	SAE - 2.5X2.5X0.1875	-3.66	1.2D + 1.6W Normal Wind	10.88	50	50	50	131.83	36.00	11.71	1	1	12.43	7.84	47 Bolt Bear
6	120	SAE - 2X2X0.1875	-5.42	1.2D + 1.6W 90° Wind	8.48	50	50	50	129.10	36.00	9.57	1	1	12.43	7.84	69 Bolt Bear
7	140	SAE - 2X2X0.1875	-4.62	1.2D + 1.6W Normal Wind	6.22	50	50	50	101.08	36.00	13.43	1	1	12.43	7.84	59 Bolt Bear
8	160	SAE - 2X2X0.25	-6.82	1.2D + 1.6W 90° Wind	5.65	50	50	50	94.97	36.00	18.94	1	1	12.43	10.4	65 Bolt Bear
9	180	SAE - 1.75X1.75X0.1875	-3.86	1.2D + 1.6W 90° Wind	5.72	50	50	50	105.01	36.00	11.24	1	1	12.43	7.84	49 Bolt Bear

## Force/Stress Compression Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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### DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Len (ft)	Bracing %			Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	Use %	Controls
						X	Y	Z								

## Force/Stress Tension Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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### LEG MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Leg Use %	Controls
1	20	PX - 8" DIA PIPE	251.73	0.9D + 1.6W 60° Wind	50	574.20	43.8	Member
2	40	PSP - ROHN 8 EHS	232.46	0.9D + 1.6W 60° Wind	50	437.40	53.1	Member
3	60	PX - 6" DIA PIPE	213.05	0.9D + 1.6W 60° Wind	50	378.00	56.4	Member
4	80	PSP - ROHN 6 EHS	189.84	0.9D + 1.6W 60° Wind	50	302.09	62.8	Member
5	100	PX - 5" DIA PIPE	167.35	0.9D + 1.6W 60° Wind	50	274.95	60.9	Member
6	120	PX - 5" DIA PIPE	150.07	0.9D + 1.6W 60° Wind	50	274.95	54.6	Member
7	140	PX - 4" DIA PIPE	114.00	0.9D + 1.6W 60° Wind	50	198.45	57.4	Member
8	160	PST - 3" DIA PIPE	79.42	0.9D + 1.6W 60° Wind	50	100.35	79.1	Member
9	180	PST - 2-1/2" DIA PIPE	16.86	0.9D + 1.6W 60° Wind	50	76.68	22.0	Member

### Splices

Sect	Top Elev	Top Splice					Bottom Splice						
		Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts	Load Case	Force (kips)	Cap (kips)	Use %	Bolt Type	Num Bolts
1	20	0.9D + 1.6W 60° Wind	232.14	0.00	0.0			0.9D + 1.6W 60° Wind	251.7	0.00			
2	40	0.9D + 1.6W 60° Wind	212.79	0.00	0.0			0.9D + 1.6W 60° Wind	232.1	424.08	54.7	1 A325	8
3	60	0.9D + 1.6W 60° Wind	189.60	0.00	0.0			0.9D + 1.6W 60° Wind	212.7	424.08	50.2	1 A325	8
4	80	0.9D + 1.6W 60° Wind	167.12	0.00	0.0			0.9D + 1.6W 60° Wind	189.6	318.06	59.6	1 A325	6
5	100	0.9D + 1.6W 60° Wind	150.04	0.00	0.0			0.9D + 1.6W 60° Wind	167.1	318.06	52.5	1 A325	6
6	120	0.9D + 1.6W 60° Wind	113.79	0.00	0.0			0.9D + 1.6W 60° Wind	150.0	212.04	70.8	1 A325	4
7	140	0.9D + 1.6W 60° Wind	79.67	0.00	0.0			0.9D + 1.6W 60° Wind	113.7	212.04	53.7	1 A325	4
8	160	0.9D + 1.6W 60° Wind	20.47	0.00	0.0			0.9D + 1.6W 60° Wind	79.67	166.24	47.9	7/8 A325	4
9	180		0.00	0.00	0.0			0.9D + 1.6W 60° Wind	20.47	120.40	17.0	3/4 A325	4

### HORIZONTAL MEMBERS

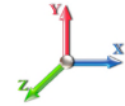
Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	-			36	0.00	0	0					
2	40	-			36	0.00	0	0					
3	60	-			36	0.00	0	0					
4	80	-			36	0.00	0	0					
5	100	-			36	0.00	0	0					
6	120	-			36	0.00	0	0					
7	140	-			36	0.00	0	0					
8	160	-			36	0.00	0	0					
9	180	SAE - 1.75X1.75X0.125	0.07	0.9D + 1.6W 60° Wind	36	10.64	1	1	12.43	5.22	4.56	1.4	Blck Shear

### DIAGONAL MEMBERS

Sect	Top Elev	Member	Force (kips)	Load Case	Fy (ksi)	Mem Cap (kips)	Num Bolts	Num Holes	Shear Cap (kips)	Bear Cap (kips)	B.S. Cap (kips)	Use %	Controls
1	20	SAE - 3.5X3.5X0.25	6.58	0.9D + 1.6W 90° Wind	36	48.00	1	1	17.89	12.62	18.76	52.2	Bolt Bear
2	40	SAE - 3X3X0.25	5.68	0.9D + 1.6W 90° Wind	36	39.84	1	1	17.89	12.62	16.04	45.1	Bolt Bear
3	60	SAE - 2.5X2.5X0.25	5.82	0.9D + 1.6W 90° Wind	36	32.71	1	1	12.43	10.45	13.19	55.7	Bolt Bear
4	80	SAE - 2.5X2.5X0.1875	4.92	1.2D + 1.6W 90° Wind	36	24.84	1	1	12.43	7.84	9.89	62.8	Bolt Bear
5	100	SAE - 2.5X2.5X0.1875	3.22	0.9D + 1.6W 60° Wind	36	24.84	1	1	12.43	7.84	9.89	41.1	Bolt Bear
6	120	SAE - 2X2X0.1875	5.33	1.2D + 1.6W 90° Wind	36	18.58	1	1	12.43	7.84	7.85	68.0	Bolt Bear
7	140	SAE - 2X2X0.1875	4.26	0.9D + 1.6W 90° Wind	36	18.58	1	1	12.43	7.84	7.85	54.4	Bolt Bear
8	160	SAE - 2X2X0.25	6.55	1.2D + 1.6W 90° Wind	36	24.55	1	1	12.43	10.45	10.47	62.7	Bolt Bear
9	180	SAE - 1.75X1.75X0.1875	3.85	1.2D + 1.6W 90° Wind	36	15.64	1	1	12.43	7.84	6.83	56.3	Blck Shear

## Seismic Section Forces

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case: 1.2D + 1.0E**

<b>Dead Load Factor</b>	1.20	<b>Sds</b> 0.184	<b>Ss</b> 0.1730	<b>Fa</b> 1.6000	<b>Ke</b> 0.0000
<b>Seismic Load Factor</b>	1.00	<b>Sd1</b> 0.102	<b>S1</b> 0.0640	<b>Fv</b> 2.4000	<b>Kg</b> 0.0000
<b>Seismic Importance Factor</b>	1.00	<b>SA</b> 0.139	<b>R</b> 3.0000	<b>Vs</b> 2.0207	<b>f1</b> 1.3592

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	5086.0	0.01	0.05	0.03	20.36
2	30.00	4138.4	0.05	0.07	0.04	32.97
3	50.00	3901.5	0.15	0.07	0.03	46.88
4	70.00	3174.5	0.29	0.05	0.01	54.01
5	90.00	2943.3	0.47	-0.01	0.01	62.71
6	110.00	2827.9	0.71	-0.09	0.03	70.31
7	130.00	2460.3	0.99	-0.11	0.12	81.41
8	150.00	5453.2	1.31	0.14	0.35	310.25
9	170.00	6292.1	1.69	1.07	0.79	673.03

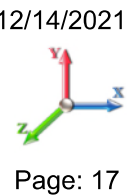
**Load Case: 0.9D + 1.0E**

<b>Dead Load Factor</b>	0.90	<b>Sds</b> 0.184	<b>Ss</b> 0.1730	<b>Fa</b> 1.6000	<b>Ke</b> 0.0000
<b>Seismic Load Factor</b>	1.00	<b>Sd1</b> 0.102	<b>S1</b> 0.0640	<b>Fv</b> 2.4000	<b>Kg</b> 0.0000
<b>Seismic Importance Factor</b>	1.00	<b>SA</b> 0.139	<b>R</b> 3.0000	<b>Vs</b> 2.0207	<b>f1</b> 1.3592

Sect #	Elev (ft)	Wz (lb)	Lateral			Fsz (lb)
			a	b	c	
1	10.00	5086.0	0.01	0.05	0.03	20.36
2	30.00	4138.4	0.05	0.07	0.04	32.97
3	50.00	3901.5	0.15	0.07	0.03	46.88
4	70.00	3174.5	0.29	0.05	0.01	54.01
5	90.00	2943.3	0.47	-0.01	0.01	62.71
6	110.00	2827.9	0.71	-0.09	0.03	70.31
7	130.00	2460.3	0.99	-0.11	0.12	81.41
8	150.00	5453.2	1.31	0.14	0.35	310.25
9	170.00	6292.1	1.69	1.07	0.79	673.03

## Support Forces Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II



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Load Case	Node	FX (kips)	FY (kips)	FZ (kips)	(-) = Uplift (+) = Down
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.6W Normal Wind	1	-0.01	285.27	-26.29	
	1a	9.26	-120.88	-7.65	
	1b	-9.26	-120.87	-7.66	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.6W 60° Wind	1	-1.81	145.33	-13.09	
	1a	-12.25	145.53	4.98	
	1b	-20.42	-247.32	-11.79	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.6W 90° Wind	1	-2.15	14.51	-0.90	
	1a	-19.78	243.30	10.20	
	1b	-18.32	-214.28	-9.30	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.6W Normal Wind	1	-0.01	281.16	-26.04	
	1a	9.46	-124.26	-7.77	
	1b	-9.45	-124.25	-7.78	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.6W 60° Wind	1	-1.82	141.46	-12.86	
	1a	-12.05	141.67	4.85	
	1b	-20.62	-250.48	-11.91	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.6W 90° Wind	1	-2.16	10.89	-0.66	
	1a	-19.57	239.26	10.08	
	1b	-18.52	-217.50	-9.41	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0Di + 1.0Wi Normal Wind	1	0.00	122.53	-7.43	
	1a	2.77	5.42	-2.22	
	1b	-2.77	5.47	-2.22	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0Di + 1.0Wi 60° Wind	1	-0.52	82.96	-3.72	
	1a	-3.48	82.99	1.41	
	1b	-6.09	-32.53	-3.52	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0Di + 1.0Wi 90° Wind	1	-0.61	44.46	-0.14	
	1a	-5.66	111.35	2.92	
	1b	-5.43	-22.39	-2.78	
<hr style="border-top: 1px dashed black;"/>					
1.2D + 1.0E	1	0.00	26.06	4.17	
	1a	4.74	8.74	-2.74	
	1b	-4.74	8.74	-2.74	
<hr style="border-top: 1px dashed black;"/>					
0.9D + 1.0E	1	0.00	22.41	4.41	
	1a	4.95	5.12	-2.86	
	1b	-4.95	5.12	-2.86	
<hr style="border-top: 1px dashed black;"/>					
1.0D + 1.0W Normal Wind	1	0.00	77.10	-6.94	
	1a	1.75	-20.41	-1.58	
	1b	-1.75	-20.41	-1.58	
<hr style="border-top: 1px dashed black;"/>					
1.0D + 1.0W 60° Wind	1	-0.46	43.57	-3.74	
	1a	-3.47	43.62	1.47	
	1b	-4.46	-50.91	-2.58	
<hr style="border-top: 1px dashed black;"/>					
1.0D + 1.0W 90° Wind	1	-0.54	12.09	-0.78	
	1a	-5.29	67.03	2.74	
	1b	-3.95	-42.84	-1.97	
<hr style="border-top: 1px dashed black;"/>					

### Max Reactions

Leg

Overturning

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Max Uplift: -250.48 (kips)

Max Down: 285.27 (kips)

Max Shear: 26.29 (kips)

Moment: 4452.93 (ft-kips)

Total Down: 43.53 (kips)

Total Shear: 41.59 (kips)



## Analysis Summary

<b>Structure:</b> CT13617-A-SBA	<b>Code:</b> EIA/TIA-222-G	12/14/2021
<b>Site Name:</b> Troiano Realty	<b>Exposure:</b> B	
<b>Height:</b> 180.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 0.85	<b>Topography:</b> 1	<b>Struct Class:</b> II
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### Max Reactions

	Leg	Overturning
Max Uplift:	-250.48 (kips)	Moment: 4452.93 (ft-kips)
Max Down:	285.27 (kips)	Total Down: 43.53 (kips)
Max Shear:	26.29 (kips)	Total Shear: 41.59 (kips)

### Anchor Bolts

Bolt Size (in.): 1.00	Number Bolts: 8
Yield Strength (Ksi): 109.00	Tensile Strength (Ksi): 125.00
Detail Type: A	

**Interaction Ratio: 0.58**


### Max Usages

Max Leg: 88.6% (1.2D + 1.6W Normal Wind - Sect 8)  
 Max Diag: 80.9% (0.9D + 1.6W 90° Wind - Sect 3)  
 Max Horiz: 1.9% (1.2D + 1.6W 60° Wind - Sect 9)

### Max Deflection, Twist and Sway

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)
0.9D + 1.0E - Normal To Face	150.00	0.0709	0.0012	0.0827
	166.67	0.0973	0.0011	0.0963
	176.67	0.1142	0.0010	0.0970
	180.00	0.1199	-0.0010	0.0969
0.9D + 1.6W 97 mph Wind at 60° From Face	150.00	1.3246	-0.0827	1.3390
	166.67	1.7414	-0.1296	1.4952
	176.67	2.0020	-0.1679	1.5333
	180.00	2.0889	-0.1705	1.4752
0.9D + 1.6W 97 mph Wind at 90° From Face	150.00	1.3344	-0.0357	1.3500
	166.67	1.7548	-0.0356	1.5070
	176.67	2.0176	-0.0357	1.5808
	180.00	2.1053	-0.0357	1.4707
0.9D + 1.6W 97 mph Wind at Normal To Face	150.00	1.3583	0.0316	1.3659
	166.67	1.7838	0.0315	1.5207
	176.67	2.0479	0.0315	1.4452
	180.00	2.1359	-0.0305	1.5467
1.0D + 1.0W 60 mph Wind at 60° From Face	150.00	0.3174	-0.0092	0.3203
	166.67	0.4172	-0.0114	0.3584
	176.67	0.4795	-0.0134	0.3668
	180.00	0.5002	-0.0135	0.3526
1.0D + 1.0W 60 mph Wind at 90° From Face	150.00	0.3192	-0.0077	0.3223
	166.67	0.4196	-0.0073	0.3603
	176.67	0.4823	-0.0072	0.3774
	180.00	0.5032	-0.0072	0.3508

1.0D + 1.0W 60 mph Wind at Normal To Face	150.00	0.3252	0.0069	0.3263
	166.67	0.4267	0.0066	0.3634
	176.67	0.4898	0.0064	0.3448
	180.00	0.5108	-0.0062	0.3693
-----				
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 60° From Face	150.00	0.3891	-0.0110	0.3918
	166.67	0.5110	-0.0132	0.4397
	176.67	0.5871	-0.0151	0.4440
	180.00	0.6124	-0.0152	0.4320
-----				
1.2D + 1.0Di + 1.0Wi 50 mph Wind at 90° From Face	150.00	0.3898	-0.0097	0.3929
	166.67	0.5121	-0.0093	0.4404
	176.67	0.5884	-0.0092	0.4518
	180.00	0.6138	-0.0092	0.4301
-----				
1.2D + 1.0Di + 1.0Wi 50 mph Wind at Normal From Face	150.00	0.3927	0.0087	0.3947
	166.67	0.5157	0.0083	0.4407
	176.67	0.5920	0.0082	0.4246
	180.00	0.6175	-0.0079	0.4437
-----				
1.2D + 1.0E - Normal To Face	150.00	0.0711	-0.0012	0.0831
	166.67	0.0976	-0.0011	0.0967
	176.67	0.1146	-0.0010	0.0974
	180.00	0.1203	-0.0010	0.0974
-----				
1.2D + 1.6W 97 mph Wind at 60° From Face	150.00	1.3286	-0.0830	1.3443
	166.67	1.7471	-0.1301	1.5016
	176.67	2.0088	-0.1686	1.5395
	180.00	2.0960	-0.1712	1.4812
-----				
1.2D + 1.6W 97 mph Wind at 90° From Face	150.00	1.3384	-0.0358	1.3553
	166.67	1.7606	-0.0358	1.5134
	176.67	2.0245	-0.0358	1.5870
	180.00	2.1125	-0.0358	1.4767
-----				
1.2D + 1.6W 97 mph Wind at Normal To Face	150.00	1.3625	0.0317	1.3713
	166.67	1.7896	0.0316	1.5267
	176.67	2.0549	0.0316	1.4513
	180.00	2.1432	-0.0306	1.5530
-----				

	Mat Foundation Design for Self Supporting Tower			Date
				12/14/2021
	Customer Name:	SBA Communications Corp	EIA/TIA Standard:	EIA-222-G
	Site Name:		Structure Height (Ft.):	180
	Site Number:	CT13617-A-SBA	Engineer Name:	T. Alajaj
Engr. Number:	120396	Engineer Login ID:		

**Foundation Info Obtained from:**

**Analysis or Design?**

**Number of Tower Legs:**

**Base Reactions (Factored):**

(1). Individual Leg:

Axial Load (Kips):	285.3	Uplift Force (Kips):	250.5
Shear Force (Kips):	26.3		

(2). Tower Base:

Total Vertical Load (Kips):	43.5	Total Shear Force (Kips):	41.6
Moment (Kips-ft):	4452.9		

**Foundation Geometries:**

Leg distance (Center-to-Center ft.):	19.0	Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	Round 4.0	Pier Height A. G. (ft.):	0.00
Tower center to mat center (ft):	0	Depth of Base BG (ft.):	6.0
Length of Pad (ft.):	27	Width of Pad (ft.):	27
Thickness of Pad (ft):	3.00		

**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 #:	9	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	12	Tie Spacing (in):	3.0	
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:

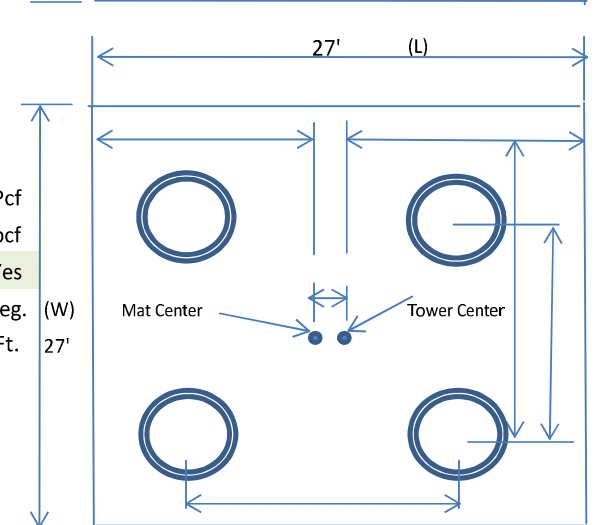
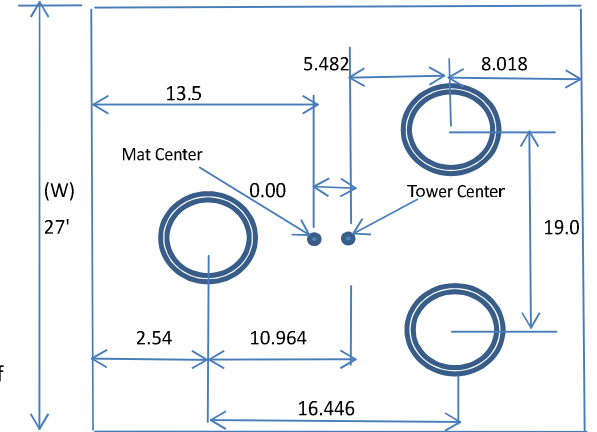
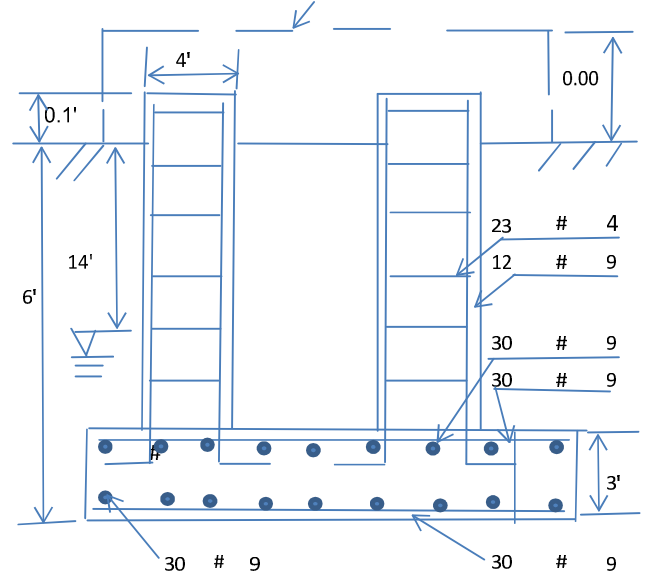
Qty. of Rebar in Pad (L):	30	Qty. of Rebar in Pad (W):	30
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Rebar at the top of the concrete pad:

Qty. of Rebar in Pad (L):	30	Qty. of Rebar in Pad (W):	30
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**Soil Design Parameters:**

Soil Unit Weight (pcf):	120.0	Soil Buoyant Weight:	50.0	Pcf
Water Table B.G.S. (ft):	14.0	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	16000	Consider ties in concrete shear strength:	Yes	
Consider Soil Lateral Resistance ?	Yes	Enter soil C (psf) or Phi (deg.):	30.0	Deg. (W)
		Depth to ignor lateral resistance	1.0	Ft. 27'



Apply 1.35 for e/w per G/H:

**Foundation Analysis and Design:** Uplift Strength Reduction Factor:

- Total Dry Soil Volume (cu. Ft.):
- Total Buoyant Soil Volume (cu. Ft.):
- Total Effective Soil Weight (Kips):
- Total Dry Concrete Volume (cu. Ft.):
- Total Buoyant Concrete Volume (cu. Ft.):
- Total Effective Concrete Weight (Kips):

- 2073.90 Total Dry Soil Weight (Kips):
- 248.87 Total Buoyant Soil Weight (Kips):
- 2300.10 Weight from the Concrete Block at Top (K):
- 345.02 Total Dry Concrete Weight (Kips):
- Total Buoyant Concrete Weight (Kips):
- Total Vertical Load on Base (Kips):

**Check Soil Capacities:**

- Calculated Maxium Net Soil Pressure under the base (psf):
- Allowable Foundation Overturning Resistance (kips-ft.):
- Factor of Safety Against Overturning (O. R. Moment/Design Moment):

- < Allowable Factored Soil Bearing (psf): 12000
- Design Factored Momont (kips-ft):

Load/  
Capacity  
Ratio

**Check the capacities of Reinforcing Concrete:**

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

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

ad  
Capacity  
Ratio

(1) Concrete Pier:

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

- Tie / Stirrup Area (sq. in./each):
- > Design Factored Moment (Mu, Kips-Ft)
- > Design Factored Shear (Kips):
- > Design Factored Tension (Tu Kips):
- > Design Factored Axial Load (Pu Kips):
- OK! Check Tie Spacing (Design/Req'd):
- Reinforcement Ratio is satisfied per ACI

(2).Concrete Pad:

- One-Way Design Shear Capacity (L or W Direction, Kips):
- One-Way Design Shear Capacity (Diagonal Dir., Kips):
- Lower Steel Pad Reinforcement Ratio (L or W-Direct. ):
- Lower Steel Pad Moment Capacity (L or W-Dir. Kips-ft):
- Lower Steel Pad Moment Capacity (Dia. Direction,K-ft):
- Upper Steel Pad Reinforcement Ratio (L or W -Direction):
- Upper Steel Pad Moment Capacity (L or W-Dir., Kips-ft):
- Upper Steel Pad Moment Capacity (Dia. Direction, K-ft):
- Punching Failure Capacity (Kips):

- One-Way Factored Shear (L/W-Dir Kips)
- One-Way Factored Shear (Dia. Dir, Kips)
- Lower Steel Reinf. Ratio (Dia. Dir.):
- Moment at Bottom ( L-Direct. K-Ft):
- Moment at Bottom ( Dia. Dir. K-Ft):
- Upper Steel Reinf. Ratio (Dia. Dir.):
- Moment at the top (L-Dir Kips-Ft):
- Moment at the top (Dia. Dir., K-Ft):
- Punch. Failure Factored Shear (K):



Maser Consulting Connecticut  
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(856) 797-0412  
Peter.albano@colliersengineering.com

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## Antenna Mount Analysis Report and PMI Requirements

### Mount Analysis

SMART Tool Project #: 10045199  
Maser Consulting Connecticut Project #: 21777300A

September 7, 2021

#### Site Information

Site ID: 467846-VZW / STAFFORD 3 CT  
Site Name: STAFFORD 3 CT  
Carrier Name: Verizon Wireless  
Address: 157 Chestnut Hill Rd  
Stafford Springs, Connecticut 06076  
Tolland County  
Latitude: 41.977417°  
Longitude: -72.383306°

#### Structure Information

Tower Type: Self Support  
Mount Type: 12.50-Ft Sector Frame

FUZE ID # 16272410

#### Analysis Results

Sector Frame: 50.1% Pass

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

**Included at the end of this MA report**

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

**Contractor - Please Review Specific Site PMI Requirements Upon Award  
Requirements may also be Noted on A & E drawings**

Report Prepared By: Carol Luengas



Digitally signed by Derek Hartzell  
Date: 2021.09.07 12:50:49-07'00'

**Executive Summary:**

The objective of this report is to determine the capacity of the antenna support mount at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

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

**Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS Site ID: 675060, dated August 28, 2021
Mount Mapping	Roaming Networks Inc. Site ID: PSLC467846, dated April 6, 2021

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust),	117 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.50 in
	Risk Category:	II
	Exposure Category:	B
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, $K_e$ :	0.968
Seismic Parameters:	S <sub>s</sub> :	0.175
	S <sub>1</sub> :	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, L <sub>v</sub> :	250 lbs.
	Maintenance Live Load, L <sub>m</sub> :	500 lbs.
Analysis Software:	RISA-3D (V17)	

**Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
			Samsung		Added
			Samsung	RF4439d-25A	
			Samsung	RF4440d-13A	
			Amphenol Antel		Retained
			Andrew		
			Antel		
			Raycap		

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

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

**Standard Conditions:**

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

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

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

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

- 6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
- 7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
  - o Channel, Solid Round, Angle, Plate      ASTM A36 (Gr. 36)
  - o HSS (Rectangular)                              ASTM 500 (Gr. B-46)
  - o Pipe    ASTM A53 (Gr. B-35)
  - o Threaded Rod                                      F1554 (Gr. 36)
  - o Bolts     ASTM A325

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

**Analysis Results:**

Component	Utilization %	Pass/Fail
Antenna Pipe		Pass
Face Horizontal		Pass
Standoff Horizontal		Pass
Standoff Diagonal		Pass
Tieback		Pass
Standoff Vertical		Pass
Standoff Plate		Pass
Mount Connection		Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>50.1%</b>
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**Recommendation:**

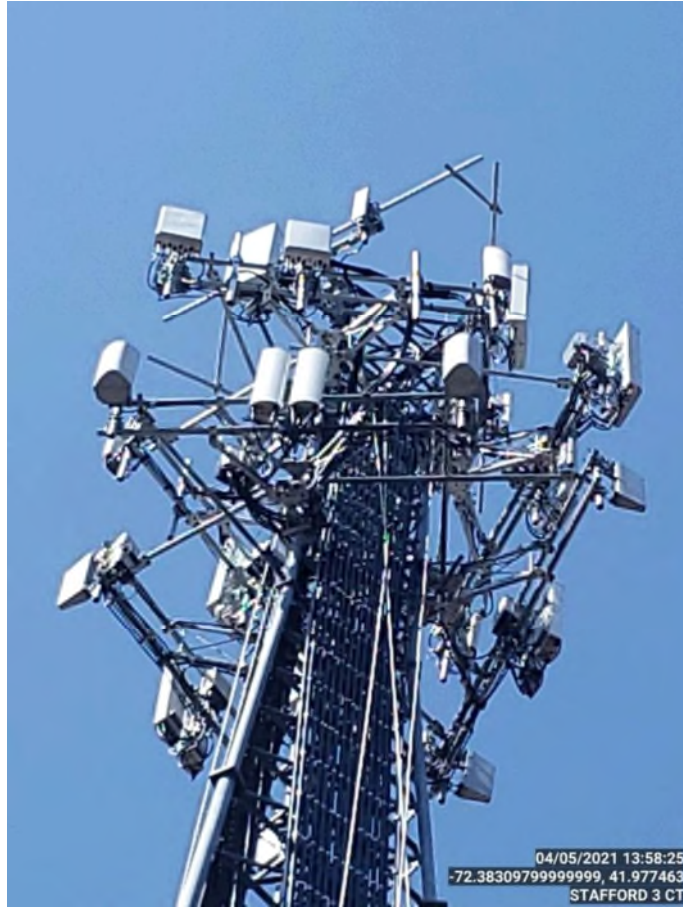
The existing mounts are **SUFFICIENT** for the final loading configuration and do not require modifications.


