

October 18, 2023

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**  
**1294 Pleasant Valley Road, Groton, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced address (the “Property”). Cellco’s facility consists of antennas and remote radio heads attached to a tower. Equipment associated with the facility is located on the ground adjacent to the tower. The tower was approved by the Siting Council (“Council”) in June of 2007 (Docket No. 330). Cellco’s use of the tower was approved by the Council in December of 2007 (Petition No. 835). A copy of the Council’s Docket No. 330 Decision and Order and Petition No. 835 Staff Report are included in Attachment 1.

Cellco’s proposed modification involves the installation of four (4) interference mitigation filters (“Filters”) on Cellco’s existing antenna platform and mounting assembly. The Filter specification sheet is 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 Groton’s Town Manager and Land Use Officer. A copy of this letter is being sent to the owner of the Property.

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 filters will be installed on Cellco’s existing antenna platform and mounting assembly.

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Melanie A. Bachman, Esq.  
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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 the Filters will not result in a change to radio frequency (RF) emissions from the facility. Therefore, no new RF emissions information is included in this filing.

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 Report (“SA”) and Antenna Mount Analysis Report (“MA”), the existing tower, foundation, antenna platform and mounting assembly, with certain modifications, can support Cellco’s proposed modifications. A copy of the SA and MA are included in Attachment 3.

A copy of the parcel map and Property owner information is included in Attachment 4. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in Attachment 5.

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).

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

John Burt, Town Manager  
Jonathan Reiner, AICP, Director of Planning  
JFM Enterprises LLC, Property Owner  
Alex Tyurin, Verizon Wireless

# **ATTACHMENT 1**

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DOCKET NO. 330 – Optasite Towers, LLC and Omnipoint } Connecticut  
Communications, Inc. application for a Certificate of }  
Environmental Compatibility and Public Need for the } Siting  
construction, maintenance and operation of a telecommunications }  
facility at 1294 Pleasant Valley Road North in Groton, } Council  
Connecticut.

June 7, 2007

### Decision and Order

Pursuant to the foregoing Findings of Fact and Opinion, the Connecticut Siting Council (Council) finds that the effects associated with the construction, operation, and maintenance of a telecommunications facility including effects on the natural environment; ecological integrity and balance; public health and safety; scenic, historic, and recreational values; forests and parks; air and water purity; and fish and wildlife are not disproportionate either alone or cumulatively with other effects when compared to need, are not in conflict with the policies of the State concerning such effects, and are not sufficient reason to deny the application and therefore directs that a Certificate of Environmental Compatibility and Public Need, as provided by General Statutes § 16-50k, be issued to Optasite Towers, LLC for the construction, maintenance and operation of a wireless telecommunications facility to be located at 1294 Pleasant Valley Road North in Groton, Connecticut.

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

1. The tower shall be designed as a steel monopole and shall be constructed no taller than 140 feet above ground level to provide telecommunications services to both public and private entities.
2. The Certificate Holder shall prepare a Development and Management (D&M) Plan for this site in compliance with Sections 16-50j-75 through 16-50j-77 of the Regulations of Connecticut State Agencies. The D&M Plan shall be served on the Town of Groton and all parties and intervenors, as listed in the service list, and submitted to and approved by the Council prior to the commencement of facility construction and shall include:
  - a) a final site plan(s) of site development to include specifications for the tower, tower foundation, antenna mountings, equipment building, access road, utility line, and landscaping; and
  - b) construction plans for site clearing, water drainage, and erosion and sedimentation control consistent with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended.

3. The Certificate Holder shall, prior to the commencement of operation, provide the Council worst-case modeling of electromagnetic radio frequency power density of all proposed entities' antennas at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin No. 65, August 1997. The Certificate Holder shall ensure a recalculated report of electromagnetic radio frequency power density is submitted to the Council in the event other carriers locate at this facility or if circumstances in operation cause a change in power density above the levels calculated and provided pursuant to this Decision and Order.
4. Upon the establishment of any new state or federal radio frequency standards applicable to frequencies of this facility, the facility granted herein shall be brought into compliance with such standards.
5. The Certificate Holder shall permit public or private entities to share space on the proposed tower for fair consideration, or shall provide any requesting entity with specific legal, technical, environmental, or economic reasons precluding such tower sharing.
6. The Certificate Holder shall provide reasonable space on the tower for no compensation for any Town of Groton public safety services (police, fire and medical services), provided such use can be accommodated and is compatible with the structural integrity of the tower.
7. Unless otherwise approved by the Council, if the facility authorized herein is not fully constructed and providing wireless services within eighteen months from the date of the mailing of the Council's Findings of Fact, Opinion, and Decision and Order (collectively called "Final Decision"), this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made. The time between the filing and resolution of any appeals of the Council's Final Decision shall not be counted in calculating this deadline.
8. Any request for extension of the time period referred to in Condition 7 shall be filed with the Council not later than 60 days prior to the expiration date of this Certificate and shall be served on all parties and intervenors, as listed in the service list, and the Town of Groton. Any proposed modifications to this Decision and Order shall likewise be so served.
9. If the facility ceases to provide wireless services for a period of one year, this Decision and Order shall be void, and the Certificate Holder shall dismantle the tower and remove all associated equipment or reapply for any continued or new use to the Council before any such use is made.
10. The Certificate Holder shall remove any nonfunctioning antenna, and associated antenna mounting equipment, within 60 days of the date the antenna ceased to function.

11. In accordance with Section 16-50j-77 of the Regulations of Connecticut State Agencies, the Certificate Holder shall provide the Council with written notice two weeks prior to the commencement of site construction activities. In addition, the Certificate Holder shall provide the Council with written notice of the completion of site construction and the commencement of site operation.

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

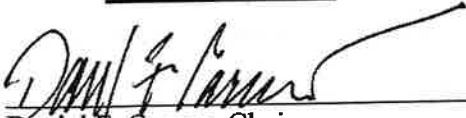

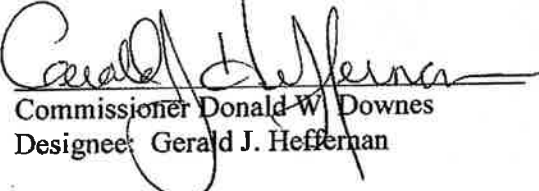


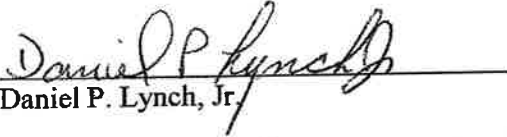
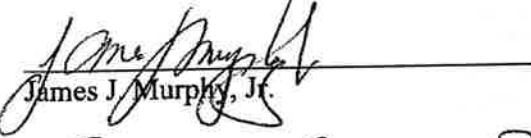

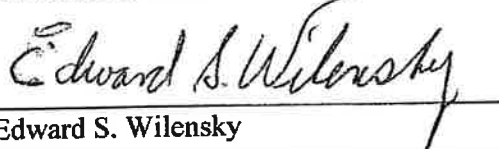
By this Decision and Order, the Council disposes of the legal rights, duties, and privileges of each party named or admitted to the proceeding in accordance with Section 16-50j-17 of the Regulations of Connecticut State Agencies.

The parties and intervenors in this proceeding are:

<b>Status Granted</b>	<b>Status Holder (name, address &amp; phone number)</b>	<b>Representative (name, address &amp; phone number)</b>
<b>Applicant</b>	Optasite Towers, LLC One Research Drive, Suite 200C Westborough, MA 01581  Omnipoint Communications, Inc. 100 Filley Street Bloomfield, CT 06002	Julie Kohler, Esq. Carrie L. Larson, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604 (203) 368-0211 (203) 394-9901 fax <a href="mailto:jkohler@cohenandwolf.com">jkohler@cohenandwolf.com</a> <a href="mailto:clarson@cohenandwolf.com">clarson@cohenandwolf.com</a>

**CERTIFICATION**

The undersigned members of the Connecticut Siting Council (Council) hereby certify that they have heard this case, or read the record thereof, in a Certificate of Environmental Compatibility and Public Need (Certificate) for the construction, maintenance and operation of a telecommunications facility at 1294 Pleasant Valley Road North, Groton, Connecticut; and voted as follows to approve the proposed facility located at 1294 Pleasant Valley Road North, Groton, Connecticut:

<u>Council Members</u>	<u>Vote Cast</u>
 Daniel F. Caruso, Chairman	Yes
 Colin C. Tait, Vice Chairman	Yes
 Commissioner Donald W. Downes Designee: Gerald J. Heffernan	Yes
 Commissioner Gina McCarthy Designee: Brian J. Emerick	Abstain
 Philip T. Ashton	Yes
 Daniel P. Lynch, Jr.	Abstain
 James J. Murphy, Jr.	Yes
 Dr. Barbara Currier Bell	Yes
 Edward S. Wilensky	Yes

Dated at New Britain, Connecticut, June 7, 2007.

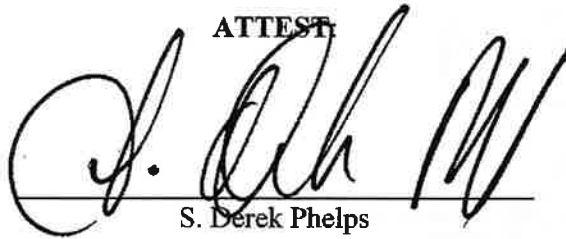
STATE OF CONNECTICUT )

ss. New Britain, Connecticut :

COUNTY OF HARTFORD )

I hereby certify that the foregoing is a true and correct copy of the Findings of Fact, Opinion, and Decision and Order issued by the Connecticut Siting Council, State of Connecticut.

ATTEST:



S. Derek Phelps  
Executive Director  
Connecticut Siting Council

I certify that a copy of the Findings of Fact, Opinion, and Decision and Order in Docket No. 330 has been forwarded by Certified First Class Return Receipt Requested mail on June 12, 2007, to all parties and intervenors of record as listed on the attached service list, dated February 26, 2007.

ATTEST:



Lisa A. Fontaine  
Administrative Assistant  
Connecticut Siting Council



**LIST OF PARTIES AND INTERVENORS**  
**SERVICE LIST**

<b>Status Granted</b>	<b>Status Holder (name, address &amp; phone number)</b>	<b>Representative (name, address &amp; phone number)</b>
<b>Applicant</b>	Optasite Towers LLC and Omnipoint Communications, Inc.	Julie Kohler, Esq. Carrie L. Larson, Esq. Deborah S. Erickson, Esq. Cohen and Wolf, P.C. 1115 Broad Street Bridgeport, CT 06604 (203) 368-0211 (203) 394-9901 fax <a href="mailto:jkohler@cohenandwolf.com">jkohler@cohenandwolf.com</a> <a href="mailto:clarson@cohenandwolf.com">clarson@cohenandwolf.com</a> <a href="mailto:derickson@cohenandwolf.com">derickson@cohenandwolf.com</a>

Petition No. 835  
Cellco Partnership (Verizon)  
Groton, Connecticut  
Staff Report  
December 6, 2007

On November 20, 2007, the Connecticut Siting Council (Council) received a petition from Cellco Partnership d/b/a Verizon Wireless (Verizon) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for the ten-foot extension of a telecommunications tower located at 1294 Pleasant Valley Road North in Groton. The petition was field reviewed by Council member Jerry Murphy and Council staff member David Martin on December 5, 2007. Rachel Mayo, of Robinson & Cole, attended the field review representing Verizon. Town officials, Optasite, and abutting landowners were notified of the proposal.

Verizon seeks to add ten feet onto a newly built 140-foot monopole tower that was recently approved as Docket 330. Verizon would install twelve panel antennas at a center line height of 147 feet on a low profile platform. It would locate its ground equipment within a 12-foot by 30 equipment shelter to be erected within the facility's compound.

The proposed facility would enable Verizon to provide service along portions of Route 12 in Groton and Route 32 in New London that are not currently covered. It would also provide service to the U.S. Naval Submarine Base in Groton and help off-load calls from Verizon's adjacent sites. Verizon's RF engineers have concluded that Verizon's antennas could not satisfy the company's coverage objectives from 127 feet, the next highest available elevation on the existing tower.

The combined power density of Verizon's proposed antennas and T-Mobile's existing antennas would represent 10.08% of the FCC maximum exposure limit.

The area around the tower is characterized by scattered residential development on the east side of Route 12. The Groton submarine base is located on the west side of Route 12 and is clearly visible from the facility.

The existing tower is not readily visible from Route 12, even with leaves off the trees. Views of the tower from Pleasant Valley Road North are generally restricted to the immediate vicinity of the tower. Because the tower is set down in a lower elevation on its host property, it does not appear high above the tree line but more at eye level of drivers traveling on Pleasant Valley Road North. An extra ten feet of height should not make a significant difference in the tower's visibility in the surrounding area.

Verizon's extension would have minimal impact on the surrounding vicinity and would enable the company to fill a significant existing coverage gap. Staff recommends approval.

Existing tower



View of tower from Pleasant Valley Road North



# **ATTACHMENT 2**

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# BSF0020F3V1-1

## TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The BSF0020 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the BSF0020 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the BSF0020 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.



### FEATURES

- Passes full 700 and 850 bands
- Low insertion loss
- Rejection of 900MHz uplink
- DC/AISG pass
- Twin unit
- Dual twin mounting available

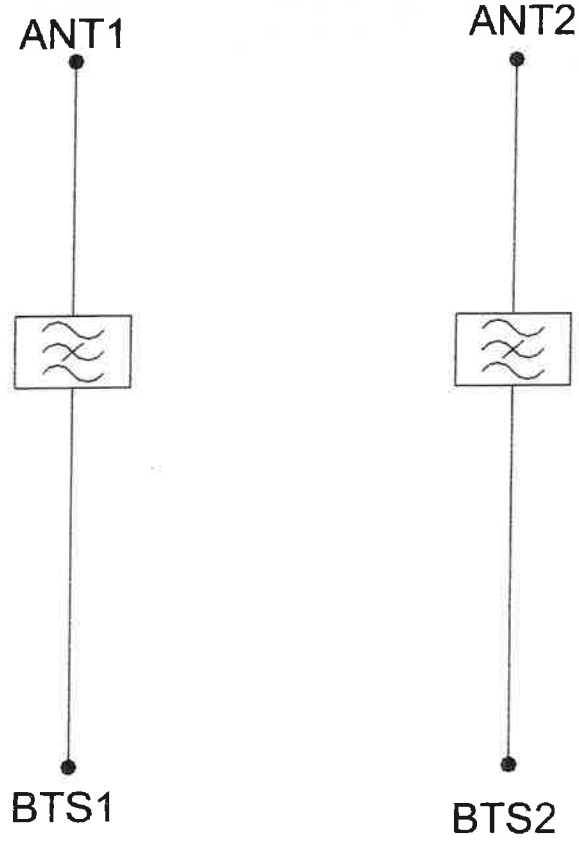
### TECHNICAL SPECIFICATIONS

BAND NAME	700 PATH / 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 56W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
<b>ELECTRICAL</b>		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
<b>DC / AISG</b>		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
<b>ENVIRONMENTAL</b>		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C ; -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m   8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	
<b>MECHANICAL</b>		
Dimensions H x D x W	269 x 277 x 80mm   10.60 x 10.90 x 3.15in (Excluding brackets and connectors)	
Weight	8.0 kg   17.6 lbs (no bracket)	
Finish	Powder coated, light grey (RAL7035)	
Connectors	RF: 4.3-10 (F) x 4	
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.	

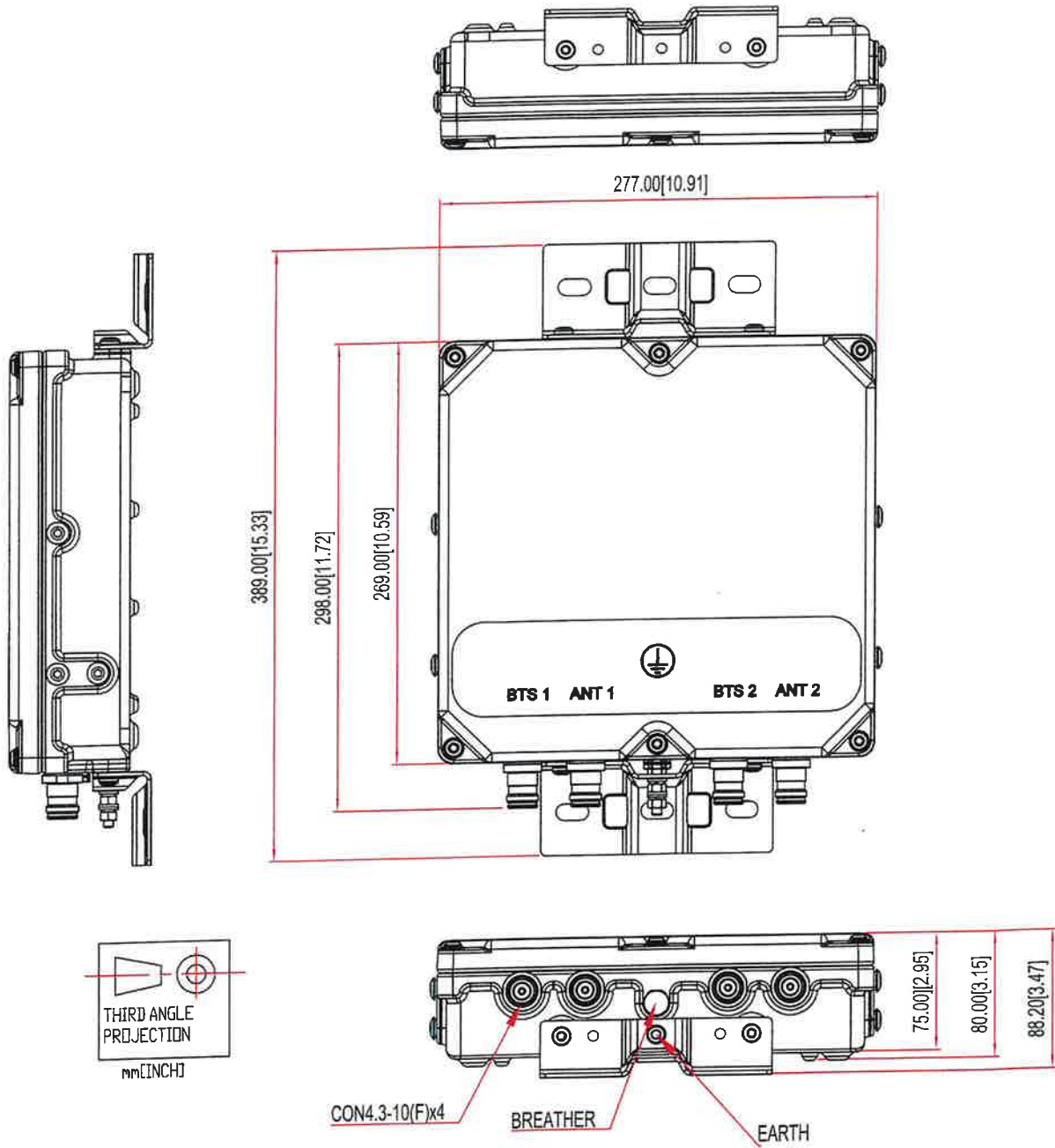
### ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AISG PASS NO BRACKET	4.3-10 (F)
BSF0020F3V1-1	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



**MECHANICAL BLOCK DIAGRAM**





# **ATTACHMENT 3**

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**Tower Engineering Solutions**

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

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## **Post-Mod Structural Analysis Report**

**Existing 150 ft SABRE Monopole**  
**Customer Name: SBA Communications Corp**  
**Customer Site Number: CT13075-A**  
**Customer Site Name: New London**  
**Carrier Name: Verizon (App#: 232518, V#2)**  
**Carrier Site ID / Name: 5000248045 / GROTON 2 CT**  
**Site Location: 1294 Pleasant Valley Road North**  
**Groton, Connecticut**  
**New London County**  
**Latitude: 41.399972**  
**Longitude: -72.079222**

### **Analysis Result:**

**Max Structural Usage: 76.3% [Pass]**  
**Max Foundation Usage: 93.0% [Pass]**  
**Pre-Mod Installation: Approved**  
**Report Prepared By : Jerin Tasnim**





**Tower Engineering Solutions**

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

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## **Post-Mod Structural Analysis Report**

**Existing 150 ft SABRE Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT13075-A**

**Customer Site Name: New London**

**Carrier Name: Verizon (App#: 232518, V#2)**

**Carrier Site ID / Name: 5000248045 / GROTON 2 CT**

**Site Location: 1294 Pleasant Valley Road North**

**Groton, Connecticut**

**New London County**

**Latitude: 41.399972**

**Longitude: -72.079222**

### **Analysis Result:**

**Max Structural Usage: 76.3% [Pass]**

**Max Foundation Usage: 93.0% [Pass]**

**Pre-Mod Installation: Approved**

**Report Prepared By : Jerin Tasnim**

## Introduction

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

The proposed modification by **TES** listed under Sources of Information was considered completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Tower Design prepared by Sabre, job # 08-07173, dated 08/09/2007
<b>Foundation Drawing</b>	Foundation Design prepared by Sabre, job # 08-07173-E, dated 08/09/2007
<b>Geotechnical Report</b>	Geotechnical Report prepared by Gemini Geotechnical Associates, job # 07079CT, dated 07/20/2007
<b>Mount Analysis</b>	Maser Consulting, Project # 20777642A, dated 04/15/2021
<b>Existing Modification</b>	Sabre, Job # 08-01005, dated 07/01/2008
<b>Proposed Modification</b>	TES Job # 141958

## Analysis Criteria

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

<b>Wind Speed Used in the Analysis:</b>	126.0 mph (3-Sec. Gust) (Ultimate wind speed)
<b>Wind Speed with Ice:</b>	50 mph (3-Sec. Gust) with 1" radial ice concurrent
<b>Service Load Wind Speed:</b>	60 mph + 0" Radial ice
<b>Standard/Codes:</b>	TIA-222-H / 2021 IBC / 2022 Connecticut State Building Code
<b>Exposure Category:</b>	C
<b>Risk Category:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_s = 0.192$ , $S_1 = 0.053$

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
-	150.5	3	Antel - BXA-80063/4CF ___ 5° - Panel	Low Profile Platform + Modification [VZSMART-PLK 1+PLK-5+ PLK7]	((2) 1-5/8" Hybriflex Fiber (6) 1-5/8"	Verizon
-	149.5	2	RFS DB-T1-6Z-8AB-0Z - OVP			
-		3	JMA Wireless MX06FRO660-02 - Panel			
-		3	JMA Wireless MX10FRO660 - Panel			
-		3	Samsung MT6407-77A - Panel			
-		3	Samsung B2/B66A RRH-BR049 (RFV01U-D1A)			
-		3	Samsung B5/B13 RRH-BR04C (RFV01U-D2A)			
-		3	Samsung CBRS RRH-RT4401-48A			
10	140.0	3	RFS APXVAARR24_43-U-NA20 - Panel	(1) Low Profile Platform (1) Support Rail Kit w/ TARM (MS-P-TARM_6) (1) Heavy collar mount (MS-H1436) + (3) 2" PST Antenna mount pipe	(10) 1 5/8" (4) 1 5/8" Fiber	T-Mobile
11		3	Ericsson AIR32 KRD901146-1_B66A_B2A (Octo) - Panel			
12		3	Ericsson AIR6449 B41 - Panel			
13		3	Ericsson KRY 112 144/1			
14		3	Ericsson 4449 B71+B85 - RRU			
15		3	Ericsson 4415 B25-RRU			
16	129.0	3	AIR 6419 B77G - Panel	Commscope MTC3607 Platform w/ Handrail & Kicker + Sitepro PRK-SFS-L (Handrail Reinforcement Kit)	(4) 1/2" Fiber (8) 3/4" DC (3) 3/8" RET	AT&T
17	127.0	3	Quintel QD8616-7 - Panel			
18		3	CCI - DMP65R-BU8DA - Panel			
19		3	Kaelus DBCT108F1V92-1 Diplexer			
20		3	Ericsson RRUS 4478 B14 - RRU			
21		3	Ericsson RRUS 4478 B5 - RRU			
22		3	Ericsson RRUS 4415 B25 - RRU			
23		3	Ericsson RRUS 32 - RRU			
24		3	Ericsson RRUS 4426 B66 - RRU			
25		3	Ericsson RRUS 4449 B5/B12 - RRU			
26		3	Ericsson 2012 B29 - RRU			
27		3	Raycap DC6-48-60-18-8F - OVP			
28		1	Raycap DC6-48-60-18-8C-EV - OVP			
29	125.0	3	Ericsson AIR 6449 B77D - Panel	CommScope MC-PK8-DSH	(1) 1.6" Hybrid	Dish Wireless
30	117.0	3	JMA Wireless MX08FRO665-21 - Panel			
31		3	Fujitsu TA08025-B605			
32		3	Fujitsu TA08025-B604			
33		1	Raycap RDIDC-9181-PF-48			

Note: AT&T loading includes FirstNET equipment

## 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
1	150.5	3	Antel - BXA-80063/4CF ___ 5° - Panel	Low Profile Platform + Modification [VZSMART-PLK 1+PLK5+ PLK7]	(2) 1-5/8" Hybriflex Fiber (6) 1-5/8"	Verizon
2	149.0	3	JMA Wireless MX06FRO660-02 - Panel			
3		3	JMA Wireless MX10FRO660 - Panel			
4		3	Samsung MT6407-77A - Panel			
5		3	Samsung B2/B66A RRH-BR049 (RFV01U-D1A) - RRU			
6		3	Samsung B5/B13 RRH-BR04C (RFV01U-D2A) - RRU			
7		3	Samsung CBRS RRH-RT4401-48A - RRU			
8		2	RFS DB-T1-6Z-8AB-0Z – OVP			
9		4	Kaelus BSF0020F3V1-1 – Filter			

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

## **Analysis Results**

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

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	<b>76.3%</b>	<b>71.6%</b>	<b>65.2%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	4786.63	41.2	52.3

The foundation, with the proposed TES modifications referenced in this analysis included, was analyzed using the supplied documents and soils report and was found adequate.

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

Operational characteristics of the tower are found to be within the limits prescribed by TIA-222 for the installed antennas. The maximum twist/sway at the elevation of the proposed equipment is 1.2291 degrees under the operational wind speed as specified in the Analysis Criteria.

### **Conclusions**

Based on the analysis results, the structure and its foundation will be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the TIA-222-H Standard after the following proposed modification is successfully completed.

- Proposed modification design drawing by TES Job # 141958

### **Pre-Mod Installation Determination**

We have also checked this tower to determine if the proposed Verizon equipment loading can be installed prior to the completion of the required modifications. We ran a reduced wind loading case as required by TIA-322 considering a construction period of no more than 6 months.

The tower and foundations passed, so the Carrier can proceed and install their proposed loading prior to the mods completion. Please be aware that this approval is being provided and is based on the method outlined in TIA-322. This approval is not a blanket approval and there is still a risk that the tower will experience a wind event that cannot be predicted by TIA-322 or our Engineers. In the event of an unforeseen wind event, Tower Engineering Solutions will not be liable nor responsible for damage to the tower or the Carriers equipment. Additionally, the tower cannot go beyond the 6 month construction period without the modifications being completed. If the modifications cannot be completed within 6 months from the completed installation of the Carrier's proposed equipment, TES must be notified immediately for further review.



## Standard Conditions

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

**Usage Diagram - Max Ratio 76.27% at 100.8ft**

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)

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

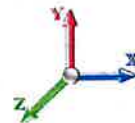
8/30/2023



Page: 1

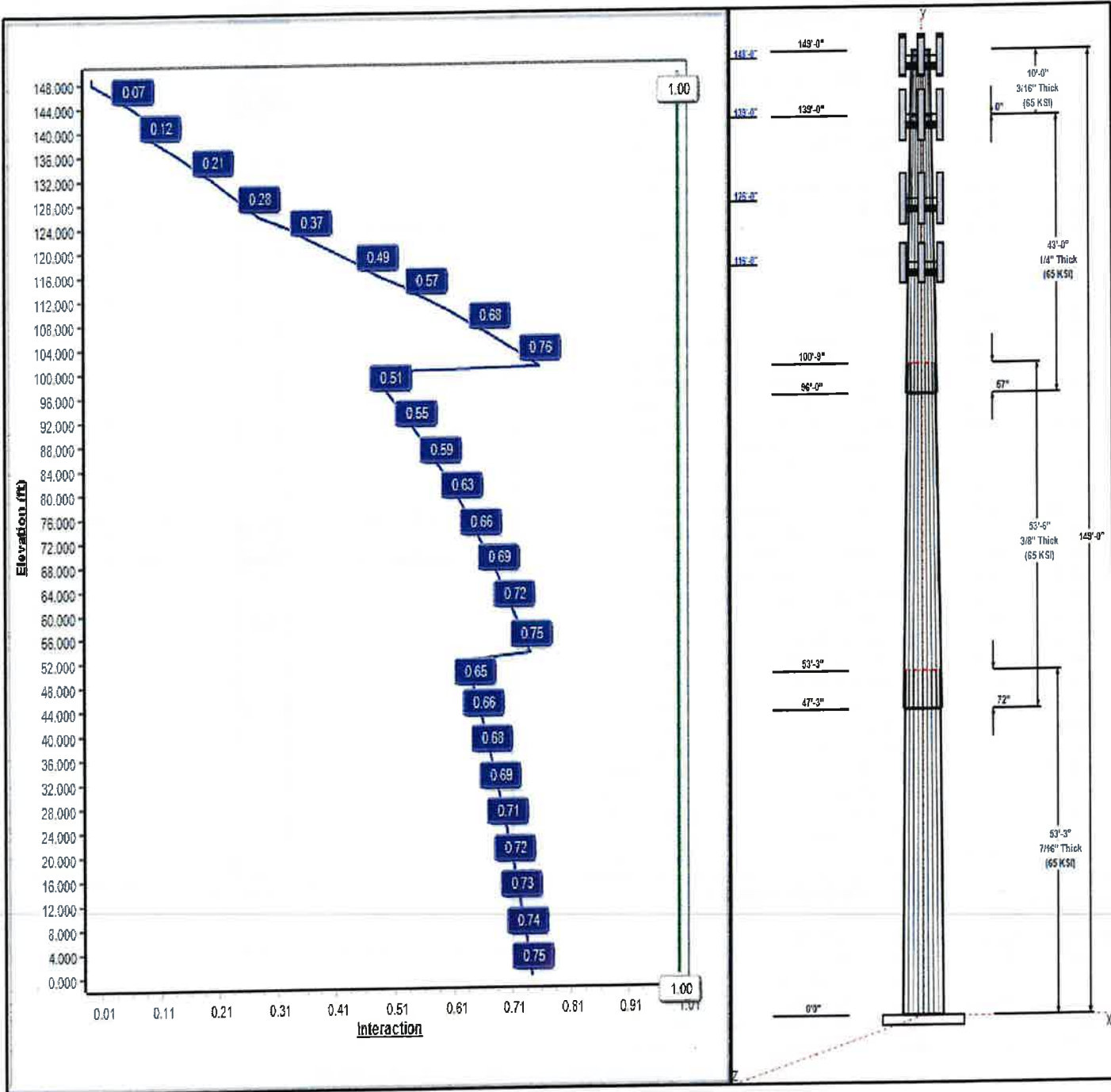
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.00

**Load Case : 1.2D + 1.0W 126 mph Wind**



**Iterations:** 26

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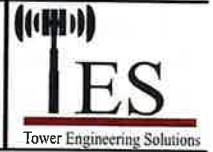
**Structure: CT13075-A-SBA**

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

**Base Shape:** 18 Sided  
**Taper:** 0.23597

8/30/2023

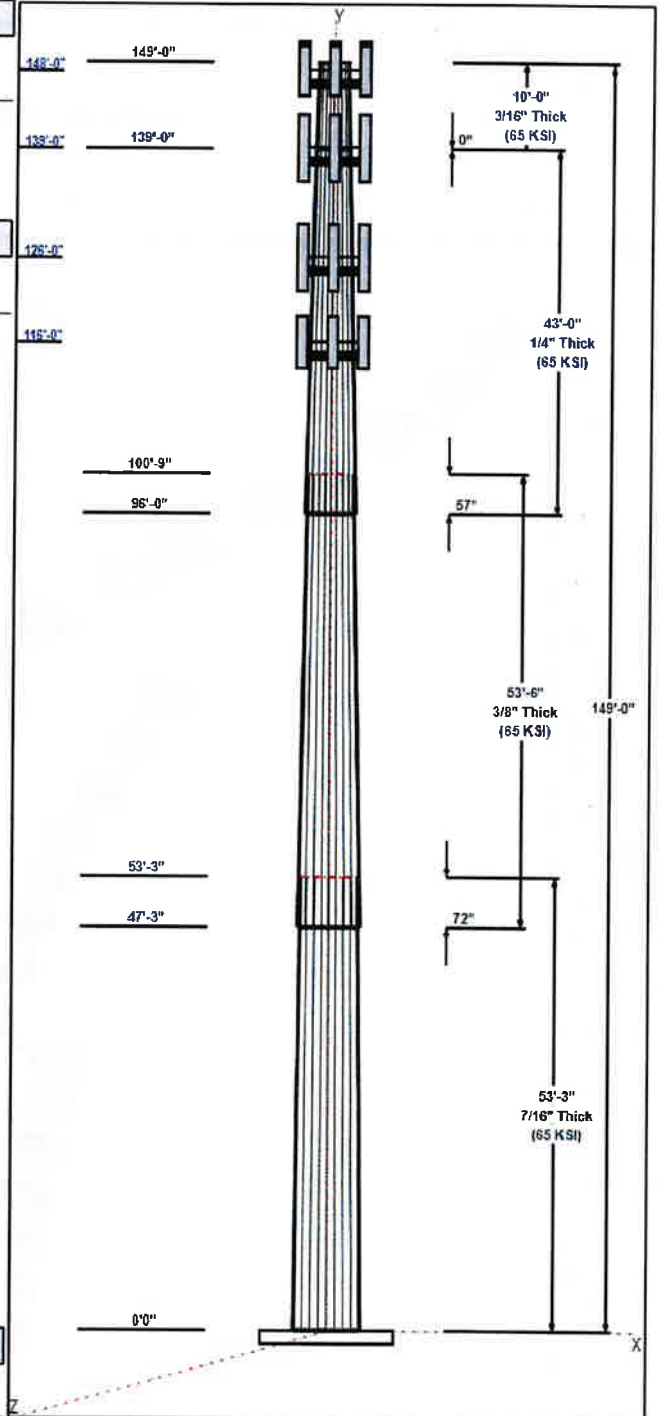
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Shaft Properties							
Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	53.25	45.74	58.26	0.438		0.23597	65
2	53.50	35.32	47.90	0.375	Slip	0.23597	65
3	43.00	26.83	36.94	0.250	Slip	0.23597	65
4	10.00	24.35	26.70	0.188	Butt	0.23597	65

Discrete Appurtenances				
Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
148.00	148.00	2	RFS DB-T1-6Z-8AB-0Z	Verizon
148.00	149.50	3	Antel BXA-80063/4CF	Verizon
148.00	148.00	3	MX06FRO660-02	Verizon
148.00	148.00	3	MX10FRO660	Verizon
148.00	148.00	3	MT6407-77A	Verizon
148.00	148.00	3	B2/B66A RRH-BR049	Verizon
148.00	148.00	3	B5/B13 RRH-BR04C	Verizon
148.00	148.00	3	RT4401-48A	Verizon
148.00	148.00	4	BSF0020F3V1-1	Verizon
148.00	148.00	1	Low Profile Platform	Verizon
139.00	139.00	3	AIR6449 B41	T-Mobile
139.00	139.00	3	AIR32	T-Mobile
139.00	139.00	3	APXVAARR24_43-U-NA20	T-Mobile
139.00	139.00	3	KRY 112 144/1	T-Mobile
139.00	139.00	1	Low Profile Platform	T-Mobile
139.00	139.00	3	4449 B71 + B12	T-Mobile
139.00	139.00	3	RRUS 4415 B25	T-Mobile
126.00	126.00	3	Ericsson RRUS 32 RRU	AT&T
126.00	126.00	3	Raycap DC6-48-60-18-8F	AT&T
126.00	126.00	3	Kaelus DBCT108F1V92-1	AT&T
126.00	126.00	3	Ericsson RRUS 4426 B66	AT&T
126.00	126.00	3	Ericsson RRUS 4415 B25	AT&T
126.00	126.00	3	Ericsson RRUS 4478 B5	AT&T
126.00	126.00	3	Ericsson RRUS 4478 B14	AT&T
126.00	126.00	1	MTC3607 Platform + HR &	AT&T
126.00	126.00	3	QD8616-7	AT&T
126.00	126.00	3	DMP65R-BU8DA	AT&T
126.00	128.00	3	AIR 6419 B77G	AT&T
126.00	124.00	3	AIR 6449 B77D	AT&T
126.00	126.00	3	RRUS 4449 B5/B12	AT&T
126.00	126.00	3	Ericsson 2012 B29	AT&T
126.00	126.00	1	DC6-48-60-18-8C-EV	AT&T
116.00	116.00	3	TA08025-B605	Dish Wireless
116.00	116.00	3	TA08025-B604	Dish Wireless
116.00	116.00	1	RDIDC-9181-OF-48	Dish Wireless
116.00	116.00	1	MC-PK8-DSH	Dish Wireless
116.00	116.00	3	MX08FRO665-21	Dish Wireless

Linear Appurtenances				
Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	149.00	Outside	Safety Cable	
0.00	149.00	Outside	Step bolts (ladder)	
0.00	148.00	Inside	1 5/8" Coax	Verizon
0.00	148.00	Inside	1 5/8" Hybriflex Fiber	Verizon
0.00	139.00	Inside	1 5/8" Coax	T-Mobile



**Structure: CT13075-A-SBA**

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

**Base Shape:** 18 Sided  
**Taper:** 0.23597

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0.00	139.00	Inside	1 5/8" Fiber	T-Mobile
0.00	126.00	Inside	1/2" Fiber	AT&T
0.00	126.00	Inside	3/4" DC	AT&T
0.00	126.00	Inside	3/8" RET	AT&T
0.00	116.00	Inside	1.6" Hybrid	Dish Wireless

**Anchor Bolts**

Qty	Specifications	Grade (ksi)	Arrangement
20	2.25" 18J	75.0	Cluster

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
2.7500	65.4	60.0	Clipped

**Reactions**

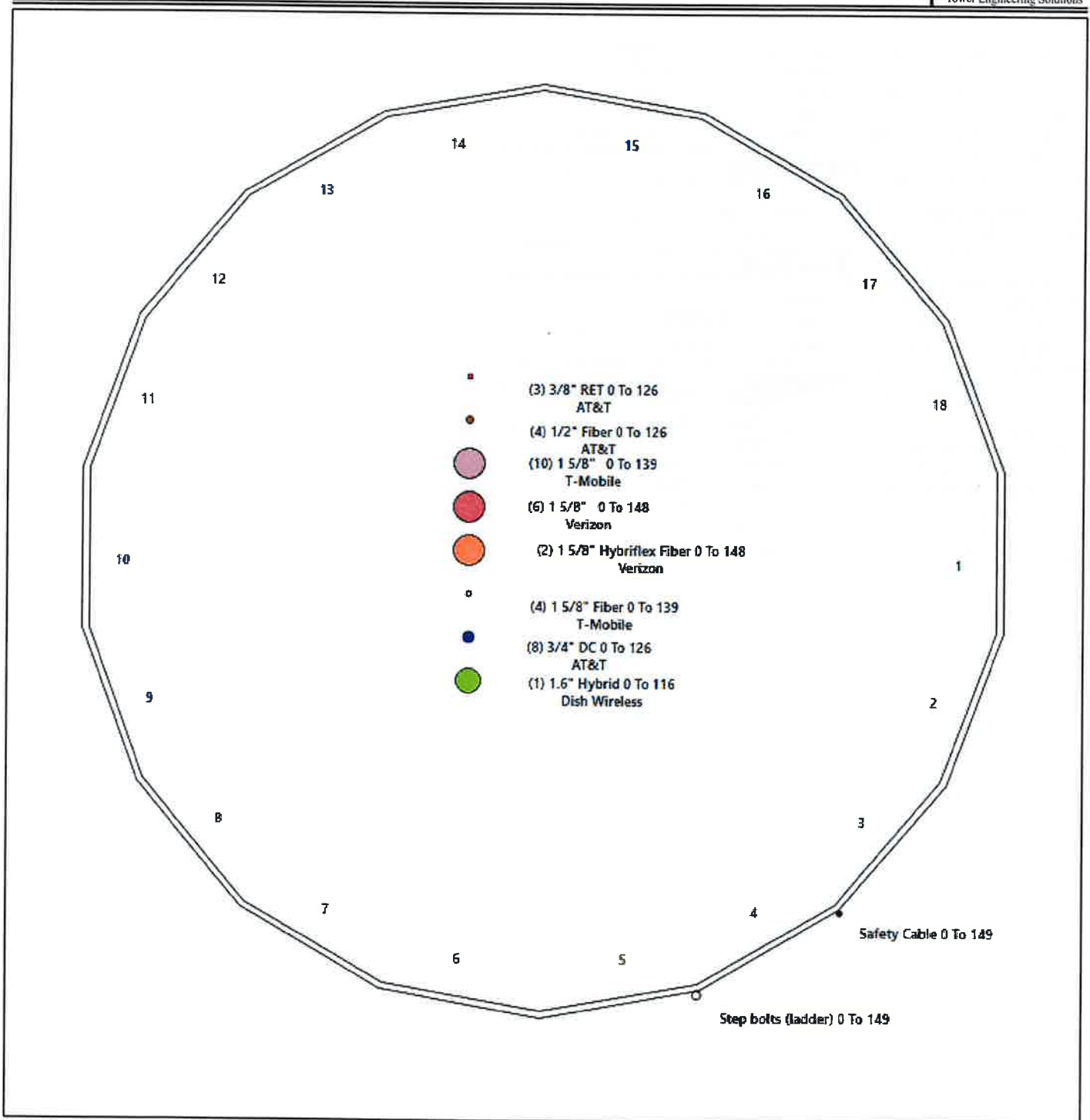
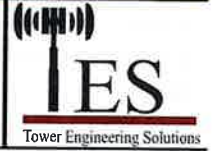
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 126 mph Wind	4786.6	42.0	52.3
0.9D + 1.0W 126 mph Wind	4738.2	42.0	39.2
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1154.8	10.6	71.8
1.2D + 1.0Ev + 1.0Eh	112.6	0.8	54.1
0.9D + 1.0Ev + 1.0Eh	111.5	0.8	41.0
1.0D + 1.0W 60 mph Wind	966.1	8.5	43.6

Structure: CT13075-A-SBA - Coax Line Placement

Type: Monopole  
Site Name: New London  
Height: 149.00 (ft)

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## Shaft Properties

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	R	53.250	0.4375	65		0.00	12,968
2	R	53.500	0.3750	65	Slip	72.00	8,930
3	R	43.000	0.2500	65	Slip	57.00	3,671
4	R	10.000	0.1875	65	Flange	0.00	513
<b>Total Shaft Weight:</b>							<b>26,081</b>

### Bottom

### Top

Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	Ix (in^4)	W/t Ratio	D/t Ratio	Taper
1	58.26	0.00	80.29	33916.66	22.07	133.17	45.74	53.25	62.84	16262.1	17.01	104.5	0.235973
2	47.90	47.25	56.56	16141.43	21.11	127.73	35.32	100.75	41.54	6392.46	15.18	94.19	0.235973
3	36.94	96.00	29.11	4951.39	24.64	147.76	26.83	139.00	21.06	1874.74	17.49	107.3	0.235973
4	26.70	139.0	15.78	1401.19	23.70	142.40	24.35	149.00	14.37	1059.37	21.48	129.8	0.235973

## Load Summary

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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### Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
1	148.00	RFS DB-T1-6Z-8AB-0Z	2	44.00	4.80	0.90	120.70	5.365	0.90	0.00	0.00
2	148.00	Antel BXA-80063/4CF	3	9.90	4.71	0.74	83.24	5.330	0.76	0.00	1.50
3	148.00	MX06FRO660-02	3	57.00	9.98	0.87	225.36	10.880	0.88	0.00	0.00
4	148.00	MX10FRO660	3	57.30	9.61	0.78	206.27	10.495	0.79	0.00	0.00
5	148.00	MT6407-77A	3	87.10	4.69	0.70	161.72	5.290	0.71	0.00	0.00
6	148.00	B2/B66A RRH-BR049	3	84.40	1.88	0.67	118.20	2.243	0.67	0.00	0.00
7	148.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	70.30	1.88	0.67	102.34	2.243	0.75	0.00	0.00
8	148.00	RT4401-48A	3	18.64	0.86	0.67	33.85	1.116	0.67	0.00	0.00
9	148.00	BSF0020F3V1-1	4	17.60	0.96	0.67	33.16	1.225	0.67	0.00	0.00
10	148.00	Low Profile Platform	1	2262.00	48.20	1.00	3840.01	70.617	1.00	0.00	0.00
11	139.00	AIR6449 B41	3	103.00	5.65	0.71	193.78	6.279	0.71	0.00	0.00
12	139.00	AIR32 KR0901146-1_B66A_B2A	3	132.20	6.51	0.87	246.10	7.236	0.87	0.00	0.00
13	139.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.75	392.91	21.482	0.75	0.00	0.00
14	139.00	KRY 112 144/1	3	15.40	0.71	0.75	28.53	1.123	0.75	0.00	0.00
15	139.00	Low Profile Platform	1	1863.50	35.03	1.00	3155.44	51.221	1.00	0.00	0.00
16	139.00	4449 B71 + B12	3	73.20	1.97	0.67	111.43	2.347	0.67	0.00	0.00
17	139.00	RRUS 4415 B25	3	46.00	1.64	0.67	73.21	1.981	0.67	0.00	0.00
18	126.00	Ericsson RRUS 32 RRU	3	77.00	3.31	0.67	105.27	2.018	0.67	0.00	0.00
19	126.00	Raycap DC6-48-60-18-8F	3	31.80	2.20	0.67	72.34	2.887	0.67	0.00	0.00
20	126.00	Kaelus DBCT108F1V92-1 Diplexer	3	19.80	0.70	0.67	33.69	0.824	0.67	0.00	0.00
21	126.00	Ericsson RRUS 4426 B66 RRU	3	48.50	1.15	0.67	71.13	1.449	0.67	0.00	0.00
22	126.00	Ericsson RRUS 4415 B25 RRU	3	44.10	1.86	0.67	75.20	2.235	0.67	0.00	0.00
23	126.00	Ericsson RRUS 4478 B5 RRU	3	59.90	1.84	0.67	91.95	2.200	0.67	0.00	0.00
24	126.00	Ericsson RRUS 4478 B14 RRU	3	59.40	1.65	0.67	86.59	1.990	0.67	0.00	0.00
25	126.00	MTC3607 Platform + HR & Kicker	1	2262.00	48.20	1.00	3815.00	70.261	1.00	0.00	0.00
26	126.00	QD8616-7	3	68.20	18.80	0.92	330.90	20.012	0.92	0.00	0.00
27	126.00	DMP65R-BU8DA	3	95.70	17.87	0.73	356.11	19.048	0.73	0.00	0.00
28	126.00	AIR 6419 B77G	3	66.10	3.80	0.76	129.18	4.322	0.76	0.00	2.00
29	126.00	AIR 6449 B77D	3	88.00	4.13	0.85	172.53	4.679	0.85	0.00	-2.00
30	126.00	RRUS 4449 B5/B12	3	71.00	1.97	0.67	106.00	2.329	0.67	0.00	0.00
31	126.00	Ericsson 2012 B29	3	59.40	3.15	0.67	101.81	3.611	0.67	0.00	0.00
32	126.00	DC6-48-60-18-8C-EV	1	16.00	4.78	1.00	97.13	5.360	1.00	0.00	0.00
33	116.00	TA08025-B605	3	75.00	1.96	0.67	109.01	2.325	0.67	0.00	0.00
34	116.00	TA08025-B604	3	63.90	1.96	0.67	96.82	2.325	0.67	0.00	0.00
35	116.00	RDIDC-9181-OF-48	1	21.90	2.01	1.00	56.53	2.380	1.00	0.00	0.00
36	116.00	MC-PK8-DSH	1	1801.56	34.23	1.00	2946.56	62.201	1.00	0.00	0.00
37	116.00	MX08FRO665-21	3	64.50	12.49	0.74	253.66	13.443	0.75	0.00	0.00
<b>Totals:</b>			<b>99</b>	<b>14,009.58</b>			<b>26,792.10</b>				

### Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	149.00	(1) Safety Cable	0.38	Outside
0.00	149.00	(1) Step bolts (ladder)	0.63	Outside
0.00	148.00	(6) 1 5/8" Coax	0.00	Inside
0.00	148.00	(2) 1 5/8" Hybriflex Fiber	0.00	Inside

**Discrete Appurtenances**

No.	Elev (ft)	Description	Qty	No Ice			Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor		
0.00	139.00	(10) 1 5/8" Coax		0.00		Inside					
0.00	139.00	(4) 1 5/8" Fiber		0.00		Inside					
0.00	126.00	(4) 1/2" Fiber		0.00		Inside					
0.00	126.00	(8) 3/4" DC		0.00		Inside					
0.00	126.00	(3) 3/8" RET		0.00		Inside					
0.00	116.00	(1) 1.6" Hybrid		0.00		Inside					



## Shaft Section Properties

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Increment Length:** 2 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in <sup>2</sup> )	Ix (in <sup>4</sup> )	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in <sup>3</sup> )	Weight (lb)
0.00		0.4375	58.260	80.291	33916.7	22.07	133.17	75.4	1146.	0.0
2.00		0.4375	57.788	79.636	33092.9	21.88	132.09	75.7	1127.	544.2
4.00		0.4375	57.316	78.980	32282.7	21.69	131.01	75.9	1109.	539.7
6.00		0.4375	56.844	78.325	31485.7	21.50	129.93	76.1	1091.	535.3
8.00		0.4375	56.372	77.670	30702.0	21.31	128.85	76.3	1072.	530.8
10.00		0.4375	55.900	77.014	29931.4	21.12	127.77	76.6	1054.	526.4
12.00		0.4375	55.428	76.359	29173.8	20.93	126.69	76.8	1036.	521.9
14.00		0.4375	54.956	75.704	28429.1	20.74	125.61	77.0	1018.	517.4
16.00		0.4375	54.484	75.048	27697.2	20.55	124.54	77.2	1001.	513.0
18.00		0.4375	54.012	74.393	26977.9	20.36	123.46	77.5	983.8	508.5
20.00		0.4375	53.541	73.738	26271.2	20.17	122.38	77.7	966.4	504.1
22.00		0.4375	53.069	73.082	25577.0	19.98	121.30	77.9	949.3	499.6
24.00		0.4375	52.597	72.427	24895.1	19.79	120.22	78.1	932.3	495.1
26.00		0.4375	52.125	71.772	24225.4	19.60	119.14	78.4	915.4	490.7
28.00		0.4375	51.653	71.116	23567.9	19.41	118.06	78.6	898.7	486.2
30.00		0.4375	51.181	70.461	22922.3	19.22	116.98	78.8	882.1	481.8
32.00		0.4375	50.709	69.806	22288.7	19.03	115.91	79.0	865.7	477.3
34.00		0.4375	50.237	69.150	21666.8	18.84	114.83	79.2	849.5	472.8
36.00		0.4375	49.765	68.495	21056.6	18.65	113.75	79.5	833.4	468.4
38.00		0.4375	49.293	67.840	20458.0	18.46	112.67	79.7	817.4	463.9
40.00		0.4375	48.821	67.184	19870.8	18.27	111.59	79.9	801.7	459.5
42.00		0.4375	48.349	66.529	19295.0	18.08	110.51	80.1	786.0	455.0
44.00		0.4375	47.877	65.874	18730.4	17.89	109.43	80.4	770.5	450.5
46.00		0.4375	47.405	65.218	18177.0	17.70	108.35	80.6	755.2	446.1
47.25	Bot - Section 2	0.4375	47.110	64.809	17836.6	17.58	107.68	80.7	745.7	276.5
48.00		0.4375	46.933	64.563	17634.5	17.51	107.28	80.8	740.1	309.2
50.00		0.4375	46.461	63.908	17103.0	17.31	106.20	81.0	725.0	818.8
52.00		0.4375	45.989	63.252	16582.2	17.12	105.12	81.3	710.2	810.5
53.25	Top - Section 1	0.3750	46.484	54.879	14741.4	20.45	123.96	0.0	0.0	502.3
54.00		0.3750	46.307	54.669	14572.3	20.36	123.49	77.4	619.8	139.8
56.00		0.3750	45.835	54.107	14127.7	20.14	122.23	77.7	607.1	370.1
58.00		0.3750	45.363	53.545	13692.2	19.92	120.97	78.0	594.5	366.3
60.00		0.3750	44.891	52.984	13265.8	19.70	119.71	78.2	582.0	362.5
62.00		0.3750	44.419	52.422	12848.4	19.48	118.45	78.5	569.7	358.7
64.00		0.3750	43.947	51.860	12439.7	19.25	117.19	78.8	557.5	354.8
66.00		0.3750	43.476	51.299	12039.9	19.03	115.93	79.0	545.5	351.0
68.00		0.3750	43.004	50.737	11648.7	18.81	114.68	79.3	533.5	347.2
70.00		0.3750	42.532	50.175	11266.1	18.59	113.42	79.5	521.7	343.4
72.00		0.3750	42.060	49.613	10891.9	18.37	112.16	79.8	510.1	339.6
74.00		0.3750	41.588	49.052	10526.1	18.14	110.90	80.1	498.5	335.7
76.00		0.3750	41.116	48.490	10168.7	17.92	109.64	80.3	487.1	331.9
78.00		0.3750	40.644	47.928	9819.3	17.70	108.38	80.6	475.8	328.1
80.00		0.3750	40.172	47.367	9478.1	17.48	107.13	80.8	464.7	324.3
82.00		0.3750	39.700	46.805	9144.9	17.26	105.87	81.1	453.7	320.4
84.00		0.3750	39.228	46.243	8819.6	17.03	104.61	81.4	442.8	316.6
86.00		0.3750	38.756	45.681	8502.1	16.81	103.35	81.6	432.1	312.8
88.00		0.3750	38.284	45.120	8192.3	16.59	102.09	81.9	421.5	309.0
90.00		0.3750	37.812	44.558	7890.1	16.37	100.83	82.1	411.0	305.2
92.00		0.3750	37.340	43.996	7595.5	16.15	99.57	82.4	400.6	301.3
94.00		0.3750	36.868	43.435	7308.3	15.93	98.32	82.5	390.4	297.5

Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
96.00	Bot - Section 3	0.3750	36.396	42.873	7028.4	15.70	97.06	82.5	380.3	293.7
98.00		0.3750	35.924	42.311	6755.7	15.48	95.80	82.5	370.4	486.7
100.00		0.3750	35.452	41.749	6490.2	15.26	94.54	82.5	360.6	480.3
100.75	Top - Section 2	0.2500	35.819	28.223	4511.3	23.85	143.28	0.0	0.0	178.5
102.00		0.2500	35.524	27.989	4400.0	23.64	142.10	73.6	244.0	119.5
104.00		0.2500	35.052	27.615	4225.8	23.31	140.21	74.0	237.4	189.2
106.00		0.2500	34.580	27.240	4056.2	22.98	138.32	74.4	231.0	186.7
108.00		0.2500	34.108	26.866	3891.2	22.65	136.43	74.8	224.7	184.1
110.00		0.2500	33.636	26.491	3730.7	22.31	134.55	75.2	218.5	181.6
112.00		0.2500	33.164	26.117	3574.7	21.98	132.66	75.5	212.3	179.0
114.00		0.2500	32.692	25.742	3423.2	21.65	130.77	75.9	206.2	176.5
116.00		0.2500	32.221	25.368	3275.9	21.31	128.88	76.3	200.3	173.9
118.00		0.2500	31.749	24.993	3133.0	20.98	126.99	76.7	194.4	171.4
120.00		0.2500	31.277	24.619	2994.3	20.65	125.11	77.1	188.6	168.8
122.00		0.2500	30.805	24.244	2859.7	20.32	123.22	77.5	182.8	166.3
124.00		0.2500	30.333	23.870	2729.2	19.98	121.33	77.9	177.2	163.7
126.00		0.2500	29.861	23.495	2602.8	19.65	119.44	78.3	171.7	161.2
128.00		0.2500	29.389	23.121	2480.3	19.32	117.56	78.7	166.2	158.6
130.00		0.2500	28.917	22.746	2361.7	18.98	115.67	79.1	160.9	156.1
132.00		0.2500	28.445	22.372	2247.0	18.65	113.78	79.5	155.6	153.5
134.00		0.2500	27.973	21.997	2136.0	18.32	111.89	79.9	150.4	151.0
136.00		0.2500	27.501	21.623	2028.8	17.99	110.00	80.2	145.3	148.4
138.00		0.2500	27.029	21.248	1925.2	17.65	108.12	80.6	140.3	145.9
139.00	Top - Section 3	0.2500	26.793	21.061	1874.7	17.49	107.17	80.8	137.8	72.0
139.00	Bot - Section 4	0.1875	26.700	15.778	1401.2	23.32	142.90	73.5	103.4	
140.00		0.1875	26.464	15.637	1364.1	23.48	141.14	73.8	101.5	53.4
142.00		0.1875	25.992	15.356	1291.9	23.03	138.62	74.3	97.9	105.5
144.00		0.1875	25.520	15.076	1222.3	22.59	136.11	74.8	94.3	103.6
146.00		0.1875	25.048	14.795	1155.3	22.14	133.59	75.4	90.8	101.6
148.00		0.1875	24.576	14.514	1090.7	21.70	131.07	75.9	87.4	99.7
149.00		0.1875	24.340	14.373	1059.4	21.48	129.81	76.1	85.7	49.1
										<b>26081.2</b>

## Wind Loading - Shaft

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.2D + 1.0W 126 mph Wind

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



**Iterations** 26

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	32.647	35.91	571.19	0.630	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	32.647	35.91	566.56	0.630	0.000	2.00	9.820	6.19	222.2	0.0	653.0
4.00		1.00	0.85	32.647	35.91	561.93	0.630	0.000	2.00	9.740	6.14	220.4	0.0	647.7
6.00		1.00	0.85	32.647	35.91	557.31	0.630	0.000	2.00	9.660	6.09	218.6	0.0	642.3
8.00		1.00	0.85	32.647	35.91	552.68	0.630	0.000	2.00	9.580	6.04	216.7	0.0	637.0
10.00		1.00	0.85	32.647	35.91	548.05	0.630	0.000	2.00	9.500	5.99	214.9	0.0	631.6
12.00		1.00	0.85	32.647	35.91	543.42	0.630	0.000	2.00	9.421	5.93	213.1	0.0	626.3
14.00		1.00	0.85	32.647	35.91	538.80	0.630	0.000	2.00	9.341	5.88	211.3	0.0	620.9
16.00		1.00	0.87	33.475	36.82	540.90	0.630	0.000	2.00	9.261	5.83	214.8	0.0	615.6
18.00		1.00	0.89	34.268	37.69	542.53	0.630	0.000	2.00	9.181	5.78	218.0	0.0	610.2
20.00		1.00	0.91	34.998	38.50	543.48	0.630	0.000	2.00	9.101	5.73	220.7	0.0	604.9
22.00		1.00	0.93	35.674	39.24	543.88	0.630	0.000	2.00	9.021	5.68	223.0	0.0	599.5
24.00		1.00	0.95	36.306	39.94	543.79	0.630	0.000	2.00	8.941	5.63	225.0	0.0	594.2
26.00		1.00	0.96	36.899	40.59	543.30	0.630	0.000	2.00	8.861	5.58	226.6	0.0	588.8
28.00		1.00	0.98	37.458	41.20	542.44	0.630	0.000	2.00	8.782	5.53	228.0	0.0	583.5
30.00		1.00	0.99	37.988	41.79	541.27	0.630	0.000	2.00	8.702	5.48	229.1	0.0	578.1
32.00		1.00	1.00	38.491	42.34	539.82	0.630	0.000	2.00	8.622	5.43	230.0	0.0	572.8
34.00		1.00	1.01	38.971	42.87	538.12	0.630	0.000	2.00	8.542	5.38	230.7	0.0	567.4
36.00		1.00	1.03	39.430	43.37	536.19	0.630	0.000	2.00	8.462	5.33	231.2	0.0	562.1
38.00		1.00	1.04	39.869	43.86	534.06	0.630	0.000	2.00	8.382	5.28	231.6	0.0	556.7
40.00		1.00	1.05	40.291	44.32	531.74	0.630	0.000	2.00	8.302	5.23	231.8	0.0	551.3
42.00		1.00	1.06	40.697	44.77	529.24	0.630	0.000	2.00	8.222	5.18	231.9	0.0	546.0
44.00		1.00	1.07	41.089	45.20	526.59	0.630	0.000	2.00	8.143	5.13	231.9	0.0	540.6
46.00		1.00	1.08	41.466	45.61	523.79	0.630	0.000	2.00	8.063	5.08	231.7	0.0	535.3
47.25 Bot - Section 2		1.00	1.09	41.696	45.87	521.97	0.630	0.000	1.25	4.999	3.15	144.4	0.0	331.8
48.00		1.00	1.09	41.832	46.01	520.86	0.630	0.000	0.75	3.034	1.91	88.0	0.0	371.0
50.00		1.00	1.10	42.186	46.40	517.80	0.630	0.000	2.00	8.037	5.06	234.9	0.0	982.5
52.00		1.00	1.11	42.529	46.78	514.62	0.630	0.000	2.00	7.957	5.01	234.5	0.0	972.6
53.25 Top - Section 1		1.00	1.11	42.738	47.01	512.57	0.630	0.000	1.25	4.932	3.11	146.1	0.0	602.8
54.00		1.00	1.12	42.862	47.15	520.20	0.630	0.000	0.75	2.944	1.86	87.5	0.0	167.7
56.00		1.00	1.12	43.185	47.50	516.83	0.630	0.000	2.00	7.797	4.91	233.3	0.0	444.2
58.00		1.00	1.13	43.500	47.85	513.37	0.630	0.000	2.00	7.717	4.86	232.6	0.0	439.6
60.00		1.00	1.14	43.806	48.19	509.82	0.630	0.000	2.00	7.637	4.81	231.8	0.0	435.0
62.00		1.00	1.15	44.105	48.52	506.17	0.630	0.000	2.00	7.557	4.76	231.0	0.0	430.4
64.00		1.00	1.16	44.396	48.84	502.45	0.630	0.000	2.00	7.478	4.71	230.1	0.0	425.8
66.00		1.00	1.16	44.680	49.15	498.64	0.630	0.000	2.00	7.398	4.66	229.1	0.0	421.2
68.00		1.00	1.17	44.957	49.45	494.76	0.630	0.000	2.00	7.318	4.61	228.0	0.0	416.6
70.00		1.00	1.18	45.229	49.75	490.80	0.630	0.000	2.00	7.238	4.56	226.9	0.0	412.1
72.00		1.00	1.18	45.494	50.04	486.78	0.630	0.000	2.00	7.158	4.51	225.7	0.0	407.5
74.00		1.00	1.19	45.754	50.33	482.68	0.630	0.000	2.00	7.078	4.46	224.4	0.0	402.9
76.00		1.00	1.20	46.008	50.61	478.53	0.630	0.000	2.00	6.998	4.41	223.1	0.0	398.3
78.00		1.00	1.20	46.257	50.88	474.32	0.630	0.000	2.00	6.918	4.36	221.8	0.0	393.7
80.00		1.00	1.21	46.501	51.15	470.04	0.630	0.000	2.00	6.839	4.31	220.4	0.0	389.1
82.00		1.00	1.22	46.740	51.41	465.72	0.630	0.000	2.00	6.759	4.26	218.9	0.0	384.5
84.00		1.00	1.22	46.975	51.67	461.33	0.630	0.000	2.00	6.679	4.21	217.4	0.0	379.9
86.00		1.00	1.23	47.206	51.93	456.90	0.630	0.000	2.00	6.599	4.16	215.9	0.0	375.4
88.00		1.00	1.23	47.432	52.18	452.42	0.630	0.000	2.00	6.519	4.11	214.3	0.0	370.8

## Wind Loading - Shaft

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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90.00	1.00	1.24	47.655	52.42	447.89	0.630	0.000	2.00	6.439	4.06	212.7	0.0	366.2
92.00	1.00	1.25	47.873	52.66	443.31	0.630	0.000	2.00	6.359	4.01	211.0	0.0	361.6
94.00	1.00	1.25	48.088	52.90	438.69	0.630	0.000	2.00	6.279	3.96	209.3	0.0	357.0
96.00 Bot - Section 3	1.00	1.26	48.300	53.13	434.02	0.630	0.000	2.00	6.200	3.91	207.5	0.0	352.4
98.00	1.00	1.26	48.508	53.36	429.32	0.630	0.000	2.00	6.212	3.91	208.8	0.0	584.1
100.00	1.00	1.27	48.712	53.58	424.57	0.630	0.000	2.00	6.132	3.86	207.0	0.0	576.4
100.75 Top - Section 2	1.00	1.27	48.788	53.67	422.78	0.630	0.000	0.75	2.279	1.44	77.0	0.0	214.2
102.00	1.00	1.27	48.914	53.81	426.31	0.630	0.000	1.25	3.773	2.38	127.9	0.0	143.5
104.00	1.00	1.28	49.112	54.02	421.50	0.630	0.000	2.00	5.972	3.76	203.3	0.0	227.0
106.00	1.00	1.28	49.308	54.24	416.65	0.630	0.000	2.00	5.892	3.71	201.3	0.0	224.0
108.00	1.00	1.29	49.500	54.45	411.77	0.630	0.000	2.00	5.812	3.66	199.4	0.0	220.9
110.00	1.00	1.29	49.690	54.66	406.85	0.630	0.000	2.00	5.732	3.61	197.4	0.0	217.9
112.00	1.00	1.30	49.877	54.87	401.89	0.630	0.000	2.00	5.653	3.56	195.4	0.0	214.8
114.00	1.00	1.30	50.062	55.07	396.91	0.630	0.000	2.00	5.573	3.51	193.3	0.0	211.8
116.00 Appurtenance(s)	1.00	1.31	50.244	55.27	391.89	0.630	0.000	2.00	5.493	3.46	191.3	0.0	208.7
118.00	1.00	1.31	50.423	55.47	386.84	0.630	0.000	2.00	5.413	3.41	189.1	0.0	205.6
120.00	1.00	1.32	50.601	55.66	381.75	0.630	0.000	2.00	5.333	3.36	187.0	0.0	202.6
122.00	1.00	1.32	50.776	55.85	376.64	0.630	0.000	2.00	5.253	3.31	184.8	0.0	199.5
124.00	1.00	1.33	50.948	56.04	371.50	0.630	0.000	2.00	5.173	3.26	182.7	0.0	196.5
126.00 Appurtenance(s)	1.00	1.33	51.119	56.23	366.33	0.630	0.000	2.00	5.094	3.21	180.4	0.0	193.4
128.00	1.00	1.34	51.287	56.42	361.14	0.630	0.000	2.00	5.014	3.16	178.2	0.0	190.3
130.00	1.00	1.34	51.454	56.60	355.91	0.630	0.000	2.00	4.934	3.11	175.9	0.0	187.3
132.00	1.00	1.34	51.618	56.78	350.66	0.630	0.000	2.00	4.854	3.06	173.6	0.0	184.2
134.00	1.00	1.35	51.781	56.96	345.39	0.630	0.000	2.00	4.774	3.01	171.3	0.0	181.2
136.00	1.00	1.35	51.941	57.14	340.09	0.630	0.000	2.00	4.694	2.96	169.0	0.0	178.1
138.00	1.00	1.36	52.100	57.31	334.76	0.630	0.000	2.00	4.614	2.91	166.6	0.0	175.1
139.00 Top - Section 3	1.00	1.36	52.179	57.40	332.09	0.630	0.000	1.00	2.277	1.43	82.3	0.0	86.4
140.00	1.00	1.36	52.257	57.48	328.26	0.630	0.000	1.00	2.249	1.42	81.5	0.0	64.1
142.00	1.00	1.36	52.412	57.65	322.88	0.630	0.000	2.00	4.439	2.80	161.2	0.0	126.6
144.00	1.00	1.37	52.565	57.82	317.48	0.630	0.000	2.00	4.359	2.75	158.8	0.0	124.3
146.00	1.00	1.37	52.717	57.99	312.06	0.630	0.000	2.00	4.279	2.70	156.3	0.0	122.0
148.00 Appurtenance(s)	1.00	1.38	52.867	58.15	306.62	0.630	0.000	2.00	4.199	2.65	153.8	0.0	119.7
149.00	1.00	1.38	52.942	58.24	303.89	0.630	0.000	1.00	2.070	1.30	75.9	0.0	59.0
<b>Totals:</b>								<b>149.00</b>			<b>15,584.4</b>		<b>31,297.5</b>

## Discrete Appurtenance Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.2D + 1.0W 126 mph Wind

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



**Iterations** 26

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	MT6407-77A	3	52.867	58.154	0.63	0.90	8.86	313.56	0.000	0.000	515.48	0.00	0.00
2	148.00	RFS DB-T1-6Z-8AB-0Z	2	52.867	58.154	0.81	0.90	7.78	105.60	0.000	0.000	452.21	0.00	0.00
3	148.00	Antel BXA-80063/4CF	3	52.979	58.277	0.67	0.90	9.41	35.64	0.000	1.500	548.42	0.00	822.63
4	148.00	MX06FRO660-02	3	52.867	58.154	0.78	0.90	23.44	205.20	0.000	0.000	1363.31	0.00	0.00
5	148.00	MX10FRO660	3	52.867	58.154	0.70	0.90	20.24	206.28	0.000	0.000	1176.96	0.00	0.00
6	148.00	Low Profile Platform	1	52.867	58.154	1.00	1.00	48.20	2714.40	0.000	0.000	2803.03	0.00	0.00
7	148.00	B5/B13 RRH-BR04C	3	52.867	58.154	0.60	0.90	3.40	253.08	0.000	0.000	197.78	0.00	0.00
8	148.00	RT4401-48A	3	52.867	58.154	0.60	0.90	1.56	67.10	0.000	0.000	90.47	0.00	0.00
9	148.00	BSF0020F3V1-1	4	52.867	58.154	0.60	0.90	2.32	84.48	0.000	0.000	134.66	0.00	0.00
10	148.00	B2/B66A RRH-BR049	3	52.867	58.154	0.60	0.90	3.40	303.84	0.000	0.000	197.78	0.00	0.00
11	139.00	APXVAARR24_43-U-NA2	3	52.179	57.396	0.56	0.75	34.16	460.80	0.000	0.000	1960.37	0.00	0.00
12	139.00	AIR6449 B41	3	52.179	57.396	0.53	0.75	9.03	370.80	0.000	0.000	518.05	0.00	0.00
13	139.00	AIR32	3	52.179	57.396	0.65	0.75	12.74	475.92	0.000	0.000	731.42	0.00	0.00
14	139.00	4449 B71 + B12	3	52.179	57.396	0.50	0.75	2.97	263.52	0.000	0.000	170.45	0.00	0.00
15	139.00	KRY 112 144/1	3	52.179	57.396	0.56	0.75	1.20	55.44	0.000	0.000	68.77	0.00	0.00
16	139.00	Low Profile Platform	1	52.179	57.396	1.00	1.00	35.03	2236.20	0.000	0.000	2010.60	0.00	0.00
17	139.00	RRUS 4415 B25	3	52.179	57.396	0.50	0.75	2.47	165.60	0.000	0.000	141.90	0.00	0.00
18	126.00	DC6-48-60-18-8C-EV	1	51.119	56.231	0.75	0.75	3.58	19.20	0.000	0.000	201.59	0.00	0.00
19	126.00	Erisson 2012 B29	3	51.119	56.231	0.50	0.75	4.75	213.84	0.000	0.000	267.02	0.00	0.00
20	126.00	Ericsson RRUS 4478 B5	3	51.119	56.231	0.50	0.75	2.77	215.64	0.000	0.000	155.97	0.00	0.00
21	126.00	Ericsson RRUS 32 RRU	3	51.119	56.231	0.50	0.75	4.99	277.20	0.000	0.000	280.58	0.00	0.00
22	126.00	Raycap DC6-48-60-18-8F	3	51.119	56.231	0.50	0.75	3.32	114.48	0.000	0.000	186.49	0.00	0.00
23	126.00	Kaelus DBCT108F1V92-1	3	51.119	56.231	0.50	0.75	1.06	71.28	0.000	0.000	59.34	0.00	0.00
24	126.00	Ericsson RRUS 4426 B66	3	51.119	56.231	0.50	0.75	1.73	174.60	0.000	0.000	97.48	0.00	0.00
25	126.00	Ericsson RRUS 4415 B25	3	51.119	56.231	0.50	0.75	2.80	158.76	0.000	0.000	157.67	0.00	0.00
26	126.00	RRUS 4449 B5/B12	3	51.119	56.231	0.50	0.75	2.97	255.60	0.000	0.000	166.99	0.00	0.00
27	126.00	DMP65R-BU8DA	3	51.119	56.231	0.55	0.75	29.35	344.52	0.000	0.000	1650.46	0.00	0.00
28	126.00	AIR 6449 B77D	3	50.948	56.043	0.64	0.75	7.90	316.80	0.000	-2.000	442.66	0.00	-885.33
29	126.00	AIR 6419 B77G	3	51.287	56.416	0.57	0.75	6.50	237.96	0.000	2.000	366.59	0.00	733.18
30	126.00	Ericsson RRUS 4478 B14	3	51.119	56.231	0.50	0.75	2.49	213.84	0.000	0.000	139.87	0.00	0.00
31	126.00	QD8616-7	3	51.119	56.231	0.69	0.75	38.92	245.52	0.000	0.000	2188.28	0.00	0.00
32	126.00	MTC3607 Platform + HR &	1	51.119	56.231	1.00	1.00	48.20	2714.40	0.000	0.000	2710.33	0.00	0.00
33	116.00	MX08FRO665-21	3	50.244	55.268	0.55	0.75	20.80	232.20	0.000	0.000	1149.35	0.00	0.00
34	116.00	MC-PK8-DSH	1	50.244	55.268	1.00	1.00	34.23	2161.87	0.000	0.000	1891.83	0.00	0.00
35	116.00	RDIDC-9181-OF-48	1	50.244	55.268	1.00	1.00	2.01	26.28	0.000	0.000	111.09	0.00	0.00
36	116.00	TA08025-B604	3	50.244	55.268	0.50	0.75	2.95	230.04	0.000	0.000	163.30	0.00	0.00
37	116.00	TA08025-B605	3	50.244	55.268	0.50	0.75	2.95	270.00	0.000	0.000	163.30	0.00	0.00
<b>Totals:</b>									<b>16,811.50</b>			<b>25,631.87</b>		

## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0W 126 mph Wind

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



**Iterations**    26

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
2.00		229.42	713.45	0.00	0.00
4.00		227.62	708.10	0.00	0.00
6.00		225.81	702.74	0.00	0.00
8.00		224.00	697.39	0.00	0.00
10.00		222.19	692.04	0.00	0.00
12.00		220.39	686.69	0.00	0.00
14.00		218.58	681.34	0.00	0.00
16.00		222.27	675.98	0.00	0.00
18.00		225.64	670.63	0.00	0.00
20.00		228.51	665.28	0.00	0.00
22.00		230.95	659.93	0.00	0.00
24.00		233.03	654.58	0.00	0.00
26.00		234.79	649.23	0.00	0.00
28.00		236.28	643.87	0.00	0.00
30.00		237.52	638.52	0.00	0.00
32.00		238.53	633.17	0.00	0.00
34.00		239.35	627.82	0.00	0.00
36.00		239.98	622.47	0.00	0.00
38.00		240.45	617.11	0.00	0.00
40.00		240.77	611.76	0.00	0.00
42.00		240.94	606.41	0.00	0.00
44.00		240.98	601.06	0.00	0.00
46.00		240.91	595.71	0.00	0.00
47.25		150.23	369.60	0.00	0.00
48.00		91.45	393.66	0.00	0.00
50.00		244.32	1042.93	0.00	0.00
52.00		243.95	1032.99	0.00	0.00
53.25		152.02	640.57	0.00	0.00
54.00		91.03	190.40	0.00	0.00
56.00		242.94	504.58	0.00	0.00
58.00		242.30	500.00	0.00	0.00
60.00		241.58	495.41	0.00	0.00
62.00		240.79	490.82	0.00	0.00
64.00		239.92	486.23	0.00	0.00
66.00		238.98	481.65	0.00	0.00
68.00		237.98	477.06	0.00	0.00
70.00		236.91	472.47	0.00	0.00
72.00		235.78	467.88	0.00	0.00
74.00		234.60	463.30	0.00	0.00
76.00		233.35	458.71	0.00	0.00
78.00		232.05	454.12	0.00	0.00
80.00		230.71	449.54	0.00	0.00
82.00		229.31	444.95	0.00	0.00
84.00		227.86	440.36	0.00	0.00
86.00		226.36	435.77	0.00	0.00
88.00		224.82	431.19	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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90.00		223.24	426.60	0.00	0.00
92.00		221.62	422.01	0.00	0.00
94.00		219.95	417.42	0.00	0.00
96.00		218.24	412.84	0.00	0.00
98.00		219.59	644.47	0.00	0.00
100.00		217.82	636.83	0.00	0.00
100.75		81.11	236.84	0.00	0.00
102.00		134.69	181.22	0.00	0.00
104.00		214.17	287.46	0.00	0.00
106.00		212.29	284.41	0.00	0.00
108.00		210.38	281.35	0.00	0.00
110.00		208.44	278.29	0.00	0.00
112.00		206.46	275.23	0.00	0.00
114.00		204.46	272.17	0.00	0.00
116.00	(11) attachments	3681.30	3189.51	0.00	0.00
118.00		200.35	263.66	0.00	0.00
120.00		198.26	260.60	0.00	0.00
122.00		196.13	257.54	0.00	0.00
124.00		193.98	254.48	0.00	0.00
126.00	(41) attachments	9263.12	5825.06	0.00	-152.15
128.00		189.59	239.29	0.00	0.00
130.00		187.36	236.23	0.00	0.00
132.00		185.10	233.18	0.00	0.00
134.00		182.82	230.12	0.00	0.00
136.00		180.51	227.06	0.00	0.00
138.00		178.18	224.00	0.00	0.00
139.00	(19) attachments	5689.71	4139.13	0.00	0.00
140.00		87.26	75.84	0.00	0.00
142.00		172.87	149.96	0.00	0.00
144.00		170.47	147.67	0.00	0.00
146.00		168.04	145.38	0.00	0.00
148.00	(28) attachments	7645.70	4432.27	0.00	822.63
149.00		81.81	60.55	0.00	0.00
	<b>Totals:</b>	<b>41,953.18</b>	<b>52,328.15</b>	<b>0.00</b>	<b>670.49</b>

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.2D + 1.0W 126 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
2.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
2.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
4.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
4.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
6.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
6.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
8.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
8.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
10.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
10.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
12.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
12.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
14.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.66
14.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	2.50
16.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	33.475	2.80	0.66
16.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	33.475	4.64	2.50
18.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	34.268	2.86	0.66
18.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	34.268	4.75	2.50
20.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	34.998	2.93	0.66
20.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	34.998	4.85	2.50
22.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	35.674	2.98	0.66
22.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	35.674	4.94	2.50
24.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	36.306	3.04	0.66
24.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	36.306	5.03	2.50
26.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	36.899	3.08	0.66
26.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	36.899	5.11	2.50
28.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	37.458	3.13	0.66
28.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	37.458	5.19	2.50
30.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	37.988	3.18	0.66
30.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	37.988	5.27	2.50
32.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	38.491	3.22	0.66
32.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	38.491	5.33	2.50
34.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	38.971	3.26	0.66
34.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	38.971	5.40	2.50
36.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	39.430	3.30	0.66
36.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	39.430	5.46	2.50
38.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	39.869	3.33	0.66
38.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	39.869	5.53	2.50
40.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	40.291	3.37	0.66
40.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	40.291	5.58	2.50
42.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	40.697	3.40	0.66
42.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	40.697	5.64	2.50
44.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	41.089	3.43	0.66
44.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	41.089	5.69	2.50
46.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	41.466	3.47	0.66
46.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	41.466	5.75	2.50
47.25	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	41.696	2.18	0.41



## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 1.2D + 1.0W 126 mph Wind

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



**Iterations** 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
47.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	41.696	3.61	1.56
48.00	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	41.832	1.31	0.25
48.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	41.832	2.17	0.94
50.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	42.186	3.53	0.66
50.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	42.186	5.85	2.50
52.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	42.529	3.56	0.66
52.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	42.529	5.89	2.50
53.25	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	42.738	2.23	0.41
53.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	42.738	3.70	1.56
54.00	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	42.862	1.34	0.25
54.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	42.862	2.23	0.94
56.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	43.185	3.61	0.66
56.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	43.185	5.99	2.50
58.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	43.500	3.64	0.66
58.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	43.500	6.03	2.50
60.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	43.806	3.66	0.66
60.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	43.806	6.07	2.50
62.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.105	3.69	0.66
62.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.105	6.11	2.50
64.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.396	3.71	0.66
64.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.396	6.15	2.50
66.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.680	3.74	0.66
66.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.680	6.19	2.50
68.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.957	3.76	0.66
68.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.957	6.23	2.50
70.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	45.229	3.78	0.66
70.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	45.229	6.27	2.50
72.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	45.494	3.80	0.66
72.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	45.494	6.31	2.50
74.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	45.754	3.83	0.66
74.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	45.754	6.34	2.50
76.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.008	3.85	0.66
76.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.008	6.38	2.50
78.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.257	3.87	0.66
78.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.257	6.41	2.50
80.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.501	3.89	0.66
80.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.501	6.45	2.50
82.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.740	3.91	0.66
82.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.740	6.48	2.50
84.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.975	3.93	0.66
84.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.975	6.51	2.50
86.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.206	3.95	0.66
86.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.206	6.54	2.50
88.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.432	3.97	0.66
88.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.432	6.57	2.50
90.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.655	3.98	0.66
90.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.655	6.60	2.50

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

8/30/2023

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**Load Case:** 1.2D + 1.0W 126 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.873	4.00	0.66
92.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.873	6.64	2.50
94.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.088	4.02	0.66
94.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.088	6.67	2.50
96.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.300	4.04	0.66
96.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.300	6.69	2.50
98.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.508	4.06	0.66
98.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.508	6.72	2.50
100.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.712	4.07	0.66
100.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.712	6.75	2.50
100.75	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	48.788	1.53	0.25
100.75	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	48.788	2.54	0.94
102.00	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	48.914	2.56	0.41
102.00	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	48.914	4.24	1.56
104.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.112	4.11	0.66
104.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.112	6.81	2.50
106.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.308	4.12	0.66
106.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.308	6.83	2.50
108.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.500	4.14	0.66
108.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.500	6.86	2.50
110.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.690	4.15	0.66
110.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.690	6.89	2.50
112.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.877	4.17	0.66
112.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.877	6.91	2.50
114.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.062	4.19	0.66
114.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.062	6.94	2.50
116.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.244	4.20	0.66
116.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.244	6.96	2.50
118.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.423	4.22	0.66
118.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.423	6.99	2.50
120.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.601	4.23	0.66
120.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.601	7.01	2.50
122.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.776	4.24	0.66
122.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.776	7.04	2.50
124.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.948	4.26	0.66
124.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.948	7.06	2.50
126.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.119	4.27	0.66
126.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.119	7.09	2.50
128.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.287	4.29	0.66
128.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.287	7.11	2.50
130.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.454	4.30	0.66
130.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.454	7.13	2.50
132.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.618	4.32	0.66
132.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.618	7.15	2.50
134.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.781	4.33	0.66
134.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.781	7.18	2.50
136.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.941	4.34	0.66

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0W 126 mph Wind

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



**Iterations** 26

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
136.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.941	7.20	2.50
138.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.100	4.36	0.66
138.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.100	7.22	2.50
139.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	52.179	2.18	0.33
139.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	52.179	3.62	1.25
140.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	52.257	2.18	0.33
140.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	52.257	3.62	1.25
142.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.412	4.38	0.66
142.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.412	7.26	2.50
144.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.565	4.39	0.66
144.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.565	7.29	2.50
146.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.717	4.41	0.66
146.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.717	7.31	2.50
148.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.867	4.42	0.66
148.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.867	7.33	2.50
149.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	52.942	2.21	0.33
149.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	52.942	3.67	1.25
<b>Totals:</b>											<b>736.9</b>	<b>234.8</b>

## Calculated Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

8/30/2023

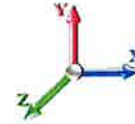
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**Load Case:** 1.2D + 1.0W 126 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 26

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-52.30	-41.99	0.00	-4786.6	0.00	4786.63	5451.60	1409.10	6760.13	6487.84	0.00	0.000	0.000	0.748
2.00	-51.53	-41.83	0.00	-4702.6	0.00	4702.65	5423.14	1397.60	6650.22	6400.90	0.02	-0.080	0.000	0.745
4.00	-50.76	-41.68	0.00	-4618.9	0.00	4618.99	5394.41	1386.10	6541.22	6314.20	0.07	-0.160	0.000	0.742
6.00	-50.00	-41.52	0.00	-4535.6	0.00	4535.64	5365.42	1374.60	6433.12	6227.76	0.15	-0.240	0.000	0.739
8.00	-49.24	-41.36	0.00	-4452.6	0.00	4452.61	5336.17	1363.10	6325.92	6141.58	0.27	-0.322	0.000	0.735
10.00	-48.49	-41.20	0.00	-4369.8	0.00	4369.89	5306.65	1351.60	6219.62	6055.68	0.42	-0.403	0.000	0.732
12.00	-47.75	-41.05	0.00	-4287.4	0.00	4287.49	5276.87	1340.10	6114.23	5970.05	0.61	-0.486	0.000	0.728
14.00	-47.01	-40.89	0.00	-4205.4	0.00	4205.40	5246.82	1328.60	6009.73	5884.71	0.83	-0.569	0.000	0.725
16.00	-46.28	-40.73	0.00	-4123.6	0.00	4123.62	5216.51	1317.10	5906.13	5799.67	1.09	-0.652	0.000	0.721
18.00	-45.55	-40.56	0.00	-4042.1	0.00	4042.16	5185.94	1305.60	5803.43	5714.93	1.38	-0.736	0.000	0.717
20.00	-44.83	-40.39	0.00	-3961.0	0.00	3961.04	5155.10	1294.09	5701.64	5630.50	1.71	-0.820	0.000	0.713
22.00	-44.11	-40.21	0.00	-3880.2	0.00	3880.27	5124.00	1282.59	5600.74	5546.38	2.07	-0.905	0.000	0.709
24.00	-43.40	-40.04	0.00	-3799.8	0.00	3799.84	5092.64	1271.09	5500.75	5462.60	2.47	-0.990	0.000	0.705
26.00	-42.70	-39.85	0.00	-3719.7	0.00	3719.77	5061.01	1259.59	5401.66	5379.14	2.90	-1.076	0.000	0.701
28.00	-42.00	-39.67	0.00	-3640.0	0.00	3640.07	5029.12	1248.09	5303.46	5296.03	3.37	-1.163	0.000	0.697
30.00	-41.31	-39.48	0.00	-3560.7	0.00	3560.73	4996.96	1236.59	5206.17	5213.26	3.88	-1.250	0.000	0.692
32.00	-40.62	-39.29	0.00	-3481.7	0.00	3481.77	4964.54	1225.09	5109.78	5130.86	4.42	-1.337	0.000	0.688
34.00	-39.94	-39.10	0.00	-3403.2	0.00	3403.20	4931.86	1213.59	5014.29	5048.81	5.00	-1.425	0.000	0.683
36.00	-39.26	-38.90	0.00	-3325.0	0.00	3325.01	4898.91	1202.09	4919.70	4967.14	5.62	-1.513	0.000	0.678
38.00	-38.59	-38.70	0.00	-3247.2	0.00	3247.21	4865.70	1190.58	4826.01	4885.85	6.27	-1.602	0.000	0.674
40.00	-37.93	-38.51	0.00	-3169.8	0.00	3169.80	4832.22	1179.08	4733.22	4804.95	6.96	-1.691	0.000	0.669
42.00	-37.27	-38.30	0.00	-3092.7	0.00	3092.79	4798.48	1167.58	4641.33	4724.44	7.69	-1.781	0.000	0.663
44.00	-36.61	-38.10	0.00	-3016.1	0.00	3016.18	4764.48	1156.08	4550.35	4644.34	8.46	-1.871	0.000	0.658
46.00	-35.98	-37.89	0.00	-2939.9	0.00	2939.98	4730.21	1144.58	4460.26	4564.64	9.26	-1.962	0.000	0.653
47.25	-35.58	-37.75	0.00	-2892.6	0.00	2892.62	4708.66	1137.39	4404.41	4515.05	9.78	-2.019	0.000	0.649
48.00	-35.15	-37.69	0.00	-2864.3	0.00	2864.31	4695.68	1133.08	4371.07	4485.37	10.10	-2.053	0.000	0.647
50.00	-34.06	-37.46	0.00	-2788.9	0.00	2788.94	4660.89	1121.58	4282.79	4406.52	10.98	-2.144	0.000	0.641
52.00	-32.99	-37.22	0.00	-2714.0	0.00	2714.02	4625.83	1110.08	4195.41	4328.11	11.90	-2.236	0.000	0.635
53.25	-32.32	-37.07	0.00	-2667.5	0.00	2667.50	3820.53	963.13	3684.59	3623.65	12.49	-2.294	0.000	0.746
54.00	-32.09	-37.01	0.00	-2639.7	0.00	2639.70	3810.68	959.44	3656.36	3600.32	12.86	-2.328	0.000	0.743
56.00	-31.53	-36.80	0.00	-2565.6	0.00	2565.69	3784.24	949.58	3581.60	3538.31	13.85	-2.430	0.000	0.735
58.00	-30.98	-36.59	0.00	-2492.0	0.00	2492.09	3757.53	939.72	3507.63	3476.56	14.89	-2.532	0.000	0.727
60.00	-30.43	-36.38	0.00	-2418.9	0.00	2418.91	3730.55	929.86	3434.42	3415.10	15.98	-2.634	0.000	0.718
62.00	-29.89	-36.17	0.00	-2346.1	0.00	2346.15	3703.32	920.01	3361.98	3353.92	17.10	-2.736	0.000	0.709
64.00	-29.35	-35.96	0.00	-2273.8	0.00	2273.81	3675.82	910.15	3290.32	3293.05	18.27	-2.838	0.000	0.700
66.00	-28.82	-35.75	0.00	-2201.8	0.00	2201.89	3648.05	900.29	3219.43	3232.47	19.48	-2.941	0.000	0.691
68.00	-28.29	-35.54	0.00	-2130.4	0.00	2130.40	3620.03	890.43	3149.31	3172.21	20.73	-3.043	0.000	0.681
70.00	-27.77	-35.32	0.00	-2059.3	0.00	2059.33	3591.74	880.57	3079.96	3112.27	22.03	-3.146	0.000	0.671
72.00	-27.25	-35.11	0.00	-1988.6	0.00	1988.68	3563.18	870.71	3011.39	3052.66	23.37	-3.248	0.000	0.661
74.00	-26.74	-34.90	0.00	-1918.4	0.00	1918.46	3534.36	860.86	2943.59	2993.38	24.75	-3.350	0.000	0.650
76.00	-26.23	-34.68	0.00	-1848.6	0.00	1848.66	3505.28	851.00	2876.56	2934.44	26.18	-3.452	0.000	0.639
78.00	-25.73	-34.47	0.00	-1779.2	0.00	1779.29	3475.93	841.14	2810.30	2875.86	27.65	-3.553	0.000	0.628
80.00	-25.24	-34.26	0.00	-1710.3	0.00	1710.35	3446.32	831.28	2744.81	2817.63	29.16	-3.654	0.000	0.616
82.00	-24.75	-34.04	0.00	-1641.8	0.00	1641.84	3416.44	821.42	2680.10	2759.78	30.71	-3.755	0.000	0.604
84.00	-24.27	-33.83	0.00	-1573.7	0.00	1573.76	3386.31	811.57	2616.15	2702.29	32.30	-3.855	0.000	0.591
86.00	-23.79	-33.61	0.00	-1506.1	0.00	1506.10	3355.90	801.71	2552.98	2645.19	33.94	-3.954	0.000	0.578
88.00	-23.32	-33.40	0.00	-1438.8	0.00	1438.88	3325.24	791.85	2490.58	2588.48	35.61	-4.053	0.000	0.565
90.00	-22.85	-33.19	0.00	-1372.0	0.00	1372.08	3294.31	781.99	2428.96	2532.16	37.33	-4.150	0.000	0.551

## Calculated Forces

**Structure:** CT13075-A-SBA

**Code:** TIA-222-H

8/30/2023

**Site Name:** New London

**Exposure:** C



**Height:** 149.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 1.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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Tower Engineering Solutions