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

**Attachments:**

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

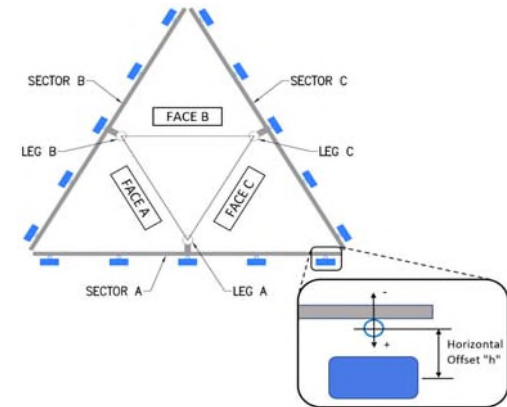




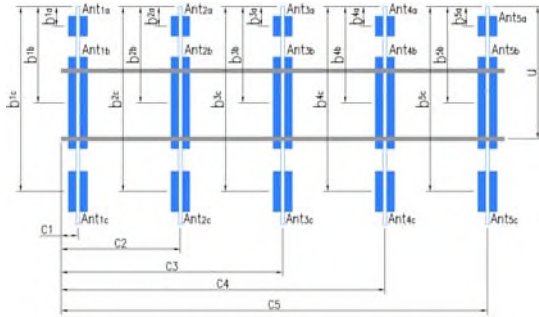
	<b>Antenna Mount Mapping Form (PATENT PENDING)</b>			FCC #
				1248715
Tower Owner:	Other	Mapping Date:	4/6/2021	
Site Name:	STAFFORD 3 CT	Tower Type:	Self Support	
Site Number or ID:	PSLC467846	Tower Height (Ft.):	N/A	
Mapping Contractor:	Roaming Networks Inc.	Mount Elevation (Ft.):	152	

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

Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	5.00	C1	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	5.00
A2	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	74.00	C2	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	74.00
A3	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	145.00	C3	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	145.00
A4				C4			
A5				C5			
A6				C6			
B1	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	5.00	D1			
B2	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	74.00	D2			
B3	PIPE 2.86"Ø X 0.22" X 72" LONG	57.00	145.00	D3			
B4				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. :							20.00
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.):		5		Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):		3.5	

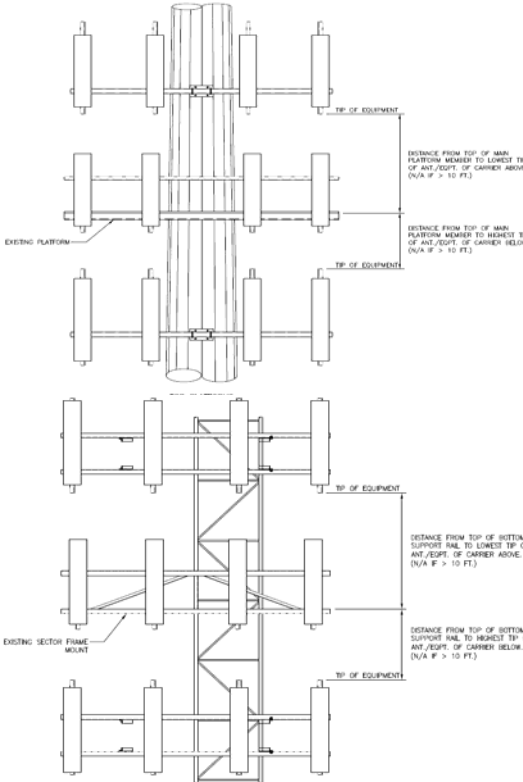


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas	
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
<b>Sector A</b>										
Ant <sub>1a</sub>	RRUS 12 B4	18.50	7.50	20.40		152.667	29.00			6,7
Ant <sub>1b</sub>	LPA 80080/4CFEDIN2	5.50	13.20	47.20		152.167	35.00	14.00	44.00	6,8
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	SBNHH-1D65B	11.85	7.09	72.87		151.667	41.00	10.00	44.00	11,10
Ant <sub>2b</sub>	SBNHH-1D65B	11.85	7.09	72.87		151.667	41.00	10.00	44.00	10,11
Ant <sub>2c</sub>	B13 RRH 4x30	12.00	9.00	21.60		152.583	30.00			13
Ant <sub>3a</sub>	LPA 80080/4CFEDIN2	5.50	13.20	47.20		150.667	53.00	14.00	44.00	4,5
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										



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

Mount Azimuth (Degree) for Each Sector				Tower Leg Azimuth (Degree) for Each Sector				Sector B											
Sector A:	44.00	Deg	Leg A:	30.00	Deg	Ant <sub>1a</sub>	B4 RRH2x60-4R	10.63	5.75	36.61		152.667	29.00				209		
Sector B:	166.00	Deg	Leg B:	150.00	Deg	Ant <sub>1b</sub>	LPA 80063/4CF-EDIN3	15.20	13.20	47.44		152.167	35.00	14.00	166.00		210		
Sector C:	280.00	Deg	Leg C:	270.00	Deg	Ant <sub>2a</sub>	SBNHH-1D65B	11.85	7.09	72.87		151.667	41.00	10.00	166.00		228		
Sector D:		Deg	Leg D:		Deg	Ant <sub>2b</sub>	SBNHH-1D65B	11.85	7.09	72.87		151.667	41.00	10.00	166.00		228		
<b>Climbing Facility Information</b>																			
Location:	90.00	Deg	On Leg C																
Climbing Facility	Corrosion Type:	Good condition.			Ant <sub>3a</sub>	LPA 80063/4CF-EDIN3	15.20	13.20	47.44	150.667	53.00	14.00	166.00						
	Access:	Climbing path was unobstructed.			Ant <sub>3b</sub>														
	Condition:				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	RCMDC-6627-PF-48	21.00	18.00	35.00									214		
				Ant on Standoff															
				Ant on Tower															
				Ant on Tower															
<b>Sector C</b>																			
Ant <sub>1a</sub>	RRUS 12 B4	18.50	7.50	20.40	152.667	29.00											6,7		
Ant <sub>1b</sub>	LPA 80080/4CFEDIN2	5.50	13.20	47.20	152.167	35.00	14.00	280.00									6,8		
Ant <sub>1c</sub>																			
Ant <sub>2a</sub>	SBNHH-1D65B	11.85	7.09	72.87	151.667	41.00	10.00	280.00									11,10		
Ant <sub>2b</sub>	SBNHH-1D65B	11.85	7.09	72.87	151.667	41.00	10.00	280.00									10,11		
Ant <sub>2c</sub>	B13 RRH 4x30	12.00	9.00	21.60	152.583	30.00											13		
Ant <sub>3a</sub>	LPA 80080/4CFEDIN2	5.50	13.20	47.20	150.667	53.00	14.00	280.00									4,5		
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																			
<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)

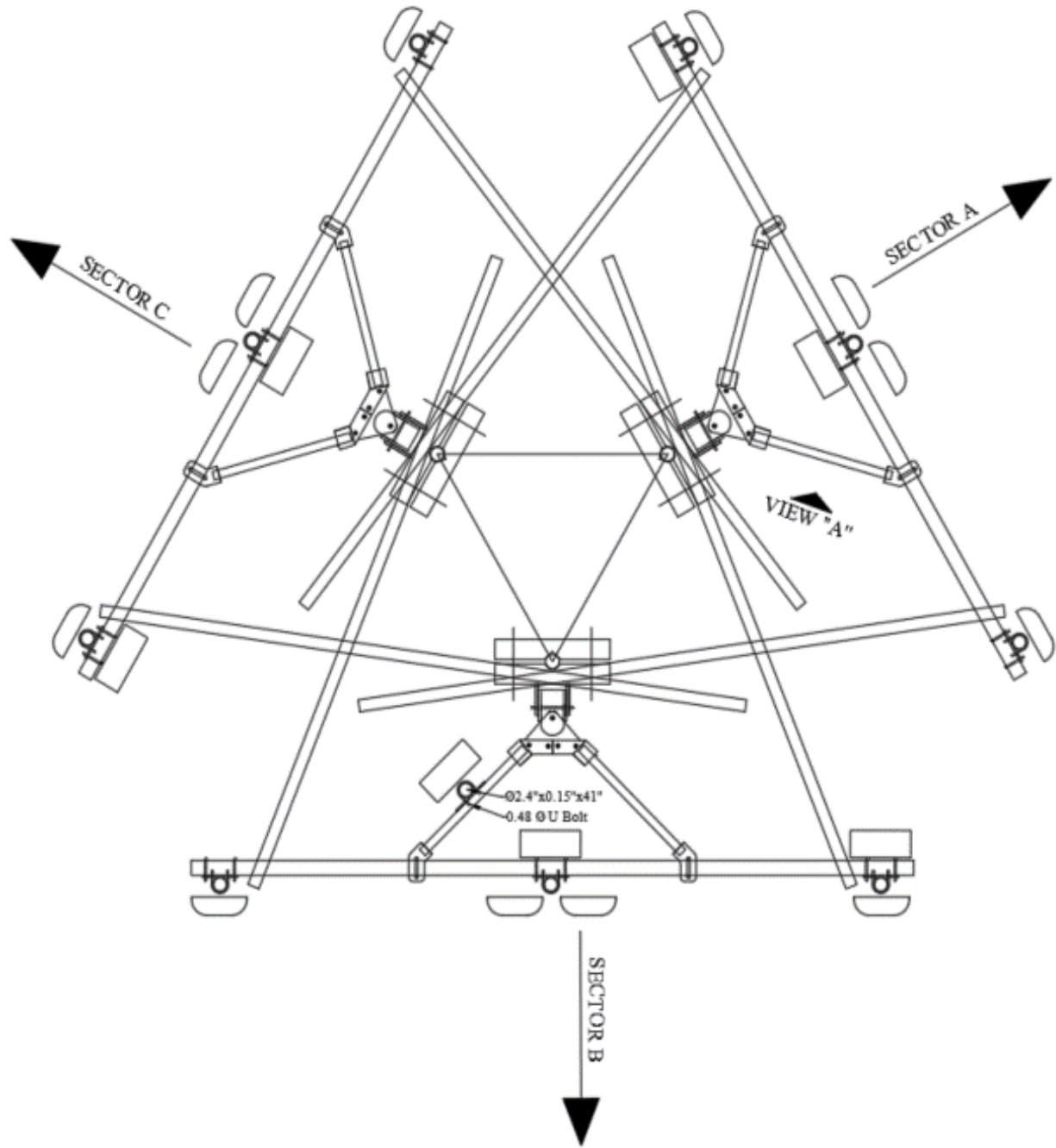


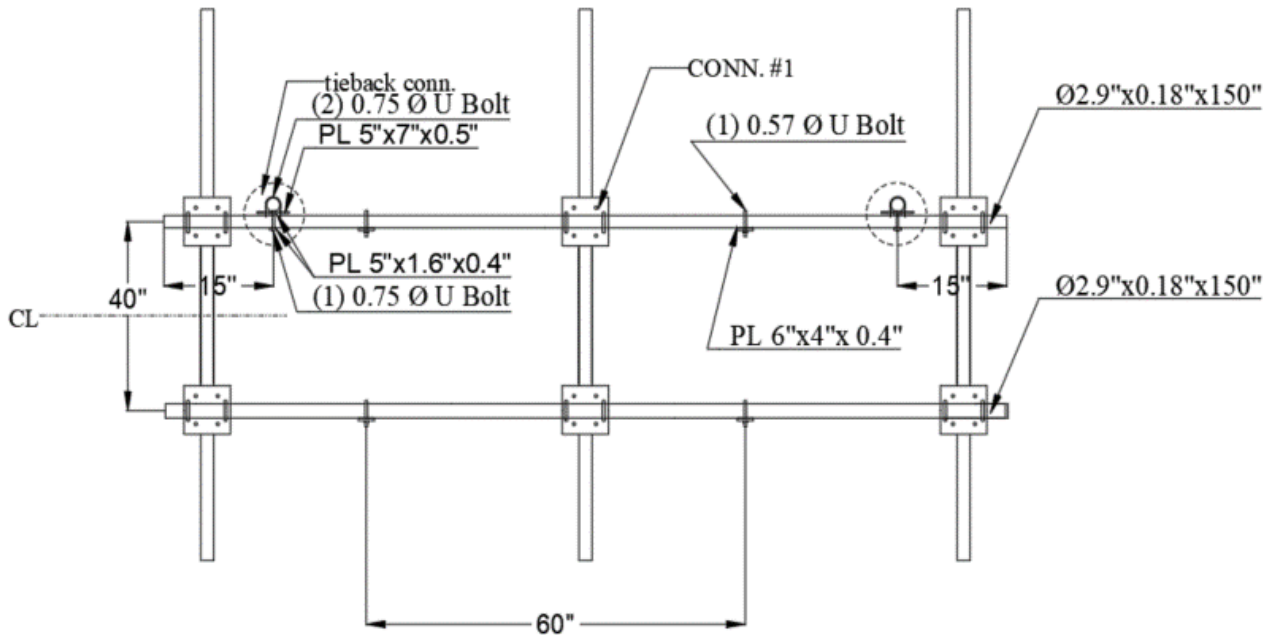
<b>Tower Owner:</b>	Other	<b>Mapping Date:</b>	4/6/2021
<b>Site Name:</b>	STAFFORD 3 CT	<b>Tower Type:</b>	Self Support
<b>Site Number or ID:</b>	PSLC467846	<b>Tower Height (FT):</b>	N/A
<b>Mapping Contractor:</b>	Roaming Networks Inc.	<b>Mount Elevation (FT):</b>	152

FCC #  
1248715

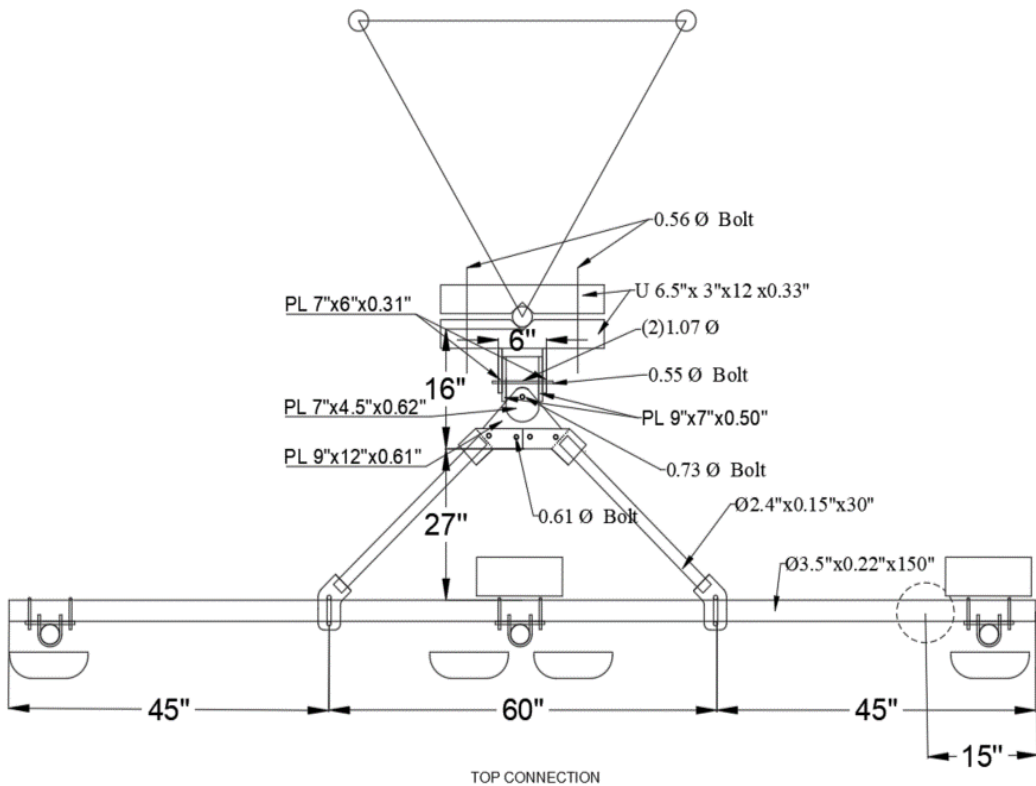
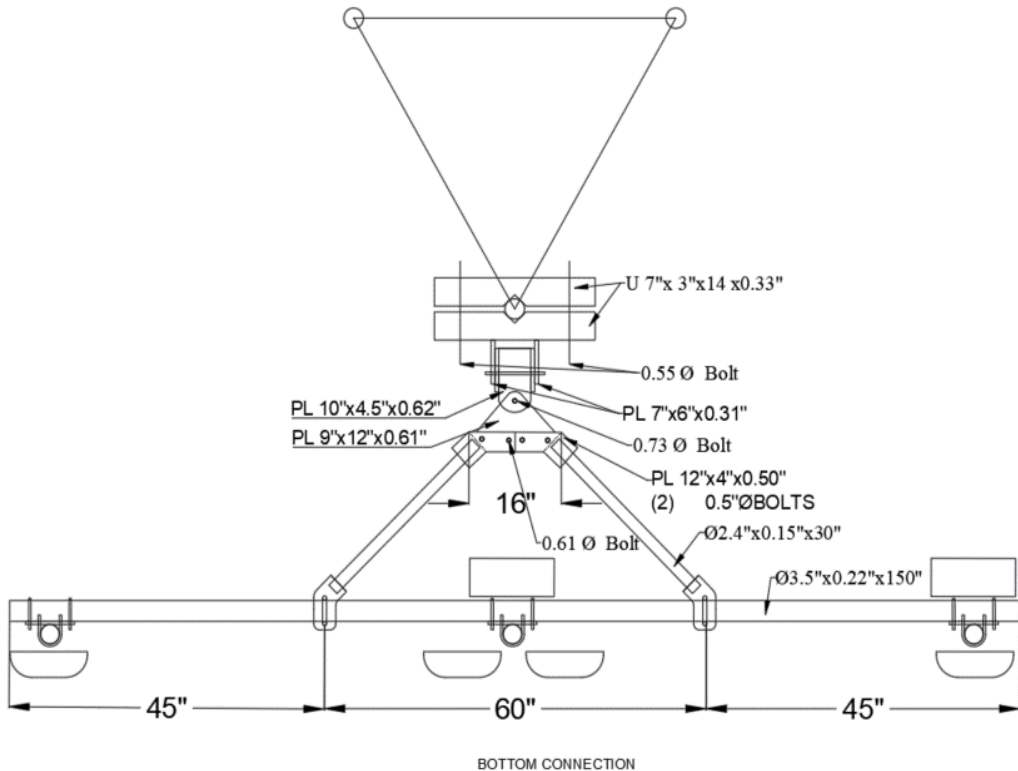
This antenna mapping form is the property of TES and under **PATENT PENDING**. The formation contained herein is considered confidential in nature and is to be used only for the specific customer it was intended for. Reproduction, transmission, publication, modification or disclosure by any method is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

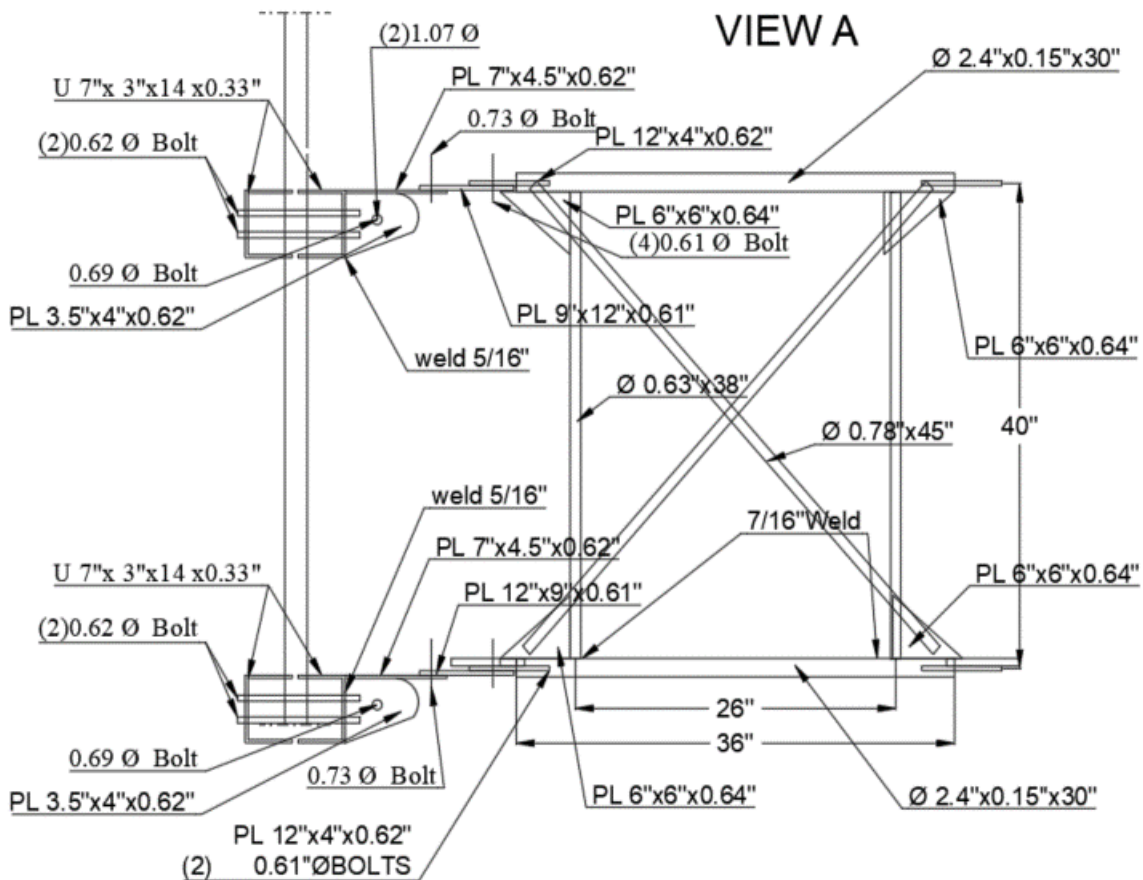
#### Please Insert Sketches of the Antenna Mount



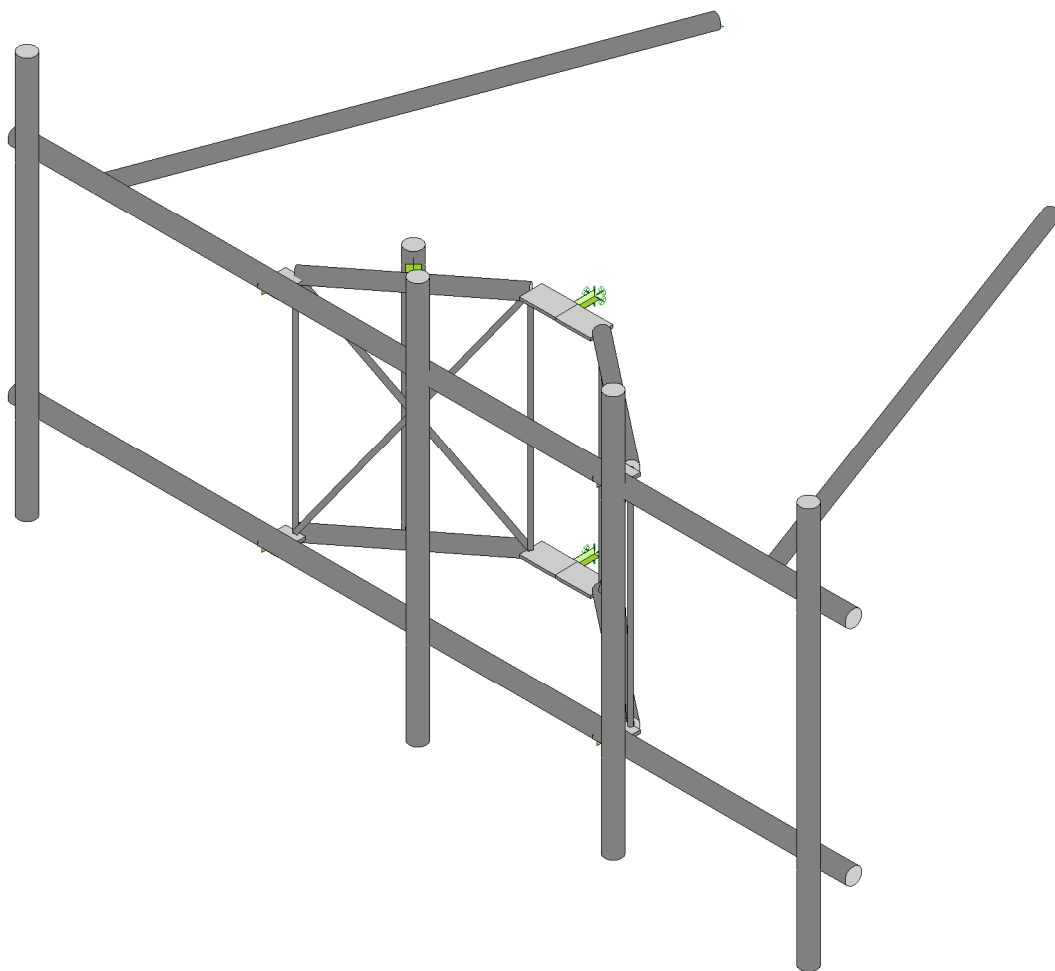


Please Insert Sketches of the Antenna Mount, cont'd









Envelope Only Solution

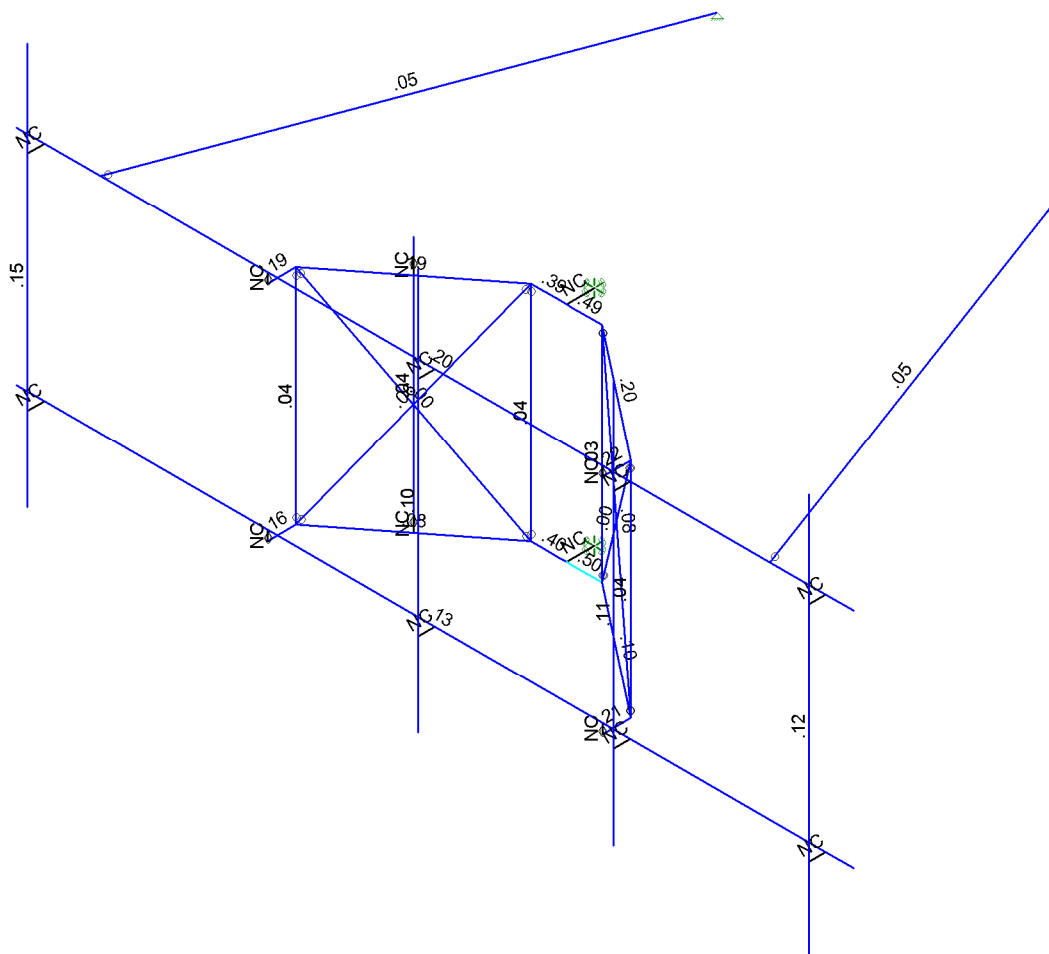

SK - 1

Sept 7, 2021 at 3:34 PM

467846-VZW\_MT\_LOT\_B\_H.r3d



Code Check (Env)
No Calc
> 1.0
90-99
75-90
50-75
0-50

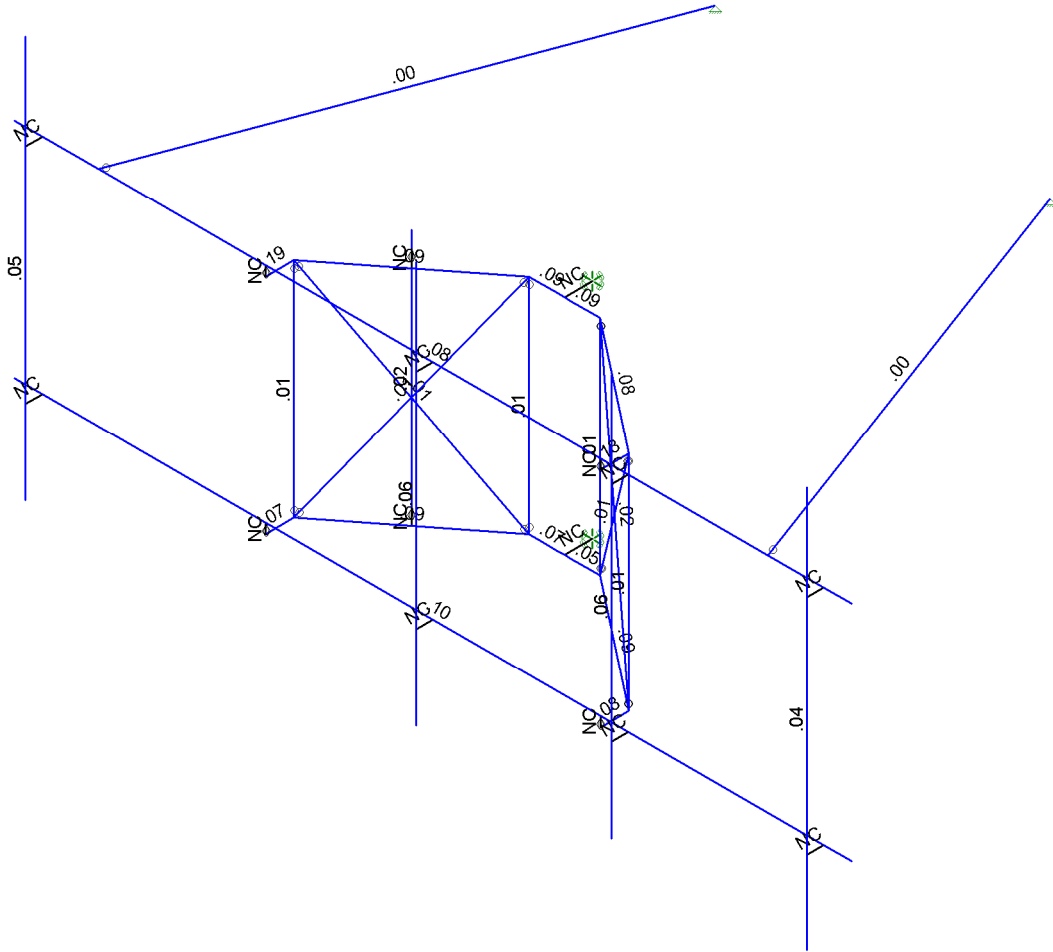


Member Code Checks Displayed (Enveloped)  
Envelope Only Solution

		SK - 2
		Sept 7, 2021 at 3:34 PM
		467846-VZW_MT_LOT_B_H.r3d



Shear Check (Env)  
 ■ No Calc  
 ■ > 1.0  
 ■ 80-90  
 ■ 75-80  
 ■ 50-75  
 ■ 0-50



Member Shear Checks Displayed (Enveloped)  
 Envelope Only Solution

	SK - 3
	Sept 7, 2021 at 3:34 PM
	467846-VZW_MT_LOT_B_H.r3d



Company :  
 Designer :  
 Job Number :  
 Model Name :

Sept 7, 2021  
 3:35 PM  
 Checked By: \_\_\_\_\_

**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me... Surface(...
1	Antenna D	None					39	
2	Antenna Di	None					39	
3	Antenna Wo (0 Deg)	None					39	
4	Antenna Wo (30 Deg)	None					39	
5	Antenna Wo (60 Deg)	None					39	
6	Antenna Wo (90 Deg)	None					39	
7	Antenna Wo (120 Deg)	None					39	
8	Antenna Wo (150 Deg)	None					39	
9	Antenna Wo (180 Deg)	None					39	
10	Antenna Wo (210 Deg)	None					39	
11	Antenna Wo (240 Deg)	None					39	
12	Antenna Wo (270 Deg)	None					39	
13	Antenna Wo (300 Deg)	None					39	
14	Antenna Wo (330 Deg)	None					39	
15	Antenna Wi (0 Deg)	None					39	
16	Antenna Wi (30 Deg)	None					39	
17	Antenna Wi (60 Deg)	None					39	
18	Antenna Wi (90 Deg)	None					39	
19	Antenna Wi (120 Deg)	None					39	
20	Antenna Wi (150 Deg)	None					39	
21	Antenna Wi (180 Deg)	None					39	
22	Antenna Wi (210 Deg)	None					39	
23	Antenna Wi (240 Deg)	None					39	
24	Antenna Wi (270 Deg)	None					39	
25	Antenna Wi (300 Deg)	None					39	
26	Antenna Wi (330 Deg)	None					39	
27	Antenna Wm (0 Deg)	None					39	
28	Antenna Wm (30 Deg)	None					39	
29	Antenna Wm (60 Deg)	None					39	
30	Antenna Wm (90 Deg)	None					39	
31	Antenna Wm (120 Deg)	None					39	
32	Antenna Wm (150 Deg)	None					39	
33	Antenna Wm (180 Deg)	None					39	
34	Antenna Wm (210 Deg)	None					39	
35	Antenna Wm (240 Deg)	None					39	
36	Antenna Wm (270 Deg)	None					39	
37	Antenna Wm (300 Deg)	None					39	
38	Antenna Wm (330 Deg)	None					39	
39	Structure D	None		-1				
40	Structure Di	None						29
41	Structure Wo (0 Deg)	None						58
42	Structure Wo (30 Deg)	None						58
43	Structure Wo (60 Deg)	None						58
44	Structure Wo (90 Deg)	None						58
45	Structure Wo (120 Deg)	None						58
46	Structure Wo (150 Deg)	None						58
47	Structure Wo (180 Deg)	None						58
48	Structure Wo (210 Deg)	None						58
49	Structure Wo (240 Deg)	None						58
50	Structure Wo (270 Deg)	None						58
51	Structure Wo (300 Deg)	None						58
52	Structure Wo (330 Deg)	None						58
53	Structure Wi (0 Deg)	None						58



Company :  
 Designer :  
 Job Number :  
 Model Name :

Sept 7, 2021  
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 Checked By: \_\_\_\_\_

**Basic Load Cases (Continued)**

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

**Load Combinations**

	Description	Sol..P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	
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 Deg)	Yes	Y	1	1.2	39	1.2	7	1	45	1				
6	1.2D+1.0Wo (150 Deg)	Yes	Y	1	1.2	39	1.2	8	1	46	1				
7	1.2D+1.0Wo (180 Deg)	Yes	Y	1	1.2	39	1.2	9	1	47	1				
8	1.2D+1.0Wo (210 Deg)	Yes	Y	1	1.2	39	1.2	10	1	48	1				
9	1.2D+1.0Wo (240 Deg)	Yes	Y	1	1.2	39	1.2	11	1	49	1				
10	1.2D+1.0Wo (270 Deg)	Yes	Y	1	1.2	39	1.2	12	1	50	1				
11	1.2D+1.0Wo (300 Deg)	Yes	Y	1	1.2	39	1.2	13	1	51	1				
12	1.2D+1.0Wo (330 Deg)	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
18	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	20	1	58	1
19	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	21	1	59	1
20	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	22	1	60	1
21	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	23	1	61	1
22	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	24	1	62	1
23	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	25	1	63	1
24	1.2D + 1.0Di + 1.0Wi (...)	Yes	Y	1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	27	1	65	1		



Company :  
 Designer :  
 Job Number :  
 Model Name :

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**Load Combinations (Continued)**

	Description	Sol..P...	S...	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..	BLCFac..
26	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	28	1	66	1	
27	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	29	1	67	1	
28	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	30	1	68	1	
29	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	31	1	69	1	
30	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	32	1	70	1	
31	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	33	1	71	1	
32	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	34	1	72	1	
33	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	35	1	73	1	
34	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	36	1	74	1	
35	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	37	1	75	1	
36	1.2D + 1.5Lm1 + 1.0W...	Yes	Y	1	1.2	39	1.2	77	1.5	38	1	76	1	
37	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	27	1	65	1	
38	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	28	1	66	1	
39	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	29	1	67	1	
40	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	30	1	68	1	
41	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	31	1	69	1	
42	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	32	1	70	1	
43	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	33	1	71	1	
44	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	34	1	72	1	
45	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	35	1	73	1	
46	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	36	1	74	1	
47	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	37	1	75	1	
48	1.2D + 1.5Lm2 + 1.0W...	Yes	Y	1	1.2	39	1.2	78	1.5	38	1	76	1	
49	1.2D + 1.5Lv1	Yes	Y	1	1.2	39	1.2	79	1.5					
50	1.2D + 1.5Lv2	Yes	Y	1	1.2	39	1.2	80	1.5					
51	1.4D	Yes	Y	1	1.4	39	1.4							
52	Seismic Mass		Y	1	1	39	1							
53	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX		SY	1	SZ	-1	
54	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	-.866	
55	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	-.5	
56	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	1	SY	1	SZ		
57	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.866	SY	1	SZ	.5	
58	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	.5	SY	1	SZ	.866	
59	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX		SY	1	SZ	1	
60	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	.866	
61	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	.5	
62	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-1	SY	1	SZ		
63	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.866	SY	1	SZ	-.5	
64	1.2D + 1.0Ev + 1.0Eh (...)	Y		1	1.2	39	1.2	SX	-.5	SY	1	SZ	-.866	

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	3.416667	0.145833	8.083333	0	
2	N2	-9.083333	0.145833	8.083333	0	
3	N3	3.416667	3.479167	8.083333	0	
4	N4	-9.083333	3.479167	8.083333	0	
5	N5	-8.666667	0.145833	8.083333	0	
6	N6	-8.666667	3.479167	8.083333	0	
7	N7	-2.833333	0.145833	8.083333	0	
8	N8	-2.833333	3.479167	8.083333	0	
9	N9	0.083333	0.145833	8.083333	0	
10	N10	0.083333	3.479167	8.083333	0	
11	N11	3	0.145833	8.083333	0	
12	N12	3	3.479167	8.083333	0	
13	N13	-8.666667	0.145833	8.333333	0	



Company :  
 Designer :  
 Job Number :  
 Model Name :

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 Checked By: \_\_\_\_\_

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
14	N14	-8.666667	3.479167	8.333333	0	
15	N15	-2.833333	0.145833	8.333333	0	
16	N16	-2.833333	3.479167	8.333333	0	
17	N17	0.083333	0.145833	8.333333	0	
18	N18	0.083333	3.479167	8.333333	0	
19	N19	3	0.145833	8.333333	0	
20	N20	3	3.479167	8.333333	0	
21	N21	-5.333333	0	8.083333	0	
22	N22	-5.333333	3.333333	8.083333	0	
23	N23	-0.333333	0	8.083333	0	
24	N24	-0.333333	3.333333	8.083333	0	
25	N25	-5.333333	0	7.661458	0	
26	N26	-5.333333	3.333333	7.661458	0	
27	N27	-0.333333	0	7.661458	0	
28	N28	-0.333333	3.333333	7.661458	0	
29	N29	-2.833333	0	6.119792	0	
30	N30	-2.833333	3.333333	6.119792	0	
31	N31	-3.364583	0	6.119792	0	
32	N32	-3.364583	3.333333	6.119792	0	
33	N33	-2.302083	0	6.119792	0	
34	N34	-2.302083	3.333333	6.119792	0	
35	N35	-2.833333	0	5.703125	0	
36	N36	-2.833333	3.333333	5.703125	0	
37	N39	-8.666667	4.895833	8.333333	0	
38	N40	-2.833333	4.895833	8.333333	0	
39	N41	0.083333	4.895833	8.333333	0	
40	N42	3	4.895833	8.333333	0	
41	N43	-8.666667	-1.104167	8.333333	0	
42	N44	-2.833333	-1.104167	8.333333	0	
43	N45	0.083333	-1.104167	8.333333	0	
44	N46	3	-1.104167	8.333333	0	
45	N58	-5.333333	3.333333	7.708333	0	
46	N76	-2.927083	0	6.119792	0	
47	N77	-3.229167	0	6.119792	0	
48	N78	-2.739583	0	6.119792	0	
49	N79	-2.4375	0	6.119792	0	
50	N80	-2.927083	3.333333	6.119792	0	
51	N81	-3.229167	3.333333	6.119792	0	
52	N82	-2.739583	3.333333	6.119792	0	
53	N83	-2.4375	3.333333	6.119792	0	
54	N59	-5.333333	0.145833	8.083333	0	
55	N60	-5.333333	3.479167	8.083333	0	
56	N61	-0.333333	0.145833	8.083333	0	
57	N62	-0.333333	3.479167	8.083333	0	
58	N59A	-7.833333	3.479167	8.083333	0	
59	N60A	2.166667	3.479167	8.083333	0	
60	N63	-0.333333	3.479167	1.372998	0	
61	N64	-5.333333	3.479167	1.372998	0	
62	N74A	-4.348958	3.333333	6.890625	0	
63	N75	-4.348958	0	6.890625	0	
64	N78A	-4.598958	0	6.640625	0	
65	N79A	-4.598958	3.333333	6.640625	0	
66	N80A	-4.598958	3.583333	6.640625	0	
67	N81A	-4.598958	-.25	6.640625	0	

### Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
2	Face Horizontal	PIPE 2.5	Beam	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
3	Standoff Horizontal	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
4	Standoff Diagonal	SR 0.75	Beam	BAR	A36 Gr.36	Typical	.442	.016	.016	.031
5	Tieback	PIPE 2.0	Beam	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
6	Standoff Vertical	SR 0.625	Beam	BAR	A36 Gr.36	Typical	.307	.007	.007	.015
7	Standoff Plate	PL5/8x3.5	Beam	BAR	A36 Gr.36	Typical	2.188	.071	2.233	.253
8	Back Plates	PL1/2X4	Beam	BAR	A36 Gr.36	Typical	2	.042	2.667	.154

### Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (/...	Density[k/ft^3]	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
7	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

### Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
1	M1	N2	N1			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
2	M2	N4	N3			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M3	N5	N13			RIGID	None	None	RIGID	Typical
4	M4	N6	N14			RIGID	None	None	RIGID	Typical
5	M5	N8	N16			RIGID	None	None	RIGID	Typical
6	M6	N7	N15			RIGID	None	None	RIGID	Typical
7	M9	N10	N18			RIGID	None	None	RIGID	Typical
8	M10	N9	N17			RIGID	None	None	RIGID	Typical
9	M11	N12	N20			RIGID	None	None	RIGID	Typical
10	M12	N11	N19			RIGID	None	None	RIGID	Typical
11	M13	N22	N26		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
12	M14	N21	N25		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
13	M15	N23	N27		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
14	M16	N24	N28		90	Standoff Plate	Beam	BAR	A36 Gr.36	Typical
15	M17	N26	N32			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
16	M18	N25	N31			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
17	M19	N27	N33			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
18	M20	N28	N34			Standoff Horizontal	Beam	Pipe	A53 Gr. B	Typical
19	M21	N32	N30		90	Back Plates	Beam	BAR	A36 Gr.36	Typical
20	M22	N34	N30		90	Back Plates	Beam	BAR	A36 Gr.36	Typical
21	M23	N31	N29		90	Back Plates	Beam	BAR	A36 Gr.36	Typical
22	M24	N33	N29		90	Back Plates	Beam	BAR	A36 Gr.36	Typical
23	M25	N31	N26			Standoff Diagonal	Beam	BAR	A36 Gr.36	Typical
24	M26	N32	N25			Standoff Diagonal	Beam	BAR	A36 Gr.36	Typical
25	M27	N33	N28			Standoff Diagonal	Beam	BAR	A36 Gr.36	Typical
26	M28	N27	N34			Standoff Diagonal	Beam	BAR	A36 Gr.36	Typical
27	M29	N29	N35			RIGID	None	None	RIGID	Typical
28	M30	N30	N36			RIGID	None	None	RIGID	Typical
29	MP4A	N39	N43			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
30	MP3A	N40	N44			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
31	MP2A	N41	N45			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical
32	MP1A	N42	N46			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical





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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Rul...
33	M44	N25	N26			Standoff Vertical	Beam	BAR	A36 Gr.36	Typical
34	M45	N31	N32			Standoff Vertical	Beam	BAR	A36 Gr.36	Typical
35	M46	N33	N34			Standoff Vertical	Beam	BAR	A36 Gr.36	Typical
36	M47	N27	N28			Standoff Vertical	Beam	BAR	A36 Gr.36	Typical
37	M47B	N22	N60			RIGID	None	None	RIGID	Typical
38	M48A	N21	N59			RIGID	None	None	RIGID	Typical
39	M49A	N24	N62			RIGID	None	None	RIGID	Typical
40	M50A	N23	N61			RIGID	None	None	RIGID	Typical
41	M51A	N30	N36			RIGID	None	None	RIGID	Typical
42	M52A	N29	N35			RIGID	None	None	RIGID	Typical
43	M43	N59A	N64			Tieback	Beam	Pipe	A53 Gr. B	Typical
44	M44A	N60A	N63			Tieback	Beam	Pipe	A53 Gr. B	Typical
45	M51	N75	N78A			RIGID	None	None	RIGID	Typical
46	M52	N74A	N79A			RIGID	None	None	RIGID	Typical
47	M53	N80A	N81A			Antenna Pipe	Beam	Pipe	A53 Gr. B	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes				None
2	M2						Yes				None
3	M3						Yes	** NA **			None
4	M4						Yes	** NA **			None
5	M5						Yes	** NA **			None
6	M6						Yes	** NA **			None
7	M9						Yes	** NA **			None
8	M10						Yes	** NA **			None
9	M11						Yes	** NA **			None
10	M12						Yes	** NA **			None
11	M13						Yes	Default			None
12	M14						Yes	Default			None
13	M15						Yes				None
14	M16						Yes				None
15	M17						Yes	Default			None
16	M18						Yes				None
17	M19						Yes				None
18	M20						Yes	Default			None
19	M21						Yes	Default			None
20	M22						Yes				None
21	M23						Yes				None
22	M24						Yes				None
23	M25	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
24	M26	BenPIN	BenPIN			Euler Buc...	Yes	Default			None
25	M27	BenPIN	BenPIN			Euler Buc...	Yes				None
26	M28	BenPIN	BenPIN			Euler Buc...	Yes				None
27	M29						Yes	** NA **		Inactive	None
28	M30						Yes	** NA **		Inactive	None
29	MP4A						Yes				None
30	MP3A						Yes				None
31	MP2A						Yes				None
32	MP1A						Yes				None
33	M44	BenPIN	BenPIN				Yes				None
34	M45	BenPIN	BenPIN				Yes				None
35	M46	BenPIN	BenPIN				Yes				None
36	M47	BenPIN	BenPIN				Yes	Default			None
37	M47B		OOOXOO				Yes	** NA **			None



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**Member Advanced Data (Continued)**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
38	M48A		OOOXOO				Yes	** NA **			None
39	M49A		OOOXOO				Yes	** NA **			None
40	M50A		OOOXOO				Yes	** NA **			None
41	M51A						Yes	** NA **			None
42	M52A						Yes	** NA **			None
43	M43	BenPIN					Yes	Default			None
44	M44A	BenPIN					Yes	Default			None
45	M51		OOOXOO				Yes	** NA **			None
46	M52		OOOXOO				Yes	** NA **			None
47	M53						Yes				None

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-43.55	1.25
2	MP2A	My	-.022	1.25
3	MP2A	Mz	0	1.25
4	MP2A	Y	-43.55	2.75
5	MP2A	My	-.022	2.75
6	MP2A	Mz	0	2.75
7	MP3A	Y	-74.7	2.5
8	MP3A	My	.037	2.5
9	MP3A	Mz	0	2.5
10	MP1A	Y	-70.3	2.5
11	MP1A	My	.035	2.5
12	MP1A	Mz	0	2.5
13	MP3A	Y	-20	.25
14	MP3A	My	.018	.25
15	MP3A	Mz	.009	.25
16	MP3A	Y	-20	3.75
17	MP3A	My	.018	3.75
18	MP3A	Mz	.009	3.75
19	MP3A	Y	-20	.25
20	MP3A	My	-.002	.25
21	MP3A	Mz	.02	.25
22	MP3A	Y	-20	3.75
23	MP3A	My	-.002	3.75
24	MP3A	Mz	.02	3.75
25	MP1A	Y	-10	.25
26	MP1A	My	-.012	.25
27	MP1A	Mz	0	.25
28	MP1A	Y	-10	3.75
29	MP1A	My	-.012	3.75
30	MP1A	Mz	0	3.75
31	MP4A	Y	-10	.25
32	MP4A	My	-.012	.25
33	MP4A	Mz	0	.25
34	MP4A	Y	-10	3.75
35	MP4A	My	-.012	3.75
36	MP4A	Mz	0	3.75
37	M53	Y	-32	2
38	M53	My	.008	2
39	M53	Mz	.014	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 2 : Antenna Di) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	Y	-57.04	1.25
2	MP2A	My	-.029	1.25
3	MP2A	Mz	0	1.25
4	MP2A	Y	-57.04	2.75
5	MP2A	My	-.029	2.75
6	MP2A	Mz	0	2.75
7	MP3A	Y	-72.511	2.5
8	MP3A	My	.036	2.5
9	MP3A	Mz	0	2.5
10	MP1A	Y	-69.178	2.5
11	MP1A	My	.035	2.5
12	MP1A	Mz	0	2.5
13	MP3A	Y	-97.358	.25
14	MP3A	My	.09	.25
15	MP3A	Mz	.042	.25
16	MP3A	Y	-97.358	3.75
17	MP3A	My	.09	3.75
18	MP3A	Mz	.042	3.75
19	MP3A	Y	-97.358	.25
20	MP3A	My	-.009	.25
21	MP3A	Mz	.099	.25
22	MP3A	Y	-97.358	3.75
23	MP3A	My	-.009	3.75
24	MP3A	Mz	.099	3.75
25	MP1A	Y	-99.597	.25
26	MP1A	My	-.116	.25
27	MP1A	Mz	0	.25
28	MP1A	Y	-99.597	3.75
29	MP1A	My	-.116	3.75
30	MP1A	Mz	0	3.75
31	MP4A	Y	-99.597	.25
32	MP4A	My	-.116	.25
33	MP4A	Mz	0	.25
34	MP4A	Y	-99.597	3.75
35	MP4A	My	-.116	3.75
36	MP4A	Mz	0	3.75
37	M53	Y	-139.514	2
38	M53	My	.035	2
39	M53	Mz	.06	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	0	1.25
2	MP2A	Z	-75.625	1.25
3	MP2A	Mx	0	1.25
4	MP2A	X	0	2.75
5	MP2A	Z	-75.625	2.75
6	MP2A	Mx	0	2.75
7	MP3A	X	0	2.5
8	MP3A	Z	-60.178	2.5
9	MP3A	Mx	0	2.5
10	MP1A	X	0	2.5
11	MP1A	Z	-60.178	2.5
12	MP1A	Mx	0	2.5
13	MP3A	X	0	.25
14	MP3A	Z	-97.946	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	-.042	.25
16	MP3A	X	0	3.75
17	MP3A	Z	-97.946	3.75
18	MP3A	Mx	-.042	3.75
19	MP3A	X	0	.25
20	MP3A	Z	-97.946	.25
21	MP3A	Mx	-.099	.25
22	MP3A	X	0	3.75
23	MP3A	Z	-97.946	3.75
24	MP3A	Mx	-.099	3.75
25	MP1A	X	0	.25
26	MP1A	Z	-98.956	.25
27	MP1A	Mx	0	.25
28	MP1A	X	0	3.75
29	MP1A	Z	-98.956	3.75
30	MP1A	Mx	0	3.75
31	MP4A	X	0	.25
32	MP4A	Z	-98.956	.25
33	MP4A	Mx	0	.25
34	MP4A	X	0	3.75
35	MP4A	Z	-98.956	3.75
36	MP4A	Mx	0	3.75
37	M53	X	0	2
38	M53	Z	-107.424	2
39	M53	Mx	-.047	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	32.06	1.25
2	MP2A	Z	-55.53	1.25
3	MP2A	Mx	-.016	1.25
4	MP2A	X	32.06	2.75
5	MP2A	Z	-55.53	2.75
6	MP2A	Mx	-.016	2.75
7	MP3A	X	27.595	2.5
8	MP3A	Z	-47.796	2.5
9	MP3A	Mx	.014	2.5
10	MP1A	X	27.143	2.5
11	MP1A	Z	-47.012	2.5
12	MP1A	Mx	.014	2.5
13	MP3A	X	60.09	.25
14	MP3A	Z	-104.08	.25
15	MP3A	Mx	.011	.25
16	MP3A	X	60.09	3.75
17	MP3A	Z	-104.08	3.75
18	MP3A	Mx	.011	3.75
19	MP3A	X	60.09	.25
20	MP3A	Z	-104.08	.25
21	MP3A	Mx	-.111	.25
22	MP3A	X	60.09	3.75
23	MP3A	Z	-104.08	3.75
24	MP3A	Mx	-.111	3.75
25	MP1A	X	48.019	.25
26	MP1A	Z	-83.172	.25
27	MP1A	Mx	-.056	.25
28	MP1A	X	48.019	3.75