92.00	-22.39	-32.97	0.00	-1305.7	0.00	1305.71	3263.11	772.13	2368.10	2476.25	39.09	-4.247	0.000	0.536
94.00	-21.94	-32.76	0.00	-1239.7	0.00	1239.77	3226.97	762.28	2308.02	2417.24	40.89	-4.342	0.000	0.522
96.00	-21.49	-32.54	0.00	-1174.2	0.00	1174.26	3185.24	752.42	2248.71	2354.81	42.73	-4.436	0.000	0.507
98.00	-20.81	-32.31	0.00	-1109.1	0.00	1109.18	3143.50	742.56	2190.17	2293.20	44.60	-4.529	0.000	0.492
100.00	-20.16	-32.06	0.00	-1044.5	0.00	1044.56	3101.77	732.70	2132.40	2232.40	46.52	-4.619	0.000	0.476
100.75	-19.91	-31.98	0.00	-1020.5	0.00	1020.52	1863.03	495.32	1461.74	1364.60	47.25	-4.653	0.000	0.763
102.00	-19.69	-31.86	0.00	-980.55	0.00	980.55	1853.75	491.21	1437.59	1346.46	48.47	-4.709	0.000	0.743
104.00	-19.35	-31.66	0.00	-916.84	0.00	916.84	1838.67	484.64	1399.38	1317.52	50.47	-4.832	0.000	0.711
106.00	-19.02	-31.46	0.00	-853.51	0.00	853.51	1823.34	478.06	1361.69	1288.68	52.52	-4.951	0.000	0.677
108.00	-18.70	-31.27	0.00	-790.59	0.00	790.59	1807.74	471.49	1324.51	1259.97	54.62	-5.066	0.000	0.642
110.00	-18.38	-31.07	0.00	-728.05	0.00	728.05	1791.88	464.92	1287.84	1231.38	56.76	-5.177	0.000	0.606
112.00	-18.07	-30.87	0.00	-665.91	0.00	665.91	1775.75	458.35	1251.69	1202.91	58.95	-5.284	0.000	0.568
114.00	-17.76	-30.67	0.00	-604.17	0.00	604.17	1759.36	451.78	1216.05	1174.59	61.19	-5.385	0.000	0.529
116.00	-14.90	-26.73	0.00	-542.83	0.00	542.83	1742.70	445.20	1180.93	1146.42	63.46	-5.480	0.000	0.486
118.00	-14.61	-26.53	0.00	-489.37	0.00	489.37	1725.78	438.63	1146.32	1118.40	65.77	-5.570	0.000	0.450
120.00	-14.34	-26.33	0.00	-436.31	0.00	436.31	1708.60	432.06	1112.22	1090.54	68.12	-5.654	0.000	0.412
122.00	-14.06	-26.12	0.00	-383.66	0.00	383.66	1691.15	425.49	1078.65	1062.86	70.50	-5.732	0.000	0.373
124.00	-13.80	-25.92	0.00	-331.41	0.00	331.41	1673.44	418.92	1045.58	1035.35	72.92	-5.803	0.000	0.332
126.00	-8.93	-16.12	0.00	-279.57	0.00	279.57	1655.47	412.34	1013.03	1008.03	75.36	-5.866	0.000	0.284
128.00	-8.70	-15.92	0.00	-247.33	0.00	247.33	1637.23	405.77	981.00	980.90	77.83	-5.924	0.000	0.259
130.00	-8.47	-15.71	0.00	-215.49	0.00	215.49	1618.72	399.20	949.48	953.97	80.31	-5.977	0.000	0.233
132.00	-8.24	-15.51	0.00	-184.07	0.00	184.07	1599.96	392.63	918.47	927.26	82.83	-6.025	0.000	0.205
134.00	-8.02	-15.31	0.00	-153.04	0.00	153.04	1580.93	386.05	887.98	900.76	85.35	-6.068	0.000	0.177
136.00	-7.81	-15.11	0.00	-122.42	0.00	122.42	1561.63	379.48	858.01	874.48	87.90	-6.105	0.000	0.147
138.00	-7.60	-14.91	0.00	-92.19	0.00	92.19	1542.08	372.91	828.54	848.44	90.46	-6.135	0.000	0.115
139.00	-4.09	-8.82	0.00	-77.28	0.00	77.28	1532.20	369.62	814.01	835.51	91.75	-6.147	0.000	0.096
139.00	-4.09	-8.82	0.00	-77.28	0.00	77.28	1044.08	276.90	609.10	570.00	91.75	-6.147	0.000	0.141
140.00	-4.02	-8.72	0.00	-68.46	0.00	68.46	1038.46	274.43	598.30	561.85	93.03	-6.158	0.000	0.127
142.00	-3.89	-8.54	0.00	-51.02	0.00	51.02	1027.02	269.50	577.00	545.62	95.61	-6.183	0.000	0.098
144.00	-3.76	-8.35	0.00	-33.95	0.00	33.95	1015.32	264.58	556.09	529.46	98.20	-6.202	0.000	0.069
146.00	-3.63	-8.17	0.00	-17.25	0.00	17.25	1003.36	259.65	535.56	513.40	100.80	-6.214	0.000	0.038
148.00	-0.05	-0.09	0.00	-0.09	0.00	0.09	991.13	254.72	515.42	497.45	103.40	-6.218	0.000	0.000
149.00	0.00	-0.08	0.00	0.00	0.00	0.00	984.92	252.25	505.50	489.51	104.70	-6.218	0.000	0.000

## Wind Loading - Shaft

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

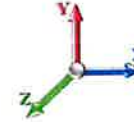
8/30/2023

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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	32.647	35.91	571.19	0.630	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	32.647	35.91	566.56	0.630	0.000	2.00	9.820	6.19	222.2	0.0	489.8
4.00		1.00	0.85	32.647	35.91	561.93	0.630	0.000	2.00	9.740	6.14	220.4	0.0	485.8
6.00		1.00	0.85	32.647	35.91	557.31	0.630	0.000	2.00	9.660	6.09	218.6	0.0	481.7
8.00		1.00	0.85	32.647	35.91	552.68	0.630	0.000	2.00	9.580	6.04	216.7	0.0	477.7
10.00		1.00	0.85	32.647	35.91	548.05	0.630	0.000	2.00	9.500	5.99	214.9	0.0	473.7
12.00		1.00	0.85	32.647	35.91	543.42	0.630	0.000	2.00	9.421	5.93	213.1	0.0	469.7
14.00		1.00	0.85	32.647	35.91	538.80	0.630	0.000	2.00	9.341	5.88	211.3	0.0	465.7
16.00		1.00	0.87	33.475	36.82	540.90	0.630	0.000	2.00	9.261	5.83	214.8	0.0	461.7
18.00		1.00	0.89	34.268	37.69	542.53	0.630	0.000	2.00	9.181	5.78	218.0	0.0	457.7
20.00		1.00	0.91	34.998	38.50	543.48	0.630	0.000	2.00	9.101	5.73	220.7	0.0	453.6
22.00		1.00	0.93	35.674	39.24	543.88	0.630	0.000	2.00	9.021	5.68	223.0	0.0	449.6
24.00		1.00	0.95	36.306	39.94	543.79	0.630	0.000	2.00	8.941	5.63	225.0	0.0	445.6
26.00		1.00	0.96	36.899	40.59	543.30	0.630	0.000	2.00	8.861	5.58	226.6	0.0	441.6
28.00		1.00	0.98	37.458	41.20	542.44	0.630	0.000	2.00	8.782	5.53	228.0	0.0	437.6
30.00		1.00	0.99	37.988	41.79	541.27	0.630	0.000	2.00	8.702	5.48	229.1	0.0	433.6
32.00		1.00	1.00	38.491	42.34	539.82	0.630	0.000	2.00	8.622	5.43	230.0	0.0	429.6
34.00		1.00	1.01	38.971	42.87	538.12	0.630	0.000	2.00	8.542	5.38	230.7	0.0	425.6
36.00		1.00	1.03	39.430	43.37	536.19	0.630	0.000	2.00	8.462	5.33	231.2	0.0	421.5
38.00		1.00	1.04	39.869	43.86	534.06	0.630	0.000	2.00	8.382	5.28	231.6	0.0	417.5
40.00		1.00	1.05	40.291	44.32	531.74	0.630	0.000	2.00	8.302	5.23	231.8	0.0	413.5
42.00		1.00	1.06	40.697	44.77	529.24	0.630	0.000	2.00	8.222	5.18	231.9	0.0	409.5
44.00		1.00	1.07	41.089	45.20	526.59	0.630	0.000	2.00	8.143	5.13	231.9	0.0	405.5
46.00		1.00	1.08	41.466	45.61	523.79	0.630	0.000	2.00	8.063	5.08	231.7	0.0	401.5
47.25 Bot - Section 2		1.00	1.09	41.696	45.87	521.97	0.630	0.000	1.25	4.999	3.15	144.4	0.0	248.9
48.00		1.00	1.09	41.832	46.01	520.86	0.630	0.000	0.75	3.034	1.91	88.0	0.0	278.3
50.00		1.00	1.10	42.186	46.40	517.80	0.630	0.000	2.00	8.037	5.06	234.9	0.0	736.9
52.00		1.00	1.11	42.529	46.78	514.62	0.630	0.000	2.00	7.957	5.01	234.5	0.0	729.4
53.25 Top - Section 1		1.00	1.11	42.738	47.01	512.57	0.630	0.000	1.25	4.932	3.11	146.1	0.0	452.1
54.00		1.00	1.12	42.862	47.15	520.20	0.630	0.000	0.75	2.944	1.86	87.5	0.0	125.8
56.00		1.00	1.12	43.185	47.50	516.83	0.630	0.000	2.00	7.797	4.91	233.3	0.0	333.1
58.00		1.00	1.13	43.500	47.85	513.37	0.630	0.000	2.00	7.717	4.86	232.6	0.0	329.7
60.00		1.00	1.14	43.806	48.19	509.82	0.630	0.000	2.00	7.637	4.81	231.8	0.0	326.2
62.00		1.00	1.15	44.105	48.52	506.17	0.630	0.000	2.00	7.557	4.76	231.0	0.0	322.8
64.00		1.00	1.16	44.396	48.84	502.45	0.630	0.000	2.00	7.478	4.71	230.1	0.0	319.4
66.00		1.00	1.16	44.680	49.15	498.64	0.630	0.000	2.00	7.398	4.66	229.1	0.0	315.9
68.00		1.00	1.17	44.957	49.45	494.76	0.630	0.000	2.00	7.318	4.61	228.0	0.0	312.5
70.00		1.00	1.18	45.229	49.75	490.80	0.630	0.000	2.00	7.238	4.56	226.9	0.0	309.0
72.00		1.00	1.18	45.494	50.04	486.78	0.630	0.000	2.00	7.158	4.51	225.7	0.0	305.6
74.00		1.00	1.19	45.754	50.33	482.68	0.630	0.000	2.00	7.078	4.46	224.4	0.0	302.2
76.00		1.00	1.20	46.008	50.61	478.53	0.630	0.000	2.00	6.998	4.41	223.1	0.0	298.7
78.00		1.00	1.20	46.257	50.88	474.32	0.630	0.000	2.00	6.918	4.36	221.8	0.0	295.3
80.00		1.00	1.21	46.501	51.15	470.04	0.630	0.000	2.00	6.839	4.31	220.4	0.0	291.8
82.00		1.00	1.22	46.740	51.41	465.72	0.630	0.000	2.00	6.759	4.26	218.9	0.0	288.4
84.00		1.00	1.22	46.975	51.67	461.33	0.630	0.000	2.00	6.679	4.21	217.4	0.0	285.0
86.00		1.00	1.23	47.206	51.93	456.90	0.630	0.000	2.00	6.599	4.16	215.9	0.0	281.5
88.00		1.00	1.23	47.432	52.18	452.42	0.630	0.000	2.00	6.519	4.11	214.3	0.0	278.1

## Wind Loading - Shaft

**Structure:** CT13075-A-SBA

**Code:** TIA-222-H

8/30/2023

**Site Name:** New London

**Exposure:** C

**Height:** 149.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 1.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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90.00	1.00	1.24	47.655	52.42	447.89	0.630	0.000	2.00	6.439	4.06	212.7	0.0	274.6	
92.00	1.00	1.25	47.873	52.66	443.31	0.630	0.000	2.00	6.359	4.01	211.0	0.0	271.2	
94.00	1.00	1.25	48.088	52.90	438.69	0.630	0.000	2.00	6.279	3.96	209.3	0.0	267.8	
96.00 Bot - Section 3	1.00	1.26	48.300	53.13	434.02	0.630	0.000	2.00	6.200	3.91	207.5	0.0	264.3	
98.00	1.00	1.26	48.508	53.36	429.32	0.630	0.000	2.00	6.212	3.91	208.8	0.0	438.0	
100.00	1.00	1.27	48.712	53.58	424.57	0.630	0.000	2.00	6.132	3.86	207.0	0.0	432.3	
100.75 Top - Section 2	1.00	1.27	48.788	53.67	422.78	0.630	0.000	0.75	2.279	1.44	77.0	0.0	160.6	
102.00	1.00	1.27	48.914	53.81	426.31	0.630	0.000	1.25	3.773	2.38	127.9	0.0	107.6	
104.00	1.00	1.28	49.112	54.02	421.50	0.630	0.000	2.00	5.972	3.76	203.3	0.0	170.3	
106.00	1.00	1.28	49.308	54.24	416.65	0.630	0.000	2.00	5.892	3.71	201.3	0.0	168.0	
108.00	1.00	1.29	49.500	54.45	411.77	0.630	0.000	2.00	5.812	3.66	199.4	0.0	165.7	
110.00	1.00	1.29	49.690	54.66	406.85	0.630	0.000	2.00	5.732	3.61	197.4	0.0	163.4	
112.00	1.00	1.30	49.877	54.87	401.89	0.630	0.000	2.00	5.653	3.56	195.4	0.0	161.1	
114.00	1.00	1.30	50.062	55.07	396.91	0.630	0.000	2.00	5.573	3.51	193.3	0.0	158.8	
116.00 Appurtenance(s)	1.00	1.31	50.244	55.27	391.89	0.630	0.000	2.00	5.493	3.46	191.3	0.0	156.5	
118.00	1.00	1.31	50.423	55.47	386.84	0.630	0.000	2.00	5.413	3.41	189.1	0.0	154.2	
120.00	1.00	1.32	50.601	55.66	381.75	0.630	0.000	2.00	5.333	3.36	187.0	0.0	151.9	
122.00	1.00	1.32	50.776	55.85	376.64	0.630	0.000	2.00	5.253	3.31	184.8	0.0	149.6	
124.00	1.00	1.33	50.948	56.04	371.50	0.630	0.000	2.00	5.173	3.26	182.7	0.0	147.3	
126.00 Appurtenance(s)	1.00	1.33	51.119	56.23	366.33	0.630	0.000	2.00	5.094	3.21	180.4	0.0	145.1	
128.00	1.00	1.34	51.287	56.42	361.14	0.630	0.000	2.00	5.014	3.16	178.2	0.0	142.8	
130.00	1.00	1.34	51.454	56.60	355.91	0.630	0.000	2.00	4.934	3.11	175.9	0.0	140.5	
132.00	1.00	1.34	51.618	56.78	350.66	0.630	0.000	2.00	4.854	3.06	173.6	0.0	138.2	
134.00	1.00	1.35	51.781	56.96	345.39	0.630	0.000	2.00	4.774	3.01	171.3	0.0	135.9	
136.00	1.00	1.35	51.941	57.14	340.09	0.630	0.000	2.00	4.694	2.96	169.0	0.0	133.6	
138.00	1.00	1.36	52.100	57.31	334.76	0.630	0.000	2.00	4.614	2.91	166.6	0.0	131.3	
139.00 Top - Section 3	1.00	1.36	52.179	57.40	332.09	0.630	0.000	1.00	2.277	1.43	82.3	0.0	64.8	
140.00	1.00	1.36	52.257	57.48	328.26	0.630	0.000	1.00	2.249	1.42	81.5	0.0	48.1	
142.00	1.00	1.36	52.412	57.65	322.88	0.630	0.000	2.00	4.439	2.80	161.2	0.0	94.9	
144.00	1.00	1.37	52.565	57.82	317.48	0.630	0.000	2.00	4.359	2.75	158.8	0.0	93.2	
146.00	1.00	1.37	52.717	57.99	312.06	0.630	0.000	2.00	4.279	2.70	156.3	0.0	91.5	
148.00 Appurtenance(s)	1.00	1.38	52.867	58.15	306.62	0.630	0.000	2.00	4.199	2.65	153.8	0.0	89.8	
149.00	1.00	1.38	52.942	58.24	303.89	0.630	0.000	1.00	2.070	1.30	75.9	0.0	44.2	
<b>Totals:</b>								<b>149.00</b>			<b>15,584.4</b>			<b>23,473.1</b>

## Discrete Appurtenance Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

8/30/2023

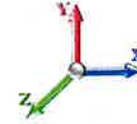
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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.00



**Iterations** 25

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	MT6407-77A	3	52.867	58.154	0.63	0.90	8.86	235.17	0.000	0.000	515.48	0.00	0.00
2	148.00	RFS DB-T1-6Z-8AB-0Z	2	52.867	58.154	0.81	0.90	7.78	79.20	0.000	0.000	452.21	0.00	0.00
3	148.00	Antel BXA-80063/4CF	3	52.979	58.277	0.67	0.90	9.41	26.73	0.000	1.500	548.42	0.00	822.63
4	148.00	MX06FRO660-02	3	52.867	58.154	0.78	0.90	23.44	153.90	0.000	0.000	1363.31	0.00	0.00
5	148.00	MX10FRO660	3	52.867	58.154	0.70	0.90	20.24	154.71	0.000	0.000	1176.96	0.00	0.00
6	148.00	Low Profile Platform	1	52.867	58.154	1.00	1.00	48.20	2035.80	0.000	0.000	2803.03	0.00	0.00
7	148.00	B5/B13 RRH-BR04C	3	52.867	58.154	0.60	0.90	3.40	189.81	0.000	0.000	197.78	0.00	0.00
8	148.00	RT4401-48A	3	52.867	58.154	0.60	0.90	1.56	50.33	0.000	0.000	90.47	0.00	0.00
9	148.00	BSF0020F3V1-1	4	52.867	58.154	0.60	0.90	2.32	63.36	0.000	0.000	134.66	0.00	0.00
10	148.00	B2/B66A RRH-BR049	3	52.867	58.154	0.60	0.90	3.40	227.88	0.000	0.000	197.78	0.00	0.00
11	139.00	APXVAARR24_43-U-NA2	3	52.179	57.396	0.56	0.75	34.16	345.60	0.000	0.000	1960.37	0.00	0.00
12	139.00	AIR6449 B41	3	52.179	57.396	0.53	0.75	9.03	278.10	0.000	0.000	518.05	0.00	0.00
13	139.00	AIR32	3	52.179	57.396	0.65	0.75	12.74	356.94	0.000	0.000	731.42	0.00	0.00
14	139.00	4449 B71 + B12	3	52.179	57.396	0.50	0.75	2.97	197.64	0.000	0.000	170.45	0.00	0.00
15	139.00	KRY 112 144/1	3	52.179	57.396	0.56	0.75	1.20	41.58	0.000	0.000	68.77	0.00	0.00
16	139.00	Low Profile Platform	1	52.179	57.396	1.00	1.00	35.03	1677.15	0.000	0.000	2010.60	0.00	0.00
17	139.00	RRUS 4415 B25	3	52.179	57.396	0.50	0.75	2.47	124.20	0.000	0.000	141.90	0.00	0.00
18	126.00	DC6-48-60-18-8C-EV	1	51.119	56.231	0.75	0.75	3.58	14.40	0.000	0.000	201.59	0.00	0.00
19	126.00	Ericsson 2012 B29	3	51.119	56.231	0.50	0.75	4.75	160.38	0.000	0.000	267.02	0.00	0.00
20	126.00	Ericsson RRUS 4478 B5	3	51.119	56.231	0.50	0.75	2.77	161.73	0.000	0.000	155.97	0.00	0.00
21	126.00	Ericsson RRUS 32 RRU	3	51.119	56.231	0.50	0.75	4.99	207.90	0.000	0.000	280.58	0.00	0.00
22	126.00	Raycap DC6-48-60-18-8F	3	51.119	56.231	0.50	0.75	3.32	85.86	0.000	0.000	186.49	0.00	0.00
23	126.00	Kaelus DBCT108F1V92-1	3	51.119	56.231	0.50	0.75	1.06	53.46	0.000	0.000	59.34	0.00	0.00
24	126.00	Ericsson RRUS 4426 B66	3	51.119	56.231	0.50	0.75	1.73	130.95	0.000	0.000	97.48	0.00	0.00
25	126.00	Ericsson RRUS 4415 B25	3	51.119	56.231	0.50	0.75	2.80	119.07	0.000	0.000	157.67	0.00	0.00
26	126.00	RRUS 4449 B5/B12	3	51.119	56.231	0.50	0.75	2.97	191.70	0.000	0.000	166.99	0.00	0.00
27	126.00	DMP65R-BU8DA	3	51.119	56.231	0.55	0.75	29.35	258.39	0.000	0.000	1650.46	0.00	0.00
28	126.00	AIR 6449 B77D	3	50.948	56.043	0.64	0.75	7.90	237.60	0.000	-2.000	442.66	0.00	-885.33
29	126.00	AIR 6419 B77G	3	51.287	56.416	0.57	0.75	6.50	178.47	0.000	2.000	366.59	0.00	733.18
30	126.00	Ericsson RRUS 4478 B14	3	51.119	56.231	0.50	0.75	2.49	160.38	0.000	0.000	139.87	0.00	0.00
31	126.00	QD8616-7	3	51.119	56.231	0.69	0.75	38.92	184.14	0.000	0.000	2188.28	0.00	0.00
32	126.00	MTC3607 Platform + HR &	1	51.119	56.231	1.00	1.00	48.20	2035.80	0.000	0.000	2710.33	0.00	0.00
33	116.00	MX08FRO665-21	3	50.244	55.268	0.55	0.75	20.80	174.15	0.000	0.000	1149.35	0.00	0.00
34	116.00	MC-PK8-DSH	1	50.244	55.268	1.00	1.00	34.23	1621.40	0.000	0.000	1891.83	0.00	0.00
35	116.00	RDIDC-9181-OF-48	1	50.244	55.268	1.00	1.00	2.01	19.71	0.000	0.000	111.09	0.00	0.00
36	116.00	TA08025-B604	3	50.244	55.268	0.50	0.75	2.95	172.53	0.000	0.000	163.30	0.00	0.00
37	116.00	TA08025-B605	3	50.244	55.268	0.50	0.75	2.95	202.50	0.000	0.000	163.30	0.00	0.00
<b>Totals:</b>									<b>12,608.62</b>			<b>25,631.87</b>		



## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
2.00		229.42	535.09	0.00	0.00
4.00		227.62	531.07	0.00	0.00
6.00		225.81	527.06	0.00	0.00
8.00		224.00	523.04	0.00	0.00
10.00		222.19	519.03	0.00	0.00
12.00		220.39	515.02	0.00	0.00
14.00		218.58	511.00	0.00	0.00
16.00		222.27	506.99	0.00	0.00
18.00		225.64	502.97	0.00	0.00
20.00		228.51	498.96	0.00	0.00
22.00		230.95	494.95	0.00	0.00
24.00		233.03	490.93	0.00	0.00
26.00		234.79	486.92	0.00	0.00
28.00		236.28	482.91	0.00	0.00
30.00		237.52	478.89	0.00	0.00
32.00		238.53	474.88	0.00	0.00
34.00		239.35	470.86	0.00	0.00
36.00		239.98	466.85	0.00	0.00
38.00		240.45	462.84	0.00	0.00
40.00		240.77	458.82	0.00	0.00
42.00		240.94	454.81	0.00	0.00
44.00		240.98	450.79	0.00	0.00
46.00		240.91	446.78	0.00	0.00
47.25		150.23	277.20	0.00	0.00
48.00		91.45	295.25	0.00	0.00
50.00		244.32	782.20	0.00	0.00
52.00		243.95	774.75	0.00	0.00
53.25		152.02	480.43	0.00	0.00
54.00		91.03	142.80	0.00	0.00
56.00		242.94	378.44	0.00	0.00
58.00		242.30	375.00	0.00	0.00
60.00		241.58	371.56	0.00	0.00
62.00		240.79	368.12	0.00	0.00
64.00		239.92	364.68	0.00	0.00
66.00		238.98	361.24	0.00	0.00
68.00		237.98	357.79	0.00	0.00
70.00		236.91	354.35	0.00	0.00
72.00		235.78	350.91	0.00	0.00
74.00		234.60	347.47	0.00	0.00
76.00		233.35	344.03	0.00	0.00
78.00		232.05	340.59	0.00	0.00
80.00		230.71	337.15	0.00	0.00
82.00		229.31	333.71	0.00	0.00
84.00		227.86	330.27	0.00	0.00
86.00		226.36	326.83	0.00	0.00
88.00		224.82	323.39	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 25



90.00		223.24	319.95	0.00	0.00
92.00		221.62	316.51	0.00	0.00
94.00		219.95	313.07	0.00	0.00
96.00		218.24	309.63	0.00	0.00
98.00		219.59	483.35	0.00	0.00
100.00		217.82	477.62	0.00	0.00
100.75		81.11	177.63	0.00	0.00
102.00		134.69	135.91	0.00	0.00
104.00		214.17	215.60	0.00	0.00
106.00		212.29	213.30	0.00	0.00
108.00		210.38	211.01	0.00	0.00
110.00		208.44	208.72	0.00	0.00
112.00		206.46	206.42	0.00	0.00
114.00		204.46	204.13	0.00	0.00
116.00	(11) attachments	3681.30	2392.13	0.00	0.00
118.00		200.35	197.74	0.00	0.00
120.00		198.26	195.45	0.00	0.00
122.00		196.13	193.15	0.00	0.00
124.00		193.98	190.86	0.00	0.00
126.00	(41) attachments	9263.12	4368.80	0.00	-152.15
128.00		189.59	179.47	0.00	0.00
130.00		187.36	177.18	0.00	0.00
132.00		185.10	174.88	0.00	0.00
134.00		182.82	172.59	0.00	0.00
136.00		180.51	170.29	0.00	0.00
138.00		178.18	168.00	0.00	0.00
139.00	(19) attachments	5689.71	3104.35	0.00	0.00
140.00		87.26	56.88	0.00	0.00
142.00		172.87	112.47	0.00	0.00
144.00		170.47	110.75	0.00	0.00
146.00		168.04	109.03	0.00	0.00
148.00	(28) attachments	7645.70	3324.20	0.00	822.63
149.00		81.81	45.42	0.00	0.00
	<b>Totals:</b>	<b>41,953.18</b>	<b>39,246.11</b>	<b>0.00</b>	<b>670.49</b>

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

8/30/2023

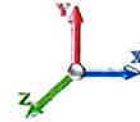
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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00

**Iterations** 25



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
2.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
2.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
4.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
4.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
6.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
6.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
8.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
8.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
10.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
10.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
12.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
12.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
14.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	32.647	2.73	0.49
14.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	32.647	4.52	1.87
16.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	33.475	2.80	0.49
16.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	33.475	4.64	1.87
18.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	34.268	2.86	0.49
18.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	34.268	4.75	1.87
20.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	34.998	2.93	0.49
20.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	34.998	4.85	1.87
22.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	35.674	2.98	0.49
22.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	35.674	4.94	1.87
24.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	36.306	3.04	0.49
24.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	36.306	5.03	1.87
26.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	36.899	3.08	0.49
26.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	36.899	5.11	1.87
28.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	37.458	3.13	0.49
28.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	37.458	5.19	1.87
30.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	37.988	3.18	0.49
30.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	37.988	5.27	1.87
32.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	38.491	3.22	0.49
32.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	38.491	5.33	1.87
34.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	38.971	3.26	0.49
34.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	38.971	5.40	1.87
36.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	39.430	3.30	0.49
36.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	39.430	5.46	1.87
38.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	39.869	3.33	0.49
38.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	39.869	5.53	1.87
40.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	40.291	3.37	0.49
40.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	40.291	5.58	1.87
42.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	40.697	3.40	0.49
42.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	40.697	5.64	1.87
44.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	41.089	3.43	0.49
44.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	41.089	5.69	1.87
46.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	41.466	3.47	0.49
46.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	41.466	5.75	1.87
47.25	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	41.696	2.18	0.31

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

8/30/2023

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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.00



**Iterations** 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
47.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	41.696	3.61	1.17
48.00	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	41.832	1.31	0.18
48.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	41.832	2.17	0.70
50.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	42.186	3.53	0.49
50.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	42.186	5.85	1.87
52.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	42.529	3.56	0.49
52.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	42.529	5.89	1.87
53.25	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	42.738	2.23	0.31
53.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	42.738	3.70	1.17
54.00	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	42.862	1.34	0.18
54.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	42.862	2.23	0.70
56.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	43.185	3.61	0.49
56.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	43.185	5.99	1.87
58.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	43.500	3.64	0.49
58.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	43.500	6.03	1.87
60.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	43.806	3.66	0.49
60.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	43.806	6.07	1.87
62.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.105	3.69	0.49
62.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.105	6.11	1.87
64.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.396	3.71	0.49
64.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.396	6.15	1.87
66.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.680	3.74	0.49
66.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.680	6.19	1.87
68.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	44.957	3.76	0.49
68.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	44.957	6.23	1.87
70.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	45.229	3.78	0.49
70.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	45.229	6.27	1.87
72.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	45.494	3.80	0.49
72.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	45.494	6.31	1.87
74.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	45.754	3.83	0.49
74.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	45.754	6.34	1.87
76.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.008	3.85	0.49
76.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.008	6.38	1.87
78.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.257	3.87	0.49
78.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.257	6.41	1.87
80.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.501	3.89	0.49
80.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.501	6.45	1.87
82.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.740	3.91	0.49
82.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.740	6.48	1.87
84.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	46.975	3.93	0.49
84.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	46.975	6.51	1.87
86.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.206	3.95	0.49
86.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.206	6.54	1.87
88.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.432	3.97	0.49
88.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.432	6.57	1.87
90.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.655	3.98	0.49
90.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.655	6.60	1.87

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

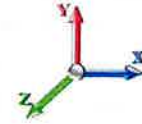
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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	47.873	4.00	0.49
92.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	47.873	6.64	1.87
94.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.088	4.02	0.49
94.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.088	6.67	1.87
96.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.300	4.04	0.49
96.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.300	6.69	1.87
98.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.508	4.06	0.49
98.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.508	6.72	1.87
100.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	48.712	4.07	0.49
100.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	48.712	6.75	1.87
100.75	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	48.788	1.53	0.18
100.75	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	48.788	2.54	0.70
102.00	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	48.914	2.56	0.31
102.00	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	48.914	4.24	1.17
104.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.112	4.11	0.49
104.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.112	6.81	1.87
106.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.308	4.12	0.49
106.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.308	6.83	1.87
108.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.500	4.14	0.49
108.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.500	6.86	1.87
110.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.690	4.15	0.49
110.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.690	6.89	1.87
112.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	49.877	4.17	0.49
112.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	49.877	6.91	1.87
114.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.062	4.19	0.49
114.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.062	6.94	1.87
116.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.244	4.20	0.49
116.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.244	6.96	1.87
118.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.423	4.22	0.49
118.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.423	6.99	1.87
120.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.601	4.23	0.49
120.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.601	7.01	1.87
122.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.776	4.24	0.49
122.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.776	7.04	1.87
124.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	50.948	4.26	0.49
124.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	50.948	7.06	1.87
126.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.119	4.27	0.49
126.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.119	7.09	1.87
128.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.287	4.29	0.49
128.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.287	7.11	1.87
130.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.454	4.30	0.49
130.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.454	7.13	1.87
132.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.618	4.32	0.49
132.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.618	7.15	1.87
134.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.781	4.33	0.49
134.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.781	7.18	1.87
136.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	51.941	4.34	0.49

## Linear Appurtenance Segment Forces (Factored)

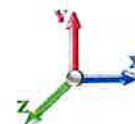
<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor**    0.90  
**Wind Load Factor**    1.00



**Iterations**    25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
136.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	51.941	7.20	1.87
138.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.100	4.36	0.49
138.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.100	7.22	1.87
139.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	52.179	2.18	0.25
139.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	52.179	3.62	0.94
140.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	52.257	2.18	0.25
140.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	52.257	3.62	0.94
142.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.412	4.38	0.49
142.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.412	7.26	1.87
144.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.565	4.39	0.49
144.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.565	7.29	1.87
146.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.717	4.41	0.49
146.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.717	7.31	1.87
148.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	52.867	4.42	0.49
148.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	52.867	7.33	1.87
149.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	52.942	2.21	0.25
149.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	52.942	3.67	0.94
<b>Totals:</b>											<b>736.9</b>	<b>176.1</b>

## Calculated Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 0.9D + 1.0W 126 mph Wind

**Dead Load Factor** 0.90  
**Wind Load Factor** 1.00



**Iterations** 25

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-39.22	-41.98	0.00	-4738.2	0.00	4738.24	5451.60	1409.10	6760.13	6487.84	0.00	0.000	0.000	0.738
2.00	-38.62	-41.80	0.00	-4654.2	0.00	4654.28	5423.14	1397.60	6650.22	6400.90	0.02	-0.079	0.000	0.735
4.00	-38.03	-41.63	0.00	-4570.6	0.00	4570.67	5394.41	1386.10	6541.22	6314.20	0.07	-0.158	0.000	0.732
6.00	-37.45	-41.45	0.00	-4487.4	0.00	4487.42	5365.42	1374.60	6433.12	6227.76	0.15	-0.238	0.000	0.728
8.00	-36.87	-41.28	0.00	-4404.5	0.00	4404.52	5336.17	1363.10	6325.92	6141.58	0.27	-0.318	0.000	0.725
10.00	-36.29	-41.10	0.00	-4321.9	0.00	4321.96	5306.65	1351.60	6219.62	6055.68	0.42	-0.399	0.000	0.721
12.00	-35.72	-40.93	0.00	-4239.7	0.00	4239.76	5276.87	1340.10	6114.23	5970.05	0.61	-0.481	0.000	0.718
14.00	-35.16	-40.76	0.00	-4157.9	0.00	4157.90	5246.82	1328.60	6009.73	5884.71	0.82	-0.562	0.000	0.714
16.00	-34.59	-40.58	0.00	-4076.3	0.00	4076.39	5216.51	1317.10	5906.13	5799.67	1.08	-0.645	0.000	0.710
18.00	-34.03	-40.40	0.00	-3995.2	0.00	3995.23	5185.94	1305.60	5803.43	5714.93	1.37	-0.728	0.000	0.707
20.00	-33.48	-40.21	0.00	-3914.4	0.00	3914.43	5155.10	1294.09	5701.64	5630.50	1.69	-0.811	0.000	0.703
22.00	-32.93	-40.02	0.00	-3834.0	0.00	3834.01	5124.00	1282.59	5600.74	5546.38	2.05	-0.895	0.000	0.699
24.00	-32.38	-39.83	0.00	-3753.9	0.00	3753.97	5092.64	1271.09	5500.75	5462.60	2.44	-0.979	0.000	0.695
26.00	-31.84	-39.63	0.00	-3674.3	0.00	3674.32	5061.01	1259.59	5401.66	5379.14	2.87	-1.064	0.000	0.690
28.00	-31.30	-39.43	0.00	-3595.0	0.00	3595.05	5029.12	1248.09	5303.46	5296.03	3.34	-1.150	0.000	0.686
30.00	-30.77	-39.23	0.00	-3516.1	0.00	3516.19	4996.96	1236.59	5206.17	5213.26	3.84	-1.236	0.000	0.682
32.00	-30.24	-39.03	0.00	-3437.7	0.00	3437.72	4964.54	1225.09	5109.78	5130.86	4.37	-1.322	0.000	0.677
34.00	-29.72	-38.82	0.00	-3359.6	0.00	3359.67	4931.86	1213.59	5014.29	5048.81	4.95	-1.409	0.000	0.672
36.00	-29.20	-38.62	0.00	-3282.0	0.00	3282.02	4898.91	1202.09	4919.70	4967.14	5.55	-1.496	0.000	0.668
38.00	-28.68	-38.41	0.00	-3204.7	0.00	3204.79	4865.70	1190.58	4826.01	4885.85	6.20	-1.583	0.000	0.663
40.00	-28.17	-38.20	0.00	-3127.9	0.00	3127.98	4832.22	1179.08	4733.22	4804.95	6.88	-1.672	0.000	0.658
42.00	-27.67	-37.99	0.00	-3051.5	0.00	3051.58	4798.48	1167.58	4641.33	4724.44	7.60	-1.760	0.000	0.653
44.00	-27.17	-37.77	0.00	-2975.6	0.00	2975.61	4764.48	1156.08	4550.35	4644.34	8.36	-1.849	0.000	0.647
46.00	-26.68	-37.55	0.00	-2900.0	0.00	2900.07	4730.21	1144.58	4460.26	4564.64	9.15	-1.938	0.000	0.642
47.25	-26.38	-37.41	0.00	-2853.1	0.00	2853.13	4708.66	1137.39	4404.41	4515.05	9.67	-1.994	0.000	0.639
48.00	-26.05	-37.34	0.00	-2825.0	0.00	2825.07	4695.68	1133.08	4371.07	4485.37	9.99	-2.028	0.000	0.636
50.00	-25.22	-37.11	0.00	-2750.3	0.00	2750.39	4660.89	1121.58	4282.79	4406.52	10.85	-2.118	0.000	0.631
52.00	-24.40	-36.86	0.00	-2676.1	0.00	2676.18	4625.83	1110.08	4195.41	4328.11	11.76	-2.209	0.000	0.625
53.25	-23.90	-36.71	0.00	-2630.1	0.00	2630.10	3820.53	963.13	3684.59	3623.65	12.35	-2.266	0.000	0.734
54.00	-23.72	-36.64	0.00	-2602.5	0.00	2602.57	3810.68	959.44	3656.36	3600.32	12.71	-2.300	0.000	0.731
56.00	-23.29	-36.43	0.00	-2529.2	0.00	2529.28	3784.24	949.58	3581.60	3538.31	13.69	-2.400	0.000	0.722
58.00	-22.86	-36.21	0.00	-2456.4	0.00	2456.43	3757.53	939.72	3507.63	3476.56	14.72	-2.500	0.000	0.714
60.00	-22.43	-35.99	0.00	-2384.0	0.00	2384.01	3730.55	929.86	3434.42	3415.10	15.79	-2.601	0.000	0.706
62.00	-22.01	-35.77	0.00	-2312.0	0.00	2312.03	3703.32	920.01	3361.98	3353.92	16.90	-2.702	0.000	0.697
64.00	-21.60	-35.55	0.00	-2240.4	0.00	2240.49	3675.82	910.15	3290.32	3293.05	18.05	-2.803	0.000	0.688
66.00	-21.19	-35.33	0.00	-2169.3	0.00	2169.39	3648.05	900.29	3219.43	3232.47	19.25	-2.903	0.000	0.678
68.00	-20.78	-35.11	0.00	-2098.7	0.00	2098.72	3620.03	890.43	3149.31	3172.21	20.49	-3.004	0.000	0.669
70.00	-20.38	-34.89	0.00	-2028.5	0.00	2028.50	3591.74	880.57	3079.96	3112.27	21.77	-3.105	0.000	0.659
72.00	-19.98	-34.67	0.00	-1958.7	0.00	1958.71	3563.18	870.71	3011.39	3052.66	23.09	-3.206	0.000	0.649
74.00	-19.59	-34.45	0.00	-1889.3	0.00	1889.36	3534.36	860.86	2943.59	2993.38	24.45	-3.306	0.000	0.638
76.00	-19.20	-34.24	0.00	-1820.4	0.00	1820.45	3505.28	851.00	2876.56	2934.44	25.86	-3.407	0.000	0.627
78.00	-18.81	-34.02	0.00	-1751.9	0.00	1751.98	3475.93	841.14	2810.30	2875.86	27.31	-3.506	0.000	0.616
80.00	-18.43	-33.80	0.00	-1683.9	0.00	1683.95	3446.32	831.28	2744.81	2817.63	28.80	-3.606	0.000	0.605
82.00	-18.06	-33.58	0.00	-1616.3	0.00	1616.36	3416.44	821.42	2680.10	2759.78	30.33	-3.705	0.000	0.593
84.00	-17.68	-33.36	0.00	-1549.2	0.00	1549.20	3386.31	811.57	2616.15	2702.29	31.90	-3.804	0.000	0.580
86.00	-17.32	-33.14	0.00	-1482.4	0.00	1482.48	3355.90	801.71	2552.98	2645.19	33.52	-3.901	0.000	0.567
88.00	-16.95	-32.92	0.00	-1416.2	0.00	1416.20	3325.24	791.85	2490.58	2588.48	35.17	-3.998	0.000	0.554
90.00	-16.60	-32.71	0.00	-1350.3	0.00	1350.36	3294.31	781.99	2428.96	2532.16	36.87	-4.094	0.000	0.540

## Calculated Forces

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Struct Class:</b> II	Page: 31



Topography: 1														
92.00	-16.24	-32.49	0.00	-1284.9	0.00	1284.95	3263.11	772.13	2368.10	2476.25	38.60	-4.189	0.000	0.526
94.00	-15.89	-32.27	0.00	-1219.9	0.00	1219.97	3226.97	762.28	2308.02	2417.24	40.38	-4.283	0.000	0.511
96.00	-15.55	-32.06	0.00	-1155.4	0.00	1155.43	3185.24	752.42	2248.71	2354.81	42.19	-4.376	0.000	0.497
98.00	-15.04	-31.82	0.00	-1091.3	0.00	1091.32	3143.50	742.56	2190.17	2293.20	44.04	-4.467	0.000	0.483
100.00	-14.54	-31.58	0.00	-1027.6	0.00	1027.67	3101.77	732.70	2132.40	2232.40	45.93	-4.556	0.000	0.467
100.75	-14.35	-31.50	0.00	-1003.9	0.00	1003.98	1863.03	495.32	1461.74	1364.60	46.65	-4.589	0.000	0.747
102.00	-14.17	-31.38	0.00	-964.61	0.00	964.61	1853.75	491.21	1437.59	1346.46	47.86	-4.644	0.000	0.728
104.00	-13.91	-31.18	0.00	-901.86	0.00	901.86	1838.67	484.64	1399.38	1317.52	49.83	-4.765	0.000	0.696
106.00	-13.66	-30.97	0.00	-839.51	0.00	839.51	1823.34	478.06	1361.69	1288.68	51.85	-4.882	0.000	0.663
108.00	-13.40	-30.77	0.00	-777.56	0.00	777.56	1807.74	471.49	1324.51	1259.97	53.91	-4.995	0.000	0.629
110.00	-13.16	-30.57	0.00	-716.02	0.00	716.02	1791.88	464.92	1287.84	1231.38	56.03	-5.105	0.000	0.593
112.00	-12.92	-30.37	0.00	-654.88	0.00	654.88	1775.75	458.35	1251.69	1202.91	58.19	-5.209	0.000	0.556
114.00	-12.68	-30.17	0.00	-594.14	0.00	594.14	1759.36	451.78	1216.05	1174.59	60.39	-5.309	0.000	0.517
116.00	-10.60	-26.30	0.00	-533.81	0.00	533.81	1742.70	445.20	1180.93	1146.42	62.63	-5.402	0.000	0.475
118.00	-10.38	-26.09	0.00	-481.21	0.00	481.21	1725.78	438.63	1146.32	1118.40	64.91	-5.491	0.000	0.440
120.00	-10.17	-25.89	0.00	-429.03	0.00	429.03	1708.60	432.06	1112.22	1090.54	67.23	-5.573	0.000	0.403
122.00	-9.97	-25.69	0.00	-377.25	0.00	377.25	1691.15	425.49	1078.65	1062.86	69.58	-5.650	0.000	0.364
124.00	-9.77	-25.49	0.00	-325.87	0.00	325.87	1673.44	418.92	1045.58	1035.35	71.96	-5.720	0.000	0.324
126.00	-6.33	-15.84	0.00	-274.89	0.00	274.89	1655.47	412.34	1013.03	1008.03	74.36	-5.782	0.000	0.278
128.00	-6.16	-15.64	0.00	-243.20	0.00	243.20	1637.23	405.77	981.00	980.90	76.79	-5.839	0.000	0.253
130.00	-5.99	-15.44	0.00	-211.92	0.00	211.92	1618.72	399.20	949.48	953.97	79.25	-5.891	0.000	0.227
132.00	-5.82	-15.24	0.00	-181.04	0.00	181.04	1599.96	392.63	918.47	927.26	81.72	-5.939	0.000	0.200
134.00	-5.66	-15.05	0.00	-150.55	0.00	150.55	1580.93	386.05	887.98	900.76	84.22	-5.981	0.000	0.172
136.00	-5.50	-14.85	0.00	-120.45	0.00	120.45	1561.63	379.48	858.01	874.48	86.73	-6.017	0.000	0.143
138.00	-5.35	-14.66	0.00	-90.75	0.00	90.75	1542.08	372.91	828.54	848.44	89.25	-6.046	0.000	0.112
139.00	-2.86	-8.68	0.00	-76.09	0.00	76.09	1532.20	369.62	814.01	835.51	90.51	-6.059	0.000	0.093
139.00	-2.86	-8.68	0.00	-76.09	0.00	76.09	1044.08	276.90	609.10	570.00	90.51	-6.059	0.000	0.137
140.00	-2.81	-8.58	0.00	-67.41	0.00	67.41	1038.46	274.43	598.30	561.85	91.78	-6.069	0.000	0.124
142.00	-2.71	-8.40	0.00	-50.24	0.00	50.24	1027.02	269.50	577.00	545.62	94.33	-6.094	0.000	0.096
144.00	-2.62	-8.22	0.00	-33.44	0.00	33.44	1015.32	264.58	556.09	529.46	96.88	-6.112	0.000	0.067
146.00	-2.53	-8.04	0.00	-16.99	0.00	16.99	1003.36	259.65	535.56	513.40	99.44	-6.124	0.000	0.037
148.00	-0.04	-0.09	0.00	-0.09	0.00	0.09	991.13	254.72	515.42	497.45	102.00	-6.129	0.000	0.000
149.00	0.00	-0.08	0.00	0.00	0.00	0.00	984.92	252.25	505.50	489.51	103.28	-6.129	0.000	0.000