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP1A	Z	-83.172	3.75
30	MP1A	Mx	-.056	3.75
31	MP4A	X	48.019	.25
32	MP4A	Z	-83.172	.25
33	MP4A	Mx	-.056	.25
34	MP4A	X	48.019	3.75
35	MP4A	Z	-83.172	3.75
36	MP4A	Mx	-.056	3.75
37	M53	X	61.456	2
38	M53	Z	-106.444	2
39	M53	Mx	-.031	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	35.604	1.25
2	MP2A	Z	-20.556	1.25
3	MP2A	Mx	-.018	1.25
4	MP2A	X	35.604	2.75
5	MP2A	Z	-20.556	2.75
6	MP2A	Mx	-.018	2.75
7	MP3A	X	39.157	2.5
8	MP3A	Z	-22.607	2.5
9	MP3A	Mx	.02	2.5
10	MP1A	X	36.805	2.5
11	MP1A	Z	-21.249	2.5
12	MP1A	Mx	.018	2.5
13	MP3A	X	113.708	.25
14	MP3A	Z	-65.649	.25
15	MP3A	Mx	.077	.25
16	MP3A	X	113.708	3.75
17	MP3A	Z	-65.649	3.75
18	MP3A	Mx	.077	3.75
19	MP3A	X	113.708	.25
20	MP3A	Z	-65.649	.25
21	MP3A	Mx	-.077	.25
22	MP3A	X	113.708	3.75
23	MP3A	Z	-65.649	3.75
24	MP3A	Mx	-.077	3.75
25	MP1A	X	78.118	.25
26	MP1A	Z	-45.102	.25
27	MP1A	Mx	-.091	.25
28	MP1A	X	78.118	3.75
29	MP1A	Z	-45.102	3.75
30	MP1A	Mx	-.091	3.75
31	MP4A	X	78.118	.25
32	MP4A	Z	-45.102	.25
33	MP4A	Mx	-.091	.25
34	MP4A	X	78.118	3.75
35	MP4A	Z	-45.102	3.75
36	MP4A	Mx	-.091	3.75
37	M53	X	113.15	2
38	M53	Z	-65.327	2
39	M53	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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**Member Point Loads (BLC 6 : Antenna Wo (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	29.607	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	-.015	1.25
4	MP2A	X	29.607	2.75
5	MP2A	Z	0	2.75
6	MP2A	Mx	-.015	2.75
7	MP3A	X	40.226	2.5
8	MP3A	Z	0	2.5
9	MP3A	Mx	.02	2.5
10	MP1A	X	36.606	2.5
11	MP1A	Z	0	2.5
12	MP1A	Mx	.018	2.5
13	MP3A	X	120.181	.25
14	MP3A	Z	0	.25
15	MP3A	Mx	.111	.25
16	MP3A	X	120.181	3.75
17	MP3A	Z	0	3.75
18	MP3A	Mx	.111	3.75
19	MP3A	X	120.181	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.011	.25
22	MP3A	X	120.181	3.75
23	MP3A	Z	0	3.75
24	MP3A	Mx	-.011	3.75
25	MP1A	X	87.285	.25
26	MP1A	Z	0	.25
27	MP1A	Mx	-.102	.25
28	MP1A	X	87.285	3.75
29	MP1A	Z	0	3.75
30	MP1A	Mx	-.102	3.75
31	MP4A	X	87.285	.25
32	MP4A	Z	0	.25
33	MP4A	Mx	-.102	.25
34	MP4A	X	87.285	3.75
35	MP4A	Z	0	3.75
36	MP4A	Mx	-.102	3.75
37	M53	X	122.911	2
38	M53	Z	0	2
39	M53	Mx	.031	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	35.604	1.25
2	MP2A	Z	20.556	1.25
3	MP2A	Mx	-.018	1.25
4	MP2A	X	35.604	2.75
5	MP2A	Z	20.556	2.75
6	MP2A	Mx	-.018	2.75
7	MP3A	X	39.157	2.5
8	MP3A	Z	22.607	2.5
9	MP3A	Mx	.02	2.5
10	MP1A	X	36.805	2.5
11	MP1A	Z	21.249	2.5
12	MP1A	Mx	.018	2.5
13	MP3A	X	84.824	.25
14	MP3A	Z	48.973	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	.099	.25
16	MP3A	X	84.824	3.75
17	MP3A	Z	48.973	3.75
18	MP3A	Mx	.099	3.75
19	MP3A	X	84.824	.25
20	MP3A	Z	48.973	.25
21	MP3A	Mx	.042	.25
22	MP3A	X	84.824	3.75
23	MP3A	Z	48.973	3.75
24	MP3A	Mx	.042	3.75
25	MP1A	X	78.118	.25
26	MP1A	Z	45.102	.25
27	MP1A	Mx	-.091	.25
28	MP1A	X	78.118	3.75
29	MP1A	Z	45.102	3.75
30	MP1A	Mx	-.091	3.75
31	MP4A	X	78.118	.25
32	MP4A	Z	45.102	.25
33	MP4A	Mx	-.091	.25
34	MP4A	X	78.118	3.75
35	MP4A	Z	45.102	3.75
36	MP4A	Mx	-.091	3.75
37	M53	X	93.032	2
38	M53	Z	53.712	2
39	M53	Mx	.047	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	32.06	1.25
2	MP2A	Z	55.53	1.25
3	MP2A	Mx	-.016	1.25
4	MP2A	X	32.06	2.75
5	MP2A	Z	55.53	2.75
6	MP2A	Mx	-.016	2.75
7	MP3A	X	27.595	2.5
8	MP3A	Z	47.796	2.5
9	MP3A	Mx	.014	2.5
10	MP1A	X	27.143	2.5
11	MP1A	Z	47.012	2.5
12	MP1A	Mx	.014	2.5
13	MP3A	X	43.414	.25
14	MP3A	Z	75.196	.25
15	MP3A	Mx	.072	.25
16	MP3A	X	43.414	3.75
17	MP3A	Z	75.196	3.75
18	MP3A	Mx	.072	3.75
19	MP3A	X	43.414	.25
20	MP3A	Z	75.196	.25
21	MP3A	Mx	.072	.25
22	MP3A	X	43.414	3.75
23	MP3A	Z	75.196	3.75
24	MP3A	Mx	.072	3.75
25	MP1A	X	48.019	.25
26	MP1A	Z	83.172	.25
27	MP1A	Mx	-.056	.25
28	MP1A	X	48.019	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP1A	Z	83.172	3.75
30	MP1A	Mx	-.056	3.75
31	MP4A	X	48.019	.25
32	MP4A	Z	83.172	.25
33	MP4A	Mx	-.056	.25
34	MP4A	X	48.019	3.75
35	MP4A	Z	83.172	3.75
36	MP4A	Mx	-.056	3.75
37	M53	X	49.84	2
38	M53	Z	86.326	2
39	M53	Mx	.05	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	1.25
2	MP2A	Z	75.625	1.25
3	MP2A	Mx	0	1.25
4	MP2A	X	0	2.75
5	MP2A	Z	75.625	2.75
6	MP2A	Mx	0	2.75
7	MP3A	X	0	2.5
8	MP3A	Z	60.178	2.5
9	MP3A	Mx	0	2.5
10	MP1A	X	0	2.5
11	MP1A	Z	60.178	2.5
12	MP1A	Mx	0	2.5
13	MP3A	X	0	.25
14	MP3A	Z	97.946	.25
15	MP3A	Mx	.042	.25
16	MP3A	X	0	3.75
17	MP3A	Z	97.946	3.75
18	MP3A	Mx	.042	3.75
19	MP3A	X	0	.25
20	MP3A	Z	97.946	.25
21	MP3A	Mx	.099	.25
22	MP3A	X	0	3.75
23	MP3A	Z	97.946	3.75
24	MP3A	Mx	.099	3.75
25	MP1A	X	0	.25
26	MP1A	Z	98.956	.25
27	MP1A	Mx	0	.25
28	MP1A	X	0	3.75
29	MP1A	Z	98.956	3.75
30	MP1A	Mx	0	3.75
31	MP4A	X	0	.25
32	MP4A	Z	98.956	.25
33	MP4A	Mx	0	.25
34	MP4A	X	0	3.75
35	MP4A	Z	98.956	3.75
36	MP4A	Mx	0	3.75
37	M53	X	0	2
38	M53	Z	107.424	2
39	M53	Mx	.047	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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**Member Point Loads (BLC 10 : Antenna Wo (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-32.06	1.25
2	MP2A	Z	55.53	1.25
3	MP2A	Mx	.016	1.25
4	MP2A	X	-32.06	2.75
5	MP2A	Z	55.53	2.75
6	MP2A	Mx	.016	2.75
7	MP3A	X	-27.595	2.5
8	MP3A	Z	47.796	2.5
9	MP3A	Mx	-.014	2.5
10	MP1A	X	-27.143	2.5
11	MP1A	Z	47.012	2.5
12	MP1A	Mx	-.014	2.5
13	MP3A	X	-60.09	.25
14	MP3A	Z	104.08	.25
15	MP3A	Mx	-.011	.25
16	MP3A	X	-60.09	3.75
17	MP3A	Z	104.08	3.75
18	MP3A	Mx	-.011	3.75
19	MP3A	X	-60.09	.25
20	MP3A	Z	104.08	.25
21	MP3A	Mx	.111	.25
22	MP3A	X	-60.09	3.75
23	MP3A	Z	104.08	3.75
24	MP3A	Mx	.111	3.75
25	MP1A	X	-48.019	.25
26	MP1A	Z	83.172	.25
27	MP1A	Mx	.056	.25
28	MP1A	X	-48.019	3.75
29	MP1A	Z	83.172	3.75
30	MP1A	Mx	.056	3.75
31	MP4A	X	-48.019	.25
32	MP4A	Z	83.172	.25
33	MP4A	Mx	.056	.25
34	MP4A	X	-48.019	3.75
35	MP4A	Z	83.172	3.75
36	MP4A	Mx	.056	3.75
37	M53	X	-61.456	2
38	M53	Z	106.444	2
39	M53	Mx	.031	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-35.604	1.25
2	MP2A	Z	20.556	1.25
3	MP2A	Mx	.018	1.25
4	MP2A	X	-35.604	2.75
5	MP2A	Z	20.556	2.75
6	MP2A	Mx	.018	2.75
7	MP3A	X	-39.157	2.5
8	MP3A	Z	22.607	2.5
9	MP3A	Mx	-.02	2.5
10	MP1A	X	-36.805	2.5
11	MP1A	Z	21.249	2.5
12	MP1A	Mx	-.018	2.5
13	MP3A	X	-113.708	.25
14	MP3A	Z	65.649	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	-.077	.25
16	MP3A	X	-113.708	3.75
17	MP3A	Z	65.649	3.75
18	MP3A	Mx	-.077	3.75
19	MP3A	X	-113.708	.25
20	MP3A	Z	65.649	.25
21	MP3A	Mx	.077	.25
22	MP3A	X	-113.708	3.75
23	MP3A	Z	65.649	3.75
24	MP3A	Mx	.077	3.75
25	MP1A	X	-78.118	.25
26	MP1A	Z	45.102	.25
27	MP1A	Mx	.091	.25
28	MP1A	X	-78.118	3.75
29	MP1A	Z	45.102	3.75
30	MP1A	Mx	.091	3.75
31	MP4A	X	-78.118	.25
32	MP4A	Z	45.102	.25
33	MP4A	Mx	.091	.25
34	MP4A	X	-78.118	3.75
35	MP4A	Z	45.102	3.75
36	MP4A	Mx	.091	3.75
37	M53	X	-113.15	2
38	M53	Z	65.327	2
39	M53	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-29.607	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	.015	1.25
4	MP2A	X	-29.607	2.75
5	MP2A	Z	0	2.75
6	MP2A	Mx	.015	2.75
7	MP3A	X	-40.226	2.5
8	MP3A	Z	0	2.5
9	MP3A	Mx	-.02	2.5
10	MP1A	X	-36.606	2.5
11	MP1A	Z	0	2.5
12	MP1A	Mx	-.018	2.5
13	MP3A	X	-120.181	.25
14	MP3A	Z	0	.25
15	MP3A	Mx	-.111	.25
16	MP3A	X	-120.181	3.75
17	MP3A	Z	0	3.75
18	MP3A	Mx	-.111	3.75
19	MP3A	X	-120.181	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.011	.25
22	MP3A	X	-120.181	3.75
23	MP3A	Z	0	3.75
24	MP3A	Mx	.011	3.75
25	MP1A	X	-87.285	.25
26	MP1A	Z	0	.25
27	MP1A	Mx	.102	.25
28	MP1A	X	-87.285	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	0	3.75
30	MP1A	Mx	.102	3.75
31	MP4A	X	-87.285	.25
32	MP4A	Z	0	.25
33	MP4A	Mx	.102	.25
34	MP4A	X	-87.285	3.75
35	MP4A	Z	0	3.75
36	MP4A	Mx	.102	3.75
37	M53	X	-122.911	2
38	M53	Z	0	2
39	M53	Mx	-.031	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-35.604	1.25
2	MP2A	Z	-20.556	1.25
3	MP2A	Mx	.018	1.25
4	MP2A	X	-35.604	2.75
5	MP2A	Z	-20.556	2.75
6	MP2A	Mx	.018	2.75
7	MP3A	X	-39.157	2.5
8	MP3A	Z	-22.607	2.5
9	MP3A	Mx	-.02	2.5
10	MP1A	X	-36.805	2.5
11	MP1A	Z	-21.249	2.5
12	MP1A	Mx	-.018	2.5
13	MP3A	X	-84.824	.25
14	MP3A	Z	-48.973	.25
15	MP3A	Mx	-.099	.25
16	MP3A	X	-84.824	3.75
17	MP3A	Z	-48.973	3.75
18	MP3A	Mx	-.099	3.75
19	MP3A	X	-84.824	.25
20	MP3A	Z	-48.973	.25
21	MP3A	Mx	-.042	.25
22	MP3A	X	-84.824	3.75
23	MP3A	Z	-48.973	3.75
24	MP3A	Mx	-.042	3.75
25	MP1A	X	-78.118	.25
26	MP1A	Z	-45.102	.25
27	MP1A	Mx	.091	.25
28	MP1A	X	-78.118	3.75
29	MP1A	Z	-45.102	3.75
30	MP1A	Mx	.091	3.75
31	MP4A	X	-78.118	.25
32	MP4A	Z	-45.102	.25
33	MP4A	Mx	.091	.25
34	MP4A	X	-78.118	3.75
35	MP4A	Z	-45.102	3.75
36	MP4A	Mx	.091	3.75
37	M53	X	-93.032	2
38	M53	Z	-53.712	2
39	M53	Mx	-.047	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 14 : Antenna Wo (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-32.06	1.25
2	MP2A	Z	-55.53	1.25
3	MP2A	Mx	.016	1.25
4	MP2A	X	-32.06	2.75
5	MP2A	Z	-55.53	2.75
6	MP2A	Mx	.016	2.75
7	MP3A	X	-27.595	2.5
8	MP3A	Z	-47.796	2.5
9	MP3A	Mx	-.014	2.5
10	MP1A	X	-27.143	2.5
11	MP1A	Z	-47.012	2.5
12	MP1A	Mx	-.014	2.5
13	MP3A	X	-43.414	.25
14	MP3A	Z	-75.196	.25
15	MP3A	Mx	-.072	.25
16	MP3A	X	-43.414	3.75
17	MP3A	Z	-75.196	3.75
18	MP3A	Mx	-.072	3.75
19	MP3A	X	-43.414	.25
20	MP3A	Z	-75.196	.25
21	MP3A	Mx	-.072	.25
22	MP3A	X	-43.414	3.75
23	MP3A	Z	-75.196	3.75
24	MP3A	Mx	-.072	3.75
25	MP1A	X	-48.019	.25
26	MP1A	Z	-83.172	.25
27	MP1A	Mx	.056	.25
28	MP1A	X	-48.019	3.75
29	MP1A	Z	-83.172	3.75
30	MP1A	Mx	.056	3.75
31	MP4A	X	-48.019	.25
32	MP4A	Z	-83.172	.25
33	MP4A	Mx	.056	.25
34	MP4A	X	-48.019	3.75
35	MP4A	Z	-83.172	3.75
36	MP4A	Mx	.056	3.75
37	M53	X	-49.84	2
38	M53	Z	-86.326	2
39	M53	Mx	-.05	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.25
2	MP2A	Z	-16.565	1.25
3	MP2A	Mx	0	1.25
4	MP2A	X	0	2.75
5	MP2A	Z	-16.565	2.75
6	MP2A	Mx	0	2.75
7	MP3A	X	0	2.5
8	MP3A	Z	-14.359	2.5
9	MP3A	Mx	0	2.5
10	MP1A	X	0	2.5
11	MP1A	Z	-14.359	2.5
12	MP1A	Mx	0	2.5
13	MP3A	X	0	.25
14	MP3A	Z	-21.617	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	-.009	.25
16	MP3A	X	0	3.75
17	MP3A	Z	-21.617	3.75
18	MP3A	Mx	-.009	3.75
19	MP3A	X	0	.25
20	MP3A	Z	-21.617	.25
21	MP3A	Mx	-.022	.25
22	MP3A	X	0	3.75
23	MP3A	Z	-21.617	3.75
24	MP3A	Mx	-.022	3.75
25	MP1A	X	0	.25
26	MP1A	Z	-21.107	.25
27	MP1A	Mx	0	.25
28	MP1A	X	0	3.75
29	MP1A	Z	-21.107	3.75
30	MP1A	Mx	0	3.75
31	MP4A	X	0	.25
32	MP4A	Z	-21.107	.25
33	MP4A	Mx	0	.25
34	MP4A	X	0	3.75
35	MP4A	Z	-21.107	3.75
36	MP4A	Mx	0	3.75
37	M53	X	0	2
38	M53	Z	-24.257	2
39	M53	Mx	-.011	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.133	1.25
2	MP2A	Z	-12.354	1.25
3	MP2A	Mx	-.004	1.25
4	MP2A	X	7.133	2.75
5	MP2A	Z	-12.354	2.75
6	MP2A	Mx	-.004	2.75
7	MP3A	X	6.658	2.5
8	MP3A	Z	-11.532	2.5
9	MP3A	Mx	.003	2.5
10	MP1A	X	6.564	2.5
11	MP1A	Z	-11.37	2.5
12	MP1A	Mx	.003	2.5
13	MP3A	X	12.869	.25
14	MP3A	Z	-22.29	.25
15	MP3A	Mx	.002	.25
16	MP3A	X	12.869	3.75
17	MP3A	Z	-22.29	3.75
18	MP3A	Mx	.002	3.75
19	MP3A	X	12.869	.25
20	MP3A	Z	-22.29	.25
21	MP3A	Mx	-.024	.25
22	MP3A	X	12.869	3.75
23	MP3A	Z	-22.29	3.75
24	MP3A	Mx	-.024	3.75
25	MP1A	X	10.276	.25
26	MP1A	Z	-17.798	.25
27	MP1A	Mx	-.012	.25
28	MP1A	X	10.276	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	-17.798	3.75
30	MP1A	Mx	-.012	3.75
31	MP4A	X	10.276	.25
32	MP4A	Z	-17.798	.25
33	MP4A	Mx	-.012	.25
34	MP4A	X	10.276	3.75
35	MP4A	Z	-17.798	3.75
36	MP4A	Mx	-.012	3.75
37	M53	X	13.634	2
38	M53	Z	-23.615	2
39	M53	Mx	-.007	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.37	1.25
2	MP2A	Z	-4.832	1.25
3	MP2A	Mx	-.004	1.25
4	MP2A	X	8.37	2.75
5	MP2A	Z	-4.832	2.75
6	MP2A	Mx	-.004	2.75
7	MP3A	X	9.726	2.5
8	MP3A	Z	-5.615	2.5
9	MP3A	Mx	.005	2.5
10	MP1A	X	9.238	2.5
11	MP1A	Z	-5.334	2.5
12	MP1A	Mx	.005	2.5
13	MP3A	X	24.075	.25
14	MP3A	Z	-13.899	.25
15	MP3A	Mx	.016	.25
16	MP3A	X	24.075	3.75
17	MP3A	Z	-13.899	3.75
18	MP3A	Mx	.016	3.75
19	MP3A	X	24.075	.25
20	MP3A	Z	-13.899	.25
21	MP3A	Mx	-.016	.25
22	MP3A	X	24.075	3.75
23	MP3A	Z	-13.899	3.75
24	MP3A	Mx	-.016	3.75
25	MP1A	X	16.836	.25
26	MP1A	Z	-9.72	.25
27	MP1A	Mx	-.02	.25
28	MP1A	X	16.836	3.75
29	MP1A	Z	-9.72	3.75
30	MP1A	Mx	-.02	3.75
31	MP4A	X	16.836	.25
32	MP4A	Z	-9.72	.25
33	MP4A	Mx	-.02	.25
34	MP4A	X	16.836	3.75
35	MP4A	Z	-9.72	3.75
36	MP4A	Mx	-.02	3.75
37	M53	X	24.919	2
38	M53	Z	-14.387	2
39	M53	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 18 : Antenna Wi (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.365	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	-.004	1.25
4	MP2A	X	7.365	2.75
5	MP2A	Z	0	2.75
6	MP2A	Mx	-.004	2.75
7	MP3A	X	10.188	2.5
8	MP3A	Z	0	2.5
9	MP3A	Mx	.005	2.5
10	MP1A	X	9.437	2.5
11	MP1A	Z	0	2.5
12	MP1A	Mx	.005	2.5
13	MP3A	X	25.738	.25
14	MP3A	Z	0	.25
15	MP3A	Mx	.024	.25
16	MP3A	X	25.738	3.75
17	MP3A	Z	0	3.75
18	MP3A	Mx	.024	3.75
19	MP3A	X	25.738	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.002	.25
22	MP3A	X	25.738	3.75
23	MP3A	Z	0	3.75
24	MP3A	Mx	-.002	3.75
25	MP1A	X	18.885	.25
26	MP1A	Z	0	.25
27	MP1A	Mx	-.022	.25
28	MP1A	X	18.885	3.75
29	MP1A	Z	0	3.75
30	MP1A	Mx	-.022	3.75
31	MP4A	X	18.885	.25
32	MP4A	Z	0	.25
33	MP4A	Mx	-.022	.25
34	MP4A	X	18.885	3.75
35	MP4A	Z	0	3.75
36	MP4A	Mx	-.022	3.75
37	M53	X	27.268	2
38	M53	Z	0	2
39	M53	Mx	.007	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	8.37	1.25
2	MP2A	Z	4.832	1.25
3	MP2A	Mx	-.004	1.25
4	MP2A	X	8.37	2.75
5	MP2A	Z	4.832	2.75
6	MP2A	Mx	-.004	2.75
7	MP3A	X	9.726	2.5
8	MP3A	Z	5.615	2.5
9	MP3A	Mx	.005	2.5
10	MP1A	X	9.238	2.5
11	MP1A	Z	5.334	2.5
12	MP1A	Mx	.005	2.5
13	MP3A	X	18.721	.25
14	MP3A	Z	10.808	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	.022	.25
16	MP3A	X	18.721	3.75
17	MP3A	Z	10.808	3.75
18	MP3A	Mx	.022	3.75
19	MP3A	X	18.721	.25
20	MP3A	Z	10.808	.25
21	MP3A	Mx	.009	.25
22	MP3A	X	18.721	3.75
23	MP3A	Z	10.808	3.75
24	MP3A	Mx	.009	3.75
25	MP1A	X	16.836	.25
26	MP1A	Z	9.72	.25
27	MP1A	Mx	-.02	.25
28	MP1A	X	16.836	3.75
29	MP1A	Z	9.72	3.75
30	MP1A	Mx	-.02	3.75
31	MP4A	X	16.836	.25
32	MP4A	Z	9.72	.25
33	MP4A	Mx	-.02	.25
34	MP4A	X	16.836	3.75
35	MP4A	Z	9.72	3.75
36	MP4A	Mx	-.02	3.75
37	M53	X	21.007	2
38	M53	Z	12.128	2
39	M53	Mx	.011	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	7.133	1.25
2	MP2A	Z	12.354	1.25
3	MP2A	Mx	-.004	1.25
4	MP2A	X	7.133	2.75
5	MP2A	Z	12.354	2.75
6	MP2A	Mx	-.004	2.75
7	MP3A	X	6.658	2.5
8	MP3A	Z	11.532	2.5
9	MP3A	Mx	.003	2.5
10	MP1A	X	6.564	2.5
11	MP1A	Z	11.37	2.5
12	MP1A	Mx	.003	2.5
13	MP3A	X	9.778	.25
14	MP3A	Z	16.936	.25
15	MP3A	Mx	.016	.25
16	MP3A	X	9.778	3.75
17	MP3A	Z	16.936	3.75
18	MP3A	Mx	.016	3.75
19	MP3A	X	9.778	.25
20	MP3A	Z	16.936	.25
21	MP3A	Mx	.016	.25
22	MP3A	X	9.778	3.75
23	MP3A	Z	16.936	3.75
24	MP3A	Mx	.016	3.75
25	MP1A	X	10.276	.25
26	MP1A	Z	17.798	.25
27	MP1A	Mx	-.012	.25
28	MP1A	X	10.276	3.75





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP1A	Z	17.798	3.75
30	MP1A	Mx	-.012	3.75
31	MP4A	X	10.276	.25
32	MP4A	Z	17.798	.25
33	MP4A	Mx	-.012	.25
34	MP4A	X	10.276	3.75
35	MP4A	Z	17.798	3.75
36	MP4A	Mx	-.012	3.75
37	M53	X	11.375	2
38	M53	Z	19.703	2
39	M53	Mx	.011	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	1.25
2	MP2A	Z	16.565	1.25
3	MP2A	Mx	0	1.25
4	MP2A	X	0	2.75
5	MP2A	Z	16.565	2.75
6	MP2A	Mx	0	2.75
7	MP3A	X	0	2.5
8	MP3A	Z	14.359	2.5
9	MP3A	Mx	0	2.5
10	MP1A	X	0	2.5
11	MP1A	Z	14.359	2.5
12	MP1A	Mx	0	2.5
13	MP3A	X	0	.25
14	MP3A	Z	21.617	.25
15	MP3A	Mx	.009	.25
16	MP3A	X	0	3.75
17	MP3A	Z	21.617	3.75
18	MP3A	Mx	.009	3.75
19	MP3A	X	0	.25
20	MP3A	Z	21.617	.25
21	MP3A	Mx	.022	.25
22	MP3A	X	0	3.75
23	MP3A	Z	21.617	3.75
24	MP3A	Mx	.022	3.75
25	MP1A	X	0	.25
26	MP1A	Z	21.107	.25
27	MP1A	Mx	0	.25
28	MP1A	X	0	3.75
29	MP1A	Z	21.107	3.75
30	MP1A	Mx	0	3.75
31	MP4A	X	0	.25
32	MP4A	Z	21.107	.25
33	MP4A	Mx	0	.25
34	MP4A	X	0	3.75
35	MP4A	Z	21.107	3.75
36	MP4A	Mx	0	3.75
37	M53	X	0	2
38	M53	Z	24.257	2
39	M53	Mx	.011	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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**Member Point Loads (BLC 22 : Antenna Wi (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-7.133	1.25
2	MP2A	Z	12.354	1.25
3	MP2A	Mx	.004	1.25
4	MP2A	X	-7.133	2.75
5	MP2A	Z	12.354	2.75
6	MP2A	Mx	.004	2.75
7	MP3A	X	-6.658	2.5
8	MP3A	Z	11.532	2.5
9	MP3A	Mx	-.003	2.5
10	MP1A	X	-6.564	2.5
11	MP1A	Z	11.37	2.5
12	MP1A	Mx	-.003	2.5
13	MP3A	X	-12.869	.25
14	MP3A	Z	22.29	.25
15	MP3A	Mx	-.002	.25
16	MP3A	X	-12.869	3.75
17	MP3A	Z	22.29	3.75
18	MP3A	Mx	-.002	3.75
19	MP3A	X	-12.869	.25
20	MP3A	Z	22.29	.25
21	MP3A	Mx	.024	.25
22	MP3A	X	-12.869	3.75
23	MP3A	Z	22.29	3.75
24	MP3A	Mx	.024	3.75
25	MP1A	X	-10.276	.25
26	MP1A	Z	17.798	.25
27	MP1A	Mx	.012	.25
28	MP1A	X	-10.276	3.75
29	MP1A	Z	17.798	3.75
30	MP1A	Mx	.012	3.75
31	MP4A	X	-10.276	.25
32	MP4A	Z	17.798	.25
33	MP4A	Mx	.012	.25
34	MP4A	X	-10.276	3.75
35	MP4A	Z	17.798	3.75
36	MP4A	Mx	.012	3.75
37	M53	X	-13.634	2
38	M53	Z	23.615	2
39	M53	Mx	.007	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-8.37	1.25
2	MP2A	Z	4.832	1.25
3	MP2A	Mx	.004	1.25
4	MP2A	X	-8.37	2.75
5	MP2A	Z	4.832	2.75
6	MP2A	Mx	.004	2.75
7	MP3A	X	-9.726	2.5
8	MP3A	Z	5.615	2.5
9	MP3A	Mx	-.005	2.5
10	MP1A	X	-9.238	2.5
11	MP1A	Z	5.334	2.5
12	MP1A	Mx	-.005	2.5
13	MP3A	X	-24.075	.25
14	MP3A	Z	13.899	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	-.016	.25
16	MP3A	X	-24.075	3.75
17	MP3A	Z	13.899	3.75
18	MP3A	Mx	-.016	3.75
19	MP3A	X	-24.075	.25
20	MP3A	Z	13.899	.25
21	MP3A	Mx	.016	.25
22	MP3A	X	-24.075	3.75
23	MP3A	Z	13.899	3.75
24	MP3A	Mx	.016	3.75
25	MP1A	X	-16.836	.25
26	MP1A	Z	9.72	.25
27	MP1A	Mx	.02	.25
28	MP1A	X	-16.836	3.75
29	MP1A	Z	9.72	3.75
30	MP1A	Mx	.02	3.75
31	MP4A	X	-16.836	.25
32	MP4A	Z	9.72	.25
33	MP4A	Mx	.02	.25
34	MP4A	X	-16.836	3.75
35	MP4A	Z	9.72	3.75
36	MP4A	Mx	.02	3.75
37	M53	X	-24.919	2
38	M53	Z	14.387	2
39	M53	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-7.365	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	.004	1.25
4	MP2A	X	-7.365	2.75
5	MP2A	Z	0	2.75
6	MP2A	Mx	.004	2.75
7	MP3A	X	-10.188	2.5
8	MP3A	Z	0	2.5
9	MP3A	Mx	-.005	2.5
10	MP1A	X	-9.437	2.5
11	MP1A	Z	0	2.5
12	MP1A	Mx	-.005	2.5
13	MP3A	X	-25.738	.25
14	MP3A	Z	0	.25
15	MP3A	Mx	-.024	.25
16	MP3A	X	-25.738	3.75
17	MP3A	Z	0	3.75
18	MP3A	Mx	-.024	3.75
19	MP3A	X	-25.738	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.002	.25
22	MP3A	X	-25.738	3.75
23	MP3A	Z	0	3.75
24	MP3A	Mx	.002	3.75
25	MP1A	X	-18.885	.25
26	MP1A	Z	0	.25
27	MP1A	Mx	.022	.25
28	MP1A	X	-18.885	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	0	3.75
30	MP1A	Mx	.022	3.75
31	MP4A	X	-18.885	.25
32	MP4A	Z	0	.25
33	MP4A	Mx	.022	.25
34	MP4A	X	-18.885	3.75
35	MP4A	Z	0	3.75
36	MP4A	Mx	.022	3.75
37	M53	X	-27.268	2
38	M53	Z	0	2
39	M53	Mx	-.007	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.37	1.25
2	MP2A	Z	-4.832	1.25
3	MP2A	Mx	.004	1.25
4	MP2A	X	-8.37	2.75
5	MP2A	Z	-4.832	2.75
6	MP2A	Mx	.004	2.75
7	MP3A	X	-9.726	2.5
8	MP3A	Z	-5.615	2.5
9	MP3A	Mx	-.005	2.5
10	MP1A	X	-9.238	2.5
11	MP1A	Z	-5.334	2.5
12	MP1A	Mx	-.005	2.5
13	MP3A	X	-18.721	.25
14	MP3A	Z	-10.808	.25
15	MP3A	Mx	-.022	.25
16	MP3A	X	-18.721	3.75
17	MP3A	Z	-10.808	3.75
18	MP3A	Mx	-.022	3.75
19	MP3A	X	-18.721	.25
20	MP3A	Z	-10.808	.25
21	MP3A	Mx	-.009	.25
22	MP3A	X	-18.721	3.75
23	MP3A	Z	-10.808	3.75
24	MP3A	Mx	-.009	3.75
25	MP1A	X	-16.836	.25
26	MP1A	Z	-9.72	.25
27	MP1A	Mx	.02	.25
28	MP1A	X	-16.836	3.75
29	MP1A	Z	-9.72	3.75
30	MP1A	Mx	.02	3.75
31	MP4A	X	-16.836	.25
32	MP4A	Z	-9.72	.25
33	MP4A	Mx	.02	.25
34	MP4A	X	-16.836	3.75
35	MP4A	Z	-9.72	3.75
36	MP4A	Mx	.02	3.75
37	M53	X	-21.007	2
38	M53	Z	-12.128	2
39	M53	Mx	-.011	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 26 : Antenna Wi (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-7.133	1.25
2	MP2A	Z	-12.354	1.25
3	MP2A	Mx	.004	1.25
4	MP2A	X	-7.133	2.75
5	MP2A	Z	-12.354	2.75
6	MP2A	Mx	.004	2.75
7	MP3A	X	-6.658	2.5
8	MP3A	Z	-11.532	2.5
9	MP3A	Mx	-.003	2.5
10	MP1A	X	-6.564	2.5
11	MP1A	Z	-11.37	2.5
12	MP1A	Mx	-.003	2.5
13	MP3A	X	-9.778	.25
14	MP3A	Z	-16.936	.25
15	MP3A	Mx	-.016	.25
16	MP3A	X	-9.778	3.75
17	MP3A	Z	-16.936	3.75
18	MP3A	Mx	-.016	3.75
19	MP3A	X	-9.778	.25
20	MP3A	Z	-16.936	.25
21	MP3A	Mx	-.016	.25
22	MP3A	X	-9.778	3.75
23	MP3A	Z	-16.936	3.75
24	MP3A	Mx	-.016	3.75
25	MP1A	X	-10.276	.25
26	MP1A	Z	-17.798	.25
27	MP1A	Mx	.012	.25
28	MP1A	X	-10.276	3.75
29	MP1A	Z	-17.798	3.75
30	MP1A	Mx	.012	3.75
31	MP4A	X	-10.276	.25
32	MP4A	Z	-17.798	.25
33	MP4A	Mx	.012	.25
34	MP4A	X	-10.276	3.75
35	MP4A	Z	-17.798	3.75
36	MP4A	Mx	.012	3.75
37	M53	X	-11.375	2
38	M53	Z	-19.703	2
39	M53	Mx	-.011	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	1.25
2	MP2A	Z	-4.972	1.25
3	MP2A	Mx	0	1.25
4	MP2A	X	0	2.75
5	MP2A	Z	-4.972	2.75
6	MP2A	Mx	0	2.75
7	MP3A	X	0	2.5
8	MP3A	Z	-3.957	2.5
9	MP3A	Mx	0	2.5
10	MP1A	X	0	2.5
11	MP1A	Z	-3.957	2.5
12	MP1A	Mx	0	2.5
13	MP3A	X	0	.25
14	MP3A	Z	-6.44	.25





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP1A	Z	-5.468	3.75
30	MP1A	Mx	-.004	3.75
31	MP4A	X	3.157	.25
32	MP4A	Z	-5.468	.25
33	MP4A	Mx	-.004	.25
34	MP4A	X	3.157	3.75
35	MP4A	Z	-5.468	3.75
36	MP4A	Mx	-.004	3.75
37	M53	X	4.04	2
38	M53	Z	-6.998	2
39	M53	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	2.341	1.25
2	MP2A	Z	-1.351	1.25
3	MP2A	Mx	-.001	1.25
4	MP2A	X	2.341	2.75
5	MP2A	Z	-1.351	2.75
6	MP2A	Mx	-.001	2.75
7	MP3A	X	2.574	2.5
8	MP3A	Z	-1.486	2.5
9	MP3A	Mx	.001	2.5
10	MP1A	X	2.42	2.5
11	MP1A	Z	-1.397	2.5
12	MP1A	Mx	.001	2.5
13	MP3A	X	7.476	.25
14	MP3A	Z	-4.316	.25
15	MP3A	Mx	.005	.25
16	MP3A	X	7.476	3.75
17	MP3A	Z	-4.316	3.75
18	MP3A	Mx	.005	3.75
19	MP3A	X	7.476	.25
20	MP3A	Z	-4.316	.25
21	MP3A	Mx	-.005	.25
22	MP3A	X	7.476	3.75
23	MP3A	Z	-4.316	3.75
24	MP3A	Mx	-.005	3.75
25	MP1A	X	5.136	.25
26	MP1A	Z	-2.965	.25
27	MP1A	Mx	-.006	.25
28	MP1A	X	5.136	3.75
29	MP1A	Z	-2.965	3.75
30	MP1A	Mx	-.006	3.75
31	MP4A	X	5.136	.25
32	MP4A	Z	-2.965	.25
33	MP4A	Mx	-.006	.25
34	MP4A	X	5.136	3.75
35	MP4A	Z	-2.965	3.75
36	MP4A	Mx	-.006	3.75
37	M53	X	7.439	2
38	M53	Z	-4.295	2
39	M53	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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**Member Point Loads (BLC 30 : Antenna Wm (90 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	1.947	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	-.000974	1.25
4	MP2A	X	1.947	2.75
5	MP2A	Z	0	2.75
6	MP2A	Mx	-.000974	2.75
7	MP3A	X	2.645	2.5
8	MP3A	Z	0	2.5
9	MP3A	Mx	.001	2.5
10	MP1A	X	2.407	2.5
11	MP1A	Z	0	2.5
12	MP1A	Mx	.001	2.5
13	MP3A	X	7.901	.25
14	MP3A	Z	0	.25
15	MP3A	Mx	.007	.25
16	MP3A	X	7.901	3.75
17	MP3A	Z	0	3.75
18	MP3A	Mx	.007	3.75
19	MP3A	X	7.901	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	-.000699	.25
22	MP3A	X	7.901	3.75
23	MP3A	Z	0	3.75
24	MP3A	Mx	-.000699	3.75
25	MP1A	X	5.739	.25
26	MP1A	Z	0	.25
27	MP1A	Mx	-.007	.25
28	MP1A	X	5.739	3.75
29	MP1A	Z	0	3.75
30	MP1A	Mx	-.007	3.75
31	MP4A	X	5.739	.25
32	MP4A	Z	0	.25
33	MP4A	Mx	-.007	.25
34	MP4A	X	5.739	3.75
35	MP4A	Z	0	3.75
36	MP4A	Mx	-.007	3.75
37	M53	X	8.081	2
38	M53	Z	0	2
39	M53	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.341	1.25
2	MP2A	Z	1.351	1.25
3	MP2A	Mx	-.001	1.25
4	MP2A	X	2.341	2.75
5	MP2A	Z	1.351	2.75
6	MP2A	Mx	-.001	2.75
7	MP3A	X	2.574	2.5
8	MP3A	Z	1.486	2.5
9	MP3A	Mx	.001	2.5
10	MP1A	X	2.42	2.5
11	MP1A	Z	1.397	2.5
12	MP1A	Mx	.001	2.5
13	MP3A	X	5.577	.25
14	MP3A	Z	3.22	.25





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	.007	.25
16	MP3A	X	5.577	3.75
17	MP3A	Z	3.22	3.75
18	MP3A	Mx	.007	3.75
19	MP3A	X	5.577	.25
20	MP3A	Z	3.22	.25
21	MP3A	Mx	.003	.25
22	MP3A	X	5.577	3.75
23	MP3A	Z	3.22	3.75
24	MP3A	Mx	.003	3.75
25	MP1A	X	5.136	.25
26	MP1A	Z	2.965	.25
27	MP1A	Mx	-.006	.25
28	MP1A	X	5.136	3.75
29	MP1A	Z	2.965	3.75
30	MP1A	Mx	-.006	3.75
31	MP4A	X	5.136	.25
32	MP4A	Z	2.965	.25
33	MP4A	Mx	-.006	.25
34	MP4A	X	5.136	3.75
35	MP4A	Z	2.965	3.75
36	MP4A	Mx	-.006	3.75
37	M53	X	6.116	2
38	M53	Z	3.531	2
39	M53	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	2.108	1.25
2	MP2A	Z	3.651	1.25
3	MP2A	Mx	-.001	1.25
4	MP2A	X	2.108	2.75
5	MP2A	Z	3.651	2.75
6	MP2A	Mx	-.001	2.75
7	MP3A	X	1.814	2.5
8	MP3A	Z	3.142	2.5
9	MP3A	Mx	.000907	2.5
10	MP1A	X	1.785	2.5
11	MP1A	Z	3.091	2.5
12	MP1A	Mx	.000892	2.5
13	MP3A	X	2.854	.25
14	MP3A	Z	4.944	.25
15	MP3A	Mx	.005	.25
16	MP3A	X	2.854	3.75
17	MP3A	Z	4.944	3.75
18	MP3A	Mx	.005	3.75
19	MP3A	X	2.854	.25
20	MP3A	Z	4.944	.25
21	MP3A	Mx	.005	.25
22	MP3A	X	2.854	3.75
23	MP3A	Z	4.944	3.75
24	MP3A	Mx	.005	3.75
25	MP1A	X	3.157	.25
26	MP1A	Z	5.468	.25
27	MP1A	Mx	-.004	.25
28	MP1A	X	3.157	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
29	MP1A	Z	5.468	3.75
30	MP1A	Mx	-.004	3.75
31	MP4A	X	3.157	.25
32	MP4A	Z	5.468	.25
33	MP4A	Mx	-.004	.25
34	MP4A	X	3.157	3.75
35	MP4A	Z	5.468	3.75
36	MP4A	Mx	-.004	3.75
37	M53	X	3.277	2
38	M53	Z	5.676	2
39	M53	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	1.25
2	MP2A	Z	4.972	1.25
3	MP2A	Mx	0	1.25
4	MP2A	X	0	2.75
5	MP2A	Z	4.972	2.75
6	MP2A	Mx	0	2.75
7	MP3A	X	0	2.5
8	MP3A	Z	3.957	2.5
9	MP3A	Mx	0	2.5
10	MP1A	X	0	2.5
11	MP1A	Z	3.957	2.5
12	MP1A	Mx	0	2.5
13	MP3A	X	0	.25
14	MP3A	Z	6.44	.25
15	MP3A	Mx	.003	.25
16	MP3A	X	0	3.75
17	MP3A	Z	6.44	3.75
18	MP3A	Mx	.003	3.75
19	MP3A	X	0	.25
20	MP3A	Z	6.44	.25
21	MP3A	Mx	.007	.25
22	MP3A	X	0	3.75
23	MP3A	Z	6.44	3.75
24	MP3A	Mx	.007	3.75
25	MP1A	X	0	.25
26	MP1A	Z	6.506	.25
27	MP1A	Mx	0	.25
28	MP1A	X	0	3.75
29	MP1A	Z	6.506	3.75
30	MP1A	Mx	0	3.75
31	MP4A	X	0	.25
32	MP4A	Z	6.506	.25
33	MP4A	Mx	0	.25
34	MP4A	X	0	3.75
35	MP4A	Z	6.506	3.75
36	MP4A	Mx	0	3.75
37	M53	X	0	2
38	M53	Z	7.063	2
39	M53	Mx	.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
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**Member Point Loads (BLC 34 : Antenna Wm (210 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.108	1.25
2	MP2A	Z	3.651	1.25
3	MP2A	Mx	.001	1.25
4	MP2A	X	-2.108	2.75
5	MP2A	Z	3.651	2.75
6	MP2A	Mx	.001	2.75
7	MP3A	X	-1.814	2.5
8	MP3A	Z	3.142	2.5
9	MP3A	Mx	-.000907	2.5
10	MP1A	X	-1.785	2.5
11	MP1A	Z	3.091	2.5
12	MP1A	Mx	-.000892	2.5
13	MP3A	X	-3.951	.25
14	MP3A	Z	6.843	.25
15	MP3A	Mx	-.0007	.25
16	MP3A	X	-3.951	3.75
17	MP3A	Z	6.843	3.75
18	MP3A	Mx	-.0007	3.75
19	MP3A	X	-3.951	.25
20	MP3A	Z	6.843	.25
21	MP3A	Mx	.007	.25
22	MP3A	X	-3.951	3.75
23	MP3A	Z	6.843	3.75
24	MP3A	Mx	.007	3.75
25	MP1A	X	-3.157	.25
26	MP1A	Z	5.468	.25
27	MP1A	Mx	.004	.25
28	MP1A	X	-3.157	3.75
29	MP1A	Z	5.468	3.75
30	MP1A	Mx	.004	3.75
31	MP4A	X	-3.157	.25
32	MP4A	Z	5.468	.25
33	MP4A	Mx	.004	.25
34	MP4A	X	-3.157	3.75
35	MP4A	Z	5.468	3.75
36	MP4A	Mx	.004	3.75
37	M53	X	-4.04	2
38	M53	Z	6.998	2
39	M53	Mx	.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.341	1.25
2	MP2A	Z	1.351	1.25
3	MP2A	Mx	.001	1.25
4	MP2A	X	-2.341	2.75
5	MP2A	Z	1.351	2.75
6	MP2A	Mx	.001	2.75
7	MP3A	X	-2.574	2.5
8	MP3A	Z	1.486	2.5
9	MP3A	Mx	-.001	2.5
10	MP1A	X	-2.42	2.5
11	MP1A	Z	1.397	2.5
12	MP1A	Mx	-.001	2.5
13	MP3A	X	-7.476	.25
14	MP3A	Z	4.316	.25



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
15	MP3A	Mx	-.005	.25
16	MP3A	X	-7.476	3.75
17	MP3A	Z	4.316	3.75
18	MP3A	Mx	-.005	3.75
19	MP3A	X	-7.476	.25
20	MP3A	Z	4.316	.25
21	MP3A	Mx	.005	.25
22	MP3A	X	-7.476	3.75
23	MP3A	Z	4.316	3.75
24	MP3A	Mx	.005	3.75
25	MP1A	X	-5.136	.25
26	MP1A	Z	2.965	.25
27	MP1A	Mx	.006	.25
28	MP1A	X	-5.136	3.75
29	MP1A	Z	2.965	3.75
30	MP1A	Mx	.006	3.75
31	MP4A	X	-5.136	.25
32	MP4A	Z	2.965	.25
33	MP4A	Mx	.006	.25
34	MP4A	X	-5.136	3.75
35	MP4A	Z	2.965	3.75
36	MP4A	Mx	.006	3.75
37	M53	X	-7.439	2
38	M53	Z	4.295	2
39	M53	Mx	0	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-1.947	1.25
2	MP2A	Z	0	1.25
3	MP2A	Mx	.000974	1.25
4	MP2A	X	-1.947	2.75
5	MP2A	Z	0	2.75
6	MP2A	Mx	.000974	2.75
7	MP3A	X	-2.645	2.5
8	MP3A	Z	0	2.5
9	MP3A	Mx	-.001	2.5
10	MP1A	X	-2.407	2.5
11	MP1A	Z	0	2.5
12	MP1A	Mx	-.001	2.5
13	MP3A	X	-7.901	.25
14	MP3A	Z	0	.25
15	MP3A	Mx	-.007	.25
16	MP3A	X	-7.901	3.75
17	MP3A	Z	0	3.75
18	MP3A	Mx	-.007	3.75
19	MP3A	X	-7.901	.25
20	MP3A	Z	0	.25
21	MP3A	Mx	.000699	.25
22	MP3A	X	-7.901	3.75
23	MP3A	Z	0	3.75
24	MP3A	Mx	.000699	3.75
25	MP1A	X	-5.739	.25
26	MP1A	Z	0	.25
27	MP1A	Mx	.007	.25
28	MP1A	X	-5.739	3.75



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
29	MP1A	Z	0	3.75
30	MP1A	Mx	.007	3.75
31	MP4A	X	-5.739	.25
32	MP4A	Z	0	.25
33	MP4A	Mx	.007	.25
34	MP4A	X	-5.739	3.75
35	MP4A	Z	0	3.75
36	MP4A	Mx	.007	3.75
37	M53	X	-8.081	2
38	M53	Z	0	2
39	M53	Mx	-.002	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.341	1.25
2	MP2A	Z	-1.351	1.25
3	MP2A	Mx	.001	1.25
4	MP2A	X	-2.341	2.75
5	MP2A	Z	-1.351	2.75
6	MP2A	Mx	.001	2.75
7	MP3A	X	-2.574	2.5
8	MP3A	Z	-1.486	2.5
9	MP3A	Mx	-.001	2.5
10	MP1A	X	-2.42	2.5
11	MP1A	Z	-1.397	2.5
12	MP1A	Mx	-.001	2.5
13	MP3A	X	-5.577	.25
14	MP3A	Z	-3.22	.25
15	MP3A	Mx	-.007	.25
16	MP3A	X	-5.577	3.75
17	MP3A	Z	-3.22	3.75
18	MP3A	Mx	-.007	3.75
19	MP3A	X	-5.577	.25
20	MP3A	Z	-3.22	.25
21	MP3A	Mx	-.003	.25
22	MP3A	X	-5.577	3.75
23	MP3A	Z	-3.22	3.75
24	MP3A	Mx	-.003	3.75
25	MP1A	X	-5.136	.25
26	MP1A	Z	-2.965	.25
27	MP1A	Mx	.006	.25
28	MP1A	X	-5.136	3.75
29	MP1A	Z	-2.965	3.75
30	MP1A	Mx	.006	3.75
31	MP4A	X	-5.136	.25
32	MP4A	Z	-2.965	.25
33	MP4A	Mx	.006	.25
34	MP4A	X	-5.136	3.75
35	MP4A	Z	-2.965	3.75
36	MP4A	Mx	.006	3.75
37	M53	X	-6.116	2
38	M53	Z	-3.531	2
39	M53	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
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**Member Point Loads (BLC 38 : Antenna Wm (330 Deg)) (Continued)**

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-2.108	1.25
2	MP2A	Z	-3.651	1.25
3	MP2A	Mx	.001	1.25
4	MP2A	X	-2.108	2.75
5	MP2A	Z	-3.651	2.75
6	MP2A	Mx	.001	2.75
7	MP3A	X	-1.814	2.5
8	MP3A	Z	-3.142	2.5
9	MP3A	Mx	-.000907	2.5
10	MP1A	X	-1.785	2.5
11	MP1A	Z	-3.091	2.5
12	MP1A	Mx	-.000892	2.5
13	MP3A	X	-2.854	.25
14	MP3A	Z	-4.944	.25
15	MP3A	Mx	-.005	.25
16	MP3A	X	-2.854	3.75
17	MP3A	Z	-4.944	3.75
18	MP3A	Mx	-.005	3.75
19	MP3A	X	-2.854	.25
20	MP3A	Z	-4.944	.25
21	MP3A	Mx	-.005	.25
22	MP3A	X	-2.854	3.75
23	MP3A	Z	-4.944	3.75
24	MP3A	Mx	-.005	3.75
25	MP1A	X	-3.157	.25
26	MP1A	Z	-5.468	.25
27	MP1A	Mx	.004	.25
28	MP1A	X	-3.157	3.75
29	MP1A	Z	-5.468	3.75
30	MP1A	Mx	.004	3.75
31	MP4A	X	-3.157	.25
32	MP4A	Z	-5.468	.25
33	MP4A	Mx	.004	.25
34	MP4A	X	-3.157	3.75
35	MP4A	Z	-5.468	3.75
36	MP4A	Mx	.004	3.75
37	M53	X	-3.277	2
38	M53	Z	-5.676	2
39	M53	Mx	-.003	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M6	Y	-500	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	M10	Y	-500	0