## Wind Loading - Shaft

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

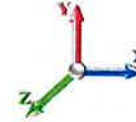
8/30/2023

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

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



**Iterations** 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	5.141	5.66	0.00	1.200	0.705	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	5.141	5.66	0.00	1.200	0.787	2.00	10.082	12.10	68.4	115.5	768.5
4.00		1.00	0.85	5.141	5.66	0.00	1.200	0.828	2.00	10.016	12.02	68.0	120.7	768.3
6.00		1.00	0.85	5.141	5.66	0.00	1.200	0.856	2.00	9.946	11.93	67.5	123.8	766.2
8.00		1.00	0.85	5.141	5.66	0.00	1.200	0.878	2.00	9.873	11.85	67.0	126.0	763.0
10.00		1.00	0.85	5.141	5.66	0.00	1.200	0.896	2.00	9.799	11.76	66.5	127.5	759.2
12.00		1.00	0.85	5.141	5.66	0.00	1.200	0.911	2.00	9.724	11.67	66.0	128.6	754.9
14.00		1.00	0.85	5.141	5.66	0.00	1.200	0.924	2.00	9.649	11.58	65.5	129.4	750.3
16.00		1.00	0.87	5.271	5.80	0.00	1.200	0.936	2.00	9.573	11.49	66.6	130.0	745.5
18.00		1.00	0.89	5.396	5.94	0.00	1.200	0.946	2.00	9.496	11.40	67.6	130.3	740.5
20.00		1.00	0.91	5.511	6.06	0.00	1.200	0.956	2.00	9.420	11.30	68.5	130.5	735.4
22.00		1.00	0.93	5.618	6.18	0.00	1.200	0.965	2.00	9.343	11.21	69.3	130.6	730.1
24.00		1.00	0.95	5.717	6.29	0.00	1.200	0.973	2.00	9.265	11.12	69.9	130.6	724.7
26.00		1.00	0.96	5.811	6.39	0.00	1.200	0.980	2.00	9.188	11.03	70.5	130.4	719.2
28.00		1.00	0.98	5.899	6.49	0.00	1.200	0.987	2.00	9.111	10.93	70.9	130.2	713.7
30.00		1.00	0.99	5.982	6.58	0.00	1.200	0.994	2.00	9.033	10.84	71.3	129.9	708.0
32.00		1.00	1.00	6.061	6.67	0.00	1.200	1.000	2.00	8.955	10.75	71.6	129.6	702.3
34.00		1.00	1.01	6.137	6.75	0.00	1.200	1.006	2.00	8.877	10.65	71.9	129.2	696.6
36.00		1.00	1.03	6.209	6.83	0.00	1.200	1.012	2.00	8.799	10.56	72.1	128.7	690.8
38.00		1.00	1.04	6.278	6.91	0.00	1.200	1.017	2.00	8.721	10.47	72.3	128.2	684.9
40.00		1.00	1.05	6.345	6.98	0.00	1.200	1.022	2.00	8.643	10.37	72.4	127.6	679.0
42.00		1.00	1.06	6.409	7.05	0.00	1.200	1.027	2.00	8.565	10.28	72.5	127.0	673.0
44.00		1.00	1.07	6.470	7.12	0.00	1.200	1.032	2.00	8.486	10.18	72.5	126.4	667.1
46.00		1.00	1.08	6.530	7.18	0.00	1.200	1.036	2.00	8.408	10.09	72.5	125.8	661.0
47.25 Bot - Section 2		1.00	1.09	6.566	7.22	0.00	1.200	1.039	1.25	5.215	6.26	45.2	78.3	410.2
48.00		1.00	1.09	6.587	7.25	0.00	1.200	1.040	0.75	3.164	3.80	27.5	47.7	418.7
50.00		1.00	1.10	6.643	7.31	0.00	1.200	1.044	2.00	8.385	10.06	73.5	126.4	1108.9
52.00		1.00	1.11	6.697	7.37	0.00	1.200	1.049	2.00	8.306	9.97	73.4	125.7	1098.2
53.25 Top - Section 1		1.00	1.11	6.730	7.40	0.00	1.200	1.051	1.25	5.151	6.18	45.8	78.2	681.1
54.00		1.00	1.12	6.749	7.42	0.00	1.200	1.052	0.75	3.076	3.69	27.4	46.8	214.6
56.00		1.00	1.12	6.800	7.48	0.00	1.200	1.056	2.00	8.149	9.78	73.1	124.1	568.3
58.00		1.00	1.13	6.850	7.53	0.00	1.200	1.060	2.00	8.070	9.68	73.0	123.3	562.9
60.00		1.00	1.14	6.898	7.59	0.00	1.200	1.063	2.00	7.992	9.59	72.8	122.4	557.4
62.00		1.00	1.15	6.945	7.64	0.00	1.200	1.067	2.00	7.913	9.50	72.5	121.6	552.0
64.00		1.00	1.16	6.991	7.69	0.00	1.200	1.070	2.00	7.834	9.40	72.3	120.7	546.5
66.00		1.00	1.16	7.036	7.74	0.00	1.200	1.073	2.00	7.755	9.31	72.0	119.8	541.1
68.00		1.00	1.17	7.079	7.79	0.00	1.200	1.077	2.00	7.677	9.21	71.7	118.9	535.6
70.00		1.00	1.18	7.122	7.83	0.00	1.200	1.080	2.00	7.598	9.12	71.4	118.0	530.0
72.00		1.00	1.18	7.164	7.88	0.00	1.200	1.083	2.00	7.519	9.02	71.1	117.0	524.5
74.00		1.00	1.19	7.205	7.93	0.00	1.200	1.086	2.00	7.440	8.93	70.8	116.1	519.0
76.00		1.00	1.20	7.245	7.97	0.00	1.200	1.088	2.00	7.361	8.83	70.4	115.1	513.4
78.00		1.00	1.20	7.284	8.01	0.00	1.200	1.091	2.00	7.282	8.74	70.0	114.1	507.8
80.00		1.00	1.21	7.323	8.05	0.00	1.200	1.094	2.00	7.203	8.64	69.6	113.1	502.2
82.00		1.00	1.22	7.360	8.10	0.00	1.200	1.097	2.00	7.124	8.55	69.2	112.1	496.6
84.00		1.00	1.22	7.397	8.14	0.00	1.200	1.099	2.00	7.045	8.45	68.8	111.1	491.0
86.00		1.00	1.23	7.434	8.18	0.00	1.200	1.102	2.00	6.966	8.36	68.4	110.0	485.4
88.00		1.00	1.23	7.469	8.22	0.00	1.200	1.104	2.00	6.887	8.26	67.9	109.0	479.8

## Wind Loading - Shaft

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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90.00	1.00	1.24	7.504	8.25	0.00	1.200	1.107	2.00	6.808	8.17	67.4	107.9	474.1
92.00	1.00	1.25	7.539	8.29	0.00	1.200	1.109	2.00	6.729	8.07	67.0	106.9	468.5
94.00	1.00	1.25	7.572	8.33	0.00	1.200	1.112	2.00	6.650	7.98	66.5	105.8	462.8
96.00 Bot - Section 3	1.00	1.26	7.606	8.37	0.00	1.200	1.114	2.00	6.571	7.89	66.0	104.7	457.1
98.00	1.00	1.26	7.639	8.40	0.00	1.200	1.116	2.00	6.584	7.90	66.4	105.1	689.2
100.00	1.00	1.27	7.671	8.44	0.00	1.200	1.118	2.00	6.505	7.81	65.9	104.0	680.4
100.75 Top - Section 2	1.00	1.27	7.683	8.45	0.00	1.200	1.119	0.75	2.419	2.90	24.5	38.8	253.0
102.00	1.00	1.27	7.702	8.47	0.00	1.200	1.121	1.25	4.007	4.81	40.7	64.3	207.8
104.00	1.00	1.28	7.734	8.51	0.00	1.200	1.123	2.00	6.346	7.62	64.8	101.8	328.8
106.00	1.00	1.28	7.764	8.54	0.00	1.200	1.125	2.00	6.267	7.52	64.2	100.6	324.6
108.00	1.00	1.29	7.795	8.57	0.00	1.200	1.127	2.00	6.188	7.43	63.7	99.5	320.4
110.00	1.00	1.29	7.825	8.61	0.00	1.200	1.129	2.00	6.109	7.33	63.1	98.3	316.2
112.00	1.00	1.30	7.854	8.64	0.00	1.200	1.131	2.00	6.030	7.24	62.5	97.2	312.0
114.00	1.00	1.30	7.883	8.67	0.00	1.200	1.133	2.00	5.950	7.14	61.9	96.0	307.8
116.00 Appurtenance(s)	1.00	1.31	7.912	8.70	0.00	1.200	1.135	2.00	5.871	7.05	61.3	94.8	303.5
118.00	1.00	1.31	7.940	8.73	0.00	1.200	1.137	2.00	5.792	6.95	60.7	93.7	299.3
120.00	1.00	1.32	7.968	8.76	0.00	1.200	1.139	2.00	5.713	6.86	60.1	92.5	295.1
122.00	1.00	1.32	7.996	8.80	0.00	1.200	1.141	2.00	5.633	6.76	59.5	91.3	290.8
124.00	1.00	1.33	8.023	8.83	0.00	1.200	1.142	2.00	5.554	6.67	58.8	90.1	286.6
126.00 Appurtenance(s)	1.00	1.33	8.050	8.85	0.00	1.200	1.144	2.00	5.475	6.57	58.2	88.9	282.3
128.00	1.00	1.34	8.076	8.88	0.00	1.200	1.146	2.00	5.396	6.47	57.5	87.7	278.0
130.00	1.00	1.34	8.102	8.91	0.00	1.200	1.148	2.00	5.316	6.38	56.9	86.5	273.7
132.00	1.00	1.34	8.128	8.94	0.00	1.200	1.150	2.00	5.237	6.28	56.2	85.2	269.5
134.00	1.00	1.35	8.154	8.97	0.00	1.200	1.151	2.00	5.158	6.19	55.5	84.0	265.2
136.00	1.00	1.35	8.179	9.00	0.00	1.200	1.153	2.00	5.078	6.09	54.8	82.8	260.9
138.00	1.00	1.36	8.204	9.02	0.00	1.200	1.155	2.00	4.999	6.00	54.1	81.5	256.6
139.00 Top - Section 3	1.00	1.36	8.217	9.04	0.00	1.200	1.155	1.00	2.470	2.96	26.8	40.4	126.8
140.00	1.00	1.36	8.229	9.05	0.00	1.200	1.156	1.00	2.442	2.93	26.5	40.0	104.1
142.00	1.00	1.36	8.253	9.08	0.00	1.200	1.158	2.00	4.825	5.79	52.6	78.8	205.3
144.00	1.00	1.37	8.278	9.11	0.00	1.200	1.160	2.00	4.745	5.69	51.8	77.5	201.8
146.00	1.00	1.37	8.301	9.13	0.00	1.200	1.161	2.00	4.666	5.60	51.1	76.2	198.2
148.00 Appurtenance(s)	1.00	1.38	8.325	9.16	0.00	1.200	1.163	2.00	4.587	5.50	50.4	75.0	194.6
149.00	1.00	1.38	8.337	9.17	0.00	1.200	1.163	1.00	2.264	2.72	24.9	37.2	96.1
<b>Totals:</b>								<b>149.00</b>	<b>4,921.5</b>	<b>39,538.5</b>			

## Discrete Appurtenance Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

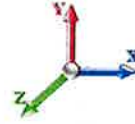
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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



**Iterations** 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	MT6407-77A	3	8.325	9.158	0.64	0.90	10.14	484.31	0.000	0.000	92.86	0.00	0.00
2	148.00	RFS DB-T1-6Z-8AB-0Z	2	8.325	9.158	0.81	0.90	8.69	254.99	0.000	0.000	79.59	0.00	0.00
3	148.00	Antel BXA-80063/4CF	3	8.343	9.177	0.68	0.90	10.94	169.55	0.000	1.500	100.37	0.00	150.55
4	148.00	MX06FRO660-02	3	8.325	9.158	0.79	0.90	25.85	556.69	0.000	0.000	236.74	0.00	0.00
5	148.00	MX10FRO660	3	8.325	9.158	0.71	0.90	22.39	500.48	0.000	0.000	205.00	0.00	0.00
6	148.00	Low Profile Platform	1	8.325	9.158	1.00	1.00	70.62	4754.41	0.000	0.000	646.68	0.00	0.00
7	148.00	B5/B13 RRH-BR04C	3	8.325	9.158	0.68	0.90	4.54	314.40	0.000	0.000	41.59	0.00	0.00
8	148.00	RT4401-48A	3	8.325	9.158	0.60	0.90	2.02	94.24	0.000	0.000	18.49	0.00	0.00
9	148.00	BSF0020F3V1-1	4	8.325	9.158	0.60	0.90	2.95	33.12	0.000	0.000	27.05	0.00	0.00
10	148.00	B2/B66A RRH-BR049	3	8.325	9.158	0.60	0.90	4.06	367.73	0.000	0.000	37.16	0.00	0.00
11	139.00	APXVAARR24_43-U-NA2	3	8.217	9.038	0.56	0.75	36.25	1255.54	0.000	0.000	327.65	0.00	0.00
12	139.00	AIR6449 B41	3	8.217	9.038	0.53	0.75	10.03	548.05	0.000	0.000	90.66	0.00	0.00
13	139.00	AIR32	3	8.217	9.038	0.65	0.75	14.16	817.62	0.000	0.000	128.02	0.00	0.00
14	139.00	4449 B71 + B12	3	8.217	9.038	0.50	0.75	3.54	203.01	0.000	0.000	31.98	0.00	0.00
15	139.00	KRY 112 144/1	3	8.217	9.038	0.56	0.75	1.90	77.72	0.000	0.000	17.13	0.00	0.00
16	139.00	Low Profile Platform	1	8.217	9.038	1.00	1.00	51.22	3591.64	0.000	0.000	462.94	0.00	0.00
17	139.00	RRUS 4415 B25	3	8.217	9.038	0.50	0.75	2.99	219.04	0.000	0.000	26.99	0.00	0.00
18	126.00	DC6-48-60-18-8C-EV	1	8.050	8.855	0.75	0.75	4.02	70.53	0.000	0.000	35.59	0.00	0.00
19	126.00	Erisson 2012 B29	3	8.050	8.855	0.50	0.75	5.44	287.98	0.000	0.000	48.21	0.00	0.00
20	126.00	Ericsson RRUS 4478 B5	3	8.050	8.855	0.50	0.75	3.32	276.69	0.000	0.000	29.36	0.00	0.00
21	126.00	Ericsson RRUS 32 RRU	3	8.050	8.855	0.50	0.75	3.04	362.02	0.000	0.000	26.94	0.00	0.00
22	126.00	Raycap DC6-48-60-18-8F	3	8.050	8.855	0.50	0.75	4.35	182.99	0.000	0.000	38.53	0.00	0.00
23	126.00	Kaelus DBCT108F1V92-1	3	8.050	8.855	0.50	0.75	1.24	112.96	0.000	0.000	11.00	0.00	0.00
24	126.00	Ericsson RRUS 4426 B66	3	8.050	8.855	0.50	0.75	2.19	242.49	0.000	0.000	19.35	0.00	0.00
25	126.00	Ericsson RRUS 4415 B25	3	8.050	8.855	0.50	0.75	3.37	221.47	0.000	0.000	29.84	0.00	0.00
26	126.00	RRUS 4449 B5/B12	3	8.050	8.855	0.50	0.75	3.51	319.80	0.000	0.000	31.09	0.00	0.00
27	126.00	DMP65R-BU8DA	3	8.050	8.855	0.55	0.75	31.29	1412.84	0.000	0.000	277.03	0.00	0.00
28	126.00	AIR 6449 B77D	3	8.023	8.825	0.64	0.75	8.95	570.38	0.000	-2.000	78.98	0.00	-157.96
29	126.00	AIR 6419 B77G	3	8.076	8.884	0.57	0.75	7.39	359.10	0.000	2.000	65.65	0.00	131.31
30	126.00	Ericsson RRUS 4478 B14	3	8.050	8.855	0.50	0.75	3.00	267.20	0.000	0.000	26.56	0.00	0.00
31	126.00	QD8616-7	3	8.050	8.855	0.69	0.75	41.43	1033.62	0.000	0.000	366.81	0.00	0.00
32	126.00	MTC3607 Platform + HR &	1	8.050	8.855	1.00	1.00	70.26	3279.40	0.000	0.000	622.14	0.00	0.00
33	116.00	MX08FRO665-21	3	7.912	8.703	0.56	0.75	22.68	598.07	0.000	0.000	197.42	0.00	0.00
34	116.00	MC-PK8-DSH	1	7.912	8.703	1.00	1.00	62.20	3008.43	0.000	0.000	541.34	0.00	0.00
35	116.00	RDIDC-9181-OF-48	1	7.912	8.703	1.00	1.00	2.38	48.21	0.000	0.000	20.71	0.00	0.00
36	116.00	TA08025-B604	3	7.912	8.703	0.50	0.75	3.50	292.51	0.000	0.000	30.50	0.00	0.00
37	116.00	TA08025-B605	3	7.912	8.703	0.50	0.75	3.50	334.24	0.000	0.000	30.50	0.00	0.00
<b>Totals:</b>								<b>27,523.50</b>				<b>5,098.47</b>		

## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations**    24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
2.00		73.12	833.28	0.00	0.00
4.00		72.86	833.48	0.00	0.00
6.00		72.51	831.58	0.00	0.00
8.00		72.11	828.61	0.00	0.00
10.00		71.69	824.97	0.00	0.00
12.00		71.25	820.88	0.00	0.00
14.00		70.80	816.46	0.00	0.00
16.00		72.12	811.78	0.00	0.00
18.00		73.33	806.90	0.00	0.00
20.00		74.38	801.85	0.00	0.00
22.00		75.30	796.67	0.00	0.00
24.00		76.09	791.37	0.00	0.00
26.00		76.77	785.97	0.00	0.00
28.00		77.37	780.48	0.00	0.00
30.00		77.89	774.91	0.00	0.00
32.00		78.33	769.28	0.00	0.00
34.00		78.71	763.58	0.00	0.00
36.00		79.02	757.83	0.00	0.00
38.00		79.29	752.03	0.00	0.00
40.00		79.50	746.19	0.00	0.00
42.00		79.67	740.30	0.00	0.00
44.00		79.79	734.37	0.00	0.00
46.00		79.87	728.41	0.00	0.00
47.25		49.86	452.29	0.00	0.00
48.00		30.33	443.96	0.00	0.00
50.00		81.11	1176.38	0.00	0.00
52.00		81.09	1165.75	0.00	0.00
53.25		50.59	723.27	0.00	0.00
54.00		30.31	239.91	0.00	0.00
56.00		80.98	635.87	0.00	0.00
58.00		80.88	630.51	0.00	0.00
60.00		80.76	625.13	0.00	0.00
62.00		80.61	619.72	0.00	0.00
64.00		80.43	614.30	0.00	0.00
66.00		80.24	608.86	0.00	0.00
68.00		80.02	603.39	0.00	0.00
70.00		79.78	597.92	0.00	0.00
72.00		79.52	592.42	0.00	0.00
74.00		79.24	586.91	0.00	0.00
76.00		78.94	581.38	0.00	0.00
78.00		78.63	575.84	0.00	0.00
80.00		78.30	570.29	0.00	0.00
82.00		77.95	564.72	0.00	0.00
84.00		77.59	559.14	0.00	0.00
86.00		77.21	553.54	0.00	0.00
88.00		76.82	547.94	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 36
<b>Struct Class:</b> II		



90.00		76.41	542.32	0.00	0.00
92.00		75.99	536.69	0.00	0.00
94.00		75.56	531.05	0.00	0.00
96.00		75.11	525.40	0.00	0.00
98.00		75.58	757.49	0.00	0.00
100.00		75.12	748.76	0.00	0.00
100.75		28.01	278.66	0.00	0.00
102.00		46.55	250.50	0.00	0.00
104.00		74.15	397.22	0.00	0.00
106.00		73.64	393.05	0.00	0.00
108.00		73.13	388.88	0.00	0.00
110.00		72.61	384.70	0.00	0.00
112.00		72.07	380.51	0.00	0.00
114.00		71.53	376.31	0.00	0.00
116.00	(11) attachments	891.46	4653.56	0.00	0.00
118.00		70.41	365.49	0.00	0.00
120.00		69.84	361.27	0.00	0.00
122.00		69.26	357.05	0.00	0.00
124.00		68.67	352.81	0.00	0.00
126.00	(41) attachments	1775.16	9348.06	0.00	-26.66
128.00		67.46	335.25	0.00	0.00
130.00		66.84	331.00	0.00	0.00
132.00		66.22	326.74	0.00	0.00
134.00		65.59	322.47	0.00	0.00
136.00		64.95	318.20	0.00	0.00
138.00		64.30	313.92	0.00	0.00
139.00	(19) attachments	1117.25	6868.13	0.00	0.00
140.00		31.63	120.06	0.00	0.00
142.00		62.81	237.16	0.00	0.00
144.00		62.14	233.63	0.00	0.00
146.00		61.46	230.09	0.00	0.00
148.00	(28) attachments	1546.30	7756.49	0.00	150.55
149.00		30.10	101.97	0.00	0.00
	<b>Totals:</b>	<b>10,630.27</b>	<b>71,825.51</b>	<b>0.00</b>	<b>123.90</b>

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

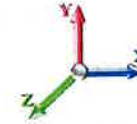
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
2.00	Safety Cable	Yes	2.00	1.200	0.38	0.33	0.39	0.000	0.000	5.141	2.21	2.65
2.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.37	0.44	0.000	0.000	5.141	2.49	4.84
4.00	Safety Cable	Yes	2.00	1.200	0.38	0.34	0.41	0.000	0.000	5.141	2.30	2.84
4.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.38	0.46	0.000	0.000	5.141	2.59	5.04
6.00	Safety Cable	Yes	2.00	1.200	0.38	0.35	0.42	0.000	0.000	5.141	2.37	2.97
6.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.39	0.47	0.000	0.000	5.141	2.65	5.19
8.00	Safety Cable	Yes	2.00	1.200	0.38	0.36	0.43	0.000	0.000	5.141	2.42	3.08
8.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.40	0.48	0.000	0.000	5.141	2.70	5.30
10.00	Safety Cable	Yes	2.00	1.200	0.38	0.36	0.43	0.000	0.000	5.141	2.46	3.16
10.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.40	0.48	0.000	0.000	5.141	2.74	5.39
12.00	Safety Cable	Yes	2.00	1.200	0.38	0.37	0.44	0.000	0.000	5.141	2.49	3.24
12.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.41	0.49	0.000	0.000	5.141	2.77	5.48
14.00	Safety Cable	Yes	2.00	1.200	0.38	0.37	0.45	0.000	0.000	5.141	2.52	3.30
14.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.41	0.50	0.000	0.000	5.141	2.80	5.55
16.00	Safety Cable	Yes	2.00	1.200	0.38	0.38	0.45	0.000	0.000	5.271	2.61	3.36
16.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.42	0.50	0.000	0.000	5.271	2.90	5.61
18.00	Safety Cable	Yes	2.00	1.200	0.38	0.38	0.45	0.000	0.000	5.396	2.70	3.42
18.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.42	0.50	0.000	0.000	5.396	2.99	5.67
20.00	Safety Cable	Yes	2.00	1.200	0.38	0.38	0.46	0.000	0.000	5.511	2.78	3.47
20.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.42	0.51	0.000	0.000	5.511	3.08	5.72
22.00	Safety Cable	Yes	2.00	1.200	0.38	0.38	0.46	0.000	0.000	5.618	2.85	3.51
22.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.43	0.51	0.000	0.000	5.618	3.16	5.77
24.00	Safety Cable	Yes	2.00	1.200	0.38	0.39	0.47	0.000	0.000	5.717	2.92	3.56
24.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.43	0.52	0.000	0.000	5.717	3.24	5.82
26.00	Safety Cable	Yes	2.00	1.200	0.38	0.39	0.47	0.000	0.000	5.811	2.99	3.60
26.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.43	0.52	0.000	0.000	5.811	3.31	5.86
28.00	Safety Cable	Yes	2.00	1.200	0.38	0.39	0.47	0.000	0.000	5.899	3.06	3.64
28.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.43	0.52	0.000	0.000	5.899	3.38	5.90
30.00	Safety Cable	Yes	2.00	1.200	0.38	0.39	0.47	0.000	0.000	5.982	3.12	3.67
30.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.44	0.52	0.000	0.000	5.982	3.44	5.94
32.00	Safety Cable	Yes	2.00	1.200	0.38	0.40	0.48	0.000	0.000	6.061	3.17	3.71
32.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.44	0.53	0.000	0.000	6.061	3.51	5.98
34.00	Safety Cable	Yes	2.00	1.200	0.38	0.40	0.48	0.000	0.000	6.137	3.23	3.74
34.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.44	0.48	0.000	0.000	6.137	3.57	6.01
36.00	Safety Cable	Yes	2.00	1.200	0.38	0.40	0.48	0.000	0.000	6.209	3.28	3.77
36.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.44	0.53	0.000	0.000	6.209	3.62	6.04
38.00	Safety Cable	Yes	2.00	1.200	0.38	0.40	0.48	0.000	0.000	6.278	3.33	3.80
38.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.44	0.53	0.000	0.000	6.278	3.68	6.08
40.00	Safety Cable	Yes	2.00	1.200	0.38	0.40	0.48	0.000	0.000	6.345	3.38	3.83
40.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.45	0.53	0.000	0.000	6.345	3.73	6.11
42.00	Safety Cable	Yes	2.00	1.200	0.38	0.41	0.49	0.000	0.000	6.409	3.43	3.85
42.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.45	0.54	0.000	0.000	6.409	3.78	6.14
44.00	Safety Cable	Yes	2.00	1.200	0.38	0.41	0.49	0.000	0.000	6.470	3.48	3.88
44.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.45	0.54	0.000	0.000	6.470	3.83	6.16
46.00	Safety Cable	Yes	2.00	1.200	0.38	0.41	0.49	0.000	0.000	6.530	3.52	3.91
46.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.45	0.54	0.000	0.000	6.530	3.88	6.19
47.25	Safety Cable	Yes	1.25	1.200	0.38	0.26	0.31	0.000	0.000	6.566	2.22	2.45

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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

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



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
47.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.28	0.34	0.000	0.000	6.566	2.44	3.88
48.00	Safety Cable	Yes	0.75	1.200	0.38	0.15	0.18	0.000	0.000	6.587	1.34	1.47
48.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.17	0.20	0.000	0.000	6.587	1.47	2.33
50.00	Safety Cable	Yes	2.00	1.200	0.38	0.41	0.49	0.000	0.000	6.643	3.61	3.95
50.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.45	0.54	0.000	0.000	6.643	3.97	6.24
52.00	Safety Cable	Yes	2.00	1.200	0.38	0.41	0.50	0.000	0.000	6.697	3.65	3.98
52.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.45	0.55	0.000	0.000	6.697	4.02	6.27
53.25	Safety Cable	Yes	1.25	1.200	0.38	0.26	0.31	0.000	0.000	6.730	2.30	2.49
53.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.28	0.34	0.000	0.000	6.730	2.53	3.93
54.00	Safety Cable	Yes	0.75	1.200	0.38	0.16	0.19	0.000	0.000	6.749	1.38	1.50
54.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.17	0.21	0.000	0.000	6.749	1.52	2.36
56.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.50	0.000	0.000	6.800	3.73	4.02
56.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.55	0.000	0.000	6.800	4.10	6.31
58.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.50	0.000	0.000	6.850	3.77	4.04
58.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.55	0.000	0.000	6.850	4.14	6.34
60.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.50	0.000	0.000	6.898	3.80	4.06
60.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.55	0.000	0.000	6.898	4.18	6.36
62.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.50	0.000	0.000	6.945	3.84	4.08
62.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.55	0.000	0.000	6.945	4.22	6.38
64.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.50	0.000	0.000	6.991	3.88	4.10
64.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.55	0.000	0.000	6.991	4.26	6.40
66.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.51	0.000	0.000	7.036	3.91	4.12
66.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.56	0.000	0.000	7.036	4.30	6.42
68.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.51	0.000	0.000	7.079	3.95	4.14
68.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.56	0.000	0.000	7.079	4.33	6.44
70.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.51	0.000	0.000	7.122	3.98	4.16
70.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.46	0.56	0.000	0.000	7.122	4.37	6.46
72.00	Safety Cable	Yes	2.00	1.200	0.38	0.42	0.51	0.000	0.000	7.164	4.01	4.17
72.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.56	0.000	0.000	7.164	4.41	6.48
74.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.51	0.000	0.000	7.205	4.04	4.19
74.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.56	0.000	0.000	7.205	4.44	6.50
76.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.51	0.000	0.000	7.245	4.08	4.21
76.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.56	0.000	0.000	7.245	4.47	6.51
78.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.51	0.000	0.000	7.284	4.11	4.22
78.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.56	0.000	0.000	7.284	4.51	6.53
80.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.51	0.000	0.000	7.323	4.14	4.24
80.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.56	0.000	0.000	7.323	4.54	6.55
82.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.51	0.000	0.000	7.360	4.17	4.26
82.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.56	0.000	0.000	7.360	4.57	6.57
84.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.397	4.20	4.27
84.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.57	0.000	0.000	7.397	4.60	6.58
86.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.434	4.23	4.29
86.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.57	0.000	0.000	7.434	4.63	6.60
88.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.469	4.25	4.30
88.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.57	0.000	0.000	7.469	4.66	6.61
90.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.504	4.28	4.32
90.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.57	0.000	0.000	7.504	4.69	6.63

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 39
	<b>Struct Class:</b> II	



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

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.539	4.31	4.33
92.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.47	0.57	0.000	0.000	7.539	4.72	6.65
94.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.572	4.34	4.35
94.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.57	0.000	0.000	7.572	4.75	6.66
96.00	Safety Cable	Yes	2.00	1.200	0.38	0.43	0.52	0.000	0.000	7.606	4.36	4.36
96.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.57	0.000	0.000	7.606	4.78	6.68
98.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.52	0.000	0.000	7.639	4.39	4.37
98.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.57	0.000	0.000	7.639	4.81	6.69
100.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.52	0.000	0.000	7.671	4.42	4.39
100.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.57	0.000	0.000	7.671	4.84	6.70
100.75	Safety Cable	Yes	0.75	1.200	0.38	0.16	0.20	0.000	0.000	7.683	1.66	1.65
100.75	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.18	0.22	0.000	0.000	7.683	1.82	2.52
102.00	Safety Cable	Yes	1.25	1.200	0.38	0.27	0.33	0.000	0.000	7.702	2.78	2.75
102.00	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.30	0.36	0.000	0.000	7.702	3.04	4.20
104.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.734	4.47	4.41
104.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.734	4.89	6.73
106.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.764	4.49	4.43
106.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.764	4.92	6.75
108.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.795	4.52	4.44
108.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.795	4.95	6.76
110.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.825	4.54	4.45
110.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.825	4.97	6.77
112.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.854	4.57	4.46
112.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.854	5.00	6.79
114.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.883	4.59	4.48
114.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.883	5.02	6.80
116.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.912	4.61	4.49
116.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.912	5.05	6.81
118.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.940	4.64	4.50
118.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.940	5.07	6.82
120.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.968	4.66	4.51
120.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.48	0.58	0.000	0.000	7.968	5.10	6.84
122.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	7.996	4.68	4.52
122.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.58	0.000	0.000	7.996	5.12	6.85
124.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	8.023	4.70	4.53
124.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.58	0.000	0.000	8.023	5.14	6.86
126.00	Safety Cable	Yes	2.00	1.200	0.38	0.44	0.53	0.000	0.000	8.050	4.73	4.55
126.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.58	0.000	0.000	8.050	5.17	6.87
128.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.53	0.000	0.000	8.076	4.75	4.56
128.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.58	0.000	0.000	8.076	5.19	6.88
130.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.102	4.77	4.57
130.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.102	5.22	6.90
132.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.128	4.79	4.58
132.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.128	5.24	6.91
134.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.154	4.81	4.59
134.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.154	5.26	6.92
136.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.179	4.83	4.60



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
136.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.179	5.28	6.93
138.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.204	4.85	4.61
138.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.204	5.31	6.94
139.00	Safety Cable	Yes	1.00	1.200	0.38	0.22	0.27	0.000	0.000	8.217	2.43	2.31
139.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.25	0.29	0.000	0.000	8.217	2.66	3.47
140.00	Safety Cable	Yes	1.00	1.200	0.38	0.22	0.27	0.000	0.000	8.229	2.44	2.31
140.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.25	0.29	0.000	0.000	8.229	2.66	3.48
142.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.253	4.89	4.63
142.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.253	5.35	6.96
144.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.278	4.92	4.64
144.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.278	5.37	6.97
146.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.301	4.94	4.65
146.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.301	5.39	6.98
148.00	Safety Cable	Yes	2.00	1.200	0.38	0.45	0.54	0.000	0.000	8.325	4.95	4.66
148.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.49	0.59	0.000	0.000	8.325	5.41	6.99
149.00	Safety Cable	Yes	1.00	1.200	0.38	0.23	0.27	0.000	0.000	8.337	2.48	2.33
149.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.25	0.30	0.000	0.000	8.337	2.71	3.50
<b>Totals:</b>											<b>610.3</b>	<b>779.0</b>

## Calculated Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-71.82	-10.64	0.00	-1154.7	0.00	1154.77	5451.60	1409.10	6760.13	6487.84	0.00	0.000	0.000	0.191
2.00	-70.99	-10.59	0.00	-1133.4	0.00	1133.49	5423.14	1397.60	6650.22	6400.90	0.00	-0.019	0.000	0.190
4.00	-70.15	-10.54	0.00	-1112.3	0.00	1112.31	5394.41	1386.10	6541.22	6314.20	0.02	-0.039	0.000	0.189
6.00	-69.31	-10.49	0.00	-1091.2	0.00	1091.22	5365.42	1374.60	6433.12	6227.76	0.04	-0.058	0.000	0.188
8.00	-68.48	-10.44	0.00	-1070.2	0.00	1070.24	5336.17	1363.10	6325.92	6141.58	0.07	-0.077	0.000	0.187
10.00	-67.65	-10.39	0.00	-1049.3	0.00	1049.35	5306.65	1351.60	6219.62	6055.68	0.10	-0.097	0.000	0.186
12.00	-66.83	-10.34	0.00	-1028.5	0.00	1028.57	5276.87	1340.10	6114.23	5970.05	0.15	-0.117	0.000	0.185
14.00	-66.01	-10.29	0.00	-1007.8	0.00	1007.88	5246.82	1328.60	6009.73	5884.71	0.20	-0.137	0.000	0.184
16.00	-65.19	-10.24	0.00	-987.30	0.00	987.30	5216.51	1317.10	5906.13	5799.67	0.26	-0.157	0.000	0.183
18.00	-64.38	-10.19	0.00	-966.81	0.00	966.81	5185.94	1305.60	5803.43	5714.93	0.33	-0.177	0.000	0.182
20.00	-63.58	-10.13	0.00	-946.43	0.00	946.43	5155.10	1294.09	5701.64	5630.50	0.41	-0.197	0.000	0.180
22.00	-62.78	-10.08	0.00	-926.16	0.00	926.16	5124.00	1282.59	5600.74	5546.38	0.50	-0.217	0.000	0.179
24.00	-61.98	-10.02	0.00	-906.01	0.00	906.01	5092.64	1271.09	5500.75	5462.60	0.59	-0.238	0.000	0.178
26.00	-61.20	-9.96	0.00	-885.96	0.00	885.96	5061.01	1259.59	5401.66	5379.14	0.70	-0.258	0.000	0.177
28.00	-60.41	-9.90	0.00	-866.04	0.00	866.04	5029.12	1248.09	5303.46	5296.03	0.81	-0.279	0.000	0.176
30.00	-59.63	-9.84	0.00	-846.23	0.00	846.23	4996.96	1236.59	5206.17	5213.26	0.93	-0.299	0.000	0.174
32.00	-58.86	-9.78	0.00	-826.54	0.00	826.54	4964.54	1225.09	5109.78	5130.86	1.06	-0.320	0.000	0.173
34.00	-58.09	-9.72	0.00	-806.98	0.00	806.98	4931.86	1213.59	5014.29	5048.81	1.20	-0.341	0.000	0.172
36.00	-57.33	-9.66	0.00	-787.53	0.00	787.53	4898.91	1202.09	4919.70	4967.14	1.35	-0.362	0.000	0.170
38.00	-56.58	-9.60	0.00	-768.22	0.00	768.22	4865.70	1190.58	4826.01	4885.85	1.50	-0.383	0.000	0.169
40.00	-55.83	-9.53	0.00	-749.03	0.00	749.03	4832.22	1179.08	4733.22	4804.95	1.67	-0.404	0.000	0.168
42.00	-55.09	-9.47	0.00	-729.97	0.00	729.97	4798.48	1167.58	4641.33	4724.44	1.84	-0.425	0.000	0.166
44.00	-54.35	-9.40	0.00	-711.04	0.00	711.04	4764.48	1156.08	4550.35	4644.34	2.03	-0.446	0.000	0.165
46.00	-53.62	-9.33	0.00	-692.23	0.00	692.23	4730.21	1144.58	4460.26	4564.64	2.22	-0.468	0.000	0.163
47.25	-53.17	-9.29	0.00	-680.57	0.00	680.57	4708.66	1137.39	4404.41	4515.05	2.34	-0.481	0.000	0.162
48.00	-52.72	-9.27	0.00	-673.60	0.00	673.60	4695.68	1133.08	4371.07	4485.37	2.42	-0.489	0.000	0.161
50.00	-51.54	-9.20	0.00	-655.07	0.00	655.07	4660.89	1121.58	4282.79	4406.52	2.63	-0.511	0.000	0.160
52.00	-50.37	-9.12	0.00	-636.68	0.00	636.68	4625.83	1110.08	4195.41	4328.11	2.85	-0.532	0.000	0.158
53.25	-49.65	-9.07	0.00	-625.28	0.00	625.28	3820.53	963.13	3684.59	3623.65	2.99	-0.546	0.000	0.186
54.00	-49.41	-9.05	0.00	-618.48	0.00	618.48	3810.68	959.44	3656.36	3600.32	3.07	-0.554	0.000	0.185
56.00	-48.77	-8.99	0.00	-600.37	0.00	600.37	3784.24	949.58	3581.60	3538.31	3.31	-0.578	0.000	0.183
58.00	-48.13	-8.92	0.00	-582.40	0.00	582.40	3757.53	939.72	3507.63	3476.56	3.56	-0.601	0.000	0.180
60.00	-47.51	-8.85	0.00	-564.57	0.00	564.57	3730.55	929.86	3434.42	3415.10	3.82	-0.625	0.000	0.178
62.00	-46.88	-8.78	0.00	-546.87	0.00	546.87	3703.32	920.01	3361.98	3353.92	4.08	-0.649	0.000	0.176
64.00	-46.27	-8.71	0.00	-529.30	0.00	529.30	3675.82	910.15	3290.32	3293.05	4.36	-0.673	0.000	0.173
66.00	-45.65	-8.65	0.00	-511.87	0.00	511.87	3648.05	900.29	3219.43	3232.47	4.65	-0.697	0.000	0.171
68.00	-45.05	-8.58	0.00	-494.58	0.00	494.58	3620.03	890.43	3149.31	3172.21	4.94	-0.721	0.000	0.168
70.00	-44.45	-8.51	0.00	-477.43	0.00	477.43	3591.74	880.57	3079.96	3112.27	5.25	-0.744	0.000	0.166
72.00	-43.85	-8.44	0.00	-460.42	0.00	460.42	3563.18	870.71	3011.39	3052.66	5.57	-0.768	0.000	0.163
74.00	-43.26	-8.37	0.00	-443.54	0.00	443.54	3534.36	860.86	2943.59	2993.38	5.90	-0.792	0.000	0.161
76.00	-42.68	-8.30	0.00	-426.80	0.00	426.80	3505.28	851.00	2876.56	2934.44	6.23	-0.815	0.000	0.158
78.00	-42.10	-8.23	0.00	-410.20	0.00	410.20	3475.93	841.14	2810.30	2875.86	6.58	-0.839	0.000	0.155
80.00	-41.53	-8.16	0.00	-393.74	0.00	393.74	3446.32	831.28	2744.81	2817.63	6.94	-0.862	0.000	0.152
82.00	-40.96	-8.09	0.00	-377.42	0.00	377.42	3416.44	821.42	2680.10	2759.78	7.30	-0.885	0.000	0.149
84.00	-40.40	-8.02	0.00	-361.24	0.00	361.24	3386.31	811.57	2616.15	2702.29	7.68	-0.908	0.000	0.146
86.00	-39.85	-7.95	0.00	-345.21	0.00	345.21	3355.90	801.71	2552.98	2645.19	8.06	-0.931	0.000	0.142
88.00	-39.30	-7.88	0.00	-329.31	0.00	329.31	3325.24	791.85	2490.58	2588.48	8.46	-0.953	0.000	0.139
90.00	-38.75	-7.81	0.00	-313.55	0.00	313.55	3294.31	781.99	2428.96	2532.16	8.86	-0.976	0.000	0.136

## Calculated Forces

**Structure:** CT13075-A-SBA

**Code:** TIA-222-H

8/30/2023

**Site Name:** New London

**Exposure:** C



**Height:** 149.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 1.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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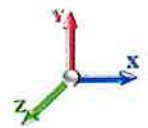
92.00	-38.22	-7.74	0.00	-297.93	0.00	297.93	3263.11	772.13	2368.10	2476.25	9.28	-0.998	0.000	0.132
94.00	-37.68	-7.67	0.00	-282.46	0.00	282.46	3226.97	762.28	2308.02	2417.24	9.70	-1.019	0.000	0.129
96.00	-37.16	-7.60	0.00	-267.12	0.00	267.12	3185.24	752.42	2248.71	2354.81	10.13	-1.041	0.000	0.125
98.00	-36.40	-7.52	0.00	-251.93	0.00	251.93	3143.50	742.56	2190.17	2293.20	10.57	-1.062	0.000	0.122
100.00	-35.65	-7.44	0.00	-236.89	0.00	236.89	3101.77	732.70	2132.40	2232.40	11.02	-1.082	0.000	0.118
100.75	-35.37	-7.41	0.00	-231.31	0.00	231.31	1863.03	495.32	1461.74	1364.60	11.19	-1.090	0.000	0.189
102.00	-35.12	-7.37	0.00	-222.04	0.00	222.04	1853.75	491.21	1437.59	1346.46	11.48	-1.103	0.000	0.184
104.00	-34.72	-7.31	0.00	-207.30	0.00	207.30	1838.67	484.64	1399.38	1317.52	11.95	-1.130	0.000	0.176
106.00	-34.32	-7.24	0.00	-192.68	0.00	192.68	1823.34	478.06	1361.69	1288.68	12.43	-1.157	0.000	0.169
108.00	-33.93	-7.18	0.00	-178.19	0.00	178.19	1807.74	471.49	1324.51	1259.97	12.92	-1.183	0.000	0.160
110.00	-33.55	-7.11	0.00	-163.84	0.00	163.84	1791.88	464.92	1287.84	1231.38	13.42	-1.208	0.000	0.152
112.00	-33.16	-7.04	0.00	-149.62	0.00	149.62	1775.75	458.35	1251.69	1202.91	13.93	-1.232	0.000	0.143
114.00	-32.79	-6.98	0.00	-135.53	0.00	135.53	1759.36	451.78	1216.05	1174.59	14.45	-1.255	0.000	0.134
116.00	-28.15	-5.99	0.00	-121.57	0.00	121.57	1742.70	445.20	1180.93	1146.42	14.98	-1.276	0.000	0.122
118.00	-27.79	-5.92	0.00	-109.59	0.00	109.59	1725.78	438.63	1146.32	1118.40	15.52	-1.296	0.000	0.114
120.00	-27.42	-5.86	0.00	-97.74	0.00	97.74	1708.60	432.06	1112.22	1090.54	16.07	-1.315	0.000	0.106
122.00	-27.07	-5.79	0.00	-86.03	0.00	86.03	1691.15	425.49	1078.65	1062.86	16.62	-1.333	0.000	0.097
124.00	-26.72	-5.72	0.00	-74.46	0.00	74.46	1673.44	418.92	1045.58	1035.35	17.19	-1.349	0.000	0.088
126.00	-17.41	-3.72	0.00	-63.03	0.00	63.03	1655.47	412.34	1013.03	1008.03	17.75	-1.363	0.000	0.073
128.00	-17.08	-3.65	0.00	-55.58	0.00	55.58	1637.23	405.77	981.00	980.90	18.33	-1.376	0.000	0.067
130.00	-16.75	-3.58	0.00	-48.28	0.00	48.28	1618.72	399.20	949.48	953.97	18.91	-1.388	0.000	0.061
132.00	-16.42	-3.51	0.00	-41.12	0.00	41.12	1599.96	392.63	918.47	927.26	19.49	-1.399	0.000	0.055
134.00	-16.10	-3.44	0.00	-34.10	0.00	34.10	1580.93	386.05	887.98	900.76	20.08	-1.408	0.000	0.048
136.00	-15.78	-3.37	0.00	-27.22	0.00	27.22	1561.63	379.48	858.01	874.48	20.67	-1.416	0.000	0.041
138.00	-15.47	-3.30	0.00	-20.48	0.00	20.48	1542.08	372.91	828.54	848.44	21.27	-1.423	0.000	0.034
139.00	-8.63	-2.01	0.00	-17.19	0.00	17.19	1532.20	369.62	814.01	835.51	21.56	-1.426	0.000	0.026
139.00	-8.63	-2.01	0.00	-17.19	0.00	17.19	1044.08	276.90	609.10	570.00	21.56	-1.426	0.000	0.038
140.00	-8.51	-1.98	0.00	-15.18	0.00	15.18	1038.46	274.43	598.30	561.85	21.86	-1.428	0.000	0.035
142.00	-8.28	-1.91	0.00	-11.23	0.00	11.23	1027.02	269.50	577.00	545.62	22.46	-1.434	0.000	0.029
144.00	-8.04	-1.84	0.00	-7.41	0.00	7.41	1015.32	264.58	556.09	529.46	23.06	-1.438	0.000	0.022
146.00	-7.82	-1.77	0.00	-3.73	0.00	3.73	1003.36	259.65	535.56	513.40	23.67	-1.441	0.000	0.015
148.00	-0.10	-0.03	0.00	-0.03	0.00	0.03	991.13	254.72	515.42	497.45	24.27	-1.442	0.000	0.000
149.00	0.00	-0.03	0.00	0.00	0.00	0.00	984.92	252.25	505.50	489.51	24.57	-1.442	0.000	0.000

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.2D + 1.0Ev + 1.0Eh				<b>Iterations</b> 22
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.20	<b>Ss</b> 0.19
<b>Dead Load Factor</b>	1.20	<b>Seismic Load Factor</b>	1.00	<b>S1</b> 0.05
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.36	<b>SA</b> 0.03
				<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
2.00		604.61	1.00	24.76	0.00	
4.00		600.15	3.00	24.58	0.00	
6.00		595.69	5.00	24.40	0.01	
8.00		591.23	7.00	24.22	0.01	
10.00		586.77	9.00	24.03	0.02	
12.00		582.31	11.00	23.85	0.03	
14.00		577.85	13.00	23.67	0.04	
16.00		573.39	15.00	23.49	0.06	
18.00		568.93	17.00	23.30	0.07	
20.00		564.47	19.00	23.12	0.09	
22.00		560.01	21.00	22.94	0.11	
24.00		555.55	23.00	22.76	0.13	
26.00		551.09	25.00	22.57	0.15	
28.00		546.63	27.00	22.39	0.17	
30.00		542.17	29.00	22.21	0.19	
32.00		537.71	31.00	22.02	0.22	
34.00		533.25	33.00	21.84	0.24	
36.00		528.79	35.00	21.66	0.27	
38.00		524.33	37.00	21.48	0.30	
40.00		519.87	39.00	21.29	0.32	
42.00		515.41	41.00	21.11	0.35	
44.00		510.95	43.00	20.93	0.38	
46.00		506.49	45.00	20.75	0.41	
47.25	Bot - Section 2	314.29	46.63	12.87	0.17	
48.00		331.83	47.63	13.59	0.20	
50.00		879.18	49.00	36.01	1.46	
52.00		870.90	51.00	35.67	1.55	
53.25	Top - Section 1	540.10	52.63	22.12	0.64	
54.00		162.44	53.63	6.65	0.06	
56.00		430.56	55.00	17.64	0.44	
58.00		426.73	57.00	17.48	0.47	
60.00		422.91	59.00	17.32	0.49	
62.00		419.09	61.00	17.17	0.51	
64.00		415.26	63.00	17.01	0.54	
66.00		411.44	65.00	16.85	0.56	
68.00		407.62	67.00	16.70	0.59	
70.00		403.80	69.00	16.54	0.61	
72.00		399.97	71.00	16.38	0.63	
74.00		396.15	73.00	16.23	0.66	
76.00		392.33	75.00	16.07	0.68	
78.00		388.50	77.00	15.91	0.70	
80.00		384.68	79.00	15.76	0.73	
82.00		380.86	81.00	15.60	0.75	
84.00		377.04	83.00	15.44	0.77	
86.00		373.21	85.00	15.29	0.79	