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

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

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

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

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.842	-9.842	0	%100
2	M2	Y	-9.842	-9.842	0	%100
3	M13	Y	-11.292	-11.292	0	%100
4	M14	Y	-11.292	-11.292	0	%100
5	M15	Y	-11.292	-11.292	0	%100
6	M16	Y	-11.292	-11.292	0	%100
7	M17	Y	-8.777	-8.777	0	%100
8	M18	Y	-8.777	-8.777	0	%100
9	M19	Y	-8.777	-8.777	0	%100
10	M20	Y	-8.777	-8.777	0	%100
11	M21	Y	-12.305	-12.305	0	%100
12	M22	Y	-12.305	-12.305	0	%100
13	M23	Y	-12.305	-12.305	0	%100
14	M24	Y	-12.305	-12.305	0	%100
15	M25	Y	-5.314	-5.314	0	%100
16	M26	Y	-5.314	-5.314	0	%100
17	M27	Y	-5.314	-5.314	0	%100
18	M28	Y	-5.314	-5.314	0	%100
19	MP4A	Y	-8.777	-8.777	0	%100
20	MP3A	Y	-8.777	-8.777	0	%100
21	MP2A	Y	-8.777	-8.777	0	%100
22	MP1A	Y	-8.777	-8.777	0	%100
23	M44	Y	-5.048	-5.048	0	%100
24	M45	Y	-5.048	-5.048	0	%100
25	M46	Y	-5.048	-5.048	0	%100
26	M47	Y	-5.048	-5.048	0	%100
27	M43	Y	-8.777	-8.777	0	%100
28	M44A	Y	-8.777	-8.777	0	%100
29	M53	Y	-8.777	-8.777	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-9.234	-9.234	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-9.234	-9.234	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-3.646	-3.646	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-3.646	-3.646	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-3.646	-3.646	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-3.646	-3.646	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-1.606	-1.606	0	%100
23	M22	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
24	M22	Z	-1.606	-1.606	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.606	-1.606	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.606	-1.606	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-2.079	-2.079	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-2.079	-2.079	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-2.079	-2.079	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-2.079	-2.079	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-7.628	-7.628	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-7.628	-7.628	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-7.628	-7.628	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-7.628	-7.628	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-2.007	-2.007	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-2.007	-2.007	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-2.007	-2.007	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-2.007	-2.007	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.93	-.93	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.93	-.93	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-6.833	-6.833	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.463	3.463	0	%100
2	M1	Z	-5.998	-5.998	0	%100
3	M2	X	3.463	3.463	0	%100
4	M2	Z	-5.998	-5.998	0	%100
5	M13	X	.251	.251	0	%100
6	M13	Z	-.435	-.435	0	%100
7	M14	X	.251	.251	0	%100
8	M14	Z	-.435	-.435	0	%100
9	M15	X	.251	.251	0	%100
10	M15	Z	-.435	-.435	0	%100
11	M16	X	.251	.251	0	%100
12	M16	Z	-.435	-.435	0	%100
13	M17	X	.41	.41	0	%100
14	M17	Z	-.711	-.711	0	%100
15	M18	X	.41	.41	0	%100
16	M18	Z	-.711	-.711	0	%100
17	M19	X	2.883	2.883	0	%100
18	M19	Z	-4.993	-4.993	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
19	M20	X	2.883	2.883	0 %100
20	M20	Z	-4.993	-4.993	0 %100
21	M21	X	.602	.602	0 %100
22	M21	Z	-1.043	-1.043	0 %100
23	M22	X	.602	.602	0 %100
24	M22	Z	-1.043	-1.043	0 %100
25	M23	X	.602	.602	0 %100
26	M23	Z	-1.043	-1.043	0 %100
27	M24	X	.602	.602	0 %100
28	M24	Z	-1.043	-1.043	0 %100
29	M25	X	.831	.831	0 %100
30	M25	Z	-1.44	-1.44	0 %100
31	M26	X	.831	.831	0 %100
32	M26	Z	-1.44	-1.44	0 %100
33	M27	X	1.196	1.196	0 %100
34	M27	Z	-2.071	-2.071	0 %100
35	M28	X	1.196	1.196	0 %100
36	M28	Z	-2.071	-2.071	0 %100
37	MP4A	X	3.814	3.814	0 %100
38	MP4A	Z	-6.606	-6.606	0 %100
39	MP3A	X	3.814	3.814	0 %100
40	MP3A	Z	-6.606	-6.606	0 %100
41	MP2A	X	3.814	3.814	0 %100
42	MP2A	Z	-6.606	-6.606	0 %100
43	MP1A	X	3.814	3.814	0 %100
44	MP1A	Z	-6.606	-6.606	0 %100
45	M44	X	1.004	1.004	0 %100
46	M44	Z	-1.739	-1.739	0 %100
47	M45	X	1.004	1.004	0 %100
48	M45	Z	-1.739	-1.739	0 %100
49	M46	X	1.004	1.004	0 %100
50	M46	Z	-1.739	-1.739	0 %100
51	M47	X	1.004	1.004	0 %100
52	M47	Z	-1.739	-1.739	0 %100
53	M43	X	.105	.105	0 %100
54	M43	Z	-.182	-.182	0 %100
55	M44A	X	2.267	2.267	0 %100
56	M44A	Z	-3.926	-3.926	0 %100
57	M53	X	3.416	3.416	0 %100
58	M53	Z	-5.917	-5.917	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	1.999	1.999	0 %100
2	M1	Z	-1.154	-1.154	0 %100
3	M2	X	1.999	1.999	0 %100
4	M2	Z	-1.154	-1.154	0 %100
5	M13	X	1.304	1.304	0 %100
6	M13	Z	-.753	-.753	0 %100
7	M14	X	1.304	1.304	0 %100
8	M14	Z	-.753	-.753	0 %100
9	M15	X	1.304	1.304	0 %100
10	M15	Z	-.753	-.753	0 %100
11	M16	X	1.304	1.304	0 %100
12	M16	Z	-.753	-.753	0 %100
13	M17	X	.1	.1	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
14	M17	Z	-.058	-.058	0	%100
15	M18	X	.1	.1	0	%100
16	M18	Z	-.058	-.058	0	%100
17	M19	X	4.383	4.383	0	%100
18	M19	Z	-2.53	-2.53	0	%100
19	M20	X	4.383	4.383	0	%100
20	M20	Z	-2.53	-2.53	0	%100
21	M21	X	.348	.348	0	%100
22	M21	Z	-.201	-.201	0	%100
23	M22	X	.348	.348	0	%100
24	M22	Z	-.201	-.201	0	%100
25	M23	X	.348	.348	0	%100
26	M23	Z	-.201	-.201	0	%100
27	M24	X	.348	.348	0	%100
28	M24	Z	-.201	-.201	0	%100
29	M25	X	1.35	1.35	0	%100
30	M25	Z	-.779	-.779	0	%100
31	M26	X	1.35	1.35	0	%100
32	M26	Z	-.779	-.779	0	%100
33	M27	X	1.981	1.981	0	%100
34	M27	Z	-1.144	-1.144	0	%100
35	M28	X	1.981	1.981	0	%100
36	M28	Z	-1.144	-1.144	0	%100
37	MP4A	X	6.606	6.606	0	%100
38	MP4A	Z	-3.814	-3.814	0	%100
39	MP3A	X	6.606	6.606	0	%100
40	MP3A	Z	-3.814	-3.814	0	%100
41	MP2A	X	6.606	6.606	0	%100
42	MP2A	Z	-3.814	-3.814	0	%100
43	MP1A	X	6.606	6.606	0	%100
44	MP1A	Z	-3.814	-3.814	0	%100
45	M44	X	1.739	1.739	0	%100
46	M44	Z	-1.004	-1.004	0	%100
47	M45	X	1.739	1.739	0	%100
48	M45	Z	-1.004	-1.004	0	%100
49	M46	X	1.739	1.739	0	%100
50	M46	Z	-1.004	-1.004	0	%100
51	M47	X	1.739	1.739	0	%100
52	M47	Z	-1.004	-1.004	0	%100
53	M43	X	2.68	2.68	0	%100
54	M43	Z	-1.548	-1.548	0	%100
55	M44A	X	6.424	6.424	0	%100
56	M44A	Z	-3.709	-3.709	0	%100
57	M53	X	5.917	5.917	0	%100
58	M53	Z	-3.416	-3.416	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	2.007	2.007	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	2.007	2.007	0	%100
8	M14	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
9	M15	X	2.007	2.007	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	2.007	2.007	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	2.236	2.236	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	2.236	2.236	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	2.236	2.236	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	2.236	2.236	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.871	1.871	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.871	1.871	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.871	1.871	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.871	1.871	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	7.628	7.628	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	7.628	7.628	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	7.628	7.628	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	7.628	7.628	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	2.007	2.007	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	2.007	2.007	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	2.007	2.007	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	2.007	2.007	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	6.699	6.699	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	6.699	6.699	0	%100
56	M44A	Z	0	0	0	%100
57	M53	X	6.833	6.833	0	%100
58	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.999	1.999	0	%100
2	M1	Z	1.154	1.154	0	%100
3	M2	X	1.999	1.999	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
4	M2	Z	1.154	1.154	0 %100
5	M13	X	1.304	1.304	0 %100
6	M13	Z	.753	.753	0 %100
7	M14	X	1.304	1.304	0 %100
8	M14	Z	.753	.753	0 %100
9	M15	X	1.304	1.304	0 %100
10	M15	Z	.753	.753	0 %100
11	M16	X	1.304	1.304	0 %100
12	M16	Z	.753	.753	0 %100
13	M17	X	4.383	4.383	0 %100
14	M17	Z	2.53	2.53	0 %100
15	M18	X	4.383	4.383	0 %100
16	M18	Z	2.53	2.53	0 %100
17	M19	X	.1	.1	0 %100
18	M19	Z	.058	.058	0 %100
19	M20	X	.1	.1	0 %100
20	M20	Z	.058	.058	0 %100
21	M21	X	.348	.348	0 %100
22	M21	Z	.201	.201	0 %100
23	M22	X	.348	.348	0 %100
24	M22	Z	.201	.201	0 %100
25	M23	X	.348	.348	0 %100
26	M23	Z	.201	.201	0 %100
27	M24	X	.348	.348	0 %100
28	M24	Z	.201	.201	0 %100
29	M25	X	1.981	1.981	0 %100
30	M25	Z	1.144	1.144	0 %100
31	M26	X	1.981	1.981	0 %100
32	M26	Z	1.144	1.144	0 %100
33	M27	X	1.35	1.35	0 %100
34	M27	Z	.779	.779	0 %100
35	M28	X	1.35	1.35	0 %100
36	M28	Z	.779	.779	0 %100
37	MP4A	X	6.606	6.606	0 %100
38	MP4A	Z	3.814	3.814	0 %100
39	MP3A	X	6.606	6.606	0 %100
40	MP3A	Z	3.814	3.814	0 %100
41	MP2A	X	6.606	6.606	0 %100
42	MP2A	Z	3.814	3.814	0 %100
43	MP1A	X	6.606	6.606	0 %100
44	MP1A	Z	3.814	3.814	0 %100
45	M44	X	1.739	1.739	0 %100
46	M44	Z	1.004	1.004	0 %100
47	M45	X	1.739	1.739	0 %100
48	M45	Z	1.004	1.004	0 %100
49	M46	X	1.739	1.739	0 %100
50	M46	Z	1.004	1.004	0 %100
51	M47	X	1.739	1.739	0 %100
52	M47	Z	1.004	1.004	0 %100
53	M43	X	6.424	6.424	0 %100
54	M43	Z	3.709	3.709	0 %100
55	M44A	X	2.68	2.68	0 %100
56	M44A	Z	1.548	1.548	0 %100
57	M53	X	5.917	5.917	0 %100
58	M53	Z	3.416	3.416	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	3.463	3.463	0 %100
2	M1	Z	5.998	5.998	0 %100
3	M2	X	3.463	3.463	0 %100
4	M2	Z	5.998	5.998	0 %100
5	M13	X	.251	.251	0 %100
6	M13	Z	.435	.435	0 %100
7	M14	X	.251	.251	0 %100
8	M14	Z	.435	.435	0 %100
9	M15	X	.251	.251	0 %100
10	M15	Z	.435	.435	0 %100
11	M16	X	.251	.251	0 %100
12	M16	Z	.435	.435	0 %100
13	M17	X	2.883	2.883	0 %100
14	M17	Z	4.993	4.993	0 %100
15	M18	X	2.883	2.883	0 %100
16	M18	Z	4.993	4.993	0 %100
17	M19	X	.41	.41	0 %100
18	M19	Z	.711	.711	0 %100
19	M20	X	.41	.41	0 %100
20	M20	Z	.711	.711	0 %100
21	M21	X	.602	.602	0 %100
22	M21	Z	1.043	1.043	0 %100
23	M22	X	.602	.602	0 %100
24	M22	Z	1.043	1.043	0 %100
25	M23	X	.602	.602	0 %100
26	M23	Z	1.043	1.043	0 %100
27	M24	X	.602	.602	0 %100
28	M24	Z	1.043	1.043	0 %100
29	M25	X	1.196	1.196	0 %100
30	M25	Z	2.071	2.071	0 %100
31	M26	X	1.196	1.196	0 %100
32	M26	Z	2.071	2.071	0 %100
33	M27	X	.831	.831	0 %100
34	M27	Z	1.44	1.44	0 %100
35	M28	X	.831	.831	0 %100
36	M28	Z	1.44	1.44	0 %100
37	MP4A	X	3.814	3.814	0 %100
38	MP4A	Z	6.606	6.606	0 %100
39	MP3A	X	3.814	3.814	0 %100
40	MP3A	Z	6.606	6.606	0 %100
41	MP2A	X	3.814	3.814	0 %100
42	MP2A	Z	6.606	6.606	0 %100
43	MP1A	X	3.814	3.814	0 %100
44	MP1A	Z	6.606	6.606	0 %100
45	M44	X	1.004	1.004	0 %100
46	M44	Z	1.739	1.739	0 %100
47	M45	X	1.004	1.004	0 %100
48	M45	Z	1.739	1.739	0 %100
49	M46	X	1.004	1.004	0 %100
50	M46	Z	1.739	1.739	0 %100
51	M47	X	1.004	1.004	0 %100
52	M47	Z	1.739	1.739	0 %100
53	M43	X	2.267	2.267	0 %100
54	M43	Z	3.926	3.926	0 %100
55	M44A	X	.105	.105	0 %100
56	M44A	Z	.182	.182	0 %100
57	M53	X	3.416	3.416	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	5.917	5.917	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	9.234	9.234	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	9.234	9.234	0 %100
5	M13	X	0	0	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	0	0	0 %100
8	M14	Z	0	0	0 %100
9	M15	X	0	0	0 %100
10	M15	Z	0	0	0 %100
11	M16	X	0	0	0 %100
12	M16	Z	0	0	0 %100
13	M17	X	0	0	0 %100
14	M17	Z	3.646	3.646	0 %100
15	M18	X	0	0	0 %100
16	M18	Z	3.646	3.646	0 %100
17	M19	X	0	0	0 %100
18	M19	Z	3.646	3.646	0 %100
19	M20	X	0	0	0 %100
20	M20	Z	3.646	3.646	0 %100
21	M21	X	0	0	0 %100
22	M21	Z	1.606	1.606	0 %100
23	M22	X	0	0	0 %100
24	M22	Z	1.606	1.606	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	1.606	1.606	0 %100
27	M24	X	0	0	0 %100
28	M24	Z	1.606	1.606	0 %100
29	M25	X	0	0	0 %100
30	M25	Z	2.079	2.079	0 %100
31	M26	X	0	0	0 %100
32	M26	Z	2.079	2.079	0 %100
33	M27	X	0	0	0 %100
34	M27	Z	2.079	2.079	0 %100
35	M28	X	0	0	0 %100
36	M28	Z	2.079	2.079	0 %100
37	MP4A	X	0	0	0 %100
38	MP4A	Z	7.628	7.628	0 %100
39	MP3A	X	0	0	0 %100
40	MP3A	Z	7.628	7.628	0 %100
41	MP2A	X	0	0	0 %100
42	MP2A	Z	7.628	7.628	0 %100
43	MP1A	X	0	0	0 %100
44	MP1A	Z	7.628	7.628	0 %100
45	M44	X	0	0	0 %100
46	M44	Z	2.007	2.007	0 %100
47	M45	X	0	0	0 %100
48	M45	Z	2.007	2.007	0 %100
49	M46	X	0	0	0 %100
50	M46	Z	2.007	2.007	0 %100
51	M47	X	0	0	0 %100
52	M47	Z	2.007	2.007	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
53	M43	X	0	0	0	%100
54	M43	Z	.93	.93	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.93	.93	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	6.833	6.833	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-3.463	-3.463	0	%100
2	M1	Z	5.998	5.998	0	%100
3	M2	X	-3.463	-3.463	0	%100
4	M2	Z	5.998	5.998	0	%100
5	M13	X	-.251	-.251	0	%100
6	M13	Z	.435	.435	0	%100
7	M14	X	-.251	-.251	0	%100
8	M14	Z	.435	.435	0	%100
9	M15	X	-.251	-.251	0	%100
10	M15	Z	.435	.435	0	%100
11	M16	X	-.251	-.251	0	%100
12	M16	Z	.435	.435	0	%100
13	M17	X	-.41	-.41	0	%100
14	M17	Z	.711	.711	0	%100
15	M18	X	-.41	-.41	0	%100
16	M18	Z	.711	.711	0	%100
17	M19	X	-2.883	-2.883	0	%100
18	M19	Z	4.993	4.993	0	%100
19	M20	X	-2.883	-2.883	0	%100
20	M20	Z	4.993	4.993	0	%100
21	M21	X	-.602	-.602	0	%100
22	M21	Z	1.043	1.043	0	%100
23	M22	X	-.602	-.602	0	%100
24	M22	Z	1.043	1.043	0	%100
25	M23	X	-.602	-.602	0	%100
26	M23	Z	1.043	1.043	0	%100
27	M24	X	-.602	-.602	0	%100
28	M24	Z	1.043	1.043	0	%100
29	M25	X	-.831	-.831	0	%100
30	M25	Z	1.44	1.44	0	%100
31	M26	X	-.831	-.831	0	%100
32	M26	Z	1.44	1.44	0	%100
33	M27	X	-1.196	-1.196	0	%100
34	M27	Z	2.071	2.071	0	%100
35	M28	X	-1.196	-1.196	0	%100
36	M28	Z	2.071	2.071	0	%100
37	MP4A	X	-3.814	-3.814	0	%100
38	MP4A	Z	6.606	6.606	0	%100
39	MP3A	X	-3.814	-3.814	0	%100
40	MP3A	Z	6.606	6.606	0	%100
41	MP2A	X	-3.814	-3.814	0	%100
42	MP2A	Z	6.606	6.606	0	%100
43	MP1A	X	-3.814	-3.814	0	%100
44	MP1A	Z	6.606	6.606	0	%100
45	M44	X	-1.004	-1.004	0	%100
46	M44	Z	1.739	1.739	0	%100
47	M45	X	-1.004	-1.004	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	1.739	1.739	0	%100
49	M46	X	-1.004	-1.004	0	%100
50	M46	Z	1.739	1.739	0	%100
51	M47	X	-1.004	-1.004	0	%100
52	M47	Z	1.739	1.739	0	%100
53	M43	X	-.105	-.105	0	%100
54	M43	Z	.182	.182	0	%100
55	M44A	X	-2.267	-2.267	0	%100
56	M44A	Z	3.926	3.926	0	%100
57	M53	X	-3.416	-3.416	0	%100
58	M53	Z	5.917	5.917	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.999	-1.999	0	%100
2	M1	Z	1.154	1.154	0	%100
3	M2	X	-1.999	-1.999	0	%100
4	M2	Z	1.154	1.154	0	%100
5	M13	X	-1.304	-1.304	0	%100
6	M13	Z	.753	.753	0	%100
7	M14	X	-1.304	-1.304	0	%100
8	M14	Z	.753	.753	0	%100
9	M15	X	-1.304	-1.304	0	%100
10	M15	Z	.753	.753	0	%100
11	M16	X	-1.304	-1.304	0	%100
12	M16	Z	.753	.753	0	%100
13	M17	X	-.1	-.1	0	%100
14	M17	Z	.058	.058	0	%100
15	M18	X	-.1	-.1	0	%100
16	M18	Z	.058	.058	0	%100
17	M19	X	-4.383	-4.383	0	%100
18	M19	Z	2.53	2.53	0	%100
19	M20	X	-4.383	-4.383	0	%100
20	M20	Z	2.53	2.53	0	%100
21	M21	X	-.348	-.348	0	%100
22	M21	Z	.201	.201	0	%100
23	M22	X	-.348	-.348	0	%100
24	M22	Z	.201	.201	0	%100
25	M23	X	-.348	-.348	0	%100
26	M23	Z	.201	.201	0	%100
27	M24	X	-.348	-.348	0	%100
28	M24	Z	.201	.201	0	%100
29	M25	X	-1.35	-1.35	0	%100
30	M25	Z	.779	.779	0	%100
31	M26	X	-1.35	-1.35	0	%100
32	M26	Z	.779	.779	0	%100
33	M27	X	-1.981	-1.981	0	%100
34	M27	Z	1.144	1.144	0	%100
35	M28	X	-1.981	-1.981	0	%100
36	M28	Z	1.144	1.144	0	%100
37	MP4A	X	-6.606	-6.606	0	%100
38	MP4A	Z	3.814	3.814	0	%100
39	MP3A	X	-6.606	-6.606	0	%100
40	MP3A	Z	3.814	3.814	0	%100
41	MP2A	X	-6.606	-6.606	0	%100
42	MP2A	Z	3.814	3.814	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
43	MP1A	X	-6.606	-6.606	0 %100
44	MP1A	Z	3.814	3.814	0 %100
45	M44	X	-1.739	-1.739	0 %100
46	M44	Z	1.004	1.004	0 %100
47	M45	X	-1.739	-1.739	0 %100
48	M45	Z	1.004	1.004	0 %100
49	M46	X	-1.739	-1.739	0 %100
50	M46	Z	1.004	1.004	0 %100
51	M47	X	-1.739	-1.739	0 %100
52	M47	Z	1.004	1.004	0 %100
53	M43	X	-2.68	-2.68	0 %100
54	M43	Z	1.548	1.548	0 %100
55	M44A	X	-6.424	-6.424	0 %100
56	M44A	Z	3.709	3.709	0 %100
57	M53	X	-5.917	-5.917	0 %100
58	M53	Z	3.416	3.416	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	0	0	0 %100
5	M13	X	-2.007	-2.007	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	-2.007	-2.007	0 %100
8	M14	Z	0	0	0 %100
9	M15	X	-2.007	-2.007	0 %100
10	M15	Z	0	0	0 %100
11	M16	X	-2.007	-2.007	0 %100
12	M16	Z	0	0	0 %100
13	M17	X	-2.236	-2.236	0 %100
14	M17	Z	0	0	0 %100
15	M18	X	-2.236	-2.236	0 %100
16	M18	Z	0	0	0 %100
17	M19	X	-2.236	-2.236	0 %100
18	M19	Z	0	0	0 %100
19	M20	X	-2.236	-2.236	0 %100
20	M20	Z	0	0	0 %100
21	M21	X	0	0	0 %100
22	M21	Z	0	0	0 %100
23	M22	X	0	0	0 %100
24	M22	Z	0	0	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	0	0	0 %100
27	M24	X	0	0	0 %100
28	M24	Z	0	0	0 %100
29	M25	X	-1.871	-1.871	0 %100
30	M25	Z	0	0	0 %100
31	M26	X	-1.871	-1.871	0 %100
32	M26	Z	0	0	0 %100
33	M27	X	-1.871	-1.871	0 %100
34	M27	Z	0	0	0 %100
35	M28	X	-1.871	-1.871	0 %100
36	M28	Z	0	0	0 %100
37	MP4A	X	-7.628	-7.628	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-7.628	-7.628	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-7.628	-7.628	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-7.628	-7.628	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-2.007	-2.007	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-2.007	-2.007	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-2.007	-2.007	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-2.007	-2.007	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-6.699	-6.699	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-6.699	-6.699	0	%100
56	M44A	Z	0	0	0	%100
57	M53	X	-6.833	-6.833	0	%100
58	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.999	-1.999	0	%100
2	M1	Z	-1.154	-1.154	0	%100
3	M2	X	-1.999	-1.999	0	%100
4	M2	Z	-1.154	-1.154	0	%100
5	M13	X	-1.304	-1.304	0	%100
6	M13	Z	-.753	-.753	0	%100
7	M14	X	-1.304	-1.304	0	%100
8	M14	Z	-.753	-.753	0	%100
9	M15	X	-1.304	-1.304	0	%100
10	M15	Z	-.753	-.753	0	%100
11	M16	X	-1.304	-1.304	0	%100
12	M16	Z	-.753	-.753	0	%100
13	M17	X	-4.383	-4.383	0	%100
14	M17	Z	-2.53	-2.53	0	%100
15	M18	X	-4.383	-4.383	0	%100
16	M18	Z	-2.53	-2.53	0	%100
17	M19	X	-.1	-.1	0	%100
18	M19	Z	-.058	-.058	0	%100
19	M20	X	-.1	-.1	0	%100
20	M20	Z	-.058	-.058	0	%100
21	M21	X	-.348	-.348	0	%100
22	M21	Z	-.201	-.201	0	%100
23	M22	X	-.348	-.348	0	%100
24	M22	Z	-.201	-.201	0	%100
25	M23	X	-.348	-.348	0	%100
26	M23	Z	-.201	-.201	0	%100
27	M24	X	-.348	-.348	0	%100
28	M24	Z	-.201	-.201	0	%100
29	M25	X	-1.981	-1.981	0	%100
30	M25	Z	-1.144	-1.144	0	%100
31	M26	X	-1.981	-1.981	0	%100
32	M26	Z	-1.144	-1.144	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
33	M27	X	-1.35	-1.35	0 %100
34	M27	Z	-0.779	-0.779	0 %100
35	M28	X	-1.35	-1.35	0 %100
36	M28	Z	-0.779	-0.779	0 %100
37	MP4A	X	-6.606	-6.606	0 %100
38	MP4A	Z	-3.814	-3.814	0 %100
39	MP3A	X	-6.606	-6.606	0 %100
40	MP3A	Z	-3.814	-3.814	0 %100
41	MP2A	X	-6.606	-6.606	0 %100
42	MP2A	Z	-3.814	-3.814	0 %100
43	MP1A	X	-6.606	-6.606	0 %100
44	MP1A	Z	-3.814	-3.814	0 %100
45	M44	X	-1.739	-1.739	0 %100
46	M44	Z	-1.004	-1.004	0 %100
47	M45	X	-1.739	-1.739	0 %100
48	M45	Z	-1.004	-1.004	0 %100
49	M46	X	-1.739	-1.739	0 %100
50	M46	Z	-1.004	-1.004	0 %100
51	M47	X	-1.739	-1.739	0 %100
52	M47	Z	-1.004	-1.004	0 %100
53	M43	X	-6.424	-6.424	0 %100
54	M43	Z	-3.709	-3.709	0 %100
55	M44A	X	-2.68	-2.68	0 %100
56	M44A	Z	-1.548	-1.548	0 %100
57	M53	X	-5.917	-5.917	0 %100
58	M53	Z	-3.416	-3.416	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-3.463	-3.463	0 %100
2	M1	Z	-5.998	-5.998	0 %100
3	M2	X	-3.463	-3.463	0 %100
4	M2	Z	-5.998	-5.998	0 %100
5	M13	X	-0.251	-0.251	0 %100
6	M13	Z	-0.435	-0.435	0 %100
7	M14	X	-0.251	-0.251	0 %100
8	M14	Z	-0.435	-0.435	0 %100
9	M15	X	-0.251	-0.251	0 %100
10	M15	Z	-0.435	-0.435	0 %100
11	M16	X	-0.251	-0.251	0 %100
12	M16	Z	-0.435	-0.435	0 %100
13	M17	X	-2.883	-2.883	0 %100
14	M17	Z	-4.993	-4.993	0 %100
15	M18	X	-2.883	-2.883	0 %100
16	M18	Z	-4.993	-4.993	0 %100
17	M19	X	-0.41	-0.41	0 %100
18	M19	Z	-0.711	-0.711	0 %100
19	M20	X	-0.41	-0.41	0 %100
20	M20	Z	-0.711	-0.711	0 %100
21	M21	X	-0.602	-0.602	0 %100
22	M21	Z	-1.043	-1.043	0 %100
23	M22	X	-0.602	-0.602	0 %100
24	M22	Z	-1.043	-1.043	0 %100
25	M23	X	-0.602	-0.602	0 %100
26	M23	Z	-1.043	-1.043	0 %100
27	M24	X	-0.602	-0.602	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
28	M24	Z	-1.043	-1.043	0 %100
29	M25	X	-1.196	-1.196	0 %100
30	M25	Z	-2.071	-2.071	0 %100
31	M26	X	-1.196	-1.196	0 %100
32	M26	Z	-2.071	-2.071	0 %100
33	M27	X	-.831	-.831	0 %100
34	M27	Z	-1.44	-1.44	0 %100
35	M28	X	-.831	-.831	0 %100
36	M28	Z	-1.44	-1.44	0 %100
37	MP4A	X	-3.814	-3.814	0 %100
38	MP4A	Z	-6.606	-6.606	0 %100
39	MP3A	X	-3.814	-3.814	0 %100
40	MP3A	Z	-6.606	-6.606	0 %100
41	MP2A	X	-3.814	-3.814	0 %100
42	MP2A	Z	-6.606	-6.606	0 %100
43	MP1A	X	-3.814	-3.814	0 %100
44	MP1A	Z	-6.606	-6.606	0 %100
45	M44	X	-1.004	-1.004	0 %100
46	M44	Z	-1.739	-1.739	0 %100
47	M45	X	-1.004	-1.004	0 %100
48	M45	Z	-1.739	-1.739	0 %100
49	M46	X	-1.004	-1.004	0 %100
50	M46	Z	-1.739	-1.739	0 %100
51	M47	X	-1.004	-1.004	0 %100
52	M47	Z	-1.739	-1.739	0 %100
53	M43	X	-2.267	-2.267	0 %100
54	M43	Z	-3.926	-3.926	0 %100
55	M44A	X	-.105	-.105	0 %100
56	M44A	Z	-.182	-.182	0 %100
57	M53	X	-3.416	-3.416	0 %100
58	M53	Z	-5.917	-5.917	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	-3.74	-3.74	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	-3.74	-3.74	0 %100
5	M13	X	0	0	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	0	0	0 %100
8	M14	Z	0	0	0 %100
9	M15	X	0	0	0 %100
10	M15	Z	0	0	0 %100
11	M16	X	0	0	0 %100
12	M16	Z	0	0	0 %100
13	M17	X	0	0	0 %100
14	M17	Z	-1.552	-1.552	0 %100
15	M18	X	0	0	0 %100
16	M18	Z	-1.552	-1.552	0 %100
17	M19	X	0	0	0 %100
18	M19	Z	-1.552	-1.552	0 %100
19	M20	X	0	0	0 %100
20	M20	Z	-1.552	-1.552	0 %100
21	M21	X	0	0	0 %100
22	M21	Z	-1.49	-1.49	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
23	M22	X	0	0	%100	
24	M22	Z	-1.49	-1.49	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-1.49	-1.49	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-1.49	-1.49	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-1.8	-1.8	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-1.8	-1.8	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-1.8	-1.8	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-1.8	-1.8	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-3.28	-3.28	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-3.28	-3.28	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-3.28	-3.28	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-3.28	-3.28	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-1.904	-1.904	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-1.904	-1.904	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-1.904	-1.904	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-1.904	-1.904	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-.418	-.418	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-.418	-.418	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-2.852	-2.852	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
1	M1	X	1.402	1.402	0	%100
2	M1	Z	-2.429	-2.429	0	%100
3	M2	X	1.402	1.402	0	%100
4	M2	Z	-2.429	-2.429	0	%100
5	M13	X	.195	.195	0	%100
6	M13	Z	-.338	-.338	0	%100
7	M14	X	.195	.195	0	%100
8	M14	Z	-.338	-.338	0	%100
9	M15	X	.195	.195	0	%100
10	M15	Z	-.338	-.338	0	%100
11	M16	X	.195	.195	0	%100
12	M16	Z	-.338	-.338	0	%100
13	M17	X	.175	.175	0	%100
14	M17	Z	-.303	-.303	0	%100
15	M18	X	.175	.175	0	%100
16	M18	Z	-.303	-.303	0	%100
17	M19	X	1.227	1.227	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
18	M19	Z	-2.126	-2.126	0 %100
19	M20	X	1.227	1.227	0 %100
20	M20	Z	-2.126	-2.126	0 %100
21	M21	X	.559	.559	0 %100
22	M21	Z	-.968	-.968	0 %100
23	M22	X	.559	.559	0 %100
24	M22	Z	-.968	-.968	0 %100
25	M23	X	.559	.559	0 %100
26	M23	Z	-.968	-.968	0 %100
27	M24	X	.559	.559	0 %100
28	M24	Z	-.968	-.968	0 %100
29	M25	X	.72	.72	0 %100
30	M25	Z	-1.247	-1.247	0 %100
31	M26	X	.72	.72	0 %100
32	M26	Z	-1.247	-1.247	0 %100
33	M27	X	1.036	1.036	0 %100
34	M27	Z	-1.794	-1.794	0 %100
35	M28	X	1.036	1.036	0 %100
36	M28	Z	-1.794	-1.794	0 %100
37	MP4A	X	1.64	1.64	0 %100
38	MP4A	Z	-2.841	-2.841	0 %100
39	MP3A	X	1.64	1.64	0 %100
40	MP3A	Z	-2.841	-2.841	0 %100
41	MP2A	X	1.64	1.64	0 %100
42	MP2A	Z	-2.841	-2.841	0 %100
43	MP1A	X	1.64	1.64	0 %100
44	MP1A	Z	-2.841	-2.841	0 %100
45	M44	X	.952	.952	0 %100
46	M44	Z	-1.649	-1.649	0 %100
47	M45	X	.952	.952	0 %100
48	M45	Z	-1.649	-1.649	0 %100
49	M46	X	.952	.952	0 %100
50	M46	Z	-1.649	-1.649	0 %100
51	M47	X	.952	.952	0 %100
52	M47	Z	-1.649	-1.649	0 %100
53	M43	X	.047	.047	0 %100
54	M43	Z	-.082	-.082	0 %100
55	M44A	X	1.02	1.02	0 %100
56	M44A	Z	-1.766	-1.766	0 %100
57	M53	X	1.426	1.426	0 %100
58	M53	Z	-2.47	-2.47	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.81	.81	0 %100
2	M1	Z	-.467	-.467	0 %100
3	M2	X	.81	.81	0 %100
4	M2	Z	-.467	-.467	0 %100
5	M13	X	1.015	1.015	0 %100
6	M13	Z	-.586	-.586	0 %100
7	M14	X	1.015	1.015	0 %100
8	M14	Z	-.586	-.586	0 %100
9	M15	X	1.015	1.015	0 %100
10	M15	Z	-.586	-.586	0 %100
11	M16	X	1.015	1.015	0 %100
12	M16	Z	-.586	-.586	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
13	M17	X	.043	.043	0 %100
14	M17	Z	-.025	-.025	0 %100
15	M18	X	.043	.043	0 %100
16	M18	Z	-.025	-.025	0 %100
17	M19	X	1.866	1.866	0 %100
18	M19	Z	-1.077	-1.077	0 %100
19	M20	X	1.866	1.866	0 %100
20	M20	Z	-1.077	-1.077	0 %100
21	M21	X	.323	.323	0 %100
22	M21	Z	-.186	-.186	0 %100
23	M22	X	.323	.323	0 %100
24	M22	Z	-.186	-.186	0 %100
25	M23	X	.323	.323	0 %100
26	M23	Z	-.186	-.186	0 %100
27	M24	X	.323	.323	0 %100
28	M24	Z	-.186	-.186	0 %100
29	M25	X	1.169	1.169	0 %100
30	M25	Z	-.675	-.675	0 %100
31	M26	X	1.169	1.169	0 %100
32	M26	Z	-.675	-.675	0 %100
33	M27	X	1.716	1.716	0 %100
34	M27	Z	-.991	-.991	0 %100
35	M28	X	1.716	1.716	0 %100
36	M28	Z	-.991	-.991	0 %100
37	MP4A	X	2.841	2.841	0 %100
38	MP4A	Z	-1.64	-1.64	0 %100
39	MP3A	X	2.841	2.841	0 %100
40	MP3A	Z	-1.64	-1.64	0 %100
41	MP2A	X	2.841	2.841	0 %100
42	MP2A	Z	-1.64	-1.64	0 %100
43	MP1A	X	2.841	2.841	0 %100
44	MP1A	Z	-1.64	-1.64	0 %100
45	M44	X	1.649	1.649	0 %100
46	M44	Z	-.952	-.952	0 %100
47	M45	X	1.649	1.649	0 %100
48	M45	Z	-.952	-.952	0 %100
49	M46	X	1.649	1.649	0 %100
50	M46	Z	-.952	-.952	0 %100
51	M47	X	1.649	1.649	0 %100
52	M47	Z	-.952	-.952	0 %100
53	M43	X	1.206	1.206	0 %100
54	M43	Z	-.696	-.696	0 %100
55	M44A	X	2.89	2.89	0 %100
56	M44A	Z	-1.669	-1.669	0 %100
57	M53	X	2.47	2.47	0 %100
58	M53	Z	-1.426	-1.426	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	0	0	0 %100
5	M13	X	1.563	1.563	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	1.563	1.563	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
8	M14	Z	0	0	0	%100
9	M15	X	1.563	1.563	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	1.563	1.563	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	.952	.952	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	.952	.952	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	.952	.952	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	.952	.952	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	1.62	1.62	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	1.62	1.62	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	1.62	1.62	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	1.62	1.62	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	3.28	3.28	0	%100
38	MP4A	Z	0	0	0	%100
39	MP3A	X	3.28	3.28	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	3.28	3.28	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	3.28	3.28	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	1.904	1.904	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	1.904	1.904	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	1.904	1.904	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	1.904	1.904	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	3.014	3.014	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	3.014	3.014	0	%100
56	M44A	Z	0	0	0	%100
57	M53	X	2.852	2.852	0	%100
58	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.81	.81	0	%100
2	M1	Z	.467	.467	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	.81	.81	0 %100
4	M2	Z	.467	.467	0 %100
5	M13	X	1.015	1.015	0 %100
6	M13	Z	.586	.586	0 %100
7	M14	X	1.015	1.015	0 %100
8	M14	Z	.586	.586	0 %100
9	M15	X	1.015	1.015	0 %100
10	M15	Z	.586	.586	0 %100
11	M16	X	1.015	1.015	0 %100
12	M16	Z	.586	.586	0 %100
13	M17	X	1.866	1.866	0 %100
14	M17	Z	1.077	1.077	0 %100
15	M18	X	1.866	1.866	0 %100
16	M18	Z	1.077	1.077	0 %100
17	M19	X	.043	.043	0 %100
18	M19	Z	.025	.025	0 %100
19	M20	X	.043	.043	0 %100
20	M20	Z	.025	.025	0 %100
21	M21	X	.323	.323	0 %100
22	M21	Z	.186	.186	0 %100
23	M22	X	.323	.323	0 %100
24	M22	Z	.186	.186	0 %100
25	M23	X	.323	.323	0 %100
26	M23	Z	.186	.186	0 %100
27	M24	X	.323	.323	0 %100
28	M24	Z	.186	.186	0 %100
29	M25	X	1.716	1.716	0 %100
30	M25	Z	.991	.991	0 %100
31	M26	X	1.716	1.716	0 %100
32	M26	Z	.991	.991	0 %100
33	M27	X	1.169	1.169	0 %100
34	M27	Z	.675	.675	0 %100
35	M28	X	1.169	1.169	0 %100
36	M28	Z	.675	.675	0 %100
37	MP4A	X	2.841	2.841	0 %100
38	MP4A	Z	1.64	1.64	0 %100
39	MP3A	X	2.841	2.841	0 %100
40	MP3A	Z	1.64	1.64	0 %100
41	MP2A	X	2.841	2.841	0 %100
42	MP2A	Z	1.64	1.64	0 %100
43	MP1A	X	2.841	2.841	0 %100
44	MP1A	Z	1.64	1.64	0 %100
45	M44	X	1.649	1.649	0 %100
46	M44	Z	.952	.952	0 %100
47	M45	X	1.649	1.649	0 %100
48	M45	Z	.952	.952	0 %100
49	M46	X	1.649	1.649	0 %100
50	M46	Z	.952	.952	0 %100
51	M47	X	1.649	1.649	0 %100
52	M47	Z	.952	.952	0 %100
53	M43	X	2.89	2.89	0 %100
54	M43	Z	1.669	1.669	0 %100
55	M44A	X	1.206	1.206	0 %100
56	M44A	Z	.696	.696	0 %100
57	M53	X	2.47	2.47	0 %100
58	M53	Z	1.426	1.426	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	1.402	1.402	0 %100
2	M1	Z	2.429	2.429	0 %100
3	M2	X	1.402	1.402	0 %100
4	M2	Z	2.429	2.429	0 %100
5	M13	X	.195	.195	0 %100
6	M13	Z	.338	.338	0 %100
7	M14	X	.195	.195	0 %100
8	M14	Z	.338	.338	0 %100
9	M15	X	.195	.195	0 %100
10	M15	Z	.338	.338	0 %100
11	M16	X	.195	.195	0 %100
12	M16	Z	.338	.338	0 %100
13	M17	X	1.227	1.227	0 %100
14	M17	Z	2.126	2.126	0 %100
15	M18	X	1.227	1.227	0 %100
16	M18	Z	2.126	2.126	0 %100
17	M19	X	.175	.175	0 %100
18	M19	Z	.303	.303	0 %100
19	M20	X	.175	.175	0 %100
20	M20	Z	.303	.303	0 %100
21	M21	X	.559	.559	0 %100
22	M21	Z	.968	.968	0 %100
23	M22	X	.559	.559	0 %100
24	M22	Z	.968	.968	0 %100
25	M23	X	.559	.559	0 %100
26	M23	Z	.968	.968	0 %100
27	M24	X	.559	.559	0 %100
28	M24	Z	.968	.968	0 %100
29	M25	X	1.036	1.036	0 %100
30	M25	Z	1.794	1.794	0 %100
31	M26	X	1.036	1.036	0 %100
32	M26	Z	1.794	1.794	0 %100
33	M27	X	.72	.72	0 %100
34	M27	Z	1.247	1.247	0 %100
35	M28	X	.72	.72	0 %100
36	M28	Z	1.247	1.247	0 %100
37	MP4A	X	1.64	1.64	0 %100
38	MP4A	Z	2.841	2.841	0 %100
39	MP3A	X	1.64	1.64	0 %100
40	MP3A	Z	2.841	2.841	0 %100
41	MP2A	X	1.64	1.64	0 %100
42	MP2A	Z	2.841	2.841	0 %100
43	MP1A	X	1.64	1.64	0 %100
44	MP1A	Z	2.841	2.841	0 %100
45	M44	X	.952	.952	0 %100
46	M44	Z	1.649	1.649	0 %100
47	M45	X	.952	.952	0 %100
48	M45	Z	1.649	1.649	0 %100
49	M46	X	.952	.952	0 %100
50	M46	Z	1.649	1.649	0 %100
51	M47	X	.952	.952	0 %100
52	M47	Z	1.649	1.649	0 %100
53	M43	X	1.02	1.02	0 %100
54	M43	Z	1.766	1.766	0 %100
55	M44A	X	.047	.047	0 %100
56	M44A	Z	.082	.082	0 %100
57	M53	X	1.426	1.426	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	2.47	2.47	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	%100
2	M1	Z	3.74	3.74	0 %100
3	M2	X	0	0	%100
4	M2	Z	3.74	3.74	0 %100
5	M13	X	0	0	%100
6	M13	Z	0	0	%100
7	M14	X	0	0	%100
8	M14	Z	0	0	%100
9	M15	X	0	0	%100
10	M15	Z	0	0	%100
11	M16	X	0	0	%100
12	M16	Z	0	0	%100
13	M17	X	0	0	%100
14	M17	Z	1.552	1.552	0 %100
15	M18	X	0	0	%100
16	M18	Z	1.552	1.552	0 %100
17	M19	X	0	0	%100
18	M19	Z	1.552	1.552	0 %100
19	M20	X	0	0	%100
20	M20	Z	1.552	1.552	0 %100
21	M21	X	0	0	%100
22	M21	Z	1.49	1.49	0 %100
23	M22	X	0	0	%100
24	M22	Z	1.49	1.49	0 %100
25	M23	X	0	0	%100
26	M23	Z	1.49	1.49	0 %100
27	M24	X	0	0	%100
28	M24	Z	1.49	1.49	0 %100
29	M25	X	0	0	%100
30	M25	Z	1.8	1.8	0 %100
31	M26	X	0	0	%100
32	M26	Z	1.8	1.8	0 %100
33	M27	X	0	0	%100
34	M27	Z	1.8	1.8	0 %100
35	M28	X	0	0	%100
36	M28	Z	1.8	1.8	0 %100
37	MP4A	X	0	0	%100
38	MP4A	Z	3.28	3.28	0 %100
39	MP3A	X	0	0	%100
40	MP3A	Z	3.28	3.28	0 %100
41	MP2A	X	0	0	%100
42	MP2A	Z	3.28	3.28	0 %100
43	MP1A	X	0	0	%100
44	MP1A	Z	3.28	3.28	0 %100
45	M44	X	0	0	%100
46	M44	Z	1.904	1.904	0 %100
47	M45	X	0	0	%100
48	M45	Z	1.904	1.904	0 %100
49	M46	X	0	0	%100
50	M46	Z	1.904	1.904	0 %100
51	M47	X	0	0	%100
52	M47	Z	1.904	1.904	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
53	M43	X	0	0	%100	
54	M43	Z	.418	.418	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	.418	.418	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	2.852	2.852	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
1	M1	X	-1.402	-1.402	0	%100
2	M1	Z	2.429	2.429	0	%100
3	M2	X	-1.402	-1.402	0	%100
4	M2	Z	2.429	2.429	0	%100
5	M13	X	-.195	-.195	0	%100
6	M13	Z	.338	.338	0	%100
7	M14	X	-.195	-.195	0	%100
8	M14	Z	.338	.338	0	%100
9	M15	X	-.195	-.195	0	%100
10	M15	Z	.338	.338	0	%100
11	M16	X	-.195	-.195	0	%100
12	M16	Z	.338	.338	0	%100
13	M17	X	-.175	-.175	0	%100
14	M17	Z	.303	.303	0	%100
15	M18	X	-.175	-.175	0	%100
16	M18	Z	.303	.303	0	%100
17	M19	X	-1.227	-1.227	0	%100
18	M19	Z	2.126	2.126	0	%100
19	M20	X	-1.227	-1.227	0	%100
20	M20	Z	2.126	2.126	0	%100
21	M21	X	-.559	-.559	0	%100
22	M21	Z	.968	.968	0	%100
23	M22	X	-.559	-.559	0	%100
24	M22	Z	.968	.968	0	%100
25	M23	X	-.559	-.559	0	%100
26	M23	Z	.968	.968	0	%100
27	M24	X	-.559	-.559	0	%100
28	M24	Z	.968	.968	0	%100
29	M25	X	-.72	-.72	0	%100
30	M25	Z	1.247	1.247	0	%100
31	M26	X	-.72	-.72	0	%100
32	M26	Z	1.247	1.247	0	%100
33	M27	X	-1.036	-1.036	0	%100
34	M27	Z	1.794	1.794	0	%100
35	M28	X	-1.036	-1.036	0	%100
36	M28	Z	1.794	1.794	0	%100
37	MP4A	X	-1.64	-1.64	0	%100
38	MP4A	Z	2.841	2.841	0	%100
39	MP3A	X	-1.64	-1.64	0	%100
40	MP3A	Z	2.841	2.841	0	%100
41	MP2A	X	-1.64	-1.64	0	%100
42	MP2A	Z	2.841	2.841	0	%100
43	MP1A	X	-1.64	-1.64	0	%100
44	MP1A	Z	2.841	2.841	0	%100
45	M44	X	-.952	-.952	0	%100
46	M44	Z	1.649	1.649	0	%100
47	M45	X	-.952	-.952	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	1.649	1.649	0 %100
49	M46	X	-.952	-.952	0 %100
50	M46	Z	1.649	1.649	0 %100
51	M47	X	-.952	-.952	0 %100
52	M47	Z	1.649	1.649	0 %100
53	M43	X	-.047	-.047	0 %100
54	M43	Z	.082	.082	0 %100
55	M44A	X	-1.02	-1.02	0 %100
56	M44A	Z	1.766	1.766	0 %100
57	M53	X	-1.426	-1.426	0 %100
58	M53	Z	2.47	2.47	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.81	-.81	0 %100
2	M1	Z	.467	.467	0 %100
3	M2	X	-.81	-.81	0 %100
4	M2	Z	.467	.467	0 %100
5	M13	X	-1.015	-1.015	0 %100
6	M13	Z	.586	.586	0 %100
7	M14	X	-1.015	-1.015	0 %100
8	M14	Z	.586	.586	0 %100
9	M15	X	-1.015	-1.015	0 %100
10	M15	Z	.586	.586	0 %100
11	M16	X	-1.015	-1.015	0 %100
12	M16	Z	.586	.586	0 %100
13	M17	X	-.043	-.043	0 %100
14	M17	Z	.025	.025	0 %100
15	M18	X	-.043	-.043	0 %100
16	M18	Z	.025	.025	0 %100
17	M19	X	-1.866	-1.866	0 %100
18	M19	Z	1.077	1.077	0 %100
19	M20	X	-1.866	-1.866	0 %100
20	M20	Z	1.077	1.077	0 %100
21	M21	X	-.323	-.323	0 %100
22	M21	Z	.186	.186	0 %100
23	M22	X	-.323	-.323	0 %100
24	M22	Z	.186	.186	0 %100
25	M23	X	-.323	-.323	0 %100
26	M23	Z	.186	.186	0 %100
27	M24	X	-.323	-.323	0 %100
28	M24	Z	.186	.186	0 %100
29	M25	X	-1.169	-1.169	0 %100
30	M25	Z	.675	.675	0 %100
31	M26	X	-1.169	-1.169	0 %100
32	M26	Z	.675	.675	0 %100
33	M27	X	-1.716	-1.716	0 %100
34	M27	Z	.991	.991	0 %100
35	M28	X	-1.716	-1.716	0 %100
36	M28	Z	.991	.991	0 %100
37	MP4A	X	-2.841	-2.841	0 %100
38	MP4A	Z	1.64	1.64	0 %100
39	MP3A	X	-2.841	-2.841	0 %100
40	MP3A	Z	1.64	1.64	0 %100
41	MP2A	X	-2.841	-2.841	0 %100
42	MP2A	Z	1.64	1.64	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
43	MP1A	X	-2.841	-2.841	0 %100
44	MP1A	Z	1.64	1.64	0 %100
45	M44	X	-1.649	-1.649	0 %100
46	M44	Z	.952	.952	0 %100
47	M45	X	-1.649	-1.649	0 %100
48	M45	Z	.952	.952	0 %100
49	M46	X	-1.649	-1.649	0 %100
50	M46	Z	.952	.952	0 %100
51	M47	X	-1.649	-1.649	0 %100
52	M47	Z	.952	.952	0 %100
53	M43	X	-1.206	-1.206	0 %100
54	M43	Z	.696	.696	0 %100
55	M44A	X	-2.89	-2.89	0 %100
56	M44A	Z	1.669	1.669	0 %100
57	M53	X	-2.47	-2.47	0 %100
58	M53	Z	1.426	1.426	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	0	0	0 %100
5	M13	X	-1.563	-1.563	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	-1.563	-1.563	0 %100
8	M14	Z	0	0	0 %100
9	M15	X	-1.563	-1.563	0 %100
10	M15	Z	0	0	0 %100
11	M16	X	-1.563	-1.563	0 %100
12	M16	Z	0	0	0 %100
13	M17	X	-.952	-.952	0 %100
14	M17	Z	0	0	0 %100
15	M18	X	-.952	-.952	0 %100
16	M18	Z	0	0	0 %100
17	M19	X	-.952	-.952	0 %100
18	M19	Z	0	0	0 %100
19	M20	X	-.952	-.952	0 %100
20	M20	Z	0	0	0 %100
21	M21	X	0	0	0 %100
22	M21	Z	0	0	0 %100
23	M22	X	0	0	0 %100
24	M22	Z	0	0	0 %100
25	M23	X	0	0	0 %100
26	M23	Z	0	0	0 %100
27	M24	X	0	0	0 %100
28	M24	Z	0	0	0 %100
29	M25	X	-1.62	-1.62	0 %100
30	M25	Z	0	0	0 %100
31	M26	X	-1.62	-1.62	0 %100
32	M26	Z	0	0	0 %100
33	M27	X	-1.62	-1.62	0 %100
34	M27	Z	0	0	0 %100
35	M28	X	-1.62	-1.62	0 %100
36	M28	Z	0	0	0 %100
37	MP4A	X	-3.28	-3.28	0 %100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-3.28	-3.28	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-3.28	-3.28	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-3.28	-3.28	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-1.904	-1.904	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-1.904	-1.904	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-1.904	-1.904	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-1.904	-1.904	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-3.014	-3.014	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-3.014	-3.014	0	%100
56	M44A	Z	0	0	0	%100
57	M53	X	-2.852	-2.852	0	%100
58	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-0.81	-0.81	0	%100
2	M1	Z	-0.467	-0.467	0	%100
3	M2	X	-0.81	-0.81	0	%100
4	M2	Z	-0.467	-0.467	0	%100
5	M13	X	-1.015	-1.015	0	%100
6	M13	Z	-0.586	-0.586	0	%100
7	M14	X	-1.015	-1.015	0	%100
8	M14	Z	-0.586	-0.586	0	%100
9	M15	X	-1.015	-1.015	0	%100
10	M15	Z	-0.586	-0.586	0	%100
11	M16	X	-1.015	-1.015	0	%100
12	M16	Z	-0.586	-0.586	0	%100
13	M17	X	-1.866	-1.866	0	%100
14	M17	Z	-1.077	-1.077	0	%100
15	M18	X	-1.866	-1.866	0	%100
16	M18	Z	-1.077	-1.077	0	%100
17	M19	X	-0.043	-0.043	0	%100
18	M19	Z	-0.025	-0.025	0	%100
19	M20	X	-0.043	-0.043	0	%100
20	M20	Z	-0.025	-0.025	0	%100
21	M21	X	-0.323	-0.323	0	%100
22	M21	Z	-0.186	-0.186	0	%100
23	M22	X	-0.323	-0.323	0	%100
24	M22	Z	-0.186	-0.186	0	%100
25	M23	X	-0.323	-0.323	0	%100
26	M23	Z	-0.186	-0.186	0	%100
27	M24	X	-0.323	-0.323	0	%100
28	M24	Z	-0.186	-0.186	0	%100
29	M25	X	-1.716	-1.716	0	%100
30	M25	Z	-0.991	-0.991	0	%100
31	M26	X	-1.716	-1.716	0	%100
32	M26	Z	-0.991	-0.991	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
33	M27	X	-1.169	-1.169	0 %100
34	M27	Z	-.675	-.675	0 %100
35	M28	X	-1.169	-1.169	0 %100
36	M28	Z	-.675	-.675	0 %100
37	MP4A	X	-2.841	-2.841	0 %100
38	MP4A	Z	-1.64	-1.64	0 %100
39	MP3A	X	-2.841	-2.841	0 %100
40	MP3A	Z	-1.64	-1.64	0 %100
41	MP2A	X	-2.841	-2.841	0 %100
42	MP2A	Z	-1.64	-1.64	0 %100
43	MP1A	X	-2.841	-2.841	0 %100
44	MP1A	Z	-1.64	-1.64	0 %100
45	M44	X	-1.649	-1.649	0 %100
46	M44	Z	-.952	-.952	0 %100
47	M45	X	-1.649	-1.649	0 %100
48	M45	Z	-.952	-.952	0 %100
49	M46	X	-1.649	-1.649	0 %100
50	M46	Z	-.952	-.952	0 %100
51	M47	X	-1.649	-1.649	0 %100
52	M47	Z	-.952	-.952	0 %100
53	M43	X	-2.89	-2.89	0 %100
54	M43	Z	-1.669	-1.669	0 %100
55	M44A	X	-1.206	-1.206	0 %100
56	M44A	Z	-.696	-.696	0 %100
57	M53	X	-2.47	-2.47	0 %100
58	M53	Z	-1.426	-1.426	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-1.402	-1.402	0 %100
2	M1	Z	-2.429	-2.429	0 %100
3	M2	X	-1.402	-1.402	0 %100
4	M2	Z	-2.429	-2.429	0 %100
5	M13	X	-.195	-.195	0 %100
6	M13	Z	-.338	-.338	0 %100
7	M14	X	-.195	-.195	0 %100
8	M14	Z	-.338	-.338	0 %100
9	M15	X	-.195	-.195	0 %100
10	M15	Z	-.338	-.338	0 %100
11	M16	X	-.195	-.195	0 %100
12	M16	Z	-.338	-.338	0 %100
13	M17	X	-1.227	-1.227	0 %100
14	M17	Z	-2.126	-2.126	0 %100
15	M18	X	-1.227	-1.227	0 %100
16	M18	Z	-2.126	-2.126	0 %100
17	M19	X	-.175	-.175	0 %100
18	M19	Z	-.303	-.303	0 %100
19	M20	X	-.175	-.175	0 %100
20	M20	Z	-.303	-.303	0 %100
21	M21	X	-.559	-.559	0 %100
22	M21	Z	-.968	-.968	0 %100
23	M22	X	-.559	-.559	0 %100
24	M22	Z	-.968	-.968	0 %100
25	M23	X	-.559	-.559	0 %100
26	M23	Z	-.968	-.968	0 %100
27	M24	X	-.559	-.559	0 %100