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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88.00		369.39	87.00	15.13	0.81
90.00		365.57	89.00	14.97	0.83
92.00		361.75	91.00	14.82	0.85
94.00		357.92	93.00	14.66	0.87
96.00	Bot - Section 3	354.10	95.00	14.50	0.89
98.00		547.13	97.00	22.41	2.22
100.00		540.76	99.00	22.15	2.26
100.75	Top - Section 2	201.14	100.38	8.24	0.32
102.00		157.31	101.38	6.44	0.20
104.00		249.62	103.00	10.22	0.52
106.00		247.07	105.00	10.12	0.53
108.00		244.52	107.00	10.02	0.54
110.00		241.98	109.00	9.91	0.55
112.00		239.43	111.00	9.81	0.56
114.00		236.88	113.00	9.70	0.56
116.00	Appurtenance(s)	2667.9	115.00	109.28	74.10
118.00		229.38	117.00	9.40	0.57
120.00		226.83	119.00	9.29	0.57
122.00		224.29	121.00	9.19	0.58
124.00		221.74	123.00	9.08	0.59
126.00	Appurtenance(s)	4863.8	125.00	199.22	290.97
128.00		207.57	127.00	8.50	0.55
130.00		205.02	129.00	8.40	0.55
132.00		202.47	131.00	8.29	0.55
134.00		199.92	133.00	8.19	0.56
136.00		197.37	135.00	8.08	0.56
138.00		194.83	137.00	7.98	0.56
139.00	Top - Section 3	3453.3	138.50	141.45	180.07
140.00		65.15	139.50	2.67	0.07
142.00		128.87	141.00	5.28	0.26
144.00		126.96	143.00	5.20	0.26
146.00		125.05	145.00	5.12	0.26
148.00	Appurtenance(s)	3697.4	147.00	151.45	232.54
149.00		50.72	148.50	2.08	0.04
<b>Totals:</b>		<b>44,310.0</b>	<b>1,814.9</b>	<b>814.3</b>	
					<b>Total Wind: 41,953.2</b>

## Calculated Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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<b>Load Case:</b> 1.2D + 1.0Ev + 1.0Eh						<b>Iterations</b> 22
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.20	<b>Ss</b>	0.19	
<b>Dead Load Factor</b>	1.20	<b>Seismic Load Factor</b>	1.00	<b>Sd1</b>	0.08	
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.36	<b>SA</b>	0.03	
<b>Seismic Importance Factor</b>						1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-54.14	-0.81	0.00	-112.56	0.00	112.56	5451.60	1409.10	6760.13	6487.84	0.00	0.00	0.00	0.027
2.00	-53.40	-0.82	0.00	-110.93	0.00	110.93	5423.14	1397.60	6650.22	6400.90	0.00	0.00	0.00	0.027
4.00	-52.67	-0.82	0.00	-109.30	0.00	109.30	5394.41	1386.10	6541.22	6314.20	0.00	0.00	0.00	0.027
6.00	-51.94	-0.82	0.00	-107.67	0.00	107.67	5365.42	1374.60	6433.12	6227.76	0.00	0.00	-0.01	0.027
8.00	-51.22	-0.82	0.00	-106.03	0.00	106.03	5336.17	1363.10	6325.92	6141.58	0.01	0.01	-0.01	0.027
10.00	-50.51	-0.82	0.00	-104.39	0.00	104.39	5306.65	1351.60	6219.62	6055.68	0.01	0.01	-0.01	0.027
12.00	-49.80	-0.82	0.00	-102.74	0.00	102.74	5276.87	1340.10	6114.23	5970.05	0.01	0.01	-0.01	0.027
14.00	-49.09	-0.83	0.00	-101.09	0.00	101.09	5246.82	1328.60	6009.73	5884.71	0.02	0.02	-0.01	0.027
16.00	-48.39	-0.83	0.00	-99.44	0.00	99.44	5216.51	1317.10	5906.13	5799.67	0.03	0.03	-0.02	0.026
18.00	-47.70	-0.83	0.00	-97.79	0.00	97.79	5185.94	1305.60	5803.43	5714.93	0.03	0.03	-0.02	0.026
20.00	-47.01	-0.83	0.00	-96.13	0.00	96.13	5155.10	1294.09	5701.64	5630.50	0.04	0.04	-0.02	0.026
22.00	-46.33	-0.83	0.00	-94.48	0.00	94.48	5124.00	1282.59	5600.74	5546.38	0.05	0.05	-0.02	0.026
24.00	-45.65	-0.83	0.00	-92.81	0.00	92.81	5092.64	1271.09	5500.75	5462.60	0.06	0.06	-0.02	0.026
26.00	-44.98	-0.83	0.00	-91.15	0.00	91.15	5061.01	1259.59	5401.66	5379.14	0.07	0.07	-0.03	0.026
28.00	-44.31	-0.83	0.00	-89.48	0.00	89.48	5029.12	1248.09	5303.46	5296.03	0.08	0.08	-0.03	0.026
30.00	-43.65	-0.84	0.00	-87.81	0.00	87.81	4996.96	1236.59	5206.17	5213.26	0.09	0.09	-0.03	0.026
32.00	-43.00	-0.84	0.00	-86.14	0.00	86.14	4964.54	1225.09	5109.78	5130.86	0.11	0.11	-0.03	0.025
34.00	-42.35	-0.84	0.00	-84.47	0.00	84.47	4931.86	1213.59	5014.29	5048.81	0.12	0.12	-0.03	0.025
36.00	-41.70	-0.84	0.00	-82.79	0.00	82.79	4898.91	1202.09	4919.70	4967.14	0.13	0.13	-0.04	0.025
38.00	-41.06	-0.84	0.00	-81.12	0.00	81.12	4865.70	1190.58	4826.01	4885.85	0.15	0.15	-0.04	0.025
40.00	-40.43	-0.84	0.00	-79.44	0.00	79.44	4832.22	1179.08	4733.22	4804.95	0.17	0.17	-0.04	0.025
42.00	-39.80	-0.84	0.00	-77.76	0.00	77.76	4798.48	1167.58	4641.33	4724.44	0.18	0.18	-0.04	0.025
44.00	-39.18	-0.84	0.00	-76.08	0.00	76.08	4764.48	1156.08	4550.35	4644.34	0.20	0.20	-0.05	0.025
46.00	-38.56	-0.84	0.00	-74.39	0.00	74.39	4730.21	1144.58	4460.26	4564.64	0.22	0.22	-0.05	0.024
47.25	-38.18	-0.84	0.00	-73.34	0.00	73.34	4708.66	1137.39	4404.41	4515.05	0.24	0.24	-0.05	0.024
48.00	-37.77	-0.84	0.00	-72.71	0.00	72.71	4695.68	1133.08	4371.07	4485.37	0.24	0.24	-0.05	0.024
50.00	-36.69	-0.84	0.00	-71.02	0.00	71.02	4660.89	1121.58	4282.79	4406.52	0.27	0.27	-0.05	0.024
52.00	-35.63	-0.84	0.00	-69.34	0.00	69.34	4625.83	1110.08	4195.41	4328.11	0.29	0.29	-0.05	0.024
53.25	-34.96	-0.84	0.00	-68.29	0.00	68.29	3820.53	963.13	3684.59	3623.65	0.30	0.30	-0.06	0.028
54.00	-34.77	-0.84	0.00	-67.66	0.00	67.66	3810.68	959.44	3656.36	3600.32	0.31	0.31	-0.06	0.028
56.00	-34.24	-0.84	0.00	-65.98	0.00	65.98	3784.24	949.58	3581.60	3538.31	0.34	0.34	-0.06	0.028
58.00	-33.73	-0.84	0.00	-64.29	0.00	64.29	3757.53	939.72	3507.63	3476.56	0.36	0.36	-0.06	0.027
60.00	-33.21	-0.84	0.00	-62.61	0.00	62.61	3730.55	929.86	3434.42	3415.10	0.39	0.39	-0.07	0.027
62.00	-32.71	-0.84	0.00	-60.92	0.00	60.92	3703.32	920.01	3361.98	3353.92	0.42	0.42	-0.07	0.027
64.00	-32.20	-0.84	0.00	-59.24	0.00	59.24	3675.82	910.15	3290.32	3293.05	0.45	0.45	-0.07	0.027
66.00	-31.70	-0.84	0.00	-57.55	0.00	57.55	3648.05	900.29	3219.43	3232.47	0.48	0.48	-0.07	0.026
68.00	-31.21	-0.84	0.00	-55.86	0.00	55.86	3620.03	890.43	3149.31	3172.21	0.51	0.51	-0.08	0.026
70.00	-30.72	-0.84	0.00	-54.18	0.00	54.18	3591.74	880.57	3079.96	3112.27	0.54	0.54	-0.08	0.026
72.00	-30.24	-0.84	0.00	-52.49	0.00	52.49	3563.18	870.71	3011.39	3052.66	0.57	0.57	-0.08	0.026
74.00	-29.76	-0.84	0.00	-50.80	0.00	50.80	3534.36	860.86	2943.59	2993.38	0.61	0.61	-0.08	0.025
76.00	-29.28	-0.84	0.00	-49.11	0.00	49.11	3505.28	851.00	2876.56	2934.44	0.64	0.64	-0.09	0.025
78.00	-28.81	-0.84	0.00	-47.42	0.00	47.42	3475.93	841.14	2810.30	2875.86	0.68	0.68	-0.09	0.025
80.00	-28.35	-0.84	0.00	-45.74	0.00	45.74	3446.32	831.28	2744.81	2817.63	0.72	0.72	-0.09	0.024
82.00	-27.89	-0.84	0.00	-44.05	0.00	44.05	3416.44	821.42	2680.10	2759.78	0.76	0.76	-0.09	0.024
84.00	-27.43	-0.84	0.00	-42.36	0.00	42.36	3386.31	811.57	2616.15	2702.29	0.80	0.80	-0.10	0.024
86.00	-26.98	-0.84	0.00	-40.67	0.00	40.67	3355.90	801.71	2552.98	2645.19	0.84	0.84	-0.10	0.023
88.00	-26.53	-0.84	0.00	-38.99	0.00	38.99	3325.24	791.85	2490.58	2588.48	0.88	0.88	-0.10	0.023

## Calculated Forces

**Structure:** CT13075-A-SBA

**Code:** TIA-222-H

8/30/2023

**Site Name:** New London

**Exposure:** C



**Height:** 149.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 1.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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Tower Engineering Solutions

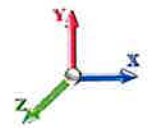
90.00	-26.09	-0.84	0.00	-37.30	0.00	37.30	3294.31	781.99	2428.96	2532.16	0.92	-0.11	0.023
92.00	-25.65	-0.84	0.00	-35.62	0.00	35.62	3263.11	772.13	2368.10	2476.25	0.97	-0.11	0.022
94.00	-25.22	-0.84	0.00	-33.93	0.00	33.93	3226.97	762.28	2308.02	2417.24	1.01	-0.11	0.022
96.00	-24.80	-0.84	0.00	-32.25	0.00	32.25	3185.24	752.42	2248.71	2354.81	1.06	-0.11	0.021
98.00	-24.13	-0.84	0.00	-30.57	0.00	30.57	3143.50	742.56	2190.17	2293.20	1.11	-0.12	0.021
100.00	-23.47	-0.84	0.00	-28.89	0.00	28.89	3101.77	732.70	2132.40	2232.40	1.16	-0.12	0.021
100.75	-23.22	-0.84	0.00	-28.26	0.00	28.26	1863.03	495.32	1461.74	1364.60	1.18	-0.12	0.033
102.00	-23.04	-0.84	0.00	-27.22	0.00	27.22	1853.75	491.21	1437.59	1346.46	1.21	-0.12	0.033
104.00	-22.74	-0.84	0.00	-25.55	0.00	25.55	1838.67	484.64	1399.38	1317.52	1.26	-0.12	0.032
106.00	-22.44	-0.84	0.00	-23.88	0.00	23.88	1823.34	478.06	1361.69	1288.68	1.31	-0.13	0.031
108.00	-22.15	-0.84	0.00	-22.20	0.00	22.20	1807.74	471.49	1324.51	1259.97	1.37	-0.13	0.030
110.00	-21.86	-0.84	0.00	-20.53	0.00	20.53	1791.88	464.92	1287.84	1231.38	1.42	-0.13	0.029
112.00	-21.58	-0.84	0.00	-18.86	0.00	18.86	1775.75	458.35	1251.69	1202.91	1.48	-0.14	0.028
114.00	-21.30	-0.84	0.00	-17.19	0.00	17.19	1759.36	451.78	1216.05	1174.59	1.54	-0.14	0.027
116.00	-18.00	-0.75	0.00	-15.51	0.00	15.51	1742.70	445.20	1180.93	1146.42	1.60	-0.14	0.024
118.00	-17.73	-0.75	0.00	-14.01	0.00	14.01	1725.78	438.63	1146.32	1118.40	1.66	-0.14	0.023
120.00	-17.46	-0.75	0.00	-12.50	0.00	12.50	1708.60	432.06	1112.22	1090.54	1.72	-0.15	0.022
122.00	-17.19	-0.75	0.00	-10.99	0.00	10.99	1691.15	425.49	1078.65	1062.86	1.78	-0.15	0.021
124.00	-16.93	-0.75	0.00	-9.49	0.00	9.49	1673.44	418.92	1045.58	1035.35	1.84	-0.15	0.019
126.00	-10.90	-0.45	0.00	-7.98	0.00	7.98	1655.47	412.34	1013.03	1008.03	1.91	-0.15	0.015
128.00	-10.65	-0.44	0.00	-7.09	0.00	7.09	1637.23	405.77	981.00	980.90	1.97	-0.16	0.014
130.00	-10.41	-0.44	0.00	-6.20	0.00	6.20	1618.72	399.20	949.48	953.97	2.04	-0.16	0.013
132.00	-10.17	-0.44	0.00	-5.31	0.00	5.31	1599.96	392.63	918.47	927.26	2.10	-0.16	0.012
134.00	-9.93	-0.44	0.00	-4.43	0.00	4.43	1580.93	386.05	887.98	900.76	2.17	-0.16	0.011
136.00	-9.69	-0.44	0.00	-3.54	0.00	3.54	1561.63	379.48	858.01	874.48	2.24	-0.16	0.010
138.00	-9.46	-0.44	0.00	-2.66	0.00	2.66	1542.08	372.91	828.54	848.44	2.30	-0.16	0.009
139.00	-5.18	-0.25	0.00	-2.22	0.00	2.22	1532.20	369.62	814.01	835.51	2.34	-0.16	0.006
139.00	-5.18	-0.25	0.00	-2.22	0.00	2.22	1044.08	276.90	609.10	570.00	2.34	-0.16	0.009
140.00	-5.10	-0.25	0.00	-1.97	0.00	1.97	1038.46	274.43	598.30	561.85	2.37	-0.16	0.008
142.00	-4.95	-0.25	0.00	-1.48	0.00	1.48	1027.02	269.50	577.00	545.62	2.44	-0.16	0.008
144.00	-4.80	-0.25	0.00	-0.98	0.00	0.98	1015.32	264.58	556.09	529.46	2.51	-0.16	0.007
146.00	-4.65	-0.25	0.00	-0.49	0.00	0.49	1003.36	259.65	535.56	513.40	2.58	-0.16	0.006
148.00	-0.06	0.00	0.00	0.00	0.00	0.00	991.13	254.72	515.42	497.45	2.64	-0.16	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	984.92	252.25	505.50	489.51	2.68	-0.16	0.000

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 0.9D + 1.0Ev + 1.0Eh				<b>Iterations</b> 22
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.20	<b>Ss</b> 0.19
<b>Dead Load Factor</b>	0.90	<b>Seismic Load Factor</b>	1.00	<b>S1</b> 0.05
<b>Wind Load Factor</b>	0.00	<b>Structure Frequency (f1)</b>	0.36	<b>SA</b> 0.03
				<b>Seismic Importance Factor</b> 1.00



Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00		0.00	0.00	0.00	0.00	
2.00		589.51	1.00	24.15	0.00	
4.00		585.05	3.00	23.96	0.00	
6.00		580.59	5.00	23.78	0.01	
8.00		576.13	7.00	23.60	0.01	
10.00		571.67	9.00	23.42	0.02	
12.00		567.21	11.00	23.23	0.03	
14.00		562.75	13.00	23.05	0.04	
16.00		558.29	15.00	22.87	0.06	
18.00		553.83	17.00	22.68	0.07	
20.00		549.37	19.00	22.50	0.09	
22.00		544.91	21.00	22.32	0.10	
24.00		540.45	23.00	22.14	0.12	
26.00		535.99	25.00	21.95	0.14	
28.00		531.53	27.00	21.77	0.16	
30.00		527.07	29.00	21.59	0.19	
32.00		522.61	31.00	21.41	0.21	
34.00		518.15	33.00	21.22	0.23	
36.00		513.69	35.00	21.04	0.26	
38.00		509.23	37.00	20.86	0.28	
40.00		504.77	39.00	20.68	0.31	
42.00		500.31	41.00	20.49	0.33	
44.00		495.85	43.00	20.31	0.36	
46.00		491.39	45.00	20.13	0.39	
47.25	Bot - Section 2	304.85	46.63	12.49	0.16	
48.00		326.16	47.63	13.36	0.19	
50.00		864.08	49.00	35.39	1.42	
52.00		855.79	51.00	35.05	1.51	
53.25	Top - Section 1	530.66	52.63	21.74	0.62	
54.00		156.78	53.63	6.42	0.06	
56.00		415.45	55.00	17.02	0.41	
58.00		411.63	57.00	16.86	0.44	
60.00		407.81	59.00	16.70	0.46	
62.00		403.98	61.00	16.55	0.48	
64.00		400.16	63.00	16.39	0.50	
66.00		396.34	65.00	16.23	0.53	
68.00		392.51	67.00	16.08	0.55	
70.00		388.69	69.00	15.92	0.57	
72.00		384.87	71.00	15.76	0.59	
74.00		381.05	73.00	15.61	0.61	
76.00		377.22	75.00	15.45	0.64	
78.00		373.40	77.00	15.29	0.66	
80.00		369.58	79.00	15.14	0.68	
82.00		365.76	81.00	14.98	0.70	
84.00		361.93	83.00	14.82	0.72	
86.00		358.11	85.00	14.67	0.74	



## Seismic Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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88.00		354.29	87.00	14.51	0.75
90.00		350.46	89.00	14.36	0.77
92.00		346.64	91.00	14.20	0.79
94.00		342.82	93.00	14.04	0.81
96.00	Bot - Section 3	339.00	95.00	13.89	0.82
98.00		532.03	97.00	21.79	2.11
100.00		525.65	99.00	21.53	2.15
100.75	Top - Section 2	195.48	100.38	8.01	0.31
102.00		147.87	101.38	6.06	0.18
104.00		234.52	103.00	9.61	0.46
106.00		231.97	105.00	9.50	0.47
108.00		229.42	107.00	9.40	0.48
110.00		226.87	109.00	9.29	0.49
112.00		224.32	111.00	9.19	0.49
114.00		221.78	113.00	9.08	0.50
116.00	Appurtenance(s)	2652.8	115.00	108.66	73.88
118.00		214.88	117.00	8.80	0.50
120.00		212.33	119.00	8.70	0.51
122.00		209.78	121.00	8.59	0.51
124.00		207.23	123.00	8.49	0.52
126.00	Appurtenance(s)	4849.3	125.00	198.63	291.68
128.00		195.33	127.00	8.00	0.49
130.00		192.78	129.00	7.90	0.49
132.00		190.23	131.00	7.79	0.49
134.00		187.69	133.00	7.69	0.49
136.00		185.14	135.00	7.58	0.50
138.00		182.59	137.00	7.48	0.50
139.00	Top - Section 3	3447.2	138.50	141.20	180.95
140.00		62.23	139.50	2.55	0.06
142.00		123.02	141.00	5.04	0.24
144.00		121.11	143.00	4.96	0.24
146.00		119.20	145.00	4.88	0.24
148.00	Appurtenance(s)	3691.6	147.00	151.21	233.76
149.00		50.33	148.50	2.06	0.04
<b>Totals:</b>		<b>43,255.2</b>		<b>1,771.7</b>	<b>814.3</b>

**Total Wind: 41,953.2**

## Calculated Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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**Load Case:** 0.9D + 1.0Ev + 1.0Eh

**Gust Response Factor:** 1.10

**Dead Load Factor:** 0.90 **Seismic Load Factor:** 1.00

**Wind Load Factor:** 0.00 **Structure Frequency (f1):** 0.36

**Sds:** 0.20

**Sd1:** 0.08

**SA:** 0.03

**Seismic Importance Factor:** 1.00

**Iterations:** 22

**Ss:** 0.19

**S1:** 0.05

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-41.02	-0.81	0.00	-111.47	0.00	111.47	5451.60	1409.10	6760.13	6487.84	0.00	0.00	0.00	0.025
2.00	-40.46	-0.82	0.00	-109.84	0.00	109.84	5423.14	1397.60	6650.22	6400.90	0.00	0.00	0.00	0.025
4.00	-39.90	-0.82	0.00	-108.21	0.00	108.21	5394.41	1386.10	6541.22	6314.20	0.00	0.00	0.00	0.025
6.00	-39.35	-0.82	0.00	-106.58	0.00	106.58	5365.42	1374.60	6433.12	6227.76	0.00	0.00	-0.01	0.024
8.00	-38.81	-0.82	0.00	-104.94	0.00	104.94	5336.17	1363.10	6325.92	6141.58	0.01	0.01	-0.01	0.024
10.00	-38.26	-0.82	0.00	-103.31	0.00	103.31	5306.65	1351.60	6219.62	6055.68	0.01	0.01	-0.01	0.024
12.00	-37.73	-0.82	0.00	-101.67	0.00	101.67	5276.87	1340.10	6114.23	5970.05	0.01	0.01	-0.01	0.024
14.00	-37.19	-0.82	0.00	-100.03	0.00	100.03	5246.82	1328.60	6009.73	5884.71	0.02	0.02	-0.01	0.024
16.00	-36.66	-0.82	0.00	-98.38	0.00	98.38	5216.51	1317.10	5906.13	5799.67	0.03	0.03	-0.02	0.024
18.00	-36.14	-0.82	0.00	-96.73	0.00	96.73	5185.94	1305.60	5803.43	5714.93	0.03	0.03	-0.02	0.024
20.00	-35.61	-0.83	0.00	-95.09	0.00	95.09	5155.10	1294.09	5701.64	5630.50	0.04	0.04	-0.02	0.024
22.00	-35.10	-0.83	0.00	-93.43	0.00	93.43	5124.00	1282.59	5600.74	5546.38	0.05	0.05	-0.02	0.024
24.00	-34.58	-0.83	0.00	-91.78	0.00	91.78	5092.64	1271.09	5500.75	5462.60	0.06	0.06	-0.02	0.024
26.00	-34.07	-0.83	0.00	-90.13	0.00	90.13	5061.01	1259.59	5401.66	5379.14	0.07	0.07	-0.03	0.023
28.00	-33.57	-0.83	0.00	-88.47	0.00	88.47	5029.12	1248.09	5303.46	5296.03	0.08	0.08	-0.03	0.023
30.00	-33.07	-0.83	0.00	-86.81	0.00	86.81	4996.96	1236.59	5206.17	5213.26	0.09	0.09	-0.03	0.023
32.00	-32.57	-0.83	0.00	-85.15	0.00	85.15	4964.54	1225.09	5109.78	5130.86	0.10	0.10	-0.03	0.023
34.00	-32.08	-0.83	0.00	-83.49	0.00	83.49	4931.86	1213.59	5014.29	5048.81	0.12	0.12	-0.03	0.023
36.00	-31.59	-0.83	0.00	-81.83	0.00	81.83	4898.91	1202.09	4919.70	4967.14	0.13	0.13	-0.04	0.023
38.00	-31.11	-0.83	0.00	-80.17	0.00	80.17	4865.70	1190.58	4826.01	4885.85	0.15	0.15	-0.04	0.023
40.00	-30.63	-0.83	0.00	-78.50	0.00	78.50	4832.22	1179.08	4733.22	4804.95	0.17	0.17	-0.04	0.023
42.00	-30.15	-0.83	0.00	-76.84	0.00	76.84	4798.48	1167.58	4641.33	4724.44	0.18	0.18	-0.04	0.023
44.00	-29.68	-0.83	0.00	-75.17	0.00	75.17	4764.48	1156.08	4550.35	4644.34	0.20	0.20	-0.05	0.022
46.00	-29.22	-0.83	0.00	-73.50	0.00	73.50	4730.21	1144.58	4460.26	4564.64	0.22	0.22	-0.05	0.022
47.25	-28.93	-0.83	0.00	-72.46	0.00	72.46	4708.66	1137.39	4404.41	4515.05	0.23	0.23	-0.05	0.022
48.00	-28.62	-0.83	0.00	-71.83	0.00	71.83	4695.68	1133.08	4371.07	4485.37	0.24	0.24	-0.05	0.022
50.00	-27.80	-0.83	0.00	-70.16	0.00	70.16	4660.89	1121.58	4282.79	4406.52	0.26	0.26	-0.05	0.022
52.00	-26.99	-0.83	0.00	-68.49	0.00	68.49	4625.83	1110.08	4195.41	4328.11	0.28	0.28	-0.05	0.022
53.25	-26.49	-0.83	0.00	-67.45	0.00	67.45	3820.53	963.13	3684.59	3623.65	0.30	0.30	-0.06	0.026
54.00	-26.34	-0.83	0.00	-66.83	0.00	66.83	3810.68	959.44	3656.36	3600.32	0.31	0.31	-0.06	0.025
56.00	-25.94	-0.83	0.00	-65.17	0.00	65.17	3784.24	949.58	3581.60	3538.31	0.33	0.33	-0.06	0.025
58.00	-25.55	-0.83	0.00	-63.50	0.00	63.50	3757.53	939.72	3507.63	3476.56	0.36	0.36	-0.06	0.025
60.00	-25.16	-0.83	0.00	-61.83	0.00	61.83	3730.55	929.86	3434.42	3415.10	0.38	0.38	-0.06	0.025
62.00	-24.78	-0.83	0.00	-60.17	0.00	60.17	3703.32	920.01	3361.98	3353.92	0.41	0.41	-0.07	0.025
64.00	-24.40	-0.83	0.00	-58.50	0.00	58.50	3675.82	910.15	3290.32	3293.05	0.44	0.44	-0.07	0.024
66.00	-24.02	-0.83	0.00	-56.83	0.00	56.83	3648.05	900.29	3219.43	3232.47	0.47	0.47	-0.07	0.024
68.00	-23.65	-0.83	0.00	-55.17	0.00	55.17	3620.03	890.43	3149.31	3172.21	0.50	0.50	-0.07	0.024
70.00	-23.28	-0.83	0.00	-53.50	0.00	53.50	3591.74	880.57	3079.96	3112.27	0.53	0.53	-0.08	0.024
72.00	-22.91	-0.83	0.00	-51.83	0.00	51.83	3563.18	870.71	3011.39	3052.66	0.57	0.57	-0.08	0.023
74.00	-22.55	-0.83	0.00	-50.16	0.00	50.16	3534.36	860.86	2943.59	2993.38	0.60	0.60	-0.08	0.023
76.00	-22.19	-0.83	0.00	-48.50	0.00	48.50	3505.28	851.00	2876.56	2934.44	0.64	0.64	-0.09	0.023
78.00	-21.83	-0.83	0.00	-46.83	0.00	46.83	3475.93	841.14	2810.30	2875.86	0.67	0.67	-0.09	0.023
80.00	-21.48	-0.83	0.00	-45.16	0.00	45.16	3446.32	831.28	2744.81	2817.63	0.71	0.71	-0.09	0.022
82.00	-21.13	-0.83	0.00	-43.49	0.00	43.49	3416.44	821.42	2680.10	2759.78	0.75	0.75	-0.09	0.022
84.00	-20.78	-0.83	0.00	-41.83	0.00	41.83	3386.31	811.57	2616.15	2702.29	0.79	0.79	-0.10	0.022
86.00	-20.44	-0.83	0.00	-40.16	0.00	40.16	3355.90	801.71	2552.98	2645.19	0.83	0.83	-0.10	0.021
88.00	-20.11	-0.83	0.00	-38.50	0.00	38.50	3325.24	791.85	2490.58	2588.48	0.87	0.87	-0.10	0.021

## Calculated Forces

**Structure:** CT13075-A-SBA

**Code:** TIA-222-H

8/30/2023

**Site Name:** New London

**Exposure:** C



**Height:** 149.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 1.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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90.00	-19.77	-0.83	0.00	-36.83	0.00	36.83	3294.31	781.99	2428.96	2532.16	0.91	-0.10	0.021
92.00	-19.44	-0.83	0.00	-35.17	0.00	35.17	3263.11	772.13	2368.10	2476.25	0.96	-0.11	0.020
94.00	-19.11	-0.83	0.00	-33.51	0.00	33.51	3226.97	762.28	2308.02	2417.24	1.00	-0.11	0.020
96.00	-18.79	-0.83	0.00	-31.85	0.00	31.85	3185.24	752.42	2248.71	2354.81	1.05	-0.11	0.019
98.00	-18.28	-0.83	0.00	-30.19	0.00	30.19	3143.50	742.56	2190.17	2293.20	1.10	-0.11	0.019
100.00	-17.79	-0.82	0.00	-28.53	0.00	28.53	3101.77	732.70	2132.40	2232.40	1.15	-0.12	0.019
100.75	-17.60	-0.82	0.00	-27.92	0.00	27.92	1863.03	495.32	1461.74	1364.60	1.16	-0.12	0.030
102.00	-17.46	-0.82	0.00	-26.88	0.00	26.88	1853.75	491.21	1437.59	1346.46	1.19	-0.12	0.029
104.00	-17.23	-0.83	0.00	-25.23	0.00	25.23	1838.67	484.64	1399.38	1317.52	1.25	-0.12	0.029
106.00	-17.01	-0.83	0.00	-23.58	0.00	23.58	1823.34	478.06	1361.69	1288.68	1.30	-0.13	0.028
108.00	-16.79	-0.83	0.00	-21.93	0.00	21.93	1807.74	471.49	1324.51	1259.97	1.35	-0.13	0.027
110.00	-16.57	-0.83	0.00	-20.28	0.00	20.28	1791.88	464.92	1287.84	1231.38	1.41	-0.13	0.026
112.00	-16.36	-0.82	0.00	-18.63	0.00	18.63	1775.75	458.35	1251.69	1202.91	1.46	-0.14	0.025
114.00	-16.14	-0.82	0.00	-16.98	0.00	16.98	1759.36	451.78	1216.05	1174.59	1.52	-0.14	0.024
116.00	-13.64	-0.75	0.00	-15.34	0.00	15.34	1742.70	445.20	1180.93	1146.42	1.58	-0.14	0.021
118.00	-13.43	-0.74	0.00	-13.85	0.00	13.85	1725.78	438.63	1146.32	1118.40	1.64	-0.14	0.020
120.00	-13.23	-0.74	0.00	-12.36	0.00	12.36	1708.60	432.06	1112.22	1090.54	1.70	-0.15	0.019
122.00	-13.03	-0.74	0.00	-10.87	0.00	10.87	1691.15	425.49	1078.65	1062.86	1.76	-0.15	0.018
124.00	-12.83	-0.74	0.00	-9.38	0.00	9.38	1673.44	418.92	1045.58	1035.35	1.82	-0.15	0.017
126.00	-8.26	-0.44	0.00	-7.89	0.00	7.89	1655.47	412.34	1013.03	1008.03	1.88	-0.15	0.013
128.00	-8.08	-0.44	0.00	-7.01	0.00	7.01	1637.23	405.77	981.00	980.90	1.95	-0.15	0.012
130.00	-7.89	-0.44	0.00	-6.13	0.00	6.13	1618.72	399.20	949.48	953.97	2.01	-0.15	0.011
132.00	-7.71	-0.44	0.00	-5.26	0.00	5.26	1599.96	392.63	918.47	927.26	2.08	-0.16	0.010
134.00	-7.53	-0.44	0.00	-4.38	0.00	4.38	1580.93	386.05	887.98	900.76	2.14	-0.16	0.010
136.00	-7.35	-0.44	0.00	-3.51	0.00	3.51	1561.63	379.48	858.01	874.48	2.21	-0.16	0.009
138.00	-7.17	-0.44	0.00	-2.64	0.00	2.64	1542.08	372.91	828.54	848.44	2.28	-0.16	0.008
139.00	-3.93	-0.25	0.00	-2.20	0.00	2.20	1532.20	369.62	814.01	835.51	2.31	-0.16	0.005
139.00	-3.93	-0.25	0.00	-2.20	0.00	2.20	1044.08	276.90	609.10	570.00	2.31	-0.16	0.008
140.00	-3.87	-0.25	0.00	-1.96	0.00	1.96	1038.46	274.43	598.30	561.85	2.34	-0.16	0.007
142.00	-3.75	-0.24	0.00	-1.46	0.00	1.46	1027.02	269.50	577.00	545.62	2.41	-0.16	0.006
144.00	-3.64	-0.24	0.00	-0.98	0.00	0.98	1015.32	264.58	556.09	529.46	2.48	-0.16	0.005
146.00	-3.52	-0.24	0.00	-0.49	0.00	0.49	1003.36	259.65	535.56	513.40	2.55	-0.16	0.004
148.00	-0.05	0.00	0.00	0.00	0.00	0.00	991.13	254.72	515.42	497.45	2.61	-0.16	0.000
149.00	0.00	0.00	0.00	0.00	0.00	0.00	984.92	252.25	505.50	489.51	2.65	-0.16	0.000

## Wind Loading - Shaft

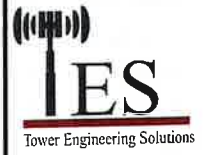
**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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

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



**Iterations** 24

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	Ice Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	6.624	7.29	271.99	0.630	0.000	0.00	0.000	0.00	0.0	0.0	0.0
2.00		1.00	0.85	6.624	7.29	269.79	0.630	0.000	2.00	9.820	6.19	45.1	0.0	544.2
4.00		1.00	0.85	6.624	7.29	267.59	0.630	0.000	2.00	9.740	6.14	44.7	0.0	539.7
6.00		1.00	0.85	6.624	7.29	265.38	0.630	0.000	2.00	9.660	6.09	44.3	0.0	535.3
8.00		1.00	0.85	6.624	7.29	263.18	0.630	0.000	2.00	9.580	6.04	44.0	0.0	530.8
10.00		1.00	0.85	6.624	7.29	260.98	0.630	0.000	2.00	9.500	5.99	43.6	0.0	526.4
12.00		1.00	0.85	6.624	7.29	258.77	0.630	0.000	2.00	9.421	5.93	43.2	0.0	521.9
14.00		1.00	0.85	6.624	7.29	256.57	0.630	0.000	2.00	9.341	5.88	42.9	0.0	517.4
16.00		1.00	0.87	6.792	7.47	257.57	0.630	0.000	2.00	9.261	5.83	43.6	0.0	513.0
18.00		1.00	0.89	6.953	7.65	258.35	0.630	0.000	2.00	9.181	5.78	44.2	0.0	508.5
20.00		1.00	0.91	7.101	7.81	258.80	0.630	0.000	2.00	9.101	5.73	44.8	0.0	504.1
22.00		1.00	0.93	7.238	7.96	258.99	0.630	0.000	2.00	9.021	5.68	45.2	0.0	499.6
24.00		1.00	0.95	7.366	8.10	258.95	0.630	0.000	2.00	8.941	5.63	45.6	0.0	495.1
26.00		1.00	0.96	7.486	8.24	258.71	0.630	0.000	2.00	8.861	5.58	46.0	0.0	490.7
28.00		1.00	0.98	7.600	8.36	258.31	0.630	0.000	2.00	8.782	5.53	46.2	0.0	486.2
30.00		1.00	0.99	7.707	8.48	257.75	0.630	0.000	2.00	8.702	5.48	46.5	0.0	481.8
32.00		1.00	1.00	7.809	8.59	257.06	0.630	0.000	2.00	8.622	5.43	46.7	0.0	477.3
34.00		1.00	1.01	7.907	8.70	256.25	0.630	0.000	2.00	8.542	5.38	46.8	0.0	472.8
36.00		1.00	1.03	8.000	8.80	255.33	0.630	0.000	2.00	8.462	5.33	46.9	0.0	468.4
38.00		1.00	1.04	8.089	8.90	254.31	0.630	0.000	2.00	8.382	5.28	47.0	0.0	463.9
40.00		1.00	1.05	8.175	8.99	253.21	0.630	0.000	2.00	8.302	5.23	47.0	0.0	459.5
42.00		1.00	1.06	8.257	9.08	252.02	0.630	0.000	2.00	8.222	5.18	47.0	0.0	455.0
44.00		1.00	1.07	8.336	9.17	250.76	0.630	0.000	2.00	8.143	5.13	47.0	0.0	450.5
46.00		1.00	1.08	8.413	9.25	249.43	0.630	0.000	2.00	8.063	5.08	47.0	0.0	446.1
47.25 Bot - Section 2		1.00	1.09	8.460	9.31	248.56	0.630	0.000	1.25	4.999	3.15	29.3	0.0	276.5
48.00		1.00	1.09	8.487	9.34	248.03	0.630	0.000	0.75	3.034	1.91	17.8	0.0	309.2
50.00		1.00	1.10	8.559	9.41	246.57	0.630	0.000	2.00	8.037	5.06	47.7	0.0	818.8
52.00		1.00	1.11	8.629	9.49	245.06	0.630	0.000	2.00	7.957	5.01	47.6	0.0	810.5
53.25 Top - Section 1		1.00	1.11	8.671	9.54	244.08	0.630	0.000	1.25	4.932	3.11	29.6	0.0	502.3
54.00		1.00	1.12	8.696	9.57	247.71	0.630	0.000	0.75	2.944	1.86	17.7	0.0	139.8
56.00		1.00	1.12	8.762	9.64	246.11	0.630	0.000	2.00	7.797	4.91	47.3	0.0	370.1
58.00		1.00	1.13	8.826	9.71	244.46	0.630	0.000	2.00	7.717	4.86	47.2	0.0	366.3
60.00		1.00	1.14	8.888	9.78	242.77	0.630	0.000	2.00	7.637	4.81	47.0	0.0	362.5
62.00		1.00	1.15	8.948	9.84	241.04	0.630	0.000	2.00	7.557	4.76	46.9	0.0	358.7
64.00		1.00	1.16	9.007	9.91	239.26	0.630	0.000	2.00	7.478	4.71	46.7	0.0	354.8
66.00		1.00	1.16	9.065	9.97	237.45	0.630	0.000	2.00	7.398	4.66	46.5	0.0	351.0
68.00		1.00	1.17	9.121	10.03	235.60	0.630	0.000	2.00	7.318	4.61	46.3	0.0	347.2
70.00		1.00	1.18	9.176	10.09	233.71	0.630	0.000	2.00	7.238	4.56	46.0	0.0	343.4
72.00		1.00	1.18	9.230	10.15	231.80	0.630	0.000	2.00	7.158	4.51	45.8	0.0	339.6
74.00		1.00	1.19	9.283	10.21	229.85	0.630	0.000	2.00	7.078	4.46	45.5	0.0	335.7
76.00		1.00	1.20	9.334	10.27	227.87	0.630	0.000	2.00	6.998	4.41	45.3	0.0	331.9
78.00		1.00	1.20	9.385	10.32	225.86	0.630	0.000	2.00	6.918	4.36	45.0	0.0	328.1
80.00		1.00	1.21	9.434	10.38	223.83	0.630	0.000	2.00	6.839	4.31	44.7	0.0	324.3
82.00		1.00	1.22	9.483	10.43	221.77	0.630	0.000	2.00	6.759	4.26	44.4	0.0	320.4
84.00		1.00	1.22	9.531	10.48	219.68	0.630	0.000	2.00	6.679	4.21	44.1	0.0	316.6
86.00		1.00	1.23	9.578	10.54	217.57	0.630	0.000	2.00	6.599	4.16	43.8	0.0	312.8
88.00		1.00	1.23	9.623	10.59	215.44	0.630	0.000	2.00	6.519	4.11	43.5	0.0	309.0

## Wind Loading - Shaft

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

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90.00	1.00	1.24	9.669	10.64	213.28	0.630	0.000	2.00	6.439	4.06	43.1	0.0	305.2	
92.00	1.00	1.25	9.713	10.68	211.10	0.630	0.000	2.00	6.359	4.01	42.8	0.0	301.3	
94.00	1.00	1.25	9.757	10.73	208.90	0.630	0.000	2.00	6.279	3.96	42.5	0.0	297.5	
96.00 Bot - Section 3	1.00	1.26	9.799	10.78	206.68	0.630	0.000	2.00	6.200	3.91	42.1	0.0	293.7	
98.00	1.00	1.26	9.842	10.83	204.44	0.630	0.000	2.00	6.212	3.91	42.4	0.0	486.7	
100.00	1.00	1.27	9.883	10.87	202.18	0.630	0.000	2.00	6.132	3.86	42.0	0.0	480.3	
100.75 Top - Section 2	1.00	1.27	9.899	10.89	201.32	0.630	0.000	0.75	2.279	1.44	15.6	0.0	178.5	
102.00	1.00	1.27	9.924	10.92	203.00	0.630	0.000	1.25	3.773	2.38	25.9	0.0	119.5	
104.00	1.00	1.28	9.964	10.96	200.71	0.630	0.000	2.00	5.972	3.76	41.2	0.0	189.2	
106.00	1.00	1.28	10.004	11.00	198.40	0.630	0.000	2.00	5.892	3.71	40.8	0.0	186.7	
108.00	1.00	1.29	10.043	11.05	196.08	0.630	0.000	2.00	5.812	3.66	40.5	0.0	184.1	
110.00	1.00	1.29	10.082	11.09	193.74	0.630	0.000	2.00	5.732	3.61	40.1	0.0	181.6	
112.00	1.00	1.30	10.120	11.13	191.38	0.630	0.000	2.00	5.653	3.56	39.6	0.0	179.0	
114.00	1.00	1.30	10.157	11.17	189.00	0.630	0.000	2.00	5.573	3.51	39.2	0.0	176.5	
116.00 Appurtenance(s)	1.00	1.31	10.194	11.21	186.61	0.630	0.000	2.00	5.493	3.46	38.8	0.0	173.9	
118.00	1.00	1.31	10.230	11.25	184.21	0.630	0.000	2.00	5.413	3.41	38.4	0.0	171.4	
120.00	1.00	1.32	10.266	11.29	181.79	0.630	0.000	2.00	5.333	3.36	37.9	0.0	168.8	
122.00	1.00	1.32	10.302	11.33	179.35	0.630	0.000	2.00	5.253	3.31	37.5	0.0	166.3	
124.00	1.00	1.33	10.337	11.37	176.91	0.630	0.000	2.00	5.173	3.26	37.1	0.0	163.7	
126.00 Appurtenance(s)	1.00	1.33	10.371	11.41	174.45	0.630	0.000	2.00	5.094	3.21	36.6	0.0	161.2	
128.00	1.00	1.34	10.406	11.45	171.97	0.630	0.000	2.00	5.014	3.16	36.2	0.0	158.6	
130.00	1.00	1.34	10.439	11.48	169.48	0.630	0.000	2.00	4.934	3.11	35.7	0.0	156.1	
132.00	1.00	1.34	10.473	11.52	166.98	0.630	0.000	2.00	4.854	3.06	35.2	0.0	153.5	
134.00	1.00	1.35	10.506	11.56	164.47	0.630	0.000	2.00	4.774	3.01	34.8	0.0	151.0	
136.00	1.00	1.35	10.538	11.59	161.95	0.630	0.000	2.00	4.694	2.96	34.3	0.0	148.4	
138.00	1.00	1.36	10.570	11.63	159.41	0.630	0.000	2.00	4.614	2.91	33.8	0.0	145.9	
139.00 Top - Section 3	1.00	1.36	10.586	11.65	158.14	0.630	0.000	1.00	2.277	1.43	16.7	0.0	72.0	
140.00	1.00	1.36	10.602	11.66	156.31	0.630	0.000	1.00	2.249	1.42	16.5	0.0	53.4	
142.00	1.00	1.36	10.634	11.70	153.75	0.630	0.000	2.00	4.439	2.80	32.7	0.0	105.5	
144.00	1.00	1.37	10.665	11.73	151.18	0.630	0.000	2.00	4.359	2.75	32.2	0.0	103.6	
146.00	1.00	1.37	10.696	11.77	148.60	0.630	0.000	2.00	4.279	2.70	31.7	0.0	101.6	
148.00 Appurtenance(s)	1.00	1.38	10.726	11.80	146.01	0.630	0.000	2.00	4.199	2.65	31.2	0.0	99.7	
149.00	1.00	1.38	10.741	11.82	144.71	0.630	0.000	1.00	2.070	1.30	15.4	0.0	49.1	
<b>Totals:</b>								<b>149.00</b>				<b>3,161.9</b>	<b>26,081.2</b>	

## Discrete Appurtenance Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

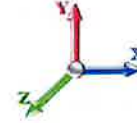
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 24

No.	Elev (ft)	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (lb)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	148.00	MT6407-77A	3	10.726	11.799	0.63	0.90	8.86	261.30	0.000	0.000	104.59	0.00	0.00
2	148.00	RFS DB-T1-6Z-8AB-0Z	2	10.726	11.799	0.81	0.90	7.78	88.00	0.000	0.000	91.75	0.00	0.00
3	148.00	Antel BXA-80063/4CF	3	10.749	11.824	0.67	0.90	9.41	29.70	0.000	1.500	111.27	0.00	166.90
4	148.00	MX06FRO660-02	3	10.726	11.799	0.78	0.90	23.44	171.00	0.000	0.000	276.60	0.00	0.00
5	148.00	MX10FRO660	3	10.726	11.799	0.70	0.90	20.24	171.90	0.000	0.000	238.79	0.00	0.00
6	148.00	Low Profile Platform	1	10.726	11.799	1.00	1.00	48.20	2262.00	0.000	0.000	568.70	0.00	0.00
7	148.00	B5/B13 RRH-BR04C	3	10.726	11.799	0.60	0.90	3.40	210.90	0.000	0.000	40.13	0.00	0.00
8	148.00	RT4401-48A	3	10.726	11.799	0.60	0.90	1.56	55.92	0.000	0.000	18.36	0.00	0.00
9	148.00	BSF0020F3V1-1	4	10.726	11.799	0.60	0.90	2.32	70.40	0.000	0.000	27.32	0.00	0.00
10	148.00	B2/B66A RRH-BR049	3	10.726	11.799	0.60	0.90	3.40	253.20	0.000	0.000	40.13	0.00	0.00
11	139.00	APXVAARR24_43-U-NA2	3	10.586	11.645	0.56	0.75	34.16	384.00	0.000	0.000	397.74	0.00	0.00
12	139.00	AIR6449 B41	3	10.586	11.645	0.53	0.75	9.03	309.00	0.000	0.000	105.11	0.00	0.00
13	139.00	AIR32	3	10.586	11.645	0.65	0.75	12.74	396.60	0.000	0.000	148.40	0.00	0.00
14	139.00	4449 B71 + B12	3	10.586	11.645	0.50	0.75	2.97	219.60	0.000	0.000	34.58	0.00	0.00
15	139.00	KRY 112 144/1	3	10.586	11.645	0.56	0.75	1.20	46.20	0.000	0.000	13.95	0.00	0.00
16	139.00	Low Profile Platform	1	10.586	11.645	1.00	1.00	35.03	1863.50	0.000	0.000	407.93	0.00	0.00
17	139.00	RRUS 4415 B25	3	10.586	11.645	0.50	0.75	2.47	138.00	0.000	0.000	28.79	0.00	0.00
18	126.00	DC6-48-60-18-8C-EV	1	10.371	11.409	0.75	0.75	3.58	16.00	0.000	0.000	40.90	0.00	0.00
19	126.00	Ericsson 2012 B29	3	10.371	11.409	0.50	0.75	4.75	178.20	0.000	0.000	54.18	0.00	0.00
20	126.00	Ericsson RRUS 4478 B5	3	10.371	11.409	0.50	0.75	2.77	179.70	0.000	0.000	31.65	0.00	0.00
21	126.00	Ericsson RRUS 32 RRU	3	10.371	11.409	0.50	0.75	4.99	231.00	0.000	0.000	56.93	0.00	0.00
22	126.00	Raycap DC6-48-60-18-8F	3	10.371	11.409	0.50	0.75	3.32	95.40	0.000	0.000	37.84	0.00	0.00
23	126.00	Kaelus DBCT108F1V92-1	3	10.371	11.409	0.50	0.75	1.06	59.40	0.000	0.000	12.04	0.00	0.00
24	126.00	Ericsson RRUS 4426 B66	3	10.371	11.409	0.50	0.75	1.73	145.50	0.000	0.000	19.78	0.00	0.00
25	126.00	Ericsson RRUS 4415 B25	3	10.371	11.409	0.50	0.75	2.80	132.30	0.000	0.000	31.99	0.00	0.00
26	126.00	RRUS 4449 B5/B12	3	10.371	11.409	0.50	0.75	2.97	213.00	0.000	0.000	33.88	0.00	0.00
27	126.00	DMP65R-BU8DA	3	10.371	11.409	0.55	0.75	29.35	287.10	0.000	0.000	334.86	0.00	0.00
28	126.00	AIR 6449 B77D	3	10.337	11.371	0.64	0.75	7.90	264.00	0.000	-2.000	89.81	0.00	-179.62
29	126.00	AIR 6419 B77G	3	10.406	11.446	0.57	0.75	6.50	198.30	0.000	2.000	74.38	0.00	148.75
30	126.00	Ericsson RRUS 4478 B14	3	10.371	11.409	0.50	0.75	2.49	178.20	0.000	0.000	28.38	0.00	0.00
31	126.00	QD8616-7	3	10.371	11.409	0.69	0.75	38.92	204.60	0.000	0.000	443.98	0.00	0.00
32	126.00	MTC3607 Platform + HR &	1	10.371	11.409	1.00	1.00	48.20	2262.00	0.000	0.000	549.89	0.00	0.00
33	116.00	MX08FRO665-21	3	10.194	11.213	0.55	0.75	20.80	193.50	0.000	0.000	233.19	0.00	0.00
34	116.00	MC-PK8-DSH	1	10.194	11.213	1.00	1.00	34.23	1801.56	0.000	0.000	383.83	0.00	0.00
35	116.00	RDIDC-9181-OF-48	1	10.194	11.213	1.00	1.00	2.01	21.90	0.000	0.000	22.54	0.00	0.00
36	116.00	TA08025-B604	3	10.194	11.213	0.50	0.75	2.95	191.70	0.000	0.000	33.13	0.00	0.00
37	116.00	TA08025-B605	3	10.194	11.213	0.50	0.75	2.95	225.00	0.000	0.000	33.13	0.00	0.00
<b>Totals:</b>									<b>14,009.58</b>			<b>5,200.40</b>		

## Total Applied Force Summary

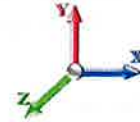
<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 24

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)
0.00		0.00	0.00	0.00	0.00
2.00		46.55	594.54	0.00	0.00
4.00		46.18	590.08	0.00	0.00
6.00		45.81	585.62	0.00	0.00
8.00		45.45	581.16	0.00	0.00
10.00		45.08	576.70	0.00	0.00
12.00		44.71	572.24	0.00	0.00
14.00		44.35	567.78	0.00	0.00
16.00		45.10	563.32	0.00	0.00
18.00		45.78	558.86	0.00	0.00
20.00		46.36	554.40	0.00	0.00
22.00		46.86	549.94	0.00	0.00
24.00		47.28	545.48	0.00	0.00
26.00		47.64	541.02	0.00	0.00
28.00		47.94	536.56	0.00	0.00
30.00		48.19	532.10	0.00	0.00
32.00		48.40	527.64	0.00	0.00
34.00		48.56	523.18	0.00	0.00
36.00		48.69	518.72	0.00	0.00
38.00		48.78	514.26	0.00	0.00
40.00		48.85	509.80	0.00	0.00
42.00		48.88	505.34	0.00	0.00
44.00		48.89	500.88	0.00	0.00
46.00		48.88	496.42	0.00	0.00
47.25		30.48	308.00	0.00	0.00
48.00		18.55	328.05	0.00	0.00
50.00		49.57	869.11	0.00	0.00
52.00		49.50	860.83	0.00	0.00
53.25		30.84	533.81	0.00	0.00
54.00		18.47	158.67	0.00	0.00
56.00		49.29	420.49	0.00	0.00
58.00		49.16	416.66	0.00	0.00
60.00		49.01	412.84	0.00	0.00
62.00		48.85	409.02	0.00	0.00
64.00		48.68	405.20	0.00	0.00
66.00		48.49	401.37	0.00	0.00
68.00		48.28	397.55	0.00	0.00
70.00		48.07	393.73	0.00	0.00
72.00		47.84	389.90	0.00	0.00
74.00		47.60	386.08	0.00	0.00
76.00		47.34	382.26	0.00	0.00
78.00		47.08	378.44	0.00	0.00
80.00		46.81	374.61	0.00	0.00
82.00		46.52	370.79	0.00	0.00
84.00		46.23	366.97	0.00	0.00
86.00		45.93	363.14	0.00	0.00
88.00		45.61	359.32	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 55



90.00		45.29	355.50	0.00	0.00
92.00		44.96	351.68	0.00	0.00
94.00		44.62	347.85	0.00	0.00
96.00		44.28	344.03	0.00	0.00
98.00		44.55	537.06	0.00	0.00
100.00		44.19	530.69	0.00	0.00
100.75		16.46	197.37	0.00	0.00
102.00		27.33	151.01	0.00	0.00
104.00		43.45	239.55	0.00	0.00
106.00		43.07	237.00	0.00	0.00
108.00		42.68	234.46	0.00	0.00
110.00		42.29	231.91	0.00	0.00
112.00		41.89	229.36	0.00	0.00
114.00		41.48	226.81	0.00	0.00
116.00	(11) attachments	746.89	2657.92	0.00	0.00
118.00		40.65	219.71	0.00	0.00
120.00		40.22	217.16	0.00	0.00
122.00		39.79	214.62	0.00	0.00
124.00		39.36	212.07	0.00	0.00
126.00	(41) attachments	1879.38	4854.22	0.00	-30.87
128.00		38.47	199.41	0.00	0.00
130.00		38.01	196.86	0.00	0.00
132.00		37.55	194.31	0.00	0.00
134.00		37.09	191.76	0.00	0.00
136.00		36.62	189.22	0.00	0.00
138.00		36.15	186.67	0.00	0.00
139.00	(19) attachments	1154.37	3449.28	0.00	0.00
140.00		17.70	63.20	0.00	0.00
142.00		35.07	124.97	0.00	0.00
144.00		34.59	123.06	0.00	0.00
146.00		34.09	121.15	0.00	0.00
148.00	(28) attachments	1551.22	3693.56	0.00	166.90
149.00		16.60	50.46	0.00	0.00
	<b>Totals:</b>	<b>8,511.80</b>	<b>43,606.79</b>	<b>0.00</b>	<b>136.03</b>



## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

8/30/2023  
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
2.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
2.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
4.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
4.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
6.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
6.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
8.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
8.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
10.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
10.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
12.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
12.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
14.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.624	0.55	0.55
14.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.624	0.92	2.08
16.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.792	0.57	0.55
16.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.792	0.94	2.08
18.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	6.953	0.58	0.55
18.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	6.953	0.96	2.08
20.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.101	0.59	0.55
20.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.101	0.98	2.08
22.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.238	0.61	0.55
22.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.238	1.00	2.08
24.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.366	0.62	0.55
24.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.366	1.02	2.08
26.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.486	0.63	0.55
26.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.486	1.04	2.08
28.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.600	0.64	0.55
28.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.600	1.05	2.08
30.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.707	0.64	0.55
30.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.707	1.07	2.08
32.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.809	0.65	0.55
32.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.809	1.08	2.08
34.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	7.907	0.66	0.55
34.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	7.907	1.10	2.08
36.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.000	0.67	0.55
36.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.000	1.11	2.08
38.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.089	0.68	0.55
38.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.089	1.12	2.08
40.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.175	0.68	0.55
40.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.175	1.13	2.08
42.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.257	0.69	0.55
42.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.257	1.14	2.08
44.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.336	0.70	0.55
44.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.336	1.16	2.08
46.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.413	0.70	0.55
46.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.413	1.17	2.08
47.25	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	8.460	0.44	0.34

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

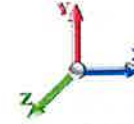
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
47.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	8.460	0.73	1.30
48.00	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	8.487	0.27	0.20
48.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	8.487	0.44	0.78
50.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.559	0.72	0.55
50.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.559	1.19	2.08
52.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.629	0.72	0.55
52.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.629	1.20	2.08
53.25	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	8.671	0.45	0.34
53.25	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	8.671	0.75	1.30
54.00	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	8.696	0.27	0.20
54.00	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	8.696	0.45	0.78
56.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.762	0.73	0.55
56.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.762	1.21	2.08
58.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.826	0.74	0.55
58.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.826	1.22	2.08
60.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.888	0.74	0.55
60.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.888	1.23	2.08
62.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	8.948	0.75	0.55
62.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	8.948	1.24	2.08
64.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.007	0.75	0.55
64.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.007	1.25	2.08
66.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.065	0.76	0.55
66.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.065	1.26	2.08
68.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.121	0.76	0.55
68.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.121	1.26	2.08
70.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.176	0.77	0.55
70.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.176	1.27	2.08
72.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.230	0.77	0.55
72.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.230	1.28	2.08
74.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.283	0.78	0.55
74.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.283	1.29	2.08
76.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.334	0.78	0.55
76.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.334	1.29	2.08
78.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.385	0.78	0.55
78.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.385	1.30	2.08
80.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.434	0.79	0.55
80.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.434	1.31	2.08
82.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.483	0.79	0.55
82.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.483	1.31	2.08
84.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.531	0.80	0.55
84.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.531	1.32	2.08
86.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.578	0.80	0.55
86.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.578	1.33	2.08
88.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.623	0.80	0.55
88.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.623	1.33	2.08
90.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.669	0.81	0.55
90.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.669	1.34	2.08

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

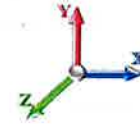
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
92.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.713	0.81	0.55
92.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.713	1.35	2.08
94.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.757	0.82	0.55
94.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.757	1.35	2.08
96.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.799	0.82	0.55
96.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.799	1.36	2.08
98.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.842	0.82	0.55
98.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.842	1.36	2.08
100.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.883	0.83	0.55
100.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.883	1.37	2.08
100.75	Safety Cable	Yes	0.75	1.200	0.38	0.02	0.03	0.000	0.000	9.899	0.31	0.20
100.75	Step bolts (ladder)	Yes	0.75	1.200	0.63	0.04	0.05	0.000	0.000	9.899	0.51	0.78
102.00	Safety Cable	Yes	1.25	1.200	0.38	0.04	0.05	0.000	0.000	9.924	0.52	0.34
102.00	Step bolts (ladder)	Yes	1.25	1.200	0.63	0.07	0.08	0.000	0.000	9.924	0.86	1.30
104.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	9.964	0.83	0.55
104.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	9.964	1.38	2.08
106.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.004	0.84	0.55
106.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.004	1.39	2.08
108.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.043	0.84	0.55
108.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.043	1.39	2.08
110.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.082	0.84	0.55
110.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.082	1.40	2.08
112.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.120	0.85	0.55
112.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.120	1.40	2.08
114.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.157	0.85	0.55
114.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.157	1.41	2.08
116.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.194	0.85	0.55
116.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.194	1.41	2.08
118.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.230	0.86	0.55
118.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.230	1.42	2.08
120.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.266	0.86	0.55
120.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.266	1.42	2.08
122.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.302	0.86	0.55
122.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.302	1.43	2.08
124.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.337	0.86	0.55
124.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.337	1.43	2.08
126.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.371	0.87	0.55
126.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.371	1.44	2.08
128.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.406	0.87	0.55
128.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.406	1.44	2.08
130.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.439	0.87	0.55
130.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.439	1.45	2.08
132.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.473	0.88	0.55
132.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.473	1.45	2.08
134.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.506	0.88	0.55
134.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.506	1.46	2.08
136.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.538	0.88	0.55

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

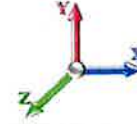


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 24

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
136.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.538	1.46	2.08
138.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.570	0.88	0.55
138.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.570	1.47	2.08
139.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	10.586	0.44	0.27
139.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	10.586	0.73	1.04
140.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	10.602	0.44	0.27
140.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	10.602	0.73	1.04
142.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.634	0.89	0.55
142.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.634	1.47	2.08
144.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.665	0.89	0.55
144.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.665	1.48	2.08
146.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.696	0.89	0.55
146.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.696	1.48	2.08
148.00	Safety Cable	Yes	2.00	1.200	0.38	0.06	0.08	0.000	0.000	10.726	0.90	0.55
148.00	Step bolts (ladder)	Yes	2.00	1.200	0.63	0.10	0.13	0.000	0.000	10.726	1.49	2.08
149.00	Safety Cable	Yes	1.00	1.200	0.38	0.03	0.04	0.000	0.000	10.741	0.45	0.27
149.00	Step bolts (ladder)	Yes	1.00	1.200	0.63	0.05	0.06	0.000	0.000	10.741	0.74	1.04
<b>Totals:</b>											<b>149.5</b>	<b>195.6</b>

## Calculated Forces

**Structure:** CT13075-A-SBA  
**Site Name:** New London  
**Height:** 149.00 (ft)  
**Base Elev:** 1.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** C  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** II

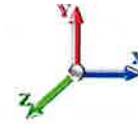
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 24

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-43.61	-8.52	0.00	-966.09	0.00	966.09	5451.60	1409.10	6760.13	6487.84	0.00	0.000	0.000	0.157
2.00	-43.01	-8.48	0.00	-949.05	0.00	949.05	5423.14	1397.60	6650.22	6400.90	0.00	-0.016	0.000	0.156
4.00	-42.42	-8.45	0.00	-932.09	0.00	932.09	5394.41	1386.10	6541.22	6314.20	0.01	-0.032	0.000	0.156
6.00	-41.83	-8.41	0.00	-915.19	0.00	915.19	5365.42	1374.60	6433.12	6227.76	0.03	-0.049	0.000	0.155
8.00	-41.24	-8.38	0.00	-898.37	0.00	898.37	5336.17	1363.10	6325.92	6141.58	0.05	-0.065	0.000	0.154
10.00	-40.67	-8.35	0.00	-881.61	0.00	881.61	5306.65	1351.60	6219.62	6055.68	0.09	-0.081	0.000	0.153
12.00	-40.09	-8.31	0.00	-864.92	0.00	864.92	5276.87	1340.10	6114.23	5970.05	0.12	-0.098	0.000	0.153
14.00	-39.52	-8.28	0.00	-848.29	0.00	848.29	5246.82	1328.60	6009.73	5884.71	0.17	-0.115	0.000	0.152
16.00	-38.96	-8.24	0.00	-831.74	0.00	831.74	5216.51	1317.10	5906.13	5799.67	0.22	-0.132	0.000	0.151
18.00	-38.39	-8.21	0.00	-815.25	0.00	815.25	5185.94	1305.60	5803.43	5714.93	0.28	-0.148	0.000	0.150
20.00	-37.84	-8.17	0.00	-798.84	0.00	798.84	5155.10	1294.09	5701.64	5630.50	0.34	-0.165	0.000	0.149
22.00	-37.29	-8.13	0.00	-782.50	0.00	782.50	5124.00	1282.59	5600.74	5546.38	0.42	-0.183	0.000	0.148
24.00	-36.74	-8.10	0.00	-766.23	0.00	766.23	5092.64	1271.09	5500.75	5462.60	0.50	-0.200	0.000	0.148
26.00	-36.19	-8.06	0.00	-750.04	0.00	750.04	5061.01	1259.59	5401.66	5379.14	0.59	-0.217	0.000	0.147
28.00	-35.66	-8.02	0.00	-733.93	0.00	733.93	5029.12	1248.09	5303.46	5296.03	0.68	-0.235	0.000	0.146
30.00	-35.12	-7.98	0.00	-717.90	0.00	717.90	4996.96	1236.59	5206.17	5213.26	0.78	-0.252	0.000	0.145
32.00	-34.59	-7.94	0.00	-701.94	0.00	701.94	4964.54	1225.09	5109.78	5130.86	0.89	-0.270	0.000	0.144
34.00	-34.07	-7.90	0.00	-686.07	0.00	686.07	4931.86	1213.59	5014.29	5048.81	1.01	-0.287	0.000	0.143
36.00	-33.54	-7.86	0.00	-670.27	0.00	670.27	4898.91	1202.09	4919.70	4967.14	1.13	-0.305	0.000	0.142
38.00	-33.03	-7.81	0.00	-654.56	0.00	654.56	4865.70	1190.58	4826.01	4885.85	1.27	-0.323	0.000	0.141
40.00	-32.52	-7.77	0.00	-638.93	0.00	638.93	4832.22	1179.08	4733.22	4804.95	1.40	-0.341	0.000	0.140
42.00	-32.01	-7.73	0.00	-623.39	0.00	623.39	4798.48	1167.58	4641.33	4724.44	1.55	-0.359	0.000	0.139
44.00	-31.51	-7.69	0.00	-607.92	0.00	607.92	4764.48	1156.08	4550.35	4644.34	1.71	-0.377	0.000	0.138
46.00	-31.01	-7.65	0.00	-592.55	0.00	592.55	4730.21	1144.58	4460.26	4564.64	1.87	-0.396	0.000	0.136
47.25	-30.70	-7.62	0.00	-582.99	0.00	582.99	4708.66	1137.39	4404.41	4515.05	1.97	-0.407	0.000	0.136
48.00	-30.37	-7.60	0.00	-577.28	0.00	577.28	4695.68	1133.08	4371.07	4485.37	2.04	-0.414	0.000	0.135
50.00	-29.50	-7.56	0.00	-562.07	0.00	562.07	4660.89	1121.58	4282.79	4406.52	2.22	-0.432	0.000	0.134
52.00	-28.64	-7.51	0.00	-546.96	0.00	546.96	4625.83	1110.08	4195.41	4328.11	2.40	-0.451	0.000	0.133
53.25	-28.10	-7.48	0.00	-537.57	0.00	537.57	4620.53	963.13	3684.59	3623.65	2.52	-0.462	0.000	0.156
54.00	-27.94	-7.46	0.00	-531.97	0.00	531.97	3810.68	959.44	3656.36	3600.32	2.59	-0.470	0.000	0.155
56.00	-27.52	-7.42	0.00	-517.04	0.00	517.04	3784.24	949.58	3581.60	3538.31	2.79	-0.490	0.000	0.153
58.00	-27.10	-7.38	0.00	-502.19	0.00	502.19	3757.53	939.72	3507.63	3476.56	3.00	-0.511	0.000	0.152
60.00	-26.68	-7.34	0.00	-487.44	0.00	487.44	3730.55	929.86	3434.42	3415.10	3.22	-0.531	0.000	0.150
62.00	-26.27	-7.29	0.00	-472.77	0.00	472.77	3703.32	920.01	3361.98	3353.92	3.45	-0.552	0.000	0.148
64.00	-25.87	-7.25	0.00	-458.18	0.00	458.18	3675.82	910.15	3290.32	3293.05	3.69	-0.572	0.000	0.146
66.00	-25.46	-7.21	0.00	-443.69	0.00	443.69	3648.05	900.29	3219.43	3232.47	3.93	-0.593	0.000	0.144
68.00	-25.06	-7.16	0.00	-429.28	0.00	429.28	3620.03	890.43	3149.31	3172.21	4.18	-0.614	0.000	0.142
70.00	-24.67	-7.12	0.00	-414.95	0.00	414.95	3591.74	880.57	3079.96	3112.27	4.44	-0.634	0.000	0.140
72.00	-24.27	-7.07	0.00	-400.72	0.00	400.72	3563.18	870.71	3011.39	3052.66	4.71	-0.655	0.000	0.138
74.00	-23.89	-7.03	0.00	-386.57	0.00	386.57	3534.36	860.86	2943.59	2993.38	4.99	-0.675	0.000	0.136
76.00	-23.50	-6.99	0.00	-372.50	0.00	372.50	3505.28	851.00	2876.56	2934.44	5.28	-0.696	0.000	0.134
78.00	-23.12	-6.94	0.00	-358.53	0.00	358.53	3475.93	841.14	2810.30	2875.86	5.58	-0.716	0.000	0.131
80.00	-22.75	-6.90	0.00	-344.64	0.00	344.64	3446.32	831.28	2744.81	2817.63	5.88	-0.737	0.000	0.129
82.00	-22.37	-6.86	0.00	-330.84	0.00	330.84	3416.44	821.42	2680.10	2759.78	6.19	-0.757	0.000	0.126
84.00	-22.00	-6.81	0.00	-317.12	0.00	317.12	3386.31	811.57	2616.15	2702.29	6.52	-0.777	0.000	0.124
86.00	-21.64	-6.77	0.00	-303.49	0.00	303.49	3355.90	801.71	2552.98	2645.19	6.85	-0.797	0.000	0.121
88.00	-21.28	-6.73	0.00	-289.95	0.00	289.95	3325.24	791.85	2490.58	2588.48	7.18	-0.817	0.000	0.118
90.00	-20.92	-6.68	0.00	-276.50	0.00	276.50	3294.31	781.99	2428.96	2532.16	7.53	-0.837	0.000	0.116

## Calculated Forces

**Structure:** CT13075-A-SBA

**Site Name:** New London

**Height:** 149.00 (ft)

**Base Elev:** 1.000 (ft)

**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H

**Exposure:** C

**Crest Height:** 0.00

**Site Class:** D - Stiff Soil

**Struct Class:** II

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92.00	-20.57	-6.64	0.00	-263.13	0.00	263.13	3263.11	772.13	2368.10	2476.25	7.89	-0.856	0.000	0.113
94.00	-20.22	-6.60	0.00	-249.85	0.00	249.85	3226.97	762.28	2308.02	2417.24	8.25	-0.875	0.000	0.110
96.00	-19.87	-6.55	0.00	-236.65	0.00	236.65	3185.24	752.42	2248.71	2354.81	8.62	-0.894	0.000	0.107
98.00	-19.34	-6.51	0.00	-223.54	0.00	223.54	3143.50	742.56	2190.17	2293.20	9.00	-0.913	0.000	0.104
100.00	-18.80	-6.46	0.00	-210.53	0.00	210.53	3101.77	732.70	2132.40	2232.40	9.38	-0.931	0.000	0.100
100.75	-18.61	-6.44	0.00	-205.68	0.00	205.68	1863.03	495.32	1461.74	1364.60	9.53	-0.938	0.000	0.161
102.00	-18.45	-6.42	0.00	-197.63	0.00	197.63	1853.75	491.21	1437.59	1346.46	9.78	-0.949	0.000	0.157
104.00	-18.21	-6.38	0.00	-184.79	0.00	184.79	1838.67	484.64	1399.38	1317.52	10.18	-0.974	0.000	0.150
106.00	-17.97	-6.34	0.00	-172.04	0.00	172.04	1823.34	478.06	1361.69	1288.68	10.60	-0.998	0.000	0.144
108.00	-17.74	-6.30	0.00	-159.36	0.00	159.36	1807.74	471.49	1324.51	1259.97	11.02	-1.021	0.000	0.136
110.00	-17.50	-6.26	0.00	-146.76	0.00	146.76	1791.88	464.92	1287.84	1231.38	11.45	-1.044	0.000	0.129
112.00	-17.27	-6.22	0.00	-134.24	0.00	134.24	1775.75	458.35	1251.69	1202.91	11.89	-1.065	0.000	0.122
114.00	-17.04	-6.18	0.00	-121.80	0.00	121.80	1759.36	451.78	1216.05	1174.59	12.34	-1.085	0.000	0.114
116.00	-14.40	-5.39	0.00	-109.44	0.00	109.44	1742.70	445.20	1180.93	1146.42	12.80	-1.105	0.000	0.104
118.00	-14.18	-5.35	0.00	-98.66	0.00	98.66	1725.78	438.63	1146.32	1118.40	13.27	-1.123	0.000	0.097
120.00	-13.96	-5.31	0.00	-87.97	0.00	87.97	1708.60	432.06	1112.22	1090.54	13.74	-1.140	0.000	0.089
122.00	-13.75	-5.27	0.00	-77.36	0.00	77.36	1691.15	425.49	1078.65	1062.86	14.23	-1.155	0.000	0.081
124.00	-13.53	-5.23	0.00	-66.83	0.00	66.83	1673.44	418.92	1045.58	1035.35	14.71	-1.170	0.000	0.073
126.00	-8.72	-3.25	0.00	-56.38	0.00	56.38	1655.47	412.34	1013.03	1008.03	15.21	-1.183	0.000	0.061
128.00	-8.52	-3.21	0.00	-49.88	0.00	49.88	1637.23	405.77	981.00	980.90	15.70	-1.194	0.000	0.056
130.00	-8.32	-3.17	0.00	-43.46	0.00	43.46	1618.72	399.20	949.48	953.97	16.21	-1.205	0.000	0.051
132.00	-8.13	-3.13	0.00	-37.13	0.00	37.13	1599.96	392.63	918.47	927.26	16.71	-1.215	0.000	0.045
134.00	-7.94	-3.09	0.00	-30.88	0.00	30.88	1580.93	386.05	887.98	900.76	17.22	-1.223	0.000	0.039
136.00	-7.75	-3.05	0.00	-24.70	0.00	24.70	1561.63	379.48	858.01	874.48	17.74	-1.231	0.000	0.033
138.00	-7.56	-3.01	0.00	-18.61	0.00	18.61	1542.08	372.91	828.54	848.44	18.26	-1.237	0.000	0.027
139.00	-4.14	-1.78	0.00	-15.60	0.00	15.60	1532.20	369.62	814.01	835.51	18.51	-1.239	0.000	0.021
139.00	-4.14	-1.78	0.00	-15.60	0.00	15.60	1044.08	276.90	609.10	570.00	18.51	-1.239	0.000	0.031
140.00	-4.08	-1.76	0.00	-13.82	0.00	13.82	1038.46	274.43	598.30	561.85	18.77	-1.241	0.000	0.029
142.00	-3.95	-1.72	0.00	-10.30	0.00	10.30	1027.02	269.50	577.00	545.62	19.30	-1.246	0.000	0.023
144.00	-3.83	-1.69	0.00	-6.85	0.00	6.85	1015.32	264.58	556.09	529.46	19.82	-1.250	0.000	0.017
146.00	-3.71	-1.65	0.00	-3.48	0.00	3.48	1003.36	259.65	535.56	513.40	20.34	-1.253	0.000	0.011
148.00	-0.05	-0.02	0.00	-0.02	0.00	0.02	991.13	254.72	515.42	497.45	20.87	-1.254	0.000	0.000
149.00	0.00	-0.02	0.00	0.00	0.00	0.00	984.92	252.25	505.50	489.51	21.13	-1.254	0.000	0.000

## Final Analysis Summary

<b>Structure:</b> CT13075-A-SBA	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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### Reactions

Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)
1.2D + 1.0W 126 mph Wind	42.0	0.00	52.30	0.00	0.00	4786.63
0.9D + 1.0W 126 mph Wind	42.0	0.00	39.22	0.00	0.00	4738.24
1.2D + 1.0Di + 1.0Wi 50 mph Wind	10.6	0.00	71.82	0.00	0.00	1154.77
1.2D + 1.0Ev + 1.0Eh	0.8	0.00	54.14	0.00	0.00	112.56
0.9D + 1.0Ev + 1.0Eh	0.8	0.00	41.02	0.00	0.00	111.47
1.0D + 1.0W 60 mph Wind	8.5	0.00	43.61	0.00	0.00	966.09

### Max Stresses

Load Case	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Elev (ft)	Stress Ratio
1.2D + 1.0W 126 mph Wind	-19.91	-31.98	0.00	-1020.5	0.00	-1020.5	1863.03	495.32	1461.74	1364.60	100.75	0.763
0.9D + 1.0W 126 mph Wind	-14.35	-31.50	0.00	-1003.9	0.00	-1003.9	1863.03	495.32	1461.74	1364.60	100.75	0.747
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-71.82	-10.64	0.00	-1154.7	0.00	-1154.7	5451.60	1409.1	6760.13	6487.84	0.00	0.191
1.2D + 1.0Ev + 1.0Eh	-23.22	-0.84	0.00	-28.26	0.00	-28.26	1863.03	495.32	1461.74	1364.60	100.75	0.033
0.9D + 1.0Ev + 1.0Eh	-17.60	-0.82	0.00	-27.92	0.00	-27.92	1863.03	495.32	1461.74	1364.60	100.75	0.030
1.0D + 1.0W 60 mph Wind	-18.61	-6.44	0.00	-205.68	0.00	-205.68	1863.03	495.32	1461.74	1364.60	100.75	0.161

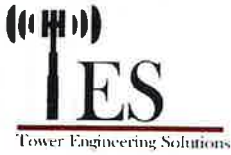
## Base Plate Summary

<b>Structure:</b> CT13075-A-SB	<b>Code:</b> TIA-222-H	8/30/2023
<b>Site Name:</b> New London	<b>Exposure:</b> C	
<b>Height:</b> 149.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 1.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Struct Class:</b> II	Page: 63
<b>Topography:</b> 1		



Reactions	Base Plate	Anchor Bolts
Original Design	<b>Yield (ksi):</b> 60.00	<b>Bolt Circle:</b> 64.88
<b>Moment (kip-ft):</b> 5442.50	<b>Width (in):</b> 65.38	<b>Number Bolts:</b> 20.00
<b>Axial (kip):</b> 53.57	<b>Style:</b> Clipped	<b>Bolt Type:</b> 2.25" 18J
<b>Shear (kip):</b> 49.90	<b>Polygon Sides:</b> 8.00	<b>Bolt Diameter (in):</b> 2.25
Analysis (1.2D + 1.0W)	<b>Clip Length (in):</b> 14.00	<b>Yield (ksi):</b> 75.00
<b>Moment (kip-ft):</b> 4786.63	<b>Effective Len (in):</b> 8.93	<b>Ultimate (ksi):</b> 100.00
<b>Axial (kip):</b> 52.30	<b>Moment (kip-in):</b> 594.74	<b>Arrangement:</b> Clustered
<b>Shear (kip):</b> 41.99	<b>Allow Stress (ksi):</b> 81.00	<b>Cluster Dist (in):</b> 6.00
	<b>Applied Stress (ksi):</b> 52.65	<b>Start Angle (deg):</b> 45.00
	<b>Stress Ratio:</b> 0.65	<b>Compression</b>
		<b>Force (kip):</b> 179.68
		<b>Allowable (kip):</b> 268.39
		<b>Ratio:</b> 0.67
		<b>Tension</b>
		<b>Force (kip):</b> 174.45
		<b>Allowable (kip):</b> 243.75
		<b>Ratio:</b> 0.72





# Monopole Mat Foundation Design

Date

9/5/2023

Customer Name:	Verizon	TIA Standard:	TIA-222-H
Site Name:		Structure Height (Ft.):	149
Site Number:	CT13075-A-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	141958	Engineer Login ID:	

**Foundation Info Obtained from:**

Drawings/Calculations

**Structure Type:**

Monopole

**Analysis or Design?**

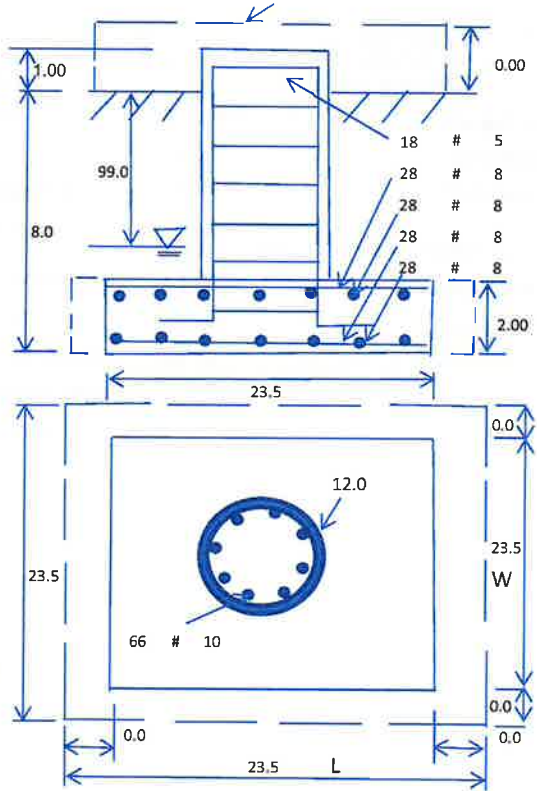
Analysis

**Base Reactions (Factored):**

Axial Load (Kips):	52.3	Shear Force (Kips):	42.0
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4786.6

**Foundation Geometries:**

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	12.0	Depth of Base BG (ft.):	8.0
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	2.00
Length of Pad (ft.):	23.5	Width of Pad (ft.):	23.5
Final Length of pad (ft)	23.5	Final width of pad (ft):	23.5



**Material Properties and Rebar Info:**

Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	5	
Qty. of Vertical Rebars:	66	Tie Spacing (in):	6.0	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8	
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):	28	Qty. of Rebar in Pad (W):	28	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	28	Qty. of Rebar in Pad (W):	28	

**Soil Design Parameters:**

Soil Unit Weight (pcf):	105.0	Soil Buoyant Weight:	50.0	Pcf
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf
Ultimate Bearing Pressure (psf):	20000	Ultimate Skin Friction:	0	Psf
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing (Y/N):	No	
Consider soil hor. resist. for OTM.:	Yes	Reduction factor on the maximum soil bearing pressure:	1.00	
		Angle from Top of Pad:	30	
		Angle from Bottm of Pad:	25	
		Angle from Bottm of Pad:	25	

**Foundation Analysis and Design:**

Uplift Strength Reduction Factor:	0.75	Compression Strength Reduction Factor:	0.75
Total Dry Soil Volume (cu. Ft.):	2634.92	Total Dry Soil Weight (Kips):	276.67
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	276.67	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	1896.18	Total Dry Concrete Weight (Kips):	284.43
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	284.43	Total Vertical Load on Base (Kips):	613.39

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	4393	<	Allowable Factored Soil Bearing (psf):	15000	0.29	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	6548.1	>	Design Factored Momont (kips-ft):	4888	0.75	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.34					OK!

**Check the capacities of Reinforcing Concrete:**

Strength reduction factor (Flexure and axial tension):	0.90	Strength reduction factor (Shear):	0.75
Strength reduction factor (Axial compression):	0.65	Wind Load Factor on Concrete Design:	1.00

Load/  
Capacity  
Ratio

**(1) Concrete Pier:**

Vertical Steel Rebar Area (sq. in./each):	1.27	Tie / Stirrup Area (sq. in./each):	0.31		
Calculated Moment Capacity (Mn,Kips-Ft):	24825.7	> Design Factored Moment (Mu, Kips-F	5080.6	0.20	OK!
Calculated Shear Capacity (Kips):	2259.3	> Design Factored Shear (Kips):	42.0	0.02	OK!
Calculated Tension Capacity (Tn, Kips):	4526.3	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	28645.5	> Design Factored Axial Load (Pu Kips):	52.3	0.00	OK!
Moment & Axial Strength Combination:	0.20	OK! Check Tie Spacing (Design/Required):		0.5	OK!
Pier Reinforcement Ratio:	0.005	Reinforcement Ratio is satisfied per ACI			

**(2) Concrete Pad:**

One-Way Design Shear Capacity (L-Direction, Kips):	548.4	> One-Way Factored Shear (L-D. Kips):	241.2	0.44	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	548.4	> One-Way Factored Shear (W-D., Kips)	241.2	0.44	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	415.8	> One-Way Factored Shear (C-C, Kips):	237.4	0.57	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0038	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0038		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	1971.7	> Moment at Bottom ( L-Dir. K-Ft):	885.1	0.45	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	1971.7	> Moment at Bottom ( W-Dir. K-Ft):	885.1	0.45	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	2733.3	> Moment at Bottom ( C-C Dir. K-Ft):	1251.7	0.46	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0038	OK! Upper Steel Reinf. Ratio (W-Dir. ):	0.0038		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	1971.7	> Moment at the top (L-Dir K-Ft):	323.6	0.16	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	1971.7	> Moment at the top (W-Dir K-Ft):	323.6	0.16	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	2733.3	> Moment at the top (C-C Dir. K-Ft):	332.3	0.12	OK!

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

Moment transferred by punching shear:	1914.6	k-ft.	Max. factored shear stress $v_{u,CD}$ :	0.9	Psi
Max. factored shear stress $v_{u,AB}$ :	7.9	Psi	Factored shear Strength $\phi v_n$ :	189.7	Psi
Max. factored shear stress $v_u$ :	7.9	Psi	Check Usage of Punching Shear Capacity:	0.04	OK!

**(4) Check Bending Capacity of the Pad Within the Effective Slab Width:**

Overturning moment to be transferred by flexure:	1436.0	k-ft.	Effective Width for resisting OT moment:	18.0	ft.
Calculated number of Rebar in Effective width:	22		Actual number of Rebar in Effective width:	22	
Steel Pad Moment Capacity ( L-Direc. Kips-ft):	1547.8	k-ft.	Check Usage of the Flexure Capacity:	0.93	OK!





**TES**

**Tower Engineering Solutions**  
 1320 CUMMINS DRIVE, SUITE 500  
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 BUCKINGHAM, VA 22834  
 (800) 487-5117

TES SBA #  
**141958**

CUSTOMER SITE NO  
**CT13075-A-SBA**  
 CUSTOMER SITE NAME  
**NEW LONDON**  
**1204 PLEASANT VALLEY ROAD NORTH**  
**GROTON, CT 06340**

DATE: 07/23  
 DESCRIPTION: LU 09/09/23  
 BY: [Signature]  
 CHECKED BY: [Signature]

SHEET TITLE:  
**BILL OF MATERIALS**

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SHEET NUMBER: **BOM**  
 REV #: **0**

QUANTITY REQUIRED	QUANTITY PROVIDED	PART NUMBER	DESCRIPTION	LENGTH	SHEET LIST	PIECE WEIGHT	WEIGHT (lb)	NOTES
3	3		MATERIAL & HARDWARE GROUND ROD 5/8" X 10'-0" & #2 AWG SOLID BARE TINNED COPPER CONDUCTOR WIRE LENGTH 20 FT EA		RND-1			
5	5		COATING LANCO HENRY 287 WHITE ACRYLIC ELASTOMERIC COATING AND SEALER OR EQUIV (GALLON)		RND-1, RBL-1			PROVIDED BY CONTRACTOR
			(Note: Please note this set of drawings is for installation and assembly only. Fabrication Detail Drawings are not provided and must be completed by the steel fabricator selected. TES can provide the Fabrication Detail Drawings for an additional fee)					
			NOTE: ALL MATERIALS REQUIRED FOR FOUNDATION MODIFICATIONS THAT ARE NOT LISTED IN THE BILL OF MATERIALS WILL BE PROVIDED BY CONTRACTOR. REFERENCE MODIFICATION SHEETS.					
			NOTE: ALL MATERIALS WHICH WERE LISTED IN THE BOM ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.					
						TOTAL WEIGHT (lb) =		PAGE 1 OF 1



5900 BROKEN SOUND PARKWAY, NW  
 BRICA TATION, FL 33487  
 (813) 487-5111

141958  
 CUSTOMER SITE NO  
 CT13075-A-SBA  
 CUSTOMER SITE NAME  
 NEW LONDON  
 1294 PEASE VALLEY ROAD NORTH  
 GROTON, CT 06340

DESIGNED BY: LU  
 CHECKED BY: JIM/AD  
 DATE: 09/07/23

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REV # GN-1 0

TABLE 8.2 NUT ROTATION FROM SNUG-TIGHT CONDITION FOR TURN-OF-NUT PRETENSIONING<sup>a,b</sup>

BOLT LENGTH	DISPOSITION OF OUTER FACE OF BOLTED PARTS	
	BOTH FACES NORMAL TO BOLT AXIS	BOTH FACES SLOPED NORMAL TO BOLT AXIS
NOT MORE THAN 4d <sub>b</sub>	1/3 TURN	2/3 TURN
MORE THAN 4d <sub>b</sub> BUT NOT MORE THAN 8d <sub>b</sub>	1/2 TURN	2/3 TURN
MORE THAN 8d <sub>b</sub> BUT NOT MORE THAN 12d <sub>b</sub>	2/3 TURN	5/6 TURN

<sup>a</sup> NUT ROTATION IS RELATIVE TO 90° ROTATIONS OF THE ELEMENT (NUT OR BOLT) BEING TURNED. FOR REQUIRED NUT ROTATIONS OF 1/2 TURN AND 1/3 TURN, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES. FOR REQUIRED NUT ROTATIONS OF 2/3 TURN AND MORE, THE TOLERANCE IS PLUS OR MINUS 45 DEGREES.

<sup>b</sup> APPLICABLE ONLY TO JOINTS IN WHICH ALL MATERIAL WITHIN THE GRIP IS STEEL.

<sup>c</sup> WHEN THE BOLT LENGTH EXCEEDS 17d<sub>b</sub>, THE REQUIRED NUT ROTATION SHALL BE DETERMINED BY ACTUAL TESTING IN A SUITABLE TENSION CALIBRATOR THAT SIMULATES THE CONDITIONS OF SMOOTH-FITTING STEEL.

<sup>d</sup> DEVELOPED WASHERS NOT USED.

SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS, JUNE 30, 2004  
 RESEARCH COUNCIL ON STRUCTURAL CONNECTIONS

INSTALLATION TORQUE REQUIRED FOR HOLLOW BOLTS AND AXIAL BOLTS:

1. 1/2" HOLLOW BOLT: 59 FT-LBS
2. 3/4" HOLLOW BOLT: 140 FT-LBS
3. 1" HOLLOW BOLT: 271 FT-LBS
4. 1 1/4" HOLLOW BOLT: 280 FT-LBS

FIELD HOT WORK PLAN NOTES:

- FOLLOWING GUIDELINES SHALL BE COMPLIED WITH:
1. CONTRACTOR'S RESPONSIBILITY TO COMPLETE A HOT WORK PLAN IF AWARDED PER CUSTOMER SPECIFICATIONS (GUIDELINES FOR WELDING, CUTTING & SPARK PRODUCING WORK).
  2. HAVE A FIRE PLAN APPROVED BY THE CUSTOMER AND THEIR SAFETY MANAGEMENT DEPT.
  3. CONTRACTOR MUST OBTAIN THE CONTACT INFO OF THE LOCAL FIRE DEPARTMENT AND THE 911 ADDRESS OF THE TOWER SITE BEFORE CONSTRUCTION.
  4. CONTRACTOR SHALL MAKE SURE THAT CELL PHONE COVERAGE IS AVAILABLE IN THE TOWER SITE. IF CELL COVERAGE IS NOT AVAILABLE, AN IMMEDIATE AVAILABLE MEANS OF DIRECT COMMUNICATION WITH THE FIRE DEPARTMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION START.
  5. ALL CONSTRUCTION SHALL BE PERFORMED UNDER WIND SPEED LESS THAN 10 MPH ON THE GROUND LEVEL. IF WIND SPEED INCREASES, CONTRACTOR MUST DETERMINE IF CONSTRUCTION SHALL BE DISCONTINUED.
  6. FIRE SUPPRESSION EQUIPMENT MUST BE MADE AVAILABLE ON SITE AND READY TO USE.
  7. CONTRACTOR SHALL ASSIGN A FIRE WATCHER TO PERFORM FIRE-FIGHTING DUTIES.
  8. ALL WELDERS SHALL BE AWS OR STATE CERTIFIED. THEY MUST ALSO BE EXPERIENCED IN WELDING ON GALVANIZED MATERIALS.
  9. IF IT IS POSSIBLE, ALL EXISTING COAX NEAR WELDING AREA SHALL BE TEMPORARILY MOVED AWAY FROM THE WELDING AREA BEFORE WELDING THE PLATES.
  10. PLEASE REPORT ANY FIELD ISSUE TO TES @ 972-483-0607.

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH THE AWS/TW/VEA-222-H, ANSI/ASSP A10-48, 2022 CSBC, AND ANY OTHER GOVERNING BUILDING CODES AND OSHA SAFETY REGULATIONS.
2. ALL WORK INDICATED ON THE DRAWINGS SHALL BE PERFORMED BY QUALIFIED CONTRACTORS EXPERIENCED IN TELECOMMUNICATIONS TOWER, POLE AND FOUNDATION CONSTRUCTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND FABRICATION OF ALL MISCELLANEOUS PARTS (SUCH AS SHIMS), TEMPORARY SUPPORTS, AND CURBS, ETC., PER ANSI/ASSP A10-48, TO COMPLETE THE ASSEMBLY AS SHOWN IN THE DRAWINGS. CONTRACTOR SHALL PROCEED WITH THE INSTALLATION WORK CAREFULLY SO THE WORK WILL NOT DAMAGE ANY EXISTING CABLE, EQUIPMENT OR THE STRUCTURE.
4. THE USE OF GAS TIGHT OR WELDER, ARE NOT ALLOWED ON ANY TOWER STRUCTURE WITHOUT THE CONSENT OF THE TOWER OWNER.
5. GENERALLY THE CONTRACTOR IS RESPONSIBLE TO CONDUCT AN ON-SITE VSI SURVEY OF THE JOB SITE AFTER AWAY, AND REPORT ANY ISSUES WITH THE SITE TO TES BEFORE PROCEEDING CONSTRUCTION.

FABRICATION

1. ALL STEEL SHALL MEET OR EXCEED THE MINIMUM STRENGTH AS SPECIFIED IN THE DRAWINGS IF YIELD STRENGTH WAS NOT NOTED IN THE DRAWINGS. CONTRACTORS SHALL CONTACT TELS FOR DIRECTION.
2. ALL FIELD CUT EDGES SHALL BE GROUND SMOOTH. ALL FIELD CUT AND DRILLED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINCA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

WELDING

1. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS AND IN ACCORDANCE WITH THE LATEST EDITION OF THE AWS WELDING CODE D11.1, A1: F1-HYDROGEN, MATCHING FILLER METAL, PER AWS D11.1, UND, (F-TX) UNITS NOTED OTHERWISE).
2. PRIOR TO FIELD WELDING GALVANIZED MATERIAL, CONTRACTOR SHALL GRIND OFF GALVANIZING APPROX. 0.5" BEYOND THE PROPOSED FIELD WELD SURFACES.
3. ALL WELDS SHALL BE INSPECTED VISUALLY. A MINIMUM OF 75% OF WELDS SHALL BE INSPECTED WITH DTI PENETRAMETER OR MAGNETIC PARTICLE TO MEET THE ACCEPTANCE CRITERIA OF AWS D11.1. 100% OF WELDS SHALL BE INSPECTED IF DEFECTS ARE FOUND.
4. WELD INSPECTIONS SHALL BE PERFORMED BY AN AWS CERTIFIED INSPECTOR.
5. AFTER INSPECTION, ALL FIELD WELDED SURFACES SHALL BE REPAIRED WITH A MINIMUM OF TWO COATS OF ZINCA COLD GALVANIZING COMPOUND PER ASTM A780 AND MANUFACTURER'S RECOMMENDATIONS.