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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
28	M24	Z	-0.968	-0.968	0	%100
29	M25	X	-1.036	-1.036	0	%100
30	M25	Z	-1.794	-1.794	0	%100
31	M26	X	-1.036	-1.036	0	%100
32	M26	Z	-1.794	-1.794	0	%100
33	M27	X	-0.72	-0.72	0	%100
34	M27	Z	-1.247	-1.247	0	%100
35	M28	X	-0.72	-0.72	0	%100
36	M28	Z	-1.247	-1.247	0	%100
37	MP4A	X	-1.64	-1.64	0	%100
38	MP4A	Z	-2.841	-2.841	0	%100
39	MP3A	X	-1.64	-1.64	0	%100
40	MP3A	Z	-2.841	-2.841	0	%100
41	MP2A	X	-1.64	-1.64	0	%100
42	MP2A	Z	-2.841	-2.841	0	%100
43	MP1A	X	-1.64	-1.64	0	%100
44	MP1A	Z	-2.841	-2.841	0	%100
45	M44	X	-0.952	-0.952	0	%100
46	M44	Z	-1.649	-1.649	0	%100
47	M45	X	-0.952	-0.952	0	%100
48	M45	Z	-1.649	-1.649	0	%100
49	M46	X	-0.952	-0.952	0	%100
50	M46	Z	-1.649	-1.649	0	%100
51	M47	X	-0.952	-0.952	0	%100
52	M47	Z	-1.649	-1.649	0	%100
53	M43	X	-1.02	-1.02	0	%100
54	M43	Z	-1.766	-1.766	0	%100
55	M44A	X	-0.047	-0.047	0	%100
56	M44A	Z	-0.082	-0.082	0	%100
57	M53	X	-1.426	-1.426	0	%100
58	M53	Z	-2.47	-2.47	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	-0.608	-0.608	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-0.608	-0.608	0	%100
5	M13	X	0	0	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	0	0	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	0	0	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	0	0	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	0	0	0	%100
14	M17	Z	-0.24	-0.24	0	%100
15	M18	X	0	0	0	%100
16	M18	Z	-0.24	-0.24	0	%100
17	M19	X	0	0	0	%100
18	M19	Z	-0.24	-0.24	0	%100
19	M20	X	0	0	0	%100
20	M20	Z	-0.24	-0.24	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	-0.106	-0.106	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
23	M22	X	0	0	%100	
24	M22	Z	-106	-106	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	-106	-106	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	-106	-106	0	%100
29	M25	X	0	0	0	%100
30	M25	Z	-137	-137	0	%100
31	M26	X	0	0	0	%100
32	M26	Z	-137	-137	0	%100
33	M27	X	0	0	0	%100
34	M27	Z	-137	-137	0	%100
35	M28	X	0	0	0	%100
36	M28	Z	-137	-137	0	%100
37	MP4A	X	0	0	0	%100
38	MP4A	Z	-502	-502	0	%100
39	MP3A	X	0	0	0	%100
40	MP3A	Z	-502	-502	0	%100
41	MP2A	X	0	0	0	%100
42	MP2A	Z	-502	-502	0	%100
43	MP1A	X	0	0	0	%100
44	MP1A	Z	-502	-502	0	%100
45	M44	X	0	0	0	%100
46	M44	Z	-132	-132	0	%100
47	M45	X	0	0	0	%100
48	M45	Z	-132	-132	0	%100
49	M46	X	0	0	0	%100
50	M46	Z	-132	-132	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	-132	-132	0	%100
53	M43	X	0	0	0	%100
54	M43	Z	-061	-061	0	%100
55	M44A	X	0	0	0	%100
56	M44A	Z	-061	-061	0	%100
57	M53	X	0	0	0	%100
58	M53	Z	-45	-45	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]	
1	M1	X	.228	.228	0	%100
2	M1	Z	-395	-395	0	%100
3	M2	X	.228	.228	0	%100
4	M2	Z	-395	-395	0	%100
5	M13	X	.017	.017	0	%100
6	M13	Z	-029	-029	0	%100
7	M14	X	.017	.017	0	%100
8	M14	Z	-029	-029	0	%100
9	M15	X	.017	.017	0	%100
10	M15	Z	-029	-029	0	%100
11	M16	X	.017	.017	0	%100
12	M16	Z	-029	-029	0	%100
13	M17	X	.027	.027	0	%100
14	M17	Z	-047	-047	0	%100
15	M18	X	.027	.027	0	%100
16	M18	Z	-047	-047	0	%100
17	M19	X	.19	.19	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
18	M19	Z	-.329	-.329	0 %100
19	M20	X	.19	.19	0 %100
20	M20	Z	-.329	-.329	0 %100
21	M21	X	.04	.04	0 %100
22	M21	Z	-.069	-.069	0 %100
23	M22	X	.04	.04	0 %100
24	M22	Z	-.069	-.069	0 %100
25	M23	X	.04	.04	0 %100
26	M23	Z	-.069	-.069	0 %100
27	M24	X	.04	.04	0 %100
28	M24	Z	-.069	-.069	0 %100
29	M25	X	.055	.055	0 %100
30	M25	Z	-.095	-.095	0 %100
31	M26	X	.055	.055	0 %100
32	M26	Z	-.095	-.095	0 %100
33	M27	X	.079	.079	0 %100
34	M27	Z	-.136	-.136	0 %100
35	M28	X	.079	.079	0 %100
36	M28	Z	-.136	-.136	0 %100
37	MP4A	X	.251	.251	0 %100
38	MP4A	Z	-.435	-.435	0 %100
39	MP3A	X	.251	.251	0 %100
40	MP3A	Z	-.435	-.435	0 %100
41	MP2A	X	.251	.251	0 %100
42	MP2A	Z	-.435	-.435	0 %100
43	MP1A	X	.251	.251	0 %100
44	MP1A	Z	-.435	-.435	0 %100
45	M44	X	.066	.066	0 %100
46	M44	Z	-.115	-.115	0 %100
47	M45	X	.066	.066	0 %100
48	M45	Z	-.115	-.115	0 %100
49	M46	X	.066	.066	0 %100
50	M46	Z	-.115	-.115	0 %100
51	M47	X	.066	.066	0 %100
52	M47	Z	-.115	-.115	0 %100
53	M43	X	.007	.007	0 %100
54	M43	Z	-.012	-.012	0 %100
55	M44A	X	.149	.149	0 %100
56	M44A	Z	-.259	-.259	0 %100
57	M53	X	.225	.225	0 %100
58	M53	Z	-.39	-.39	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.132	.132	0 %100
2	M1	Z	-.076	-.076	0 %100
3	M2	X	.132	.132	0 %100
4	M2	Z	-.076	-.076	0 %100
5	M13	X	.086	.086	0 %100
6	M13	Z	-.05	-.05	0 %100
7	M14	X	.086	.086	0 %100
8	M14	Z	-.05	-.05	0 %100
9	M15	X	.086	.086	0 %100
10	M15	Z	-.05	-.05	0 %100
11	M16	X	.086	.086	0 %100
12	M16	Z	-.05	-.05	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
13	M17	X	.007	.007	0 %100
14	M17	Z	-.004	-.004	0 %100
15	M18	X	.007	.007	0 %100
16	M18	Z	-.004	-.004	0 %100
17	M19	X	.289	.289	0 %100
18	M19	Z	-.167	-.167	0 %100
19	M20	X	.289	.289	0 %100
20	M20	Z	-.167	-.167	0 %100
21	M21	X	.023	.023	0 %100
22	M21	Z	-.013	-.013	0 %100
23	M22	X	.023	.023	0 %100
24	M22	Z	-.013	-.013	0 %100
25	M23	X	.023	.023	0 %100
26	M23	Z	-.013	-.013	0 %100
27	M24	X	.023	.023	0 %100
28	M24	Z	-.013	-.013	0 %100
29	M25	X	.089	.089	0 %100
30	M25	Z	-.051	-.051	0 %100
31	M26	X	.089	.089	0 %100
32	M26	Z	-.051	-.051	0 %100
33	M27	X	.131	.131	0 %100
34	M27	Z	-.075	-.075	0 %100
35	M28	X	.131	.131	0 %100
36	M28	Z	-.075	-.075	0 %100
37	MP4A	X	.435	.435	0 %100
38	MP4A	Z	-.251	-.251	0 %100
39	MP3A	X	.435	.435	0 %100
40	MP3A	Z	-.251	-.251	0 %100
41	MP2A	X	.435	.435	0 %100
42	MP2A	Z	-.251	-.251	0 %100
43	MP1A	X	.435	.435	0 %100
44	MP1A	Z	-.251	-.251	0 %100
45	M44	X	.115	.115	0 %100
46	M44	Z	-.066	-.066	0 %100
47	M45	X	.115	.115	0 %100
48	M45	Z	-.066	-.066	0 %100
49	M46	X	.115	.115	0 %100
50	M46	Z	-.066	-.066	0 %100
51	M47	X	.115	.115	0 %100
52	M47	Z	-.066	-.066	0 %100
53	M43	X	.177	.177	0 %100
54	M43	Z	-.102	-.102	0 %100
55	M44A	X	.423	.423	0 %100
56	M44A	Z	-.244	-.244	0 %100
57	M53	X	.39	.39	0 %100
58	M53	Z	-.225	-.225	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0 %100
2	M1	Z	0	0	0 %100
3	M2	X	0	0	0 %100
4	M2	Z	0	0	0 %100
5	M13	X	.132	.132	0 %100
6	M13	Z	0	0	0 %100
7	M14	X	.132	.132	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
8	M14	Z	0	0	%100
9	M15	X	.132	.132	0
10	M15	Z	0	0	%100
11	M16	X	.132	.132	0
12	M16	Z	0	0	%100
13	M17	X	.147	.147	0
14	M17	Z	0	0	%100
15	M18	X	.147	.147	0
16	M18	Z	0	0	%100
17	M19	X	.147	.147	0
18	M19	Z	0	0	%100
19	M20	X	.147	.147	0
20	M20	Z	0	0	%100
21	M21	X	0	0	%100
22	M21	Z	0	0	%100
23	M22	X	0	0	%100
24	M22	Z	0	0	%100
25	M23	X	0	0	%100
26	M23	Z	0	0	%100
27	M24	X	0	0	%100
28	M24	Z	0	0	%100
29	M25	X	.123	.123	0
30	M25	Z	0	0	%100
31	M26	X	.123	.123	0
32	M26	Z	0	0	%100
33	M27	X	.123	.123	0
34	M27	Z	0	0	%100
35	M28	X	.123	.123	0
36	M28	Z	0	0	%100
37	MP4A	X	.502	.502	0
38	MP4A	Z	0	0	%100
39	MP3A	X	.502	.502	0
40	MP3A	Z	0	0	%100
41	MP2A	X	.502	.502	0
42	MP2A	Z	0	0	%100
43	MP1A	X	.502	.502	0
44	MP1A	Z	0	0	%100
45	M44	X	.132	.132	0
46	M44	Z	0	0	%100
47	M45	X	.132	.132	0
48	M45	Z	0	0	%100
49	M46	X	.132	.132	0
50	M46	Z	0	0	%100
51	M47	X	.132	.132	0
52	M47	Z	0	0	%100
53	M43	X	.441	.441	0
54	M43	Z	0	0	%100
55	M44A	X	.441	.441	0
56	M44A	Z	0	0	%100
57	M53	X	.45	.45	0
58	M53	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.132	.132	0
2	M1	Z	.076	.076	0



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
3	M2	X	.132	.132	0 %100
4	M2	Z	.076	.076	0 %100
5	M13	X	.086	.086	0 %100
6	M13	Z	.05	.05	0 %100
7	M14	X	.086	.086	0 %100
8	M14	Z	.05	.05	0 %100
9	M15	X	.086	.086	0 %100
10	M15	Z	.05	.05	0 %100
11	M16	X	.086	.086	0 %100
12	M16	Z	.05	.05	0 %100
13	M17	X	.289	.289	0 %100
14	M17	Z	.167	.167	0 %100
15	M18	X	.289	.289	0 %100
16	M18	Z	.167	.167	0 %100
17	M19	X	.007	.007	0 %100
18	M19	Z	.004	.004	0 %100
19	M20	X	.007	.007	0 %100
20	M20	Z	.004	.004	0 %100
21	M21	X	.023	.023	0 %100
22	M21	Z	.013	.013	0 %100
23	M22	X	.023	.023	0 %100
24	M22	Z	.013	.013	0 %100
25	M23	X	.023	.023	0 %100
26	M23	Z	.013	.013	0 %100
27	M24	X	.023	.023	0 %100
28	M24	Z	.013	.013	0 %100
29	M25	X	.131	.131	0 %100
30	M25	Z	.075	.075	0 %100
31	M26	X	.131	.131	0 %100
32	M26	Z	.075	.075	0 %100
33	M27	X	.089	.089	0 %100
34	M27	Z	.051	.051	0 %100
35	M28	X	.089	.089	0 %100
36	M28	Z	.051	.051	0 %100
37	MP4A	X	.435	.435	0 %100
38	MP4A	Z	.251	.251	0 %100
39	MP3A	X	.435	.435	0 %100
40	MP3A	Z	.251	.251	0 %100
41	MP2A	X	.435	.435	0 %100
42	MP2A	Z	.251	.251	0 %100
43	MP1A	X	.435	.435	0 %100
44	MP1A	Z	.251	.251	0 %100
45	M44	X	.115	.115	0 %100
46	M44	Z	.066	.066	0 %100
47	M45	X	.115	.115	0 %100
48	M45	Z	.066	.066	0 %100
49	M46	X	.115	.115	0 %100
50	M46	Z	.066	.066	0 %100
51	M47	X	.115	.115	0 %100
52	M47	Z	.066	.066	0 %100
53	M43	X	.423	.423	0 %100
54	M43	Z	.244	.244	0 %100
55	M44A	X	.177	.177	0 %100
56	M44A	Z	.102	.102	0 %100
57	M53	X	.39	.39	0 %100
58	M53	Z	.225	.225	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.228	.228	0 %100
2	M1	Z	.395	.395	0 %100
3	M2	X	.228	.228	0 %100
4	M2	Z	.395	.395	0 %100
5	M13	X	.017	.017	0 %100
6	M13	Z	.029	.029	0 %100
7	M14	X	.017	.017	0 %100
8	M14	Z	.029	.029	0 %100
9	M15	X	.017	.017	0 %100
10	M15	Z	.029	.029	0 %100
11	M16	X	.017	.017	0 %100
12	M16	Z	.029	.029	0 %100
13	M17	X	.19	.19	0 %100
14	M17	Z	.329	.329	0 %100
15	M18	X	.19	.19	0 %100
16	M18	Z	.329	.329	0 %100
17	M19	X	.027	.027	0 %100
18	M19	Z	.047	.047	0 %100
19	M20	X	.027	.027	0 %100
20	M20	Z	.047	.047	0 %100
21	M21	X	.04	.04	0 %100
22	M21	Z	.069	.069	0 %100
23	M22	X	.04	.04	0 %100
24	M22	Z	.069	.069	0 %100
25	M23	X	.04	.04	0 %100
26	M23	Z	.069	.069	0 %100
27	M24	X	.04	.04	0 %100
28	M24	Z	.069	.069	0 %100
29	M25	X	.079	.079	0 %100
30	M25	Z	.136	.136	0 %100
31	M26	X	.079	.079	0 %100
32	M26	Z	.136	.136	0 %100
33	M27	X	.055	.055	0 %100
34	M27	Z	.095	.095	0 %100
35	M28	X	.055	.055	0 %100
36	M28	Z	.095	.095	0 %100
37	MP4A	X	.251	.251	0 %100
38	MP4A	Z	.435	.435	0 %100
39	MP3A	X	.251	.251	0 %100
40	MP3A	Z	.435	.435	0 %100
41	MP2A	X	.251	.251	0 %100
42	MP2A	Z	.435	.435	0 %100
43	MP1A	X	.251	.251	0 %100
44	MP1A	Z	.435	.435	0 %100
45	M44	X	.066	.066	0 %100
46	M44	Z	.115	.115	0 %100
47	M45	X	.066	.066	0 %100
48	M45	Z	.115	.115	0 %100
49	M46	X	.066	.066	0 %100
50	M46	Z	.115	.115	0 %100
51	M47	X	.066	.066	0 %100
52	M47	Z	.115	.115	0 %100
53	M43	X	.149	.149	0 %100
54	M43	Z	.259	.259	0 %100
55	M44A	X	.007	.007	0 %100
56	M44A	Z	.012	.012	0 %100
57	M53	X	.225	.225	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
58	M53	Z	.39	.39	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	%100
2	M1	Z	.608	.608	0 %100
3	M2	X	0	0	%100
4	M2	Z	.608	.608	0 %100
5	M13	X	0	0	%100
6	M13	Z	0	0	%100
7	M14	X	0	0	%100
8	M14	Z	0	0	%100
9	M15	X	0	0	%100
10	M15	Z	0	0	%100
11	M16	X	0	0	%100
12	M16	Z	0	0	%100
13	M17	X	0	0	%100
14	M17	Z	.24	.24	0 %100
15	M18	X	0	0	%100
16	M18	Z	.24	.24	0 %100
17	M19	X	0	0	%100
18	M19	Z	.24	.24	0 %100
19	M20	X	0	0	%100
20	M20	Z	.24	.24	0 %100
21	M21	X	0	0	%100
22	M21	Z	.106	.106	0 %100
23	M22	X	0	0	%100
24	M22	Z	.106	.106	0 %100
25	M23	X	0	0	%100
26	M23	Z	.106	.106	0 %100
27	M24	X	0	0	%100
28	M24	Z	.106	.106	0 %100
29	M25	X	0	0	%100
30	M25	Z	.137	.137	0 %100
31	M26	X	0	0	%100
32	M26	Z	.137	.137	0 %100
33	M27	X	0	0	%100
34	M27	Z	.137	.137	0 %100
35	M28	X	0	0	%100
36	M28	Z	.137	.137	0 %100
37	MP4A	X	0	0	%100
38	MP4A	Z	.502	.502	0 %100
39	MP3A	X	0	0	%100
40	MP3A	Z	.502	.502	0 %100
41	MP2A	X	0	0	%100
42	MP2A	Z	.502	.502	0 %100
43	MP1A	X	0	0	%100
44	MP1A	Z	.502	.502	0 %100
45	M44	X	0	0	%100
46	M44	Z	.132	.132	0 %100
47	M45	X	0	0	%100
48	M45	Z	.132	.132	0 %100
49	M46	X	0	0	%100
50	M46	Z	.132	.132	0 %100
51	M47	X	0	0	%100
52	M47	Z	.132	.132	0 %100





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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
53	M43	X	0	0	%100
54	M43	Z	.061	0	%100
55	M44A	X	0	0	%100
56	M44A	Z	.061	0	%100
57	M53	X	0	0	%100
58	M53	Z	.45	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.228	0	%100
2	M1	Z	.395	0	%100
3	M2	X	-.228	0	%100
4	M2	Z	.395	0	%100
5	M13	X	-.017	0	%100
6	M13	Z	.029	0	%100
7	M14	X	-.017	0	%100
8	M14	Z	.029	0	%100
9	M15	X	-.017	0	%100
10	M15	Z	.029	0	%100
11	M16	X	-.017	0	%100
12	M16	Z	.029	0	%100
13	M17	X	-.027	0	%100
14	M17	Z	.047	0	%100
15	M18	X	-.027	0	%100
16	M18	Z	.047	0	%100
17	M19	X	-.19	0	%100
18	M19	Z	.329	0	%100
19	M20	X	-.19	0	%100
20	M20	Z	.329	0	%100
21	M21	X	-.04	0	%100
22	M21	Z	.069	0	%100
23	M22	X	-.04	0	%100
24	M22	Z	.069	0	%100
25	M23	X	-.04	0	%100
26	M23	Z	.069	0	%100
27	M24	X	-.04	0	%100
28	M24	Z	.069	0	%100
29	M25	X	-.055	0	%100
30	M25	Z	.095	0	%100
31	M26	X	-.055	0	%100
32	M26	Z	.095	0	%100
33	M27	X	-.079	0	%100
34	M27	Z	.136	0	%100
35	M28	X	-.079	0	%100
36	M28	Z	.136	0	%100
37	MP4A	X	-.251	0	%100
38	MP4A	Z	.435	0	%100
39	MP3A	X	-.251	0	%100
40	MP3A	Z	.435	0	%100
41	MP2A	X	-.251	0	%100
42	MP2A	Z	.435	0	%100
43	MP1A	X	-.251	0	%100
44	MP1A	Z	.435	0	%100
45	M44	X	-.066	0	%100
46	M44	Z	.115	0	%100
47	M45	X	-.066	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
48	M45	Z	.115	.115	0	%100
49	M46	X	-.066	-.066	0	%100
50	M46	Z	.115	.115	0	%100
51	M47	X	-.066	-.066	0	%100
52	M47	Z	.115	.115	0	%100
53	M43	X	-.007	-.007	0	%100
54	M43	Z	.012	.012	0	%100
55	M44A	X	-.149	-.149	0	%100
56	M44A	Z	.259	.259	0	%100
57	M53	X	-.225	-.225	0	%100
58	M53	Z	.39	.39	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-.132	-.132	0	%100
2	M1	Z	.076	.076	0	%100
3	M2	X	-.132	-.132	0	%100
4	M2	Z	.076	.076	0	%100
5	M13	X	-.086	-.086	0	%100
6	M13	Z	.05	.05	0	%100
7	M14	X	-.086	-.086	0	%100
8	M14	Z	.05	.05	0	%100
9	M15	X	-.086	-.086	0	%100
10	M15	Z	.05	.05	0	%100
11	M16	X	-.086	-.086	0	%100
12	M16	Z	.05	.05	0	%100
13	M17	X	-.007	-.007	0	%100
14	M17	Z	.004	.004	0	%100
15	M18	X	-.007	-.007	0	%100
16	M18	Z	.004	.004	0	%100
17	M19	X	-.289	-.289	0	%100
18	M19	Z	.167	.167	0	%100
19	M20	X	-.289	-.289	0	%100
20	M20	Z	.167	.167	0	%100
21	M21	X	-.023	-.023	0	%100
22	M21	Z	.013	.013	0	%100
23	M22	X	-.023	-.023	0	%100
24	M22	Z	.013	.013	0	%100
25	M23	X	-.023	-.023	0	%100
26	M23	Z	.013	.013	0	%100
27	M24	X	-.023	-.023	0	%100
28	M24	Z	.013	.013	0	%100
29	M25	X	-.089	-.089	0	%100
30	M25	Z	.051	.051	0	%100
31	M26	X	-.089	-.089	0	%100
32	M26	Z	.051	.051	0	%100
33	M27	X	-.131	-.131	0	%100
34	M27	Z	.075	.075	0	%100
35	M28	X	-.131	-.131	0	%100
36	M28	Z	.075	.075	0	%100
37	MP4A	X	-.435	-.435	0	%100
38	MP4A	Z	.251	.251	0	%100
39	MP3A	X	-.435	-.435	0	%100
40	MP3A	Z	.251	.251	0	%100
41	MP2A	X	-.435	-.435	0	%100
42	MP2A	Z	.251	.251	0	%100



Company :  
 Designer :  
 Job Number :  
 Model Name :

Sept 7, 2021  
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**Member Distributed Loads (BLC 73 : Structure Wm (240 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
43	MP1A	X	-.435	-.435	0	%100
44	MP1A	Z	.251	.251	0	%100
45	M44	X	-.115	-.115	0	%100
46	M44	Z	.066	.066	0	%100
47	M45	X	-.115	-.115	0	%100
48	M45	Z	.066	.066	0	%100
49	M46	X	-.115	-.115	0	%100
50	M46	Z	.066	.066	0	%100
51	M47	X	-.115	-.115	0	%100
52	M47	Z	.066	.066	0	%100
53	M43	X	-.177	-.177	0	%100
54	M43	Z	.102	.102	0	%100
55	M44A	X	-.423	-.423	0	%100
56	M44A	Z	.244	.244	0	%100
57	M53	X	-.39	-.39	0	%100
58	M53	Z	.225	.225	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M13	X	-.132	-.132	0	%100
6	M13	Z	0	0	0	%100
7	M14	X	-.132	-.132	0	%100
8	M14	Z	0	0	0	%100
9	M15	X	-.132	-.132	0	%100
10	M15	Z	0	0	0	%100
11	M16	X	-.132	-.132	0	%100
12	M16	Z	0	0	0	%100
13	M17	X	-.147	-.147	0	%100
14	M17	Z	0	0	0	%100
15	M18	X	-.147	-.147	0	%100
16	M18	Z	0	0	0	%100
17	M19	X	-.147	-.147	0	%100
18	M19	Z	0	0	0	%100
19	M20	X	-.147	-.147	0	%100
20	M20	Z	0	0	0	%100
21	M21	X	0	0	0	%100
22	M21	Z	0	0	0	%100
23	M22	X	0	0	0	%100
24	M22	Z	0	0	0	%100
25	M23	X	0	0	0	%100
26	M23	Z	0	0	0	%100
27	M24	X	0	0	0	%100
28	M24	Z	0	0	0	%100
29	M25	X	-.123	-.123	0	%100
30	M25	Z	0	0	0	%100
31	M26	X	-.123	-.123	0	%100
32	M26	Z	0	0	0	%100
33	M27	X	-.123	-.123	0	%100
34	M27	Z	0	0	0	%100
35	M28	X	-.123	-.123	0	%100
36	M28	Z	0	0	0	%100
37	MP4A	X	-.502	-.502	0	%100



Company :  
 Designer :  
 Job Number :  
 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
38	MP4A	Z	0	0	0	%100
39	MP3A	X	-502	-502	0	%100
40	MP3A	Z	0	0	0	%100
41	MP2A	X	-502	-502	0	%100
42	MP2A	Z	0	0	0	%100
43	MP1A	X	-502	-502	0	%100
44	MP1A	Z	0	0	0	%100
45	M44	X	-132	-132	0	%100
46	M44	Z	0	0	0	%100
47	M45	X	-132	-132	0	%100
48	M45	Z	0	0	0	%100
49	M46	X	-132	-132	0	%100
50	M46	Z	0	0	0	%100
51	M47	X	-132	-132	0	%100
52	M47	Z	0	0	0	%100
53	M43	X	-441	-441	0	%100
54	M43	Z	0	0	0	%100
55	M44A	X	-441	-441	0	%100
56	M44A	Z	0	0	0	%100
57	M53	X	-45	-45	0	%100
58	M53	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-132	-132	0	%100
2	M1	Z	-076	-076	0	%100
3	M2	X	-132	-132	0	%100
4	M2	Z	-076	-076	0	%100
5	M13	X	-086	-086	0	%100
6	M13	Z	-05	-05	0	%100
7	M14	X	-086	-086	0	%100
8	M14	Z	-05	-05	0	%100
9	M15	X	-086	-086	0	%100
10	M15	Z	-05	-05	0	%100
11	M16	X	-086	-086	0	%100
12	M16	Z	-05	-05	0	%100
13	M17	X	-289	-289	0	%100
14	M17	Z	-167	-167	0	%100
15	M18	X	-289	-289	0	%100
16	M18	Z	-167	-167	0	%100
17	M19	X	-007	-007	0	%100
18	M19	Z	-004	-004	0	%100
19	M20	X	-007	-007	0	%100
20	M20	Z	-004	-004	0	%100
21	M21	X	-023	-023	0	%100
22	M21	Z	-013	-013	0	%100
23	M22	X	-023	-023	0	%100
24	M22	Z	-013	-013	0	%100
25	M23	X	-023	-023	0	%100
26	M23	Z	-013	-013	0	%100
27	M24	X	-023	-023	0	%100
28	M24	Z	-013	-013	0	%100
29	M25	X	-131	-131	0	%100
30	M25	Z	-075	-075	0	%100
31	M26	X	-131	-131	0	%100
32	M26	Z	-075	-075	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
33	M27	X	-0.089	-0.089	0 %100
34	M27	Z	-0.051	-0.051	0 %100
35	M28	X	-0.089	-0.089	0 %100
36	M28	Z	-0.051	-0.051	0 %100
37	MP4A	X	-0.435	-0.435	0 %100
38	MP4A	Z	-0.251	-0.251	0 %100
39	MP3A	X	-0.435	-0.435	0 %100
40	MP3A	Z	-0.251	-0.251	0 %100
41	MP2A	X	-0.435	-0.435	0 %100
42	MP2A	Z	-0.251	-0.251	0 %100
43	MP1A	X	-0.435	-0.435	0 %100
44	MP1A	Z	-0.251	-0.251	0 %100
45	M44	X	-0.115	-0.115	0 %100
46	M44	Z	-0.066	-0.066	0 %100
47	M45	X	-0.115	-0.115	0 %100
48	M45	Z	-0.066	-0.066	0 %100
49	M46	X	-0.115	-0.115	0 %100
50	M46	Z	-0.066	-0.066	0 %100
51	M47	X	-0.115	-0.115	0 %100
52	M47	Z	-0.066	-0.066	0 %100
53	M43	X	-0.423	-0.423	0 %100
54	M43	Z	-0.244	-0.244	0 %100
55	M44A	X	-0.177	-0.177	0 %100
56	M44A	Z	-0.102	-0.102	0 %100
57	M53	X	-0.39	-0.39	0 %100
58	M53	Z	-0.225	-0.225	0 %100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitu...	Start Location[ft.%]	End Location[ft.%]
1	M1	X	-0.228	-0.228	0 %100
2	M1	Z	-0.395	-0.395	0 %100
3	M2	X	-0.228	-0.228	0 %100
4	M2	Z	-0.395	-0.395	0 %100
5	M13	X	-0.017	-0.017	0 %100
6	M13	Z	-0.029	-0.029	0 %100
7	M14	X	-0.017	-0.017	0 %100
8	M14	Z	-0.029	-0.029	0 %100
9	M15	X	-0.017	-0.017	0 %100
10	M15	Z	-0.029	-0.029	0 %100
11	M16	X	-0.017	-0.017	0 %100
12	M16	Z	-0.029	-0.029	0 %100
13	M17	X	-0.19	-0.19	0 %100
14	M17	Z	-0.329	-0.329	0 %100
15	M18	X	-0.19	-0.19	0 %100
16	M18	Z	-0.329	-0.329	0 %100
17	M19	X	-0.027	-0.027	0 %100
18	M19	Z	-0.047	-0.047	0 %100
19	M20	X	-0.027	-0.027	0 %100
20	M20	Z	-0.047	-0.047	0 %100
21	M21	X	-0.04	-0.04	0 %100
22	M21	Z	-0.069	-0.069	0 %100
23	M22	X	-0.04	-0.04	0 %100
24	M22	Z	-0.069	-0.069	0 %100
25	M23	X	-0.04	-0.04	0 %100
26	M23	Z	-0.069	-0.069	0 %100
27	M24	X	-0.04	-0.04	0 %100