BOLTED ASSEMBLIES AND TIGHTENING OF CONNECTIONS

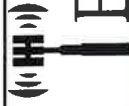
1. ALL HIGH STRENGTH BOLTS SHALL CONFORM TO THE PROVISIONS OF THE SPECIFICATIONS FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS AS APPROVED BY THE RCSC.
2. FLANGE BOLTS SHALL BE TIGHTENED BY THE "TURN-OF-THE-NUT" METHOD. THE FOLLOWING TABLE SHOULD BE USED FOR THE "TURN-OF-THE-NUT" LIGHTENING.
3. SPACED BOLTS AND ALL OTHER BOLTS IN BEARING TYPE CONNECTIONS SHALL BE TIGHTENED TO A SNUG TIGHT CONDITION.
4. THE SNUG TIGHT CONDITION IS DEFINED AS THE TIGHTNESS ATTAINED BY EITHER A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF AN IMPROPERLY WITH AN ORDINARY SPAD WRENCH TO BRING THE CONNECTED PILES INTO FIRM CONTACT.
5. THE TIGHTENING SHALL BE INSTALLED PER CC 15R 63.60 INSTRUCTIONS.

VERIFICATION AND INSPECTION

1. IF APPLICABLE, VERIFICATION INSPECTION TO BE PERFORMED SHALL BE IN ACCORDANCE TO IRC 2021 SECTION 1705.2 FOR STEEL CONSTRUCTION & TABLE 1705.3 FOR CONCRETE CONSTRUCTION.

POST-INSTALLED EPOXY INJECTED ANCHOR BOLTS:

1. CONCRETE MUST BE A MINIMUM OF 28 DAYS OLD.
2. FOLLOW MANUFACTURER'S REQUIREMENTS FOR CURE TIME VS. AMBIENT TEMPERATURE.
3. DRILL HOLE TO REQUIRED DIAMETER AND DEPTH. ALL WATER, DIRT, OIL, DEBRIS, GREASE OR DUST MUST BE REMOVED FROM EACH CORE HOLE. FOLLOW MANUFACTURER'S RECOMMENDATION FOR CORRECT TYPE OF CORE BIT. AVOID DAMAGING EXISTING REINFORCING STEEL OR OTHER EMBEDDED ITEMS. NOTIFY TES ENGINEERING IF Voids IN THE CONCRETE, REINFORCING STEEL OR OTHER EMBEDDED ITEMS ARE ENCOUNTERED. STOP CORING IMMEDIATELY IF THIS OCCURS.
4. A HOLE ROUGHENING DEVICE FROM EITHER HILTI OR ALLFASTENERS SHALL BE USED WITH ALL HOLES. FOLLOW ALL MANUFACTURER'S RECOMMENDED CORING AND INSTALLATION INSTRUCTIONS.
5. AFTER CORING AND ROUGHENING, FLUSH EACH HOLE WITH RUNNING WATER TO REMOVE ANY SLURRY OR DEBRIS. REMOVE ALL WATER FROM THE HOLE BY MECHANICAL PUMPING.
6. BRUSH EACH HOLE WITH AN APPROPRIATE SIZED NYLON BRUSH AND FLUSH WITH RUNNING WATER A SECOND TIME. REMOVE ALL WATER FROM THE HOLE.
7. AFTER THE SECOND WATER FLUSH BRUSH THE HOLE AGAIN WITH THE APPROPRIATE SIZED NYLON BRUSH.
8. BLOW EACH HOLE WITH COMPRESSED AIR TWO TIMES MINIMUM.
9. CONFIRM THAT EACH HOLE IS PROPERLY ROUGHENED AND DRY.
10. NO EPOXY INJECTION SHALL TAKE PLACE IN RAINY CONDITIONS.
11. EPOXY SHOULD BE VISIBLE AT THE TOP OF THE CORE HOLE AFTER INSTALLATION.
12. CONTRACTOR TO SUPPLY ONE PHOTO OF EACH ROUGHENED AND CLEANED HOLE IN CLOSEOUT PHOTO PACKAGE.



**Tower Engineering Solutions**  
 1170 GRIFFINWAY DRIVE, SUITE 800  
 HOUSTON, TX 77036  
 PHONE: (281) 245-0807



**SBA**  
 5900 BROKEN SOUND PARKWAY, NW  
 BOCA RATON, FL 33487  
 (800) 487 5117

FIS. NO. 141958  
 CUSTOMER SITE NO.  
 CT13075-A-SBA

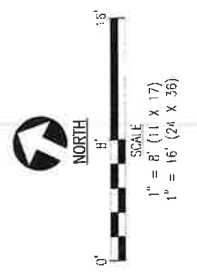
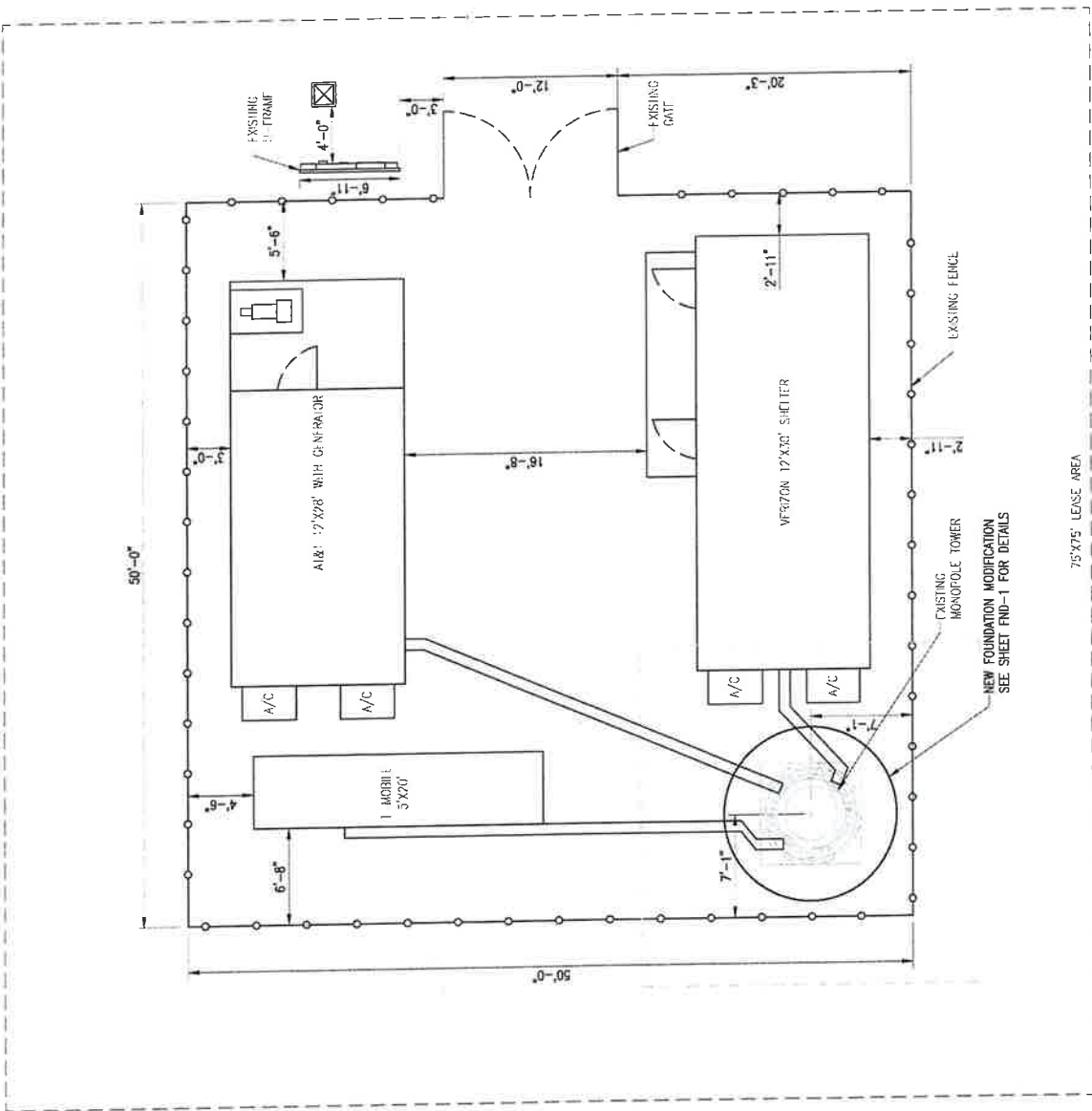
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 NEW LONDON  
 1284 PLEASANT VALLEY ROAD NORTH  
 GARDEN, CT 06840

DRAWN BY: LU	CHECKED BY: JIM/AD
REV	DESCRIPTION
1	AS PER ISSUE
2	
3	
4	

DATE: 09/07/23  
 SHEET TITLE:  
**SITE PLAN**

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SHEET NUMBER: **SP-1**  
 REV: **0**





Tower Engineering Solutions  
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 RINGG, TX 75006  
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5900 BROKEN SOUND PARKWAY, NW  
 BOCA RATON, FL 33487  
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TEX. REG. NO.  
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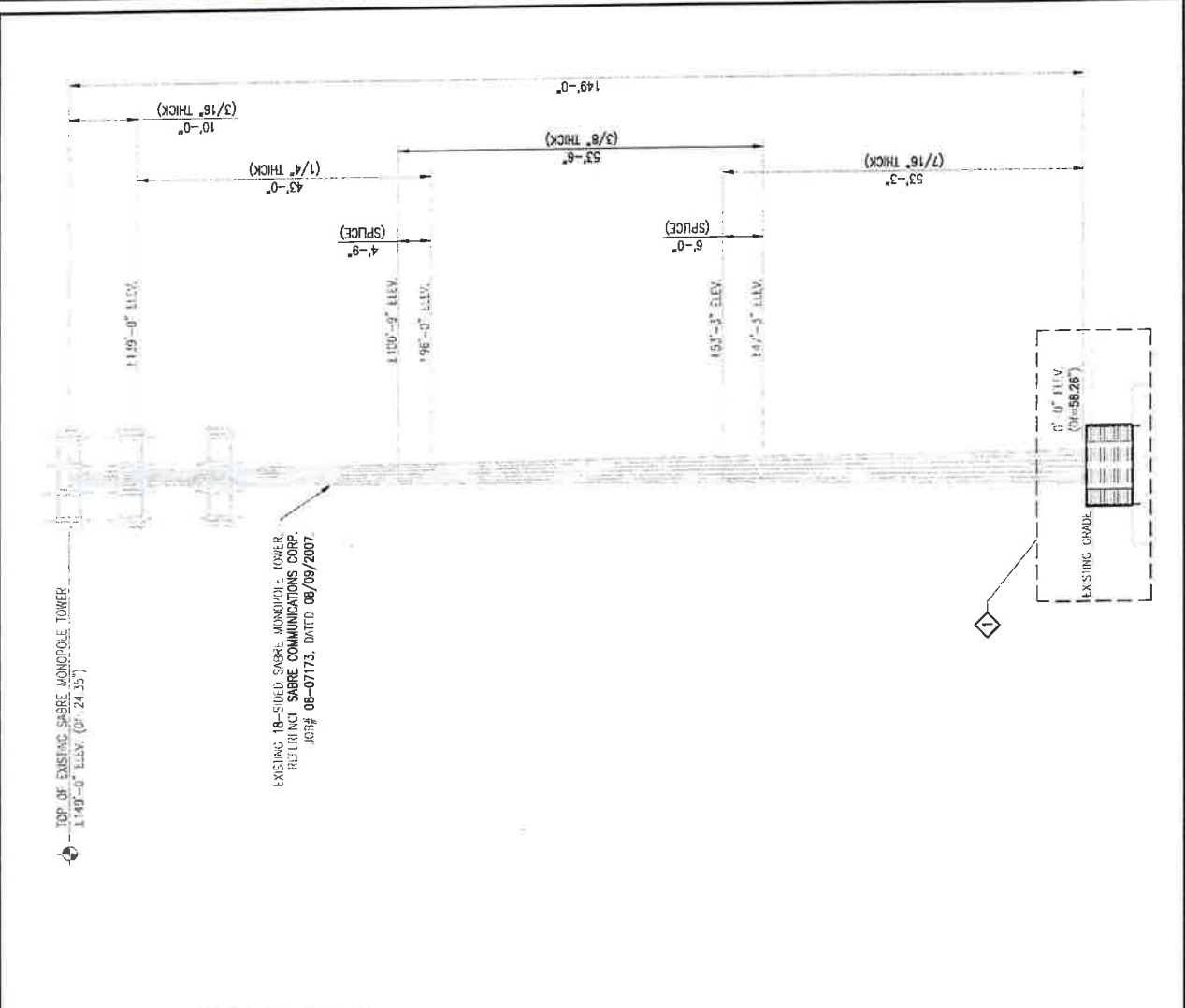
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 NEW LONDON  
 1284 PLEASANT VALLEY ROAD NORTH  
 BRIDGEON, CT 06640

DRAWN BY: LU  
 CHECKED BY: JIM/AD  
 REV: 05/20/10  
 DATE: 08/09/2007

TOWER PROFILE

SHEET TITLE

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TOP OF EXISTING SABRE MONOPOLE TOWER  
 1140'-0" ELEV. (07-24-07)

EXISTING 18-SIDED SABRE MONOPOLE TOWER  
 REF: RBL-101 SABRE COMMUNICATIONS CORP.  
 JOB# 08-07173. DATED 08/09/2007.

EXISTING CHAUL  
 0'-0" ELEV.  
 (71'-56.26')

NOTES:  
 1. TEMPORARILY RELOCATE ANY EXISTING COAX ATTACHED TO THE MONOPOLE AND ANY OTHER MEMBERS WITHIN OBSTRUCTION WITH THE PROPOSED MODIFICATION MAY OCCUR.  
 2. TEMPORARY RELOCATION OF EXISTING EQUIPMENT AROUND THE FOUNDATION MAY BE REQUIRED DURING CONSTRUCTION.

- SCOPE OF WORK**
1. INSTALL NEW FOUNDATION MODIFICATION. SEE SHEETS FND-1 AND RBL-1 FOR DETAILS. NOTE: ENCASE EXISTING ICE BRIDGE POSTS AS REQUIRED.
  2. APPLY FOUNDATION COATING
  3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEAN-UP, REMOVAL AND DISPOSAL OF EXCESS MATERIALS USED AND REMOVED FROM THE STRUCTURE AT THE COMPLETION OF THE PROJECT.



PHOTO 1

- FOUNDATION COATING NOTES:**
1. THE COATING MATERIALS SHALL BE LANCOW WHITE ACRYLIC ELASTOMERIC COATING AND SEALER, OR HYDRO ARMOR COATING.
  2. THE COATING CAN BE PLACED AT LEAST (2) DAYS AFTER THE PLACEMENT OF THE CONCRETE FOR FOUNDATION REINFORCEMENT, AND MINIMUM (4) DAYS FOR NEW FOUNDATION CONSTRUCTION.
  3. THE CONCRETE SURFACE SHALL BE CLEAN AND DRY PRIOR TO THE APPLICATION OF THE COATING.
  4. THE COATING SHALL BE APPLIED TO ALL THE SURFACES OF THE CONCRETE ABOVE THE GROUND AND 6" BELOW THE GRADE SURFACE IF APPLICABLE.
  5. MINIMUM 30 MILS COATING IS REQUIRED.
  6. APPLY COLD GALVANIZE AT LEAST 2'-3" ABOVE FOUNDATION.









Colliers Engineering & Design CT, PC  
1055 Washington Boulevard  
Stamford, CT 06901  
203.324.0800  
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## Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10206270  
Colliers Engineering & Design CT, PC Project #: 23777035

July 10, 2023

### Site Information

Site ID: 5000248045-VZW / GROTON 2 CT  
Site Name: GROTON 2 CT  
Carrier Name: Verizon Wireless  
Address: 1294 Pleasant Valley Rd North  
Groton, Connecticut 06430  
New London County  
Latitude: 41.399972°  
Longitude: -72.079222°

### Structure Information

Tower Type: 150-Ft Monopole  
Mount Type: 12.00-Ft Platform

FUZE ID # 17123920

### Analysis Results

Platform: 63.3% Pass\*

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

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

**Included at the end of this MA report  
Available & Submitted via portal at <https://pmi.vzwsmart.com>**

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

Report Prepared By: Vincent DiGirolamo



07/10/2023

**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: 674919 Dated February 22, 2021
Previous Mount Modification Report	Maser Consulting Connecticut Project #: 20777642A Dated April 15, 2021
Post Modification Inspection	Maser Consulting Connecticut Project #: 20777642A Dated March 30, 2022
Mount Mapping Report	Hudson Design Group Site ID: 467245 Dated February 11, 2021
Filter Add Scope	Provided by Verizon Wireless

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (DSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : 130 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: II Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, $K_e$ : 0.995
Seismic Parameters:	$S_s$ : 0.191 g $S_1$ : 0.053 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): 30 mph Maintenance Load, $L_v$ : 250 lbs. Maintenance Load, $L_m$ : 500 lbs.
Analysis Software:	RISA-3D (V17)

**Final Loading Configuration:**

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

Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
147.50	148.00	4	Kaelus	BSF0020F3V1-1	Added
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	CBRS RRH - RT4401-48A	
		3	Samsung	B5/B13 RRH-BR04C	
		3	JMA Wireless	MX06FRO660-02	
		3	JMA Wireless	MX10FRO660	
		3	Samsung	MT6407-77A	
		1	Raycap	RHSDC-3315-PF-48	
		1	Raycap	RHSDC-3315-PF-48*	
	149.00	3	Antel	BXA-80063/4	

\*Equipment is flush mounted directly to the Monopole. They are not mounted on the platform mount and are not included in this mount analysis.

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 Colliers Engineering & Design CT, PC 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 Colliers Engineering & Design CT, PC to verify deviation will not adversely impact the analysis.
2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design 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 Colliers Engineering & Design CT, PC.

**Analysis Results:**

Component	Utilization %	Pass/Fail
Face Horizontal	12.4	Pass
Standoff Horizontal	28.0	Pass
Corner Plate	36.6	Pass
Platform Crossmember	63.3	Pass
Grating Support	42.3	Pass
Mount Pipe	39.0	Pass
Cross Arm Plate	25.9	Pass
Kicker	12.3	Pass
Support Rail	16.0	Pass
Support Rail Corner Bracket	42.1	Pass
Mount Connection	30.1	Pass
<b>Structure Rating – (Controlling Utilization of all Components)</b>		<b>63.3%</b>

**BASELINE mount weight per SBA agreement: 1,178.00 lbs**

**Increase in mount weight due to Verizon loading change per SBA agreement: No Change**

**The weights listed above include 3 sectors.**

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

Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	28.9	28.9	41.8	41.8
0.5	38.4	38.4	56.6	56.6
1	46.1	46.1	69.7	69.7

Notes:

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

**Requirements:**

The existing mount is **SUFFICIENT** for the final loading configuration shown in attachment 2 and do not require modifications. Additional requirements are noted below.

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

**Attachments:**

1. Contractor Required Post Installation Inspection (PMI) Report Deliverables
2. Antenna Placement Diagrams
3. Mount Photos
4. Mount Mapping Report (for reference only)
5. Analysis Calculations

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

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

Passing Mount Analysis requires a PMI due to a modification in loading.

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

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

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MDG #: 5000248045

SMART Project #: 10206270

Fuze Project ID: 17123920

**Purpose** – to provide SMART Tool structural vendor 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:**

- If installation will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide “as built mount drawings” showing contractor’s name, contact information, preparer’s signature, and date. Any deviations from the drawings (Proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo should be time and date stamped
- Photos should be high resolution.
- 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. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: <https://pmi.vzwsmart.com>

### **Photo Requirements:**

- Photos taken at ground level
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation.
  - Photos of the mount after installation; if the mounts are at different rad elevations, pictures must be provided for all elevations that equipment was installed.
- Photos taken at Mount Elevation
  - Photos showing the safety climb wire rope above and below the mount prior to installation.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation. Each entire sector shall be in one photo to show the interconnection of members.

- These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
- Photos that show the model number of each antenna and piece of equipment installed per sector.

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

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.

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

OR

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

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

**Issue:**

**Response:**

**Special Instruction Confirmation:**

The contractor has read and acknowledges the above special instructions.

All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.

The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

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



**Comments:**

--

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

- Yes       No

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

- Yes       No

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

- Safety Climb in Good Condition       Safety Climb Damaged

**Certifying Individual:**

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

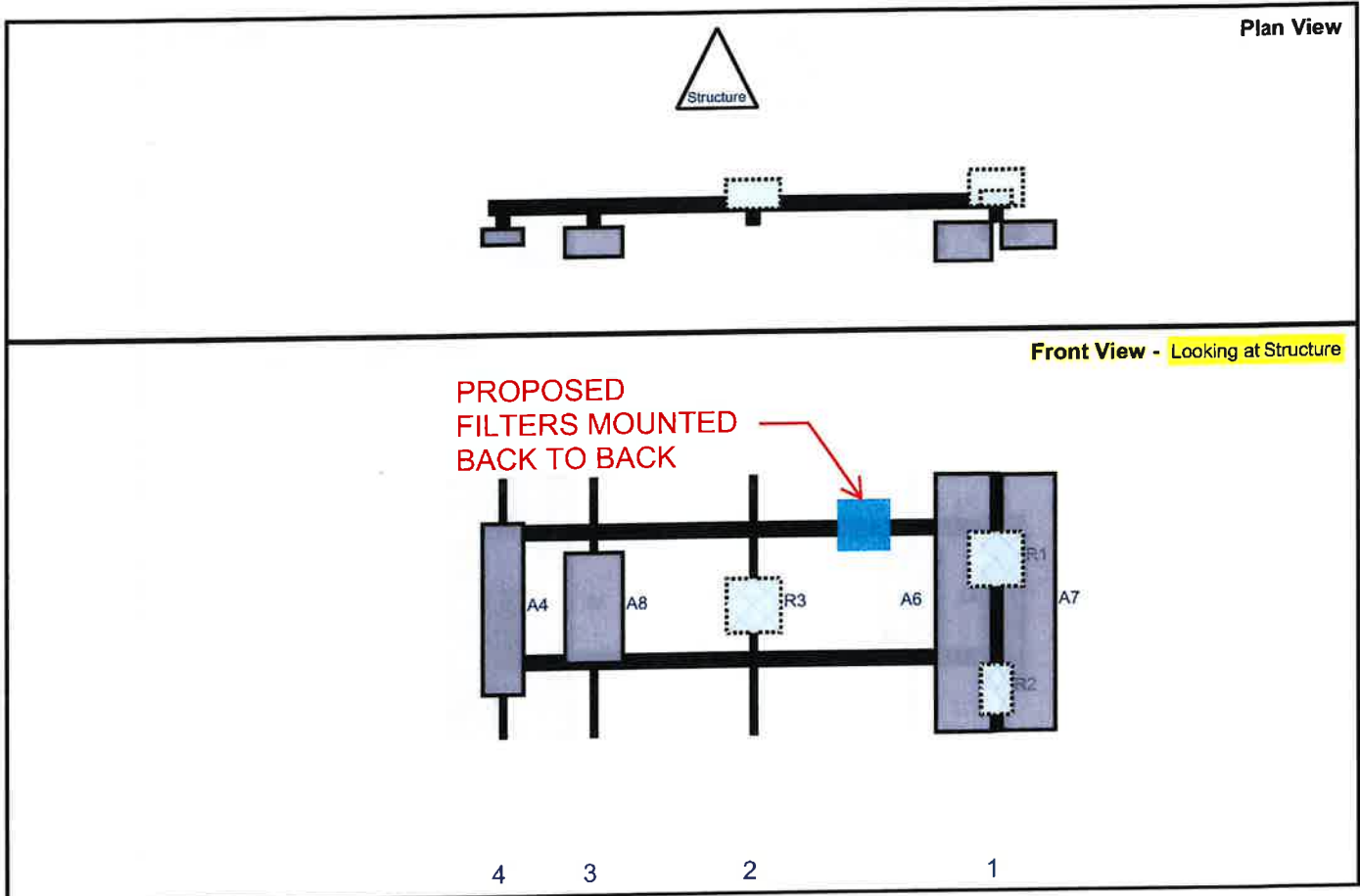
Sector: **A**  
 Structure Type: Monopole  
 Mount Elev: 147.50

10206270

7/10/2023



Page: 1



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
A6	MX06FRO660-02	71.3	15.4	140	1	a	Front	36	-9	Retained	03/17/2022
A7	MX10FRO660-xx	70.9	15	140	1	a	Front	36	9	Retained	03/17/2022
R1	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	140	1	a	Behind	24	0	Retained	03/17/2022
R2	CBRS RRH - RT4401-48A	13.9	8.6	140	1	a	Behind	60	0	Retained	03/17/2022
R3	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	73	2	a	Behind	36.06	0	Retained	03/17/2022
A8	MT6407-77A	30.4	15.9	29	3	a	Front	36	0	Retained	03/17/2022
A4	BXA-80063/4	47.4	11.2	4	4	a	Front	36.06	0	Retained	02/17/2021
M100	RC3DC-3315-PF-48	-23	-15.7			Member				Retained	02/17/2021
M102	BSF0020F3V1-1	10.6	10.9			Member				Added	
M107	BSF0020F3V1-1	10.6	10.9			Member				Added	

Structure: 5000248045-VZW - GROTON 2 CT

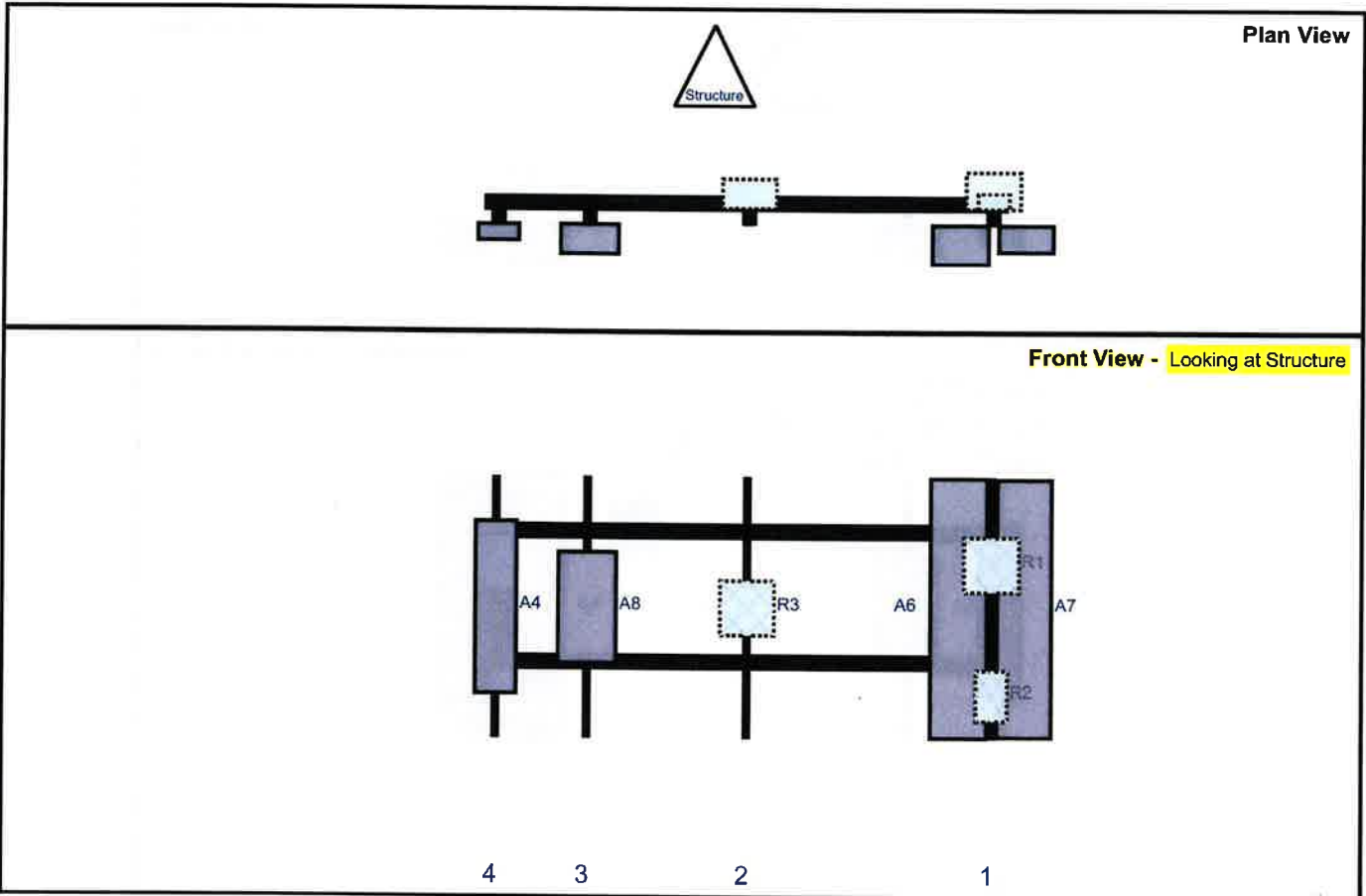
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 Structure Type: Monopole  
 Mount Elev: 147.50

10206270

7/10/2023



Page: 2



Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A6	MX06FRO660-02	71.3	15.4	140	1	a	Front	36	-9	Retained	03/17/2022
A7	MX10FRO660-xx	70.9	15	140	1	a	Front	36	9	Retained	03/17/2022
R1	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	140	1	a	Behind	24	0	Retained	03/17/2022
R2	CBRS RRH - RT4401-48A	13.9	8.6	140	1	a	Behind	60	0	Retained	03/17/2022
R3	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	73	2	a	Behind	36.06	0	Retained	03/17/2022
A8	MT6407-77A	30.4	15.9	29	3	a	Front	36	0	Retained	03/17/2022
A4	BXA-80063/4	47.4	11.2	4	4	a	Front	36.06	0	Retained	02/17/2021

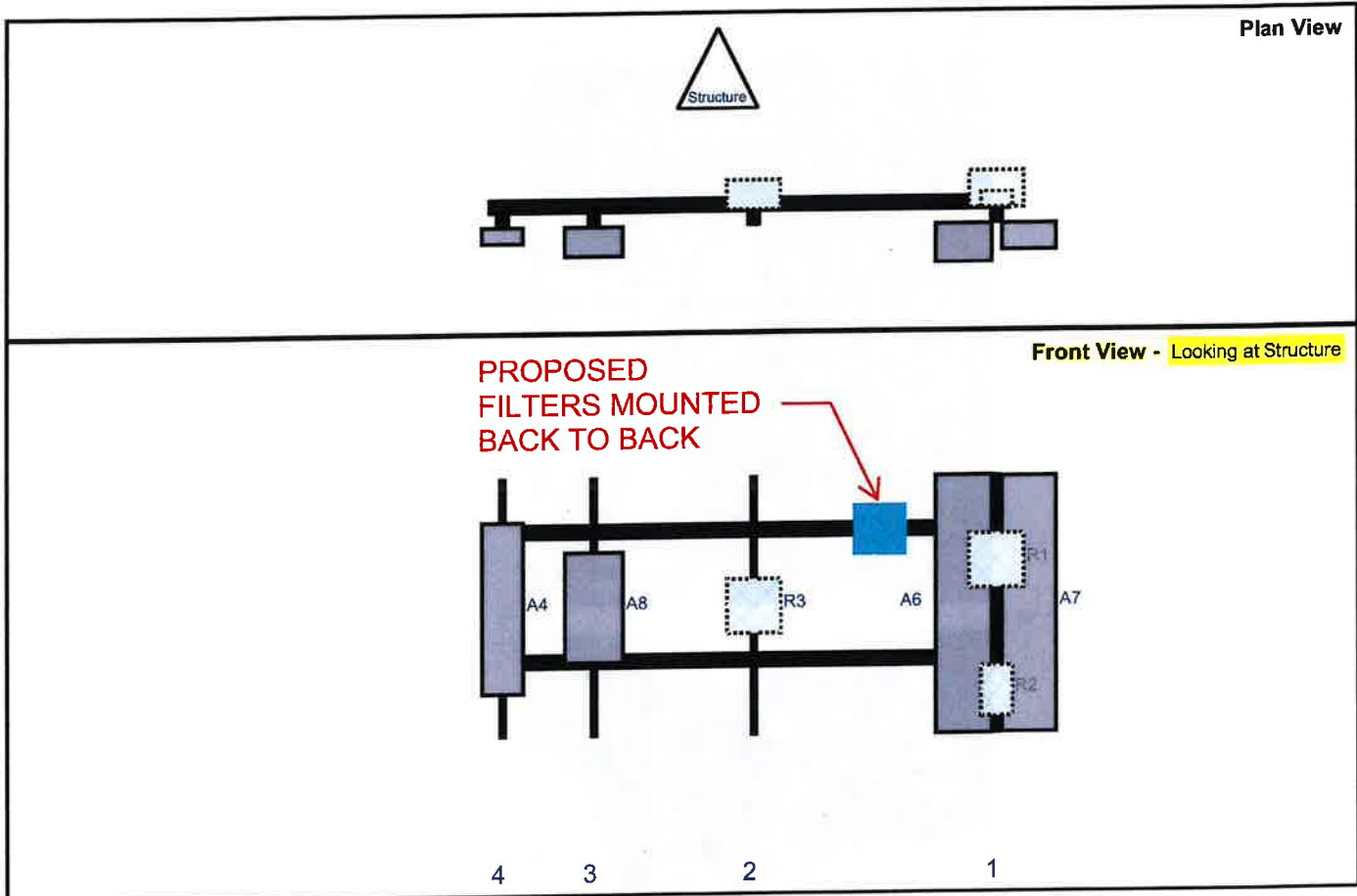
Sector: C  
 Structure Type: Monopole  
 Mount Elev: 147.50

10206270

7/10/2023



Page: 3

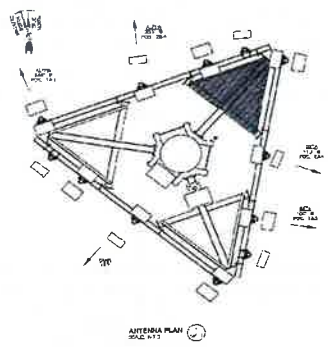


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A7	MX10FRO660-xx	70.9	15	140	1	a	Front	36	9	Retained	03/17/2022
R1	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	140	1	a	Behind	24	0	Retained	03/17/2022
R2	CBRS RRH - RT4401-48A	13.9	8.6	140	1	a	Behind	60	0	Retained	03/17/2022
R3	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	73	2	a	Behind	36.06	0	Retained	03/17/2022
A8	MT6407-77A	30.4	15.9	29	3	a	Front	36	0	Retained	03/17/2022
A4	BXA-80063/4	47.4	11.2	4	4	a	Front	36.06	0	Retained	02/17/2021



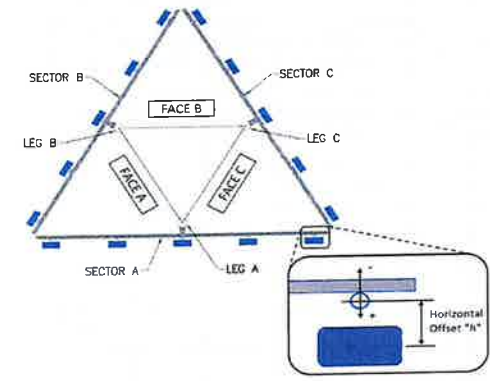
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	<b>Tower Owner:</b>	SBA	<b>Mapping Date:</b>	2/11/2021
	<b>Site Name:</b>	GROTON 2 CT	<b>Tower Type:</b>	Monopole
	<b>Site Number or ID:</b>	467245	<b>Tower Height (FT.):</b>	150
	<b>Mapping Contractor:</b>	Hudson Design Group LLC	<b>Mount Elevation (FT.):</b>	147.7

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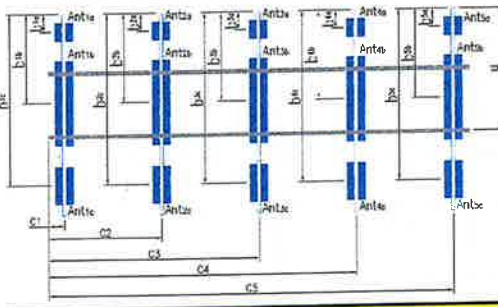


Mount Pipe Configuration and Geometries [Unit = Inches]							
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "u"	Horizontal Offset "C1, C2, C3, etc."
A1	PIPE 2" STD. X 72" LONG	51.00	4.00	C1	PIPE 2" STD. X 72" LONG	51.00	4.00
A2	PIPE 2" STD. X 72" LONG	51.00	71.00	C2	PIPE 2" STD. X 72" LONG	51.00	71.00
A3	PIPE 2" STD. X 72" LONG	51.00	115.00	C3	PIPE 2" STD. X 72" LONG	51.00	115.00
A4	PIPE 2" STD. X 72" LONG	51.00	140.00	C4	PIPE 2" STD. X 72" LONG	51.00	140.00
A5				C5			
A6				C6			
B1	PIPE 2" STD. X 72" LONG	51.00	4.00	D1			
B2	PIPE 2" STD. X 72" LONG	51.00	71.00	D2			
B3	PIPE 2" STD. X 72" LONG	51.00	115.00	D3			
B4	PIPE 2" STD. X 72" LONG	51.00	140.00	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.  
 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.): -2  
 Please enter additional information or comments below.  
 2' OVERLAP W/ SPRINT ANTENNAS (BELOW)  
 TOWER WALL THK.: .189"

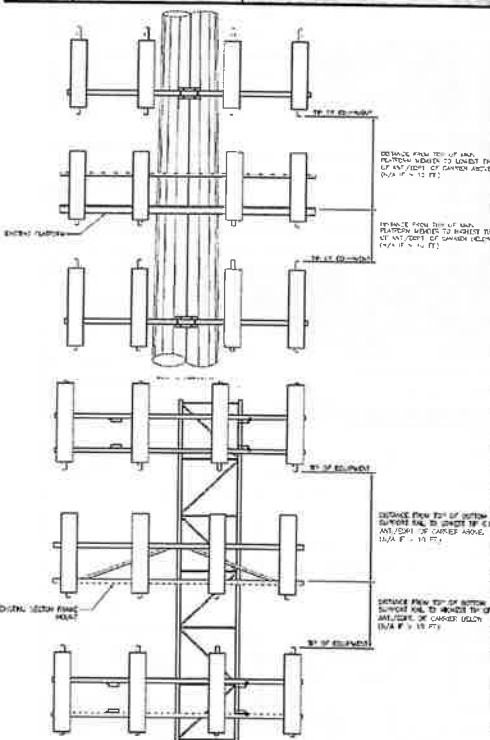


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]				Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> ,..." (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	
<b>Sector A</b>										
Ant <sub>1a</sub>	B66A RRH 4X45	12.00	7.00	25.50		150.492	17.50	-6.50		82
Ant <sub>1b</sub>	SBNH-1D65B	12.00	7.50	73.00		148.7	39.00	8.50	340.00	44
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	B13 RRH4X30	12.00	7.00	21.00		150.2	21.00	-6.50		89
Ant <sub>2b</sub>	BXA-70063/6CF-EDIN	11.00	5.00	71.00		148.95	36.00	17.00	355.00	43
Ant <sub>2c</sub>										
Ant <sub>3a</sub>	B25 RRH 4X30	12.00	7.00	21.00		151.158	9.50	-6.50		92
Ant <sub>3b</sub>	SBNH-1D65B	12.00	7.50	73.00		148.7	39.00	8.50	340.00	44
Ant <sub>3c</sub>										
Ant <sub>4a</sub>										
Ant <sub>4b</sub>	BXA-70063/6CF-EDIN	11.00	5.00	47.00		148.95	36.00	10.00	355.00	43
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:	340.00	Deg	Leg A:		Deg	Ant <sub>1a</sub>	B66A RRH 4X45	12.00	7.00	25.50	150.492	17.50	-6.50		82
Sector B:	100.00	Deg	Leg B:		Deg	Ant <sub>1b</sub>	SBNH-1D65B	12.00	7.50	73.00	148.7	39.00	8.50	100.00	44
Sector C:	220.00	Deg	Leg C:		Deg	Ant <sub>1c</sub>									
Sector D:		Deg	Leg D:		Deg	Ant <sub>1d</sub>	B13 RRH4X30	12.00	7.00	21.00	150.2	21.00	-6.50		89
Climbing Facility Information						Ant <sub>2a</sub>	BXA-70063/6CF-EDIN	11.00	5.00	71.00	148.95	36.00	6.50	110.00	96
Location:	50.00	Deg	N/A			Ant <sub>2b</sub>	B25 RRH 4X30	12.00	7.00	21.00	151.158	9.50	-6.50		92
Climbing Facility	Corrosion Type:		Good condition.			Ant <sub>2c</sub>	SBNH-1D65B	12.00	7.50	73.00	148.7	39.00	8.50	100.00	44
	Access:		Climbing path was unobstructed.			Ant <sub>2d</sub>									
	Condition:		Good condition.			Ant <sub>2e</sub>									
						Ant <sub>2f</sub>	BXA-70063/6CF-EDIN	11.00	5.00	47.00	148.95	36.00	10.00	100.00	96
						Ant <sub>2g</sub>									
						Ant <sub>2h</sub>									
						Ant <sub>2i</sub>									
						Ant <sub>2j</sub>									
						Ant on Standoff	RHSDC-3315-PF-48	15.00	10.00	28.00		31.00	5.00		102
						Ant on Standoff									
						Ant on Tower									
						Ant on Tower									
Sector C															
						Ant <sub>3a</sub>	B66A RRH 4X45	12.00	7.00	25.50	150.492	17.50	-6.50		82
						Ant <sub>3b</sub>	SBNH-1D65B	12.00	7.50	73.00	148.7	39.00	8.50	240.00	44
						Ant <sub>3c</sub>									
						Ant <sub>3d</sub>	B13 RRH4X30	12.00	7.00	21.00	150.2	21.00	-6.50		89
						Ant <sub>3e</sub>	BXA-70063/6CF-EDIN	11.00	5.00	71.00	148.95	36.00	17.00	240.00	101
						Ant <sub>3f</sub>									
						Ant <sub>3g</sub>	B25 RRH 4X30	12.00	7.00	21.00	151.158	9.50	-6.50		92
						Ant <sub>3h</sub>	SBNH-1D65B	12.00	7.50	73.00	148.7	39.00	8.50	240.00	44
						Ant <sub>3i</sub>									
						Ant <sub>3j</sub>	BXA-70063/6CF-EDIN	11.00	5.00	47.00	148.95	36.00	10.00	240.00	101
						Ant <sub>3k</sub>									
						Ant <sub>3l</sub>									
						Ant <sub>3m</sub>									
						Ant on Standoff									
						Ant on Standoff									
						Ant on Tower	RHSDC-3315-PF-48	15.00	10.00	28.00		25.00	5.00		102
						Ant on Tower									
Sector D															
						Ant <sub>4a</sub>									
						Ant <sub>4b</sub>									
						Ant <sub>4c</sub>									
						Ant <sub>4d</sub>									
						Ant <sub>4e</sub>									
						Ant <sub>4f</sub>									
						Ant <sub>4g</sub>									
						Ant <sub>4h</sub>									
						Ant <sub>4i</sub>									
						Ant <sub>4j</sub>									
						Ant <sub>4k</sub>									
						Ant <sub>4l</sub>									
						Ant <sub>4m</sub>									
						Ant <sub>4n</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	(12) 1-5/8"Ø COAX, (2) 1-1/4"Ø HYBRID	4
3	TOWER TAG INFO: MODEL/JOB#: 08-07173, TOWER HEIGHT: 140/160 FT MONO, LOCATION: NEW LONDON, CT	14
4		
5		
6		
7		
8		

**Mapping Notes**

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

**Standard Conditions**

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





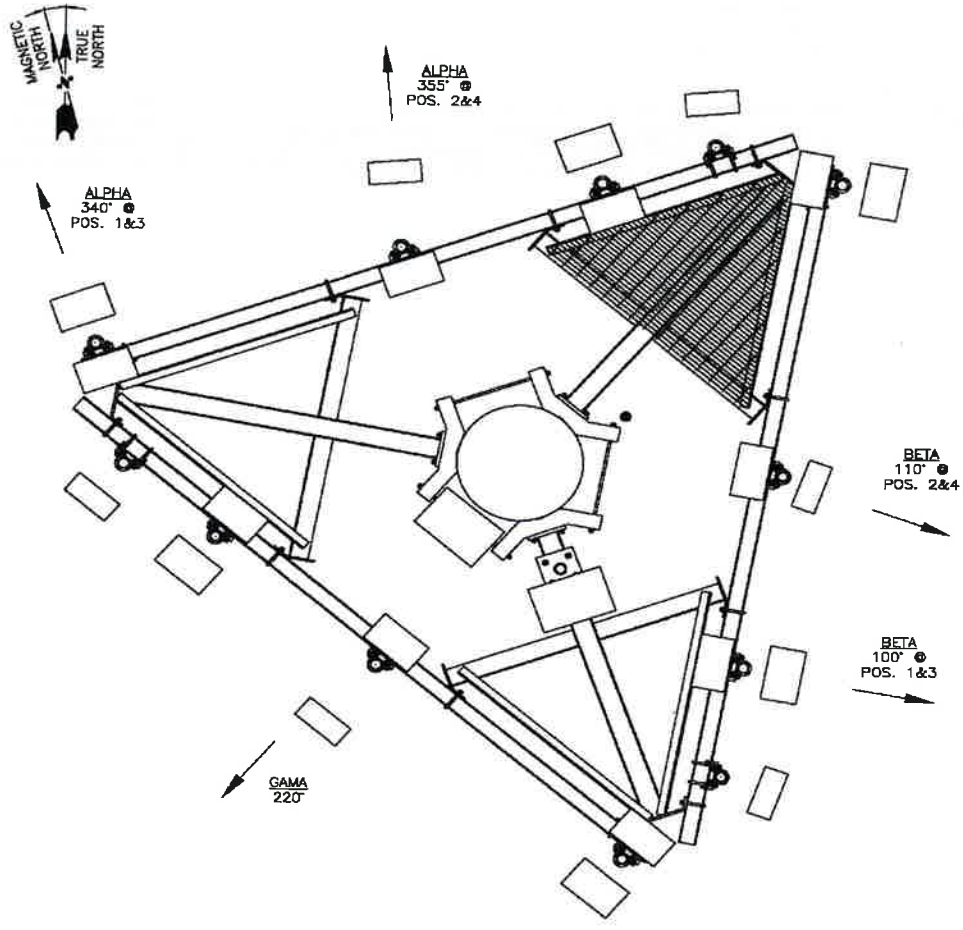
### Antenna Mount Mapping Form (PATENT PENDING)

FCC #  
1260407

Tower Owner:	SBA	Mapping Date:	2/11/2021
Site Name:	GROTON 2 CT	Tower Type:	Monopole
Site Number or ID:	467245	Tower Height (FL):	150
Mapping Contractor:	Hudson Design Group LLC	Mount Elevation (FL):	147.7

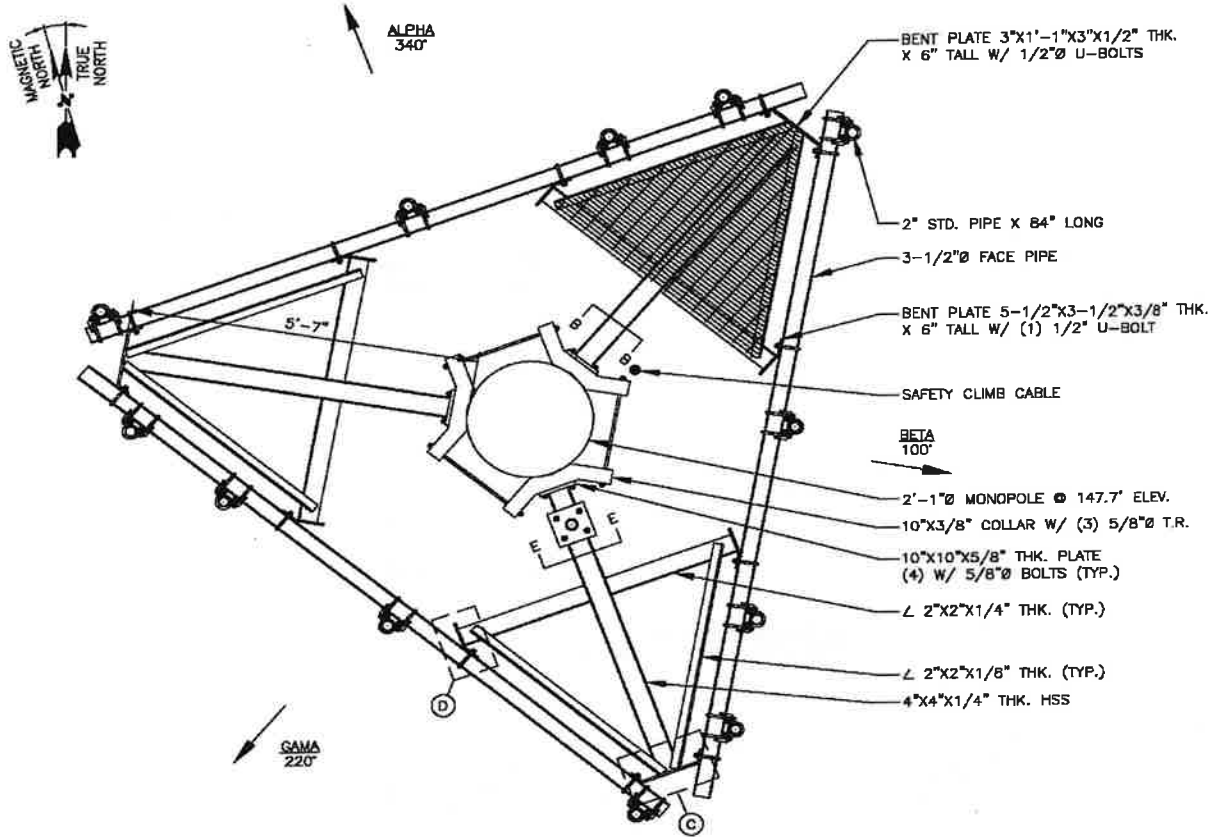
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Please Insert Sketches of the Antenna Mount



**ANTENNA PLAN** (1) SK-1  
SCALE: N.T.S

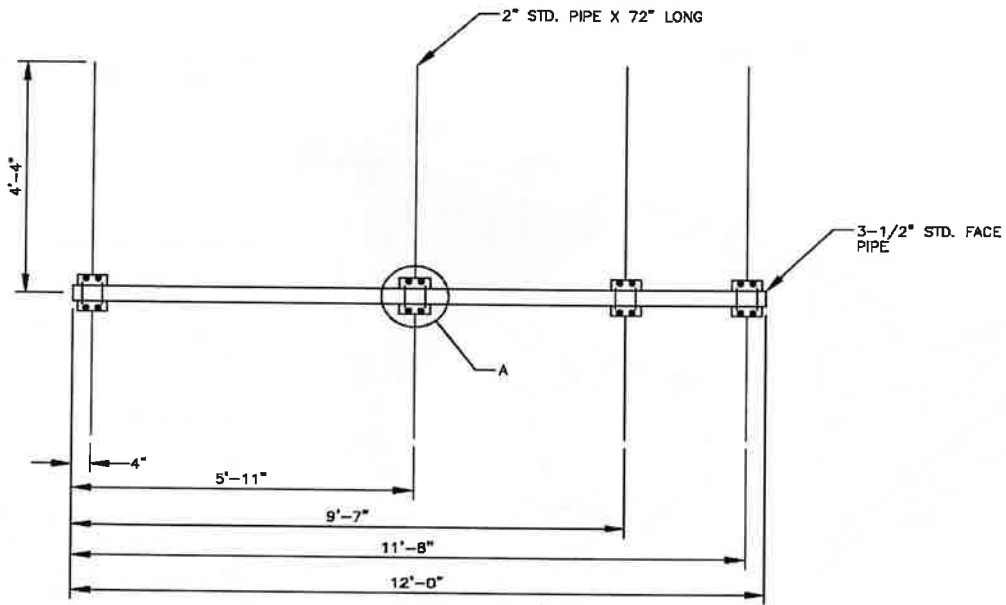
Please Insert Sketches of the Antenna Mount, cont'd



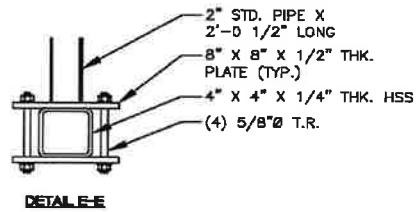
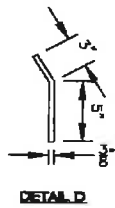
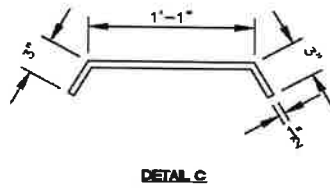
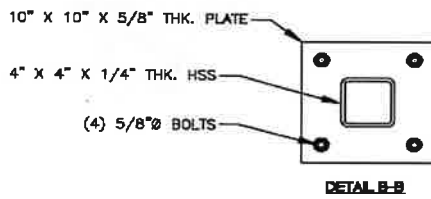
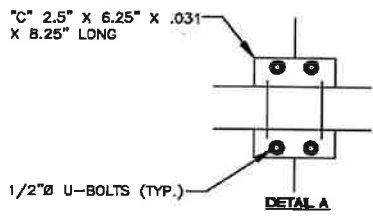
**MOUNT PLAN**  
SCALE: N.T.S.