Company :  
 Designer :  
 Job Number :  
 Model Name :

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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitu...	Start Location[ft,%]	End Location[ft,%]
28	M24	Z	-0.069	-0.069	0 %100
29	M25	X	-0.079	-0.079	0 %100
30	M25	Z	-.136	-.136	0 %100
31	M26	X	-0.079	-0.079	0 %100
32	M26	Z	-.136	-.136	0 %100
33	M27	X	-0.055	-0.055	0 %100
34	M27	Z	-.095	-.095	0 %100
35	M28	X	-0.055	-0.055	0 %100
36	M28	Z	-.095	-.095	0 %100
37	MP4A	X	-.251	-.251	0 %100
38	MP4A	Z	-.435	-.435	0 %100
39	MP3A	X	-.251	-.251	0 %100
40	MP3A	Z	-.435	-.435	0 %100
41	MP2A	X	-.251	-.251	0 %100
42	MP2A	Z	-.435	-.435	0 %100
43	MP1A	X	-.251	-.251	0 %100
44	MP1A	Z	-.435	-.435	0 %100
45	M44	X	-.066	-.066	0 %100
46	M44	Z	-.115	-.115	0 %100
47	M45	X	-.066	-.066	0 %100
48	M45	Z	-.115	-.115	0 %100
49	M46	X	-.066	-.066	0 %100
50	M46	Z	-.115	-.115	0 %100
51	M47	X	-.066	-.066	0 %100
52	M47	Z	-.115	-.115	0 %100
53	M43	X	-.149	-.149	0 %100
54	M43	Z	-.259	-.259	0 %100
55	M44A	X	-.007	-.007	0 %100
56	M44A	Z	-.012	-.012	0 %100
57	M53	X	-.225	-.225	0 %100
58	M53	Z	-.39	-.39	0 %100

**Member Area Loads**

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

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

Member	Shape	Code Check	Loc[ft]	LC	Sh., Loc[ft]	LC	phi*...	phi*...	phi*...	phi*...	Eqn
1	M24	PL1/2X4	.501	.531	24	.052 .437 y	13	6282..64800	.675	5.4	...H1-..
2	M22	PL1/2X4	.491	.531	17	.095 .531 y	5	6282..64800	.675	5.4	...H1-..
3	M23	PL1/2X4	.396	.531	14	.069 0 y	18	6282..64800	.675	5.4	...H1-..
4	M21	PL1/2X4	.393	.531	20	.085 .531 y	21	6282..64800	.675	5.4	...H1-..
5	M16	PL5/8x..	.215	.422	17	.184 .422 y	4	6799..70875	.923	5.168	...H1-..
6	M15	PL5/8x..	.208	0	24	.084 .422 y	24	6799..70875	.923	5.168	...H1-..
7	M2	PIPE_...	.203	3.776	9	.083 8.854	19	1455..50715	3.596	3.596	...H1-..
8	M20	PIPE_...	.196	0	4	.077 0	23	3112..32130	1.872	1.872	...H1-..
9	M17	PIPE_...	.192	0	9	.085 0	15	3112..32130	1.872	1.872	...H1-..
10	M13	PL5/8x..	.186	.422	21	.186 .374 y	3	6799..70875	.923	5.168	...H1-..
11	M14	PL5/8x..	.160	.422	20	.068 .422 y	8	6799..70875	.923	5.168	...H1-..
12	MP4A	PIPE_...	.151	4.75	50	.047 1.438	9	3777..50715	3.596	3.596	...H1-..
13	M1	PIPE_...	.133	9.245	24	.096 8.854	44	1455..50715	3.596	3.596	...H1-..
14	MP1A	PIPE_...	.118	1.438	18	.042 2.563	9	3777..50715	3.596	3.596	...H1-..
15	MP2A	PIPE_...	.115	1.438	17	.059 1.438	3	3777..50715	3.596	3.596	...H1-..
16	M19	PIPE_...	.104	2.501	24	.088 0	13	3112..32130	1.872	1.872	...H1-..



Company :  
 Designer :  
 Job Number :  
 Model Name :

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

Member	Shape	Code Check	Loc[ft]	LC	Sh...Loc[ft]	LC	phi*... phi*... phi*... phi*... ..	Eqn
17	MP3A	PIPE_...	.096	1.375	3	.058 1.375	7 3777...50715 3.596 3.596...	H1-...
18	M18	PIPE_...	.080	2.501	14	.086 0	24 3112...32130 1.872 1.872...	H1-...
19	M28	SR_0.75	.079	4.167	17	.016 0	23 2863...1431... .179 .179...	H1-...
20	M26	SR_0.75	.058	0	21	.008 0	3 2863...1431... .179 .179...	H1-...
21	M44A	PIPE_...	.049	3.58	15	.005 0	21 1737...32130 1.872 1.872...	H1-...
22	M43	PIPE_...	.049	3.58	17	.005 0	23 1737...32130 1.872 1.872...	H1-...
23	M47	SR_0...	.043	1.667	4	.010 0	4 2158...9940... .104 .104...	H1-...
24	M44	SR_0...	.040	1.667	9	.009 0	3 2158...9940... .104 .104...	H1-...
25	M53	PIPE_...	.035	1.957	3	.024 3.554	11 4496...50715 3.596 3.596...	H1-...
26	M45	SR_0...	.035	1.667	9	.009 0	10 2158...9940... .104 .104...	H1-...
27	M46	SR_0...	.034	1.667	5	.009 0	4 2158...9940... .104 .104...	H1-...
28	M25	SR_0.75	.000	0	51	.006 0	9 2863...1431... .179 .179...	H1-...
29	M27	SR_0.75	.000	0	51	.010 0	16 2863...1431... .179 .179...	H1-...

**Envelope Joint Reactions**

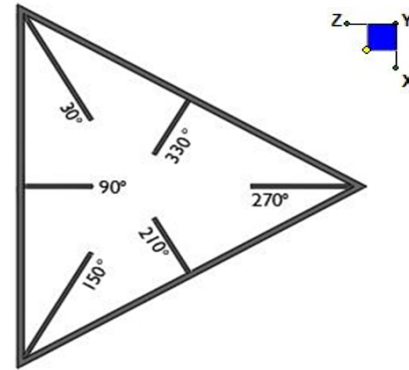
Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	857.002	46	1504.429	14	1898.718	13	-.179	7	0	.146	40
2		min	-385.851	50	476.32	10	53.846	7	-.612	13	0	-.086	50
3	N36	max	1180.722	10	1484.148	20	69.643	1	-.17	6	0	.14	48
4		min	-1676.542	4	468.176	4	-1802.438	19	-.584	24	0	-.086	50
5	N63	max	230.413	2	46.645	20	652.335	2	0	51	0	0	51
6		min	-234.162	8	14.616	2	-666.245	8	0	1	0	0	1
7	N64	max	152.31	5	46.52	17	470.403	11	0	51	0	0	51
8		min	-147.769	11	14.78	11	-485.192	5	0	1	0	0	1
9	Totals:	max	1477.735	10	3076.758	22	1721.388	1					
10		min	-1477.734	4	988.758	4	-1721.385	7					



## I. Mount-to-Tower Connection Check

### RISA Model Data

Nodes (labeled per RISA)	Orientation (per graphic of typical platform)
N36	90
N35	90



TYPICAL PLATFORM

### Tower Connection Bolt Checks

Any moment resistance?:

Bolt Quantity per Reaction:

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

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

Bolt Type:

Bolt Diameter (in):

Required Tensile Strength (kips):

Required Shear Strength (kips):

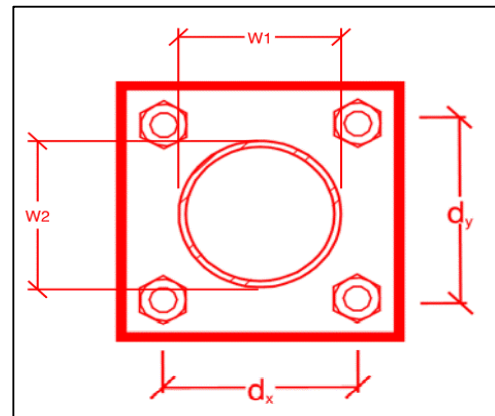
Tensile Strength / bolt (kips):

Shear Strength / bolt (kips):

Tensile Capacity Overall:

Shear Capacity Overall:

yes
4
9.5
3.5
A307
0.625
6.0
1.8
10.0
6.0
15.0%*
7.5%



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



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

### Documents & Photos Required from Contractor **Passing Mount Analysis**

---

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

Contractor is responsible for making certain the photos provided as noted below provide confirmation that the installation was completed in accordance with this Passing Mount Analysis.

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

#### **Base Requirements:**

Any special photos outside of the standard requirements will be indicated on the passing MA Verification that loading is as communicated in the Passing Mount Analysis. NOTE If loading is different than what is conveyed contact Maser Consulting Connecticut immediately.

Each photo should be time and date stamped

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

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

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

#### **Photo Requirements:**

##### Base and "During Installation Photos"

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

##### Photos taken at ground level

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

##### Photos taken at Mount Elevation

- Photos showing each individual sector before and also after installation of equipment.

- These photos should also certify that the placement and geometry of the equipment on the mount is as depicted on the sketch and table in the mount analysis
- 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.

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

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

Certifying Individual:	Company	_____
	Name	_____
	Signature	_____


















**Special Instructions / Validation as required from the MA or any other information the contractor deems necessary to share that was identified:**

**Issue:**

Install 72" long P2 STD pipe in position 2 in all sectors. Attach to face horizontals with crossover plates (part #: VZWSMART-MSK1).

**Response:**

**Schedule A Photo & Document File Structure**

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

Sector: **A**  
 Structure Type: Self Support  
 Mount Elev: 149.00

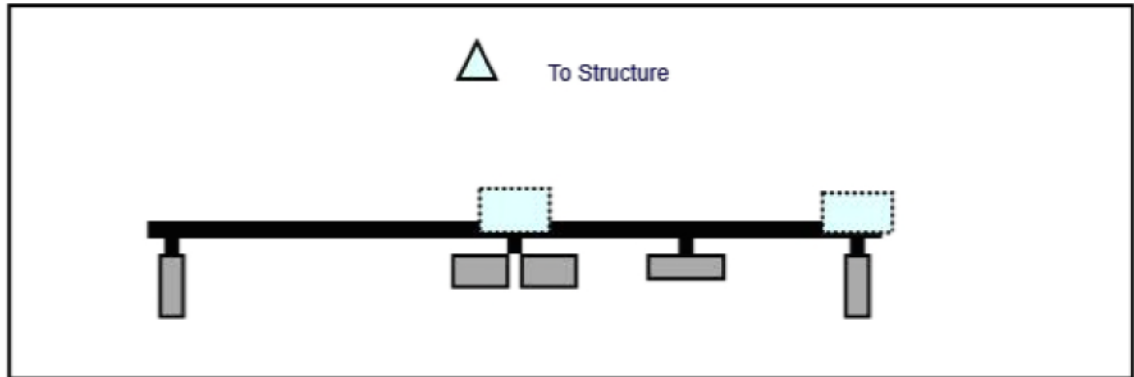
10045199

9/7/2021

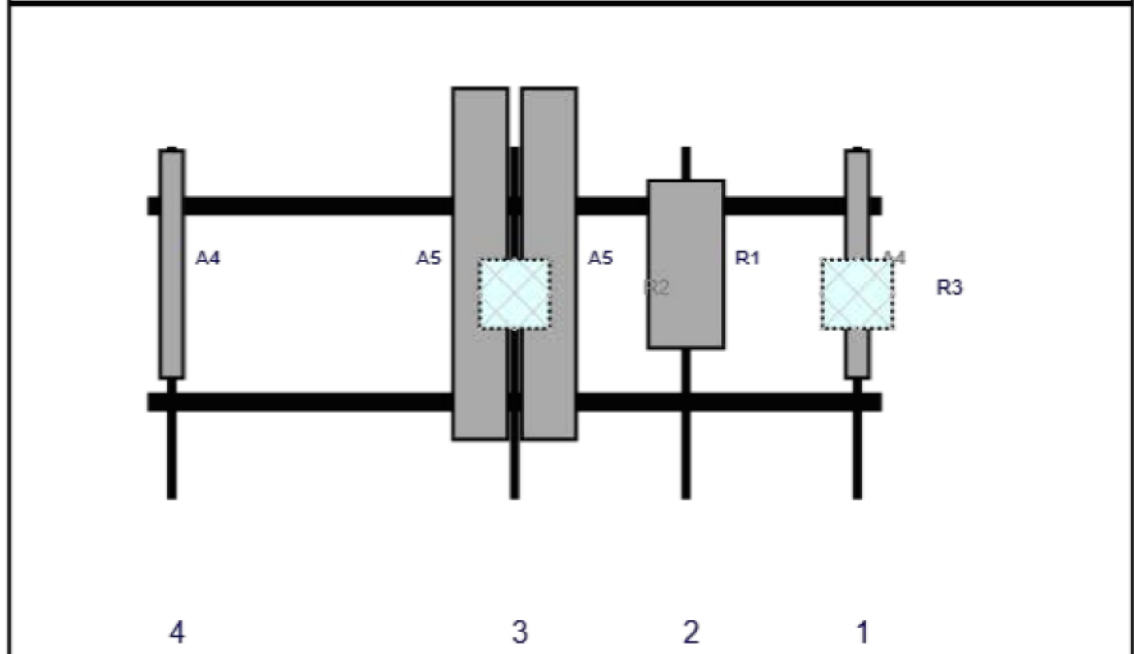
Page: 1



Plan View



Front View  
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	145	1	a	Front	24	0	Retained	04/06/2021
R3	RF4440d-13A	15	15	145	1	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	110	2	a	Front	24	0	Added	
A5	SBNHH-1D65B	72.6	11.9	75	3	a	Front	24	7	Retained	04/06/2021
A5	SBNHH-1D65B	72.6	11.9	75	3	b	Front	24	-7	Retained	04/06/2021
R2	RF4439d-25A	15	15	75	3	a	Behind	30	0	Added	
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	5	4	a	Front	24	0	Retained	04/06/2021

Sector: **B**  
 Structure Type: Self Support  
 Mount Elev: 149.00

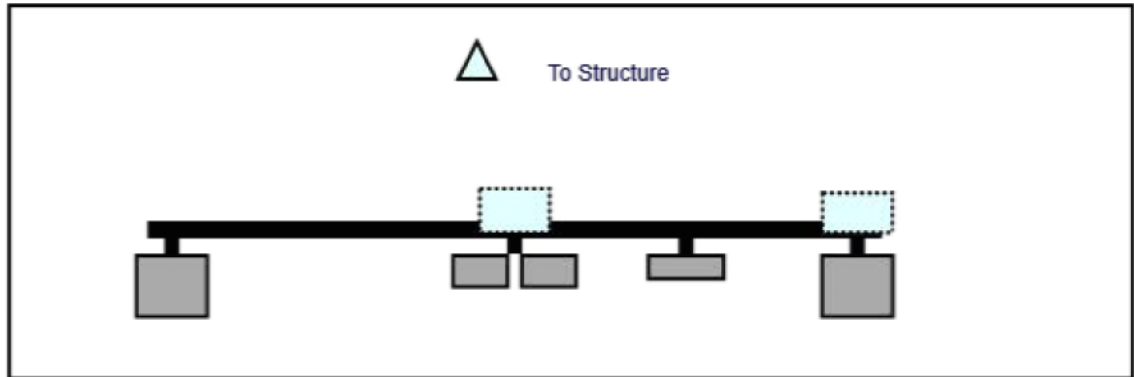
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9/7/2021

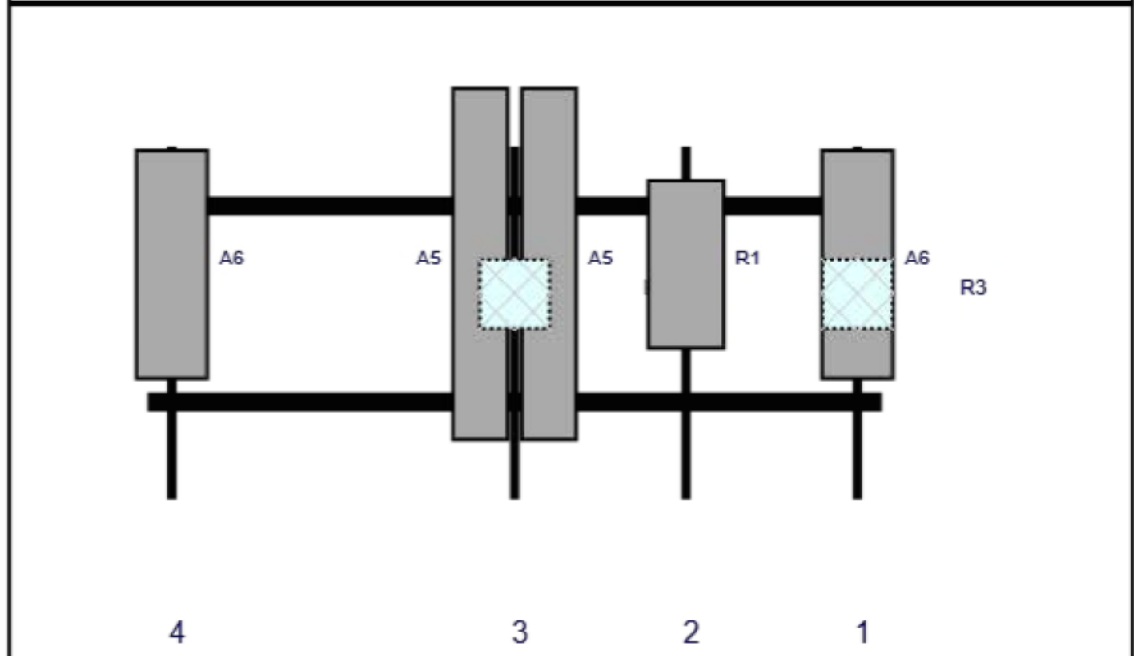
Page: 2



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
A5	SBNHH-1D65B	72.6	11.9	75	3	a	Front	24	7	Retained	04/06/2021
A5	SBNHH-1D65B	72.6	11.9	75	3	b	Front	24	-7	Retained	04/06/2021
R2	RF4439d-25A	15	15	75	3	a	Behind	30	0	Added	
A6	LPA-80063/4CF	47.4	15.2	5	4	a	Front	24	0	Retained	04/06/2021
A6	LPA-80063/4CF	47.4	15.2	145	1	a	Front	24	0	Retained	04/06/2021
R3	RF4440d-13A	15	15	145	1	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	110	2	a	Front	24	0	Added	

Sector: C  
 Structure Type: Self Support  
 Mount Elev: 149.00

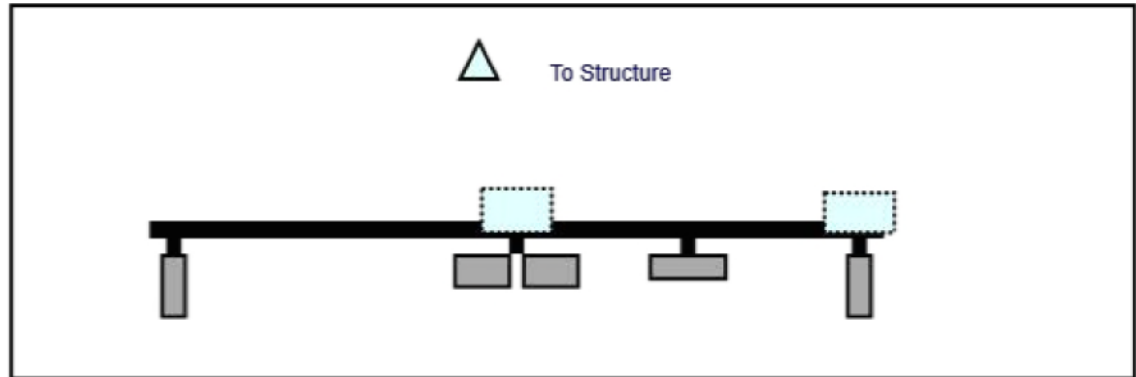
9/7/2021

10045199

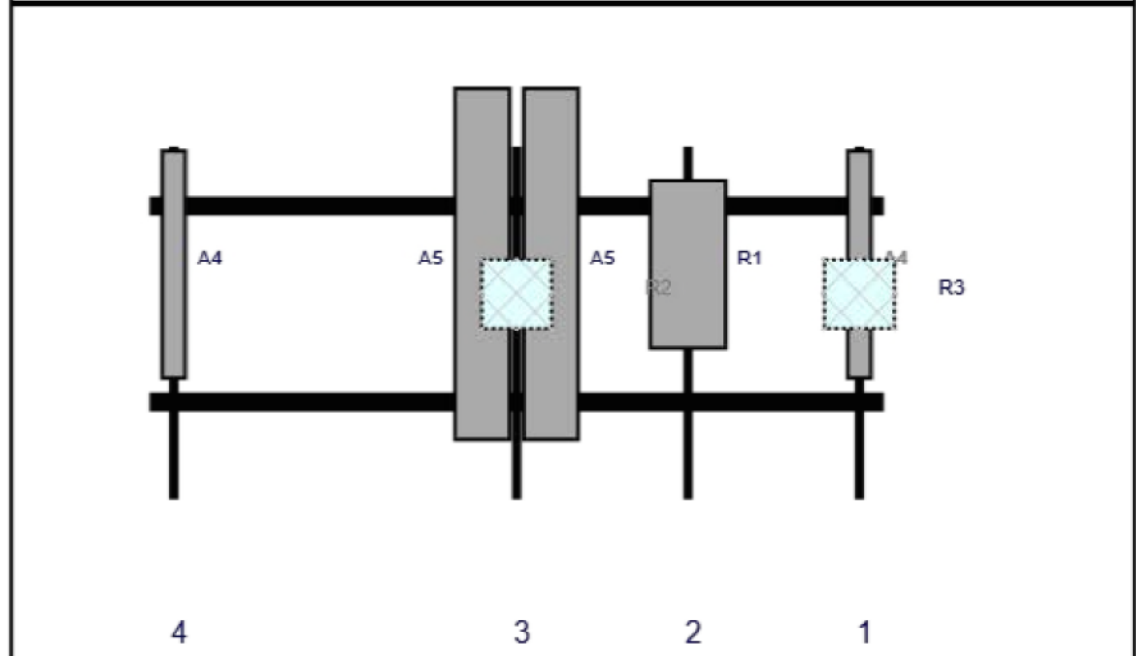
Page: 3



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
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	145	1	a	Front	24	0	Retained	04/06/2021
R3	RF4440d-13A	15	15	145	1	a	Behind	30	0	Added	
R1	MT6407-77A	35.1	16.1	110	2	a	Front	24	0	Added	
A5	SBNHH-1D65B	72.6	11.9	75	3	a	Front	24	7	Retained	04/06/2021
A5	SBNHH-1D65B	72.6	11.9	75	3	b	Front	24	-7	Retained	04/06/2021
R2	RF4439d-25A	15	15	75	3	a	Behind	30	0	Added	
A4	LPA-80080-4CF-EDIN-0	47.2	5.5	5	4	a	Front	24	0	Retained	04/06/2021

# Maser Consulting Connecticut

**Subject**

TIA-222-H Usage

**Site Information**

Site ID: 467846-VZW  
Site Name: STAFFORD 3 CT  
Carrier Name: Verizon Wireless  
Address: 157 Chestnut Hill Rd  
Stafford Springs, CT 06076  
Toland County

Latitude: 41.977417°  
Longitude: -72.383306°

**Structure Information**

Tower Type: Self Support  
Mount Type: 12.50-Ft Sector Frame

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 tower site to ensure the engineer is taking into account the most current engineering standard available.

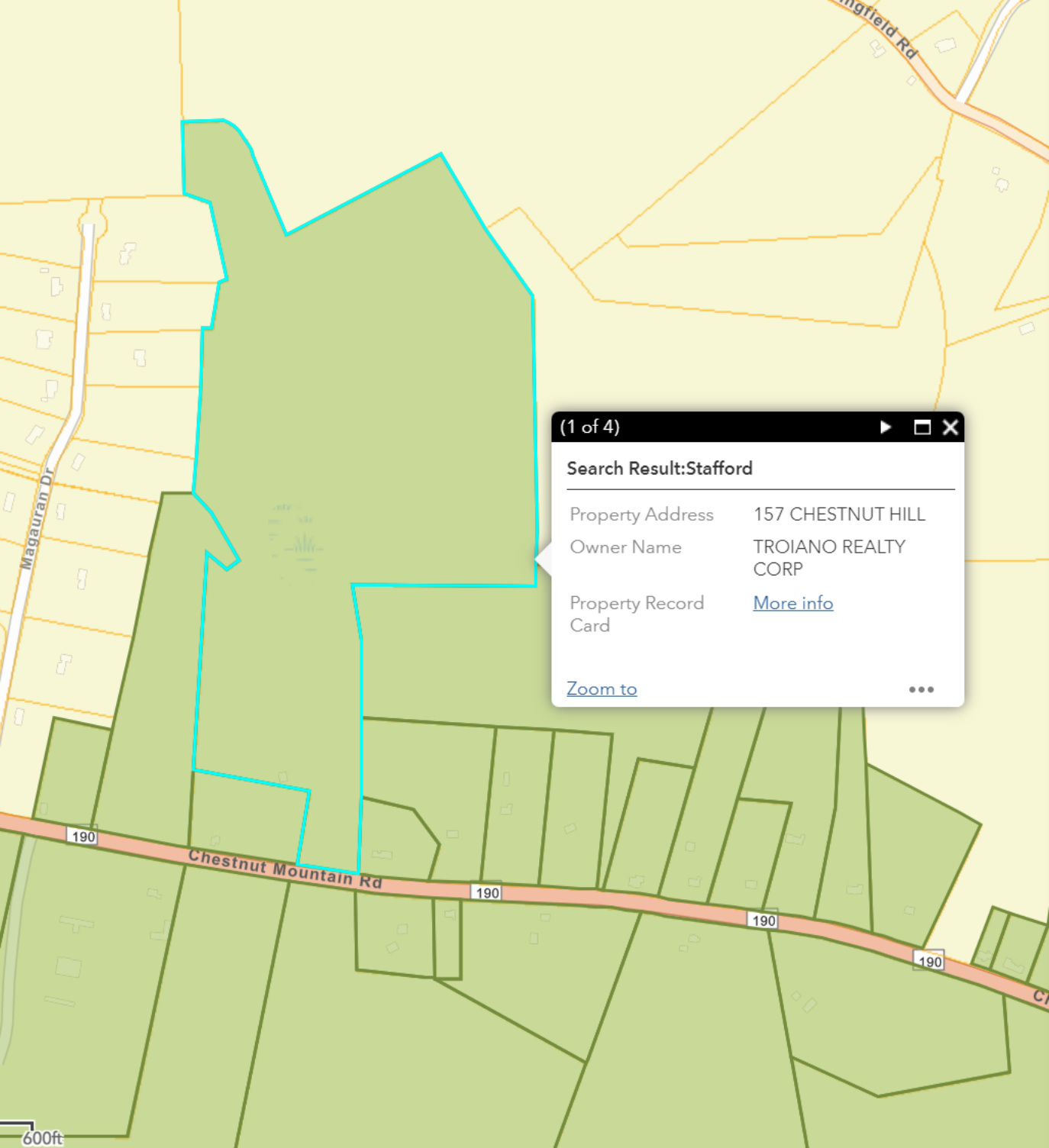
Sincerely,



Derek Hartzell, PE  
Technical Specialist

# **ATTACHMENT 5**





(1 of 4) [Navigation icons]

**Search Result:Stafford**

---

Property Address	157 CHESTNUT HILL
Owner Name	TROIANO REALTY CORP
Property Record Card	<a href="#">More info</a>

[Zoom to](#) [More options icon]

600ft



- [Search](#)
- [Street Listing](#)
- [Sales Search](#)
- [Feedback](#)
- [Back](#)
- [Home](#)

## 157 CHESTNUT HILL

🔍 Sales
🖨️ Print
📍 Map It

<b>Location</b>	157 CHESTNUT HILL	<b>Mblu</b>	34 / / 32 / /
<b>Acct#</b>	00167400	<b>Owner</b>	TROIANO REALTY CORP
<b>Assessment</b>	\$313,530	<b>Appraisal</b>	\$447,900
<b>PID</b>	1896	<b>Building Count</b>	1

### Current Value

Appraisal			
Valuation Year	Improvements	Land	Total
2020	\$46,400	\$401,500	\$447,900
Assessment			
Valuation Year	Improvements	Land	Total
2020	\$32,480	\$281,050	\$313,530


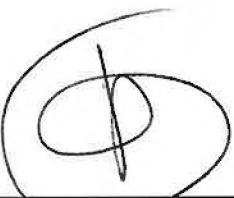
### Owner of Record

<b>Owner</b>	TROIANO REALTY CORP	<b>Sale Price</b>	\$0
<b>Co-Owner</b>	%ANTONIO TROIANO	<b>Certificate</b>	1
<b>Address</b>	777 ENFIELD ST ENFIELD, CT 06082	<b>Book &amp; Page</b>	0110/0503
		<b>Sale Date</b>	01/27/1961
		<b>Instrument</b>	00

# **ATTACHMENT 6**



**STAFFORD 3**  
**Certificate of Mailing — Firm**

Name and Address of Sender  Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	TOTAL NO. of Pieces Listed by Sender  <div style="text-align: center; font-size: 2em;">3</div>	TOTAL NO. of Pieces Received at Post Office™  <div style="text-align: center; font-size: 2em;">3</div>	Affix Stamp Here <i>Postmark with Date of Receipt.</i>  <div style="text-align: right;">           neopost<sup>3d</sup>            01/28/2022  <b>US POSTAGE \$002.99<sup>0</sup></b>              ZIP 06103            041L12203937         </div>
	Postmaster, per (name of receiving employee)  <div style="text-align: center; font-size: 2em;">  </div>		

USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)	Postage	Fee	Special Handling	Parcel Airlift
1.	Sal Titus, First Selectman Town of Stafford Warren Memorial Town Hall 1 Main Street Stafford Springs, CT 06076				
2.	David Perkins, Zoning Enforcement Officer Town of Stafford Warren Memorial Town Hall 1 Main Street Stafford Springs, CT 06076				
3.	Troiano Realty Corporation 777 Enfield Street Enfield, CT 06082				
4.					
5.					
6.					