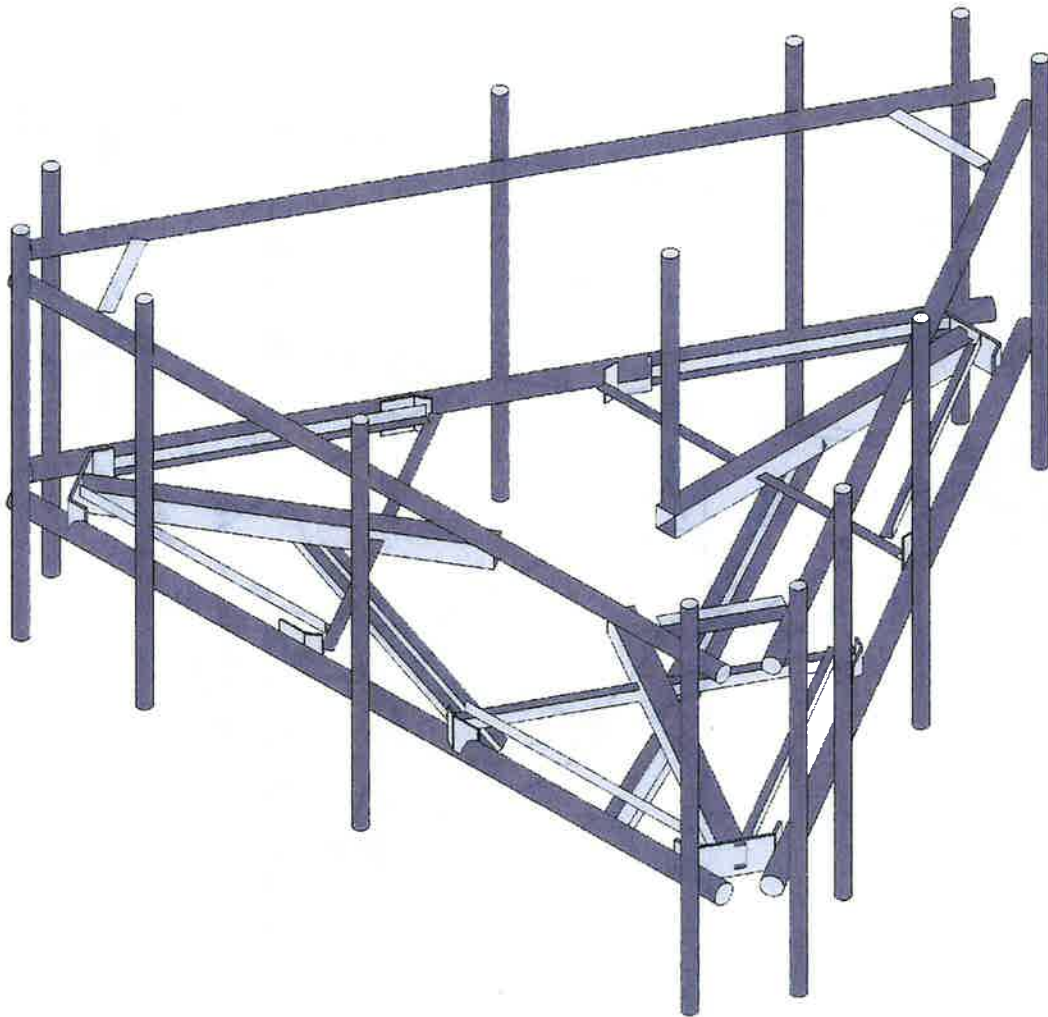
1  
SK-2

Please Insert Sketches of the Antenna Mount, cont'd



**MOUNT ELEVATION** (1)  
SCALE: N.T.S. SK-3





Envelope Only Solution


Rendered Model

SK - 1

July 6, 2023 at 11:33 AM

5000248045-VZW\_MT\_LO\_H.r3d







Company :  
 Designer :  
 Job Number :  
 Model Name :

July 6, 2023  
 11:33 AM  
 Checked By: \_\_\_\_\_

**Basic Load Cases**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...	Surface(P...
1	Antenna D	None					117		
2	Antenna Di	None					117		
3	Antenna Wo (0 Deg)	None					117		
4	Antenna Wo (30 Deg)	None					117		
5	Antenna Wo (60 Deg)	None					117		
6	Antenna Wo (90 Deg)	None					117		
7	Antenna Wo (120 Deg)	None					117		
8	Antenna Wo (150 Deg)	None					117		
9	Antenna Wo (180 Deg)	None					117		
10	Antenna Wo (210 Deg)	None					117		
11	Antenna Wo (240 Deg)	None					117		
12	Antenna Wo (270 Deg)	None					117		
13	Antenna Wo (300 Deg)	None					117		
14	Antenna Wo (330 Deg)	None					117		
15	Antenna Wi (0 Deg)	None					117		
16	Antenna Wi (30 Deg)	None					117		
17	Antenna Wi (60 Deg)	None					117		
18	Antenna Wi (90 Deg)	None					117		
19	Antenna Wi (120 Deg)	None					117		
20	Antenna Wi (150 Deg)	None					117		
21	Antenna Wi (180 Deg)	None					117		
22	Antenna Wi (210 Deg)	None					117		
23	Antenna Wi (240 Deg)	None					117		
24	Antenna Wi (270 Deg)	None					117		
25	Antenna Wi (300 Deg)	None					117		
26	Antenna Wi (330 Deg)	None					117		
27	Antenna Wm (0 Deg)	None					117		
28	Antenna Wm (30 Deg)	None					117		
29	Antenna Wm (60 Deg)	None					117		
30	Antenna Wm (90 Deg)	None					117		
31	Antenna Wm (120 Deg)	None					117		
32	Antenna Wm (150 Deg)	None					117		
33	Antenna Wm (180 Deg)	None					117		
34	Antenna Wm (210 Deg)	None					117		
35	Antenna Wm (240 Deg)	None					117		
36	Antenna Wm (270 Deg)	None					117		
37	Antenna Wm (300 Deg)	None					117		
38	Antenna Wm (330 Deg)	None					117		
39	Structure D	None		-1					3
40	Structure Di	None						61	3
41	Structure Wo (0 Deg)	None						122	
42	Structure Wo (30 Deg)	None						122	
43	Structure Wo (60 Deg)	None						122	
44	Structure Wo (90 Deg)	None						122	
45	Structure Wo (120 D...	None						122	
46	Structure Wo (150 D...	None						122	
47	Structure Wo (180 D...	None						122	
48	Structure Wo (210 D...	None						122	
49	Structure Wo (240 D...	None						122	
50	Structure Wo (270 D...	None						122	
51	Structure Wo (300 D...	None						122	
52	Structure Wo (330 D...	None						122	
53	Structure Wi (0 Deg)	None						122	



Company :  
 Designer :  
 Job Number :  
 Model Name :

July 6, 2023  
 11:33 AM  
 Checked By: \_\_\_\_\_

**Basic Load Cases (Continued)**

BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
54 Structure Wi (30 Deg)	None						122	
55 Structure Wi (60 Deg)	None						122	
56 Structure Wi (90 Deg)	None						122	
57 Structure Wi (120 De..)	None						122	
58 Structure Wi (150 De..)	None						122	
59 Structure Wi (180 De..)	None						122	
60 Structure Wi (210 De..)	None						122	
61 Structure Wi (240 De..)	None						122	
62 Structure Wi (270 De..)	None						122	
63 Structure Wi (300 De..)	None						122	
64 Structure Wi (330 De..)	None						122	
65 Structure Wm (0 Deg)	None						122	
66 Structure Wm (30 De..)	None						122	
67 Structure Wm (60 De..)	None						122	
68 Structure Wm (90 De..)	None						122	
69 Structure Wm (120 D..)	None						122	
70 Structure Wm (150 D..)	None						122	
71 Structure Wm (180 D..)	None						122	
72 Structure Wm (210 D..)	None						122	
73 Structure Wm (240 D..)	None						122	
74 Structure Wm (270 D..)	None						122	
75 Structure Wm (300 D..)	None						122	
76 Structure Wm (330 D..)	None						122	
77 Lm1	None					1		
78 Lm2	None					1		
79 Lv1	None					1		
80 Lv2	None					1		
81 Antenna Ev	None					117		
82 Antenna Eh (0 Deg)	None					78		
83 Antenna Eh (90 Deg)	None					78		
84 Structure Ev	ELY		-0.41					9
85 Structure Eh (0 Deg)	ELZ			-102				9
86 Structure Eh (90 Deg)	ELX	102						9
87 BLC 39 Transient Are..	None						30	
88 BLC 40 Transient Are..	None						30	
89 BLC 84 Transient Are..	None						30	
90 BLC 85 Transient Are..	None						30	
91 BLC 86 Transient Are..	None						30	

**Load Combinations**

Description	S...	P...	S...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.2D+1.0Wo (0 Deg)	Yes	Y			1	1.2	39	1.2	3	1	41	1							
2 1.2D+1.0Wo (30 Deg)	Yes	Y			1	1.2	39	1.2	4	1	42	1							
3 1.2D+1.0Wo (60 Deg)	Yes	Y			1	1.2	39	1.2	5	1	43	1							
4 1.2D+1.0Wo (90 Deg)	Yes	Y			1	1.2	39	1.2	6	1	44	1							
5 1.2D+1.0Wo (120 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 (0 Deg)	Yes	Y			1	1.2	39	1.2	2	1	40	1	15	1	53	1			
14 1.2D + 1.0Di + 1.0Wi (30 Deg)	Yes	Y			1	1.2	39	1.2	2	1	40	1	16	1	54	1			







Company :  
 Designer :  
 Job Number :  
 Model Name :

July 6, 2023  
 11:33 AM  
 Checked By: \_\_\_\_\_

**Load Combinations (Continued)**

	Description	S	P	S	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	Fa	B	
72	0.9D - 1.0Ev + 1.0Eh (240 Deg)	Yes	Y		1	.9	39	.9	81	-1	E	-1	82	-5	83	-8	E	-5	E	-8								
73	0.9D - 1.0Ev + 1.0Eh (270 Deg)	Yes	Y		1	.9	39	.9	81	-1	E	-1	82		83	-1	E		E	-1								
74	0.9D - 1.0Ev + 1.0Eh (300 Deg)	Yes	Y		1	.9	39	.9	81	-1	E	-1	82	.5	83	-8	E	.5	E	-8								
75	0.9D - 1.0Ev + 1.0Eh (330 Deg)	Yes	Y		1	.9	39	.9	81	-1	E	-1	82	.866	83	-5	E	.866	E	-5								

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	6	0	3.810523	0	
2	N2	-6	0	3.810523	0	
3	N3	0	0	-1.208333	0	
4	N5	-2.541667	0	-2.708333	0	
5	N6	2.315104	0.166667	-2.708333	0	
6	N7	-2.315104	0.166667	-2.708333	0	
7	N8	5.666667	0	3.810523	0	
8	N9	5.666667	0	4.060523	0	
9	N10	-5.666667	0	3.810523	0	
10	N11	-5.666667	0	4.060523	0	
11	N12	0.083333	0	3.810523	0	
12	N13	0.083333	0	4.060523	0	
13	N14	-3.583333	0	3.810523	0	
14	N15	-3.583333	0	4.060523	0	
15	N16	-3.583333	-1.75	4.060523	0	
16	N17	-3.583333	4.25	4.060523	0	
17	N18	-5.666667	-1.75	4.060523	0	
18	N19	-5.666667	4.25	4.060523	0	
19	N20	0.083333	-1.75	4.060523	0	
20	N21	0.083333	4.25	4.060523	0	
21	N22	5.666667	-1.75	4.060523	0	
22	N23	5.666667	4.25	4.060523	0	
23	N24	0	0	-2.708333	0	
24	N27	0	0	-6.395833	0	
25	CP	0	0	0	0	
26	N29	2.315104	0	-2.708333	0	
27	N30	-2.315104	0	-2.708333	0	
28	N101	2.541667	0	-2.708333	0	
29	N102	-0.166667	0	-2.708333	0	
30	N103A	0.166667	0	-2.708333	0	
31	N104A	-2.541667	0	-2.927083	0	
32	N105	2.541667	0	-2.927083	0	
33	N86C	-0.515625	0	-6.395833	0	
34	N87A	0.515625	0	-6.395833	0	
35	N88A	0	0	-6.3125	0	
36	N87C	0.234238	0.166667	-6.3125	0	
37	N86G	0.234238	0	-6.3125	0	
38	N87B	-0.234238	0.166667	-6.3125	0	
39	N88C	-0.234238	0	-6.3125	0	
40	N87D	-1.046447	0	0.604167	0	
41	N88B	-1.074652	0	3.555315	0	
42	N89	-3.503038	0.166667	-0.650772	0	
43	N90	-1.187933	0.166667	3.359106	0	
44	N91	-2.345485	0	1.354167	0	
45	N92	-5.538954	0	3.197917	0	
46	N93	-3.503038	0	-0.650772	0	
47	N94	-1.187933	0	3.359106	0	
48	N95	-3.616319	0	-0.846981	0	



Company :  
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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
49	N96	-2.262152	0	1.498504	0	
50	N97	-2.428819	0	1.209829	0	
51	N98	-1.264095	0	3.66469	0	
52	N99	-3.805762	0	-0.737606	0	
53	N102A	-1.680762	0	3.66469	0	
54	N103	-5.002496	0	3.644461	0	
55	N105A	-1.680762	0	3.810523	0	
56	N106	-5.281142	0	3.644461	0	
57	N107	-5.796767	0	2.751372	0	
58	N109	-5.002496	0	3.810523	0	
59	N110	-5.466785	0	3.15625	0	
60	N111	-5.583904	0.166667	2.953394	0	
61	N112	-5.583904	0	2.953394	0	
62	N113	-5.349667	0.166667	3.359106	0	
63	N114	-5.349667	0	3.359106	0	
64	N115	1.046447	0	0.604167	0	
65	N116	3.616319	0	-0.846981	0	
66	N117	1.187933	0.166667	3.359106	0	
67	N118	3.503038	0.166667	-0.650772	0	
68	N119	2.345485	0	1.354167	0	
69	N120	5.538954	0	3.197917	0	
70	N121	1.187933	0	3.359106	0	
71	N122	3.503038	0	-0.650772	0	
72	N123	1.074652	0	3.555315	0	
73	N124	2.428819	0	1.209829	0	
74	N125	2.262152	0	1.498504	0	
75	N126	3.805762	0	-0.737606	0	
76	N127	1.264095	0	3.66469	0	
77	N128	1.680762	0	3.66469	0	
78	N129	5.002496	0	3.644461	0	
79	N132	1.680762	0	3.810523	0	
80	N134	5.796767	0	2.751372	0	
81	N135A	5.281142	0	3.644461	0	
82	N136	5.002496	0	3.810523	0	
83	N138	5.466785	0	3.15625	0	
84	N139	5.349667	0.166667	3.359106	0	
85	N140	5.349667	0	3.359106	0	
86	N141	5.583904	0.166667	2.953394	0	
87	N142	5.583904	0	2.953394	0	
88	N104B	0.30001	0	-7.101414	0	
89	N105B	6.30001	0	3.290891	0	
90	N106A	0.466677	0	-6.812739	0	
91	N107A	0.683183	0	-6.937739	0	
92	N108A	6.133343	0	3.002216	0	
93	N109A	6.34985	0	2.877216	0	
94	N110A	3.258343	0	-1.97743	0	
95	N111A	3.47485	0	-2.10243	0	
96	N112A	5.091677	0	1.197996	0	
97	N113A	5.308183	0	1.072996	0	
98	N114A	5.308183	-1.75	1.072996	0	
99	N115A	5.308183	4.25	1.072996	0	
100	N116A	6.34985	-1.75	2.877216	0	
101	N117A	6.34985	4.25	2.877216	0	
102	N118A	3.47485	-1.75	-2.10243	0	
103	N119A	3.47485	4.25	-2.10243	0	
104	N120A	0.683183	-1.75	-6.937739	0	
105	N121A	0.683183	4.25	-6.937739	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
106	N122A	-6.30001	0	3.290891	0	
107	N123A	-0.30001	0	-7.101414	0	
108	N124A	-6.133343	0	3.002216	0	
109	N125A	-6.34985	0	2.877216	0	
110	N126A	-0.466677	0	-6.812739	0	
111	N127A	-0.683183	0	-6.937739	0	
112	N128A	-3.341677	0	-1.833093	0	
113	N129A	-3.558183	0	-1.958093	0	
114	N130A	-1.508343	0	-5.008519	0	
115	N131B	-1.72485	0	-5.133519	0	
116	N132A	-1.72485	-1.75	-5.133519	0	
117	N133A	-1.72485	4.25	-5.133519	0	
118	N134A	-0.683183	-1.75	-6.937739	0	
119	N135B	-0.683183	4.25	-6.937739	0	
120	N136A	-3.558183	-1.75	-1.958093	0	
121	N137A	-3.558183	4.25	-1.958093	0	
122	N138A	-6.34985	-1.75	2.877216	0	
123	N139A	-6.34985	4.25	2.877216	0	
124	N133	4.014095	0	-0.376762	0	
125	N134B	4.140391	0	-0.449679	0	
126	N136B	2.333333	0	-3.287927	0	
127	N137B	2.459629	0	-3.360844	0	
128	N139B	-2.333333	0	-3.287927	0	
129	N140A	-2.459629	0	-3.360844	0	
130	N142A	-4.014095	0	-0.376762	0	
131	N143	-4.140391	0	-0.449679	0	
132	N140B	0	0	-1.541667	0	
133	N141A	-.25	0	-1.541667	0	
134	N142B	-.25	-0.333333	-1.541667	0	
135	N143A	-.25	3.666667	-1.541667	0	
136	N144	0.117119	0	-6.3125	0	
137	N137	5.657444	0	2.510058	0	
138	N139C	5.801258	0	2.427027	0	
139	N140C	0.654948	0	-6.154519	0	
140	N142C	0.798762	0	-6.23755	0	
141	N143B	-0.654948	0	-6.154519	0	
142	N145	-0.798762	0	-6.23755	0	
143	N146	-5.657444	0	2.510058	0	
144	N148	-5.801258	0	2.427027	0	
145	N145A	6	3.25	3.810523	0	
146	N146A	-6	3.25	3.810523	0	
147	N147	5.666667	3.25	3.810523	0	
148	N148A	5.666667	3.25	4.060523	0	
149	N149	-5.666667	3.25	3.810523	0	
150	N150	-5.666667	3.25	4.060523	0	
151	N151	0.083333	3.25	3.810523	0	
152	N152	0.083333	3.25	4.060523	0	
153	N153	-3.583333	3.25	3.810523	0	
154	N154	-3.583333	3.25	4.060523	0	
155	N155	0.30001	3.25	-7.101414	0	
156	N156	6.30001	3.25	3.290891	0	
157	N157	0.466677	3.25	-6.812739	0	
158	N158	0.683183	3.25	-6.937739	0	
159	N159	6.133343	3.25	3.002216	0	
160	N160	6.34985	3.25	2.877216	0	
161	N161	3.258343	3.25	-1.97743	0	
162	N162	3.47485	3.25	-2.10243	0	

**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
163	N163	5.091677	3.25	1.197996	0	
164	N164	5.308183	3.25	1.072996	0	
165	N165	-6.30001	3.25	3.290891	0	
166	N166	-0.30001	3.25	-7.101414	0	
167	N167	-6.133343	3.25	3.002216	0	
168	N168	-6.34985	3.25	2.877216	0	
169	N169	-0.466677	3.25	-6.812739	0	
170	N170	-0.683183	3.25	-6.937739	0	
171	N171	-3.341677	3.25	-1.833093	0	
172	N172	-3.558183	3.25	-1.958093	0	
173	N173	-1.508343	3.25	-5.008519	0	
174	N174	-1.72485	3.25	-5.133519	0	
175	N175	-4.75	3.25	3.810523	0	
176	N176	-4.75	3.25	3.643857	0	
177	N177	4.75	3.25	3.810523	0	
178	N178	4.75	3.25	3.643857	0	
179	N179	5.80001	3.25	2.424865	0	
180	N181	0.80001	3.25	-6.235389	0	
181	N183	-0.80001	3.25	-6.235389	0	
182	N185	-5.80001	3.25	2.424865	0	
183	N187	0	0	-3.708333	0	
184	N188	0	-3	-1.208333	0	
185	N189	-3.211511	0	1.854167	0	
186	N190	-1.046447	-3	0.604167	0	
187	N191	3.211511	0	1.854167	0	
188	N192	1.046447	-3	0.604167	0	
189	N194	5.67501	3.25	2.208359	0	
190	N195	5.530672	3.25	2.291692	0	
191	N196	0.92501	3.25	-6.018882	0	
192	N197	0.780672	3.25	-5.935549	0	
193	N199	-0.92501	3.25	-6.018882	0	
194	N200	-0.780672	3.25	-5.935549	0	
195	N201	-5.67501	3.25	2.208359	0	
196	N202	-5.530672	3.25	2.291692	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr.B	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Corner Plate	PL1/2x6	Beam	RECT	A36 Gr.36	Typical	3	.063	9	.237
4	Platform Crossmem...	L2x2x4	Beam	Single Angle	A36 Gr.36	Typical	.944	.346	.346	.021
5	Grating Support	L2x2x2	Beam	Single Angle	A36 Gr.36	Typical	.491	.189	.189	.003
6	Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
7	Cross Arm Plate	PL3/8x6	Column	RECT	A36 Gr.36	Typical	2.25	.026	6.75	.101
8	Standoff Mount Pipe	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
9	Kicker	LL3x3x3x6	Column	Double Angle (3/8	A36 Gr.36	Typical	2.18	4.97	1.9	.027
10	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
11	Support Rail Corner ...	L2.5x2.5x4	Beam	Single Angle	A36 Gr.36	Typical	1.19	.692	.692	.026

**Hot Rolled Steel Properties**

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...	Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
3	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1



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**Hot Rolled Steel Properties (Continued)**

	Label	E [ksil]	G [ksil]	Nu	Therm (/1E...Density[k/ft...	Yield[ksil]	Rv	Fu[ksil]	Rt	
4	A500 Gr.B RND	29000	11154	.3	.65	.527	42	1.4	58	1.3
5	A500 Gr.B Rect	29000	11154	.3	.65	.527	46	1.4	58	1.3
6	A53 Gr.B	29000	11154	.3	.65	.49	35	1.6	60	1.2
7	A1085	29000	11154	.3	.65	.49	50	1.4	65	1.3
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

**Member Primary Data**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
2	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
3	M10	N101	N103A		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
4	M19	N8	N9			RIGID	None	None	RIGID	Typical
5	M20	N10	N11			RIGID	None	None	RIGID	Typical
6	M21	N12	N13			RIGID	None	None	RIGID	Typical
7	M22	N14	N15			RIGID	None	None	RIGID	Typical
8	MP3A	N17	N16			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
9	MP4A	N19	N18			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
10	MP2A	N21	N20			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
11	MP1A	N23	N22			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
12	M43	N102	N5		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
13	M46	N86C	N87A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
14	M35A	N7	N30			RIGID	None	None	RIGID	Typical
15	M36A	N6	N29			RIGID	None	None	RIGID	Typical
16	M51B	N87C	N6			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
17	M52B	N7	N87B			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
18	M52	N87B	N88C			RIGID	None	None	RIGID	Typical
19	M58	N102	N24			RIGID	None	None	RIGID	Typical
20	M59	N24	N103A			RIGID	None	None	RIGID	Typical
21	M76	N101	N105			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
22	M84	N5	N104A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
23	M50	N88C	N88A			RIGID	None	None	RIGID	Typical
24	M51	N88A	N86G			RIGID	None	None	RIGID	Typical
25	M51A	N87C	N86G			RIGID	None	None	RIGID	Typical
26	M52A	N87D	N92			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
27	M53	N95	N97		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
28	M54	N96	N88B		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
29	M55	N106	N107			Corner Plate	Beam	RECT	A36 Gr.36	Typical
30	M56	N90	N94			RIGID	None	None	RIGID	Typical
31	M57	N89	N93			RIGID	None	None	RIGID	Typical
32	M58A	N111	N89			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
33	M59A	N90	N113			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
34	M60	N113	N114			RIGID	None	None	RIGID	Typical
35	M61	N96	N91			RIGID	None	None	RIGID	Typical
36	M62	N91	N97			RIGID	None	None	RIGID	Typical
37	M63	N95	N99			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
38	M68	N88B	N98			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
39	M69	N98	N102A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
40	M70	N102A	N105A			RIGID	None	None	RIGID	Typical
41	M71	N106	N103			Corner Plate	Beam	RECT	A36 Gr.36	Typical
42	M72	N103	N109			RIGID	None	None	RIGID	Typical
43	M73	N114	N110			RIGID	None	None	RIGID	Typical
44	M74	N110	N112			RIGID	None	None	RIGID	Typical
45	M75	N111	N112			RIGID	None	None	RIGID	Typical
46	M76A	N115	N120			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
47	M77A	N123	N125		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
48	M78	N124	N116		180	Platform Cross...	Beam	Single Angle	A36 Gr.36	Typical
49	M79A	N134	N135A			Corner Plate	Beam	RECT	A36 Gr.36	Typical
50	M80A	N118	N122			RIGID	None	None	RIGID	Typical
51	M81	N117	N121			RIGID	None	None	RIGID	Typical
52	M82	N139	N117			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
53	M83A	N118	N141			Grating Support	Beam	Single Angle	A36 Gr.36	Typical
54	M84A	N141	N142			RIGID	None	None	RIGID	Typical
55	M85A	N124	N119			RIGID	None	None	RIGID	Typical
56	M86	N119	N125			RIGID	None	None	RIGID	Typical
57	M87	N123	N127			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
58	M88A	N127	N128			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
59	M89	N128	N132			RIGID	None	None	RIGID	Typical
60	M90	N135A	N129			Corner Plate	Beam	RECT	A36 Gr.36	Typical
61	M91A	N129	N136			RIGID	None	None	RIGID	Typical
62	M92A	N116	N126			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
63	M97	N142	N138			RIGID	None	None	RIGID	Typical
64	M98	N138	N140			RIGID	None	None	RIGID	Typical
65	M99	N139	N140			RIGID	None	None	RIGID	Typical
66	M82A	N104B	N105B			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
67	M83B	N106A	N107A			RIGID	None	None	RIGID	Typical
68	M84B	N108A	N109A			RIGID	None	None	RIGID	Typical
69	M85B	N110A	N111A			RIGID	None	None	RIGID	Typical
70	M86A	N112A	N113A			RIGID	None	None	RIGID	Typical
71	MP3C	N115A	N114A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
72	MP4C	N117A	N116A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
73	MP2C	N119A	N118A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
74	MP1C	N121A	N120A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
75	M91B	N122A	N123A			Face Horizontal	Beam	Pipe	A53 Gr.B	Typical
76	M92B	N124A	N125A			RIGID	None	None	RIGID	Typical
77	M93A	N126A	N127A			RIGID	None	None	RIGID	Typical
78	M94A	N128A	N129A			RIGID	None	None	RIGID	Typical
79	M95A	N130A	N131B			RIGID	None	None	RIGID	Typical
80	MP3B	N133A	N132A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
81	MP4B	N135B	N134A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
82	MP2B	N137A	N136A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
83	MP1B	N139A	N138A			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
84	M92C	N126	N133			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
85	M93	N133	N134B			RIGID	None	None	RIGID	Typical
86	M94	N105	N136B			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
87	M95B	N136B	N137B			RIGID	None	None	RIGID	Typical
88	M96A	N104A	N139B			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
89	M97A	N139B	N140A			RIGID	None	None	RIGID	Typical
90	M98A	N99	N142A			Cross Arm Plate	Column	RECT	A36 Gr.36	Typical
91	M99A	N142A	N143			RIGID	None	None	RIGID	Typical
92	M100	N142B	N143A			Standoff Moun...	Column	Pipe	A53 Gr.B	Typical
93	M93B	N134	N137			Corner Plate	Beam	RECT	A36 Gr.36	Typical
94	M94B	N137	N139C			RIGID	None	None	RIGID	Typical
95	M95	N87A	N140C			Corner Plate	Beam	RECT	A36 Gr.36	Typical
96	M96	N140C	N142C			RIGID	None	None	RIGID	Typical
97	M97B	N86C	N143B			Corner Plate	Beam	RECT	A36 Gr.36	Typical
98	M98B	N143B	N145			RIGID	None	None	RIGID	Typical
99	M99B	N107	N146			Corner Plate	Beam	RECT	A36 Gr.36	Typical
100	M100A	N146	N148			RIGID	None	None	RIGID	Typical
101	M101	N140B	N141A			RIGID	None	None	RIGID	Typical
102	M102	N145A	N146A			Support Rail	Beam	Pipe	A53 Gr.B	Typical
103	M103	N147	N148A			RIGID	None	None	RIGID	Typical
104	M104	N149	N150			RIGID	None	None	RIGID	Typical



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**Member Primary Data (Continued)**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
105	M105	N151	N152			RIGID	None	None	RIGID	Typical
106	M106	N153	N154			RIGID	None	None	RIGID	Typical
107	M107	N155	N156			Support Rail	Beam	Pipe	A53 Gr.B	Typical
108	M108	N157	N158			RIGID	None	None	RIGID	Typical
109	M109	N159	N160			RIGID	None	None	RIGID	Typical
110	M110	N161	N162			RIGID	None	None	RIGID	Typical
111	M111	N163	N164			RIGID	None	None	RIGID	Typical
112	M112	N165	N166			Support Rail	Beam	Pipe	A53 Gr.B	Typical
113	M113	N167	N168			RIGID	None	None	RIGID	Typical
114	M114	N169	N170			RIGID	None	None	RIGID	Typical
115	M115	N171	N172			RIGID	None	None	RIGID	Typical
116	M116	N173	N174			RIGID	None	None	RIGID	Typical
117	M117	N175	N176			RIGID	None	None	RIGID	Typical
118	M118	N177	N178			RIGID	None	None	RIGID	Typical
119	M123	N176	N202		90	Support Rail C..	Beam	Single Angle	A36 Gr.36	Typical
120	M124	N200	N197		90	Support Rail C..	Beam	Single Angle	A36 Gr.36	Typical
121	M125	N195	N178		90	Support Rail C..	Beam	Single Angle	A36 Gr.36	Typical
122	M126	N187	N188			Kicker	Column	Double Angle (...)	A36 Gr.36	Typical
123	M127	N189	N190			Kicker	Column	Double Angle (...)	A36 Gr.36	Typical
124	M128	N191	N192			Kicker	Column	Double Angle (...)	A36 Gr.36	Typical
125	M129	N194	N195			RIGID	None	None	RIGID	Typical
126	M130	N196	N197			RIGID	None	None	RIGID	Typical
127	M131	N199	N200			RIGID	None	None	RIGID	Typical
128	M132	N201	N202			RIGID	None	None	RIGID	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	Default			None
2	M4						Yes				None
3	M10						Yes	Default			None
4	M19						Yes	** NA **			None
5	M20						Yes	** NA **			None
6	M21						Yes	** NA **			None
7	M22						Yes	** NA **			None
8	MP3A						Yes	** NA **			None
9	MP4A						Yes	** NA **			None
10	MP2A						Yes	** NA **			None
11	MP1A						Yes	** NA **			None
12	M43						Yes	Default			None
13	M46						Yes	Default			None
14	M35A						Yes	** NA **			None
15	M36A						Yes	** NA **			None
16	M51B	OOOOOX	OOOOOX				Yes	Default			None
17	M52B	OOOOOX	OOOOOX				Yes	Default			None
18	M52						Yes	** NA **			None
19	M58						Yes	** NA **			None
20	M59						Yes	** NA **			None
21	M76						Yes	** NA **			None
22	M84						Yes	** NA **			None
23	M50						Yes	** NA **			None
24	M51						Yes	** NA **			None
25	M51A						Yes	** NA **			None
26	M52A						Yes	Default			None
27	M53						Yes	Default			None
28	M54						Yes	Default			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...
29	M55						Yes	Default			None
30	M56						Yes	** NA **			None
31	M57						Yes	** NA **			None
32	M58A	OOOOOX	OOOOOX				Yes	Default			None
33	M59A	OOOOOX	OOOOOX				Yes	Default			None
34	M60						Yes	** NA **			None
35	M61						Yes	** NA **			None
36	M62						Yes	** NA **			None
37	M63						Yes	** NA **			None
38	M68						Yes	** NA **			None
39	M69						Yes	** NA **			None
40	M70		BenPIN				Yes	** NA **			None
41	M71						Yes				None
42	M72		BenPIN				Yes	** NA **			None
43	M73						Yes	** NA **			None
44	M74						Yes	** NA **			None
45	M75						Yes	** NA **			None
46	M76A						Yes				None
47	M77A						Yes	Default			None
48	M78						Yes	Default			None
49	M79A						Yes	Default			None
50	M80A						Yes	** NA **			None
51	M81						Yes	** NA **			None
52	M82	OOOOOX	OOOOOX				Yes	Default			None
53	M83A	OOOOOX	OOOOOX				Yes	Default			None
54	M84A						Yes	** NA **			None
55	M85A						Yes	** NA **			None
56	M86						Yes	** NA **			None
57	M87						Yes	** NA **			None
58	M88A						Yes	** NA **			None
59	M89		BenPIN				Yes	** NA **			None
60	M90						Yes				None
61	M91A		BenPIN				Yes	** NA **			None
62	M92A						Yes	** NA **			None
63	M97						Yes	** NA **			None
64	M98						Yes	** NA **			None
65	M99						Yes	** NA **			None
66	M82A						Yes	Default			None
67	M83B						Yes	** NA **			None
68	M84B						Yes	** NA **			None
69	M85B						Yes	** NA **			None
70	M86A						Yes	** NA **			None
71	MP3C						Yes	** NA **			None
72	MP4C						Yes	** NA **			None
73	MP2C						Yes	** NA **			None
74	MP1C						Yes	** NA **			None
75	M91B						Yes	Default			None
76	M92B						Yes	** NA **			None
77	M93A						Yes	** NA **			None
78	M94A						Yes	** NA **			None
79	M95A						Yes	** NA **			None
80	MP3B						Yes	** NA **			None
81	MP4B						Yes	** NA **			None
82	MP2B						Yes	** NA **			None
83	MP1B						Yes	** NA **			None
84	M92C						Yes	** NA **			None
85	M93		BenPIN				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...
86	M94						Yes	** NA **			None
87	M95B		BenPIN				Yes	** NA **			None
88	M96A						Yes	** NA **			None
89	M97A		BenPIN				Yes	** NA **			None
90	M98A						Yes	** NA **			None
91	M99A		BenPIN				Yes	** NA **			None
92	M100						Yes	** NA **			None
93	M93B						Yes	** NA **			None
94	M94B		BenPIN				Yes	** NA **			None
95	M95						Yes	** NA **			None
96	M96		BenPIN				Yes	** NA **			None
97	M97B						Yes	** NA **			None
98	M98B		BenPIN				Yes	** NA **			None
99	M99B						Yes	** NA **			None
100	M100A		BenPIN				Yes	** NA **			None
101	M101						Yes	** NA **			None
102	M102						Yes	Default			None
103	M103						Yes	** NA **			None
104	M104						Yes	** NA **			None
105	M105						Yes	** NA **			None
106	M106						Yes	** NA **			None
107	M107						Yes	Default			None
108	M108						Yes	** NA **			None
109	M109						Yes	** NA **			None
110	M110						Yes	** NA **			None
111	M111						Yes	** NA **			None
112	M112						Yes	Default			None
113	M113						Yes	** NA **			None
114	M114						Yes	** NA **			None
115	M115						Yes	** NA **			None
116	M116						Yes	** NA **			None
117	M117	OOOOOX					Yes	** NA **			None
118	M118	OOOOOX					Yes	** NA **			None
119	M123						Yes	** NA **			None
120	M124						Yes	** NA **			None
121	M125						Yes	** NA **			None
122	M126	BenPIN	BenPIN				Yes	** NA **			None
123	M127	BenPIN	BenPIN				Yes	** NA **			None
124	M128	BenPIN	BenPIN				Yes	** NA **			None
125	M129	OOOOOX					Yes	** NA **			None
126	M130	OOOOOX					Yes	** NA **			None
127	M131	OOOOOX					Yes	** NA **			None
128	M132	OOOOOX					Yes	** NA **			None

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	Y	-17.6	3.5
2	MP1A	My	.009	3.5
3	MP1A	Mz	0	3.5
4	MP1C	Y	-17.6	3.5
5	MP1C	My	-.004	3.5
6	MP1C	Mz	-.008	3.5
7	MP1A	Y	-84.4	2
8	MP1A	My	-.056	2
9	MP1A	Mz	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP1B	Y	-84.4	2
11	MP1B	My	.028	2
12	MP1B	Mz	-.049	2
13	MP1C	Y	-84.4	2
14	MP1C	My	.028	2
15	MP1C	Mz	.049	2
16	MP1A	Y	-18.7	5
17	MP1A	My	.012	5
18	MP1A	Mz	0	5
19	MP1B	Y	-18.7	5
20	MP1B	My	-.006	5
21	MP1B	Mz	.011	5
22	MP1C	Y	-18.7	5
23	MP1C	My	-.006	5
24	MP1C	Mz	-.011	5
25	MP2A	Y	-35.15	2.38
26	MP2A	My	-.018	2.38
27	MP2A	Mz	0	2.38
28	MP2A	Y	-35.15	3.63
29	MP2A	My	-.018	3.63
30	MP2A	Mz	0	3.63
31	MP2B	Y	-35.15	2.38
32	MP2B	My	.009	2.38
33	MP2B	Mz	-.015	2.38
34	MP2B	Y	-35.15	3.63
35	MP2B	My	.009	3.63
36	MP2B	Mz	-.015	3.63
37	MP2C	Y	-35.15	2.38
38	MP2C	My	.009	2.38
39	MP2C	Mz	.015	2.38
40	MP2C	Y	-35.15	3.63
41	MP2C	My	.009	3.63
42	MP2C	Mz	.015	3.63
43	MP4A	Y	-4.95	1.03
44	MP4A	My	-.002	1.03
45	MP4A	Mz	0	1.03
46	MP4A	Y	-4.95	4.98
47	MP4A	My	-.002	4.98
48	MP4A	Mz	0	4.98
49	MP4B	Y	-4.95	1.03
50	MP4B	My	.001	1.03
51	MP4B	Mz	-.002	1.03
52	MP4B	Y	-4.95	4.98
53	MP4B	My	.001	4.98
54	MP4B	Mz	-.002	4.98
55	MP4C	Y	-4.95	1.03
56	MP4C	My	.001	1.03
57	MP4C	Mz	.002	1.03
58	MP4C	Y	-4.95	4.98
59	MP4C	My	.001	4.98
60	MP4C	Mz	.002	4.98
61	M100	Y	-32	2
62	M100	My	-.021	2
63	M100	Mz	0	2
64	MP1A	Y	-23	1
65	MP1A	My	-.015	1
66	MP1A	Mz	-.017	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
67	MP1A	Y	-23	5
68	MP1A	My	-.015	5
69	MP1A	Mz	-.017	5
70	MP1B	Y	-23	1
71	MP1B	My	.023	1
72	MP1B	Mz	-.005	1
73	MP1B	Y	-23	5
74	MP1B	My	.023	5
75	MP1B	Mz	-.005	5
76	MP1C	Y	-23	1
77	MP1C	My	-.007	1
78	MP1C	Mz	.022	1
79	MP1C	Y	-23	5
80	MP1C	My	-.007	5
81	MP1C	Mz	.022	5
82	MP1A	Y	-38.8	1
83	MP1A	My	-.026	1
84	MP1A	Mz	.029	1
85	MP1A	Y	-38.8	5
86	MP1A	My	-.026	5
87	MP1A	Mz	.029	5
88	MP1B	Y	-38.8	1
89	MP1B	My	-.012	1
90	MP1B	Mz	-.037	1
91	MP1B	Y	-38.8	5
92	MP1B	My	-.012	5
93	MP1B	Mz	-.037	5
94	MP1C	Y	-38.8	1
95	MP1C	My	.038	1
96	MP1C	Mz	.008	1
97	MP1C	Y	-38.8	5
98	MP1C	My	.038	5
99	MP1C	Mz	.008	5
100	MP3A	Y	-40.8	2
101	MP3A	My	-.027	2
102	MP3A	Mz	0	2
103	MP3A	Y	-40.8	4
104	MP3A	My	-.027	4
105	MP3A	Mz	0	4
106	MP3B	Y	-40.8	2
107	MP3B	My	.014	2
108	MP3B	Mz	-.024	2
109	MP3B	Y	-40.8	4
110	MP3B	My	.014	4
111	MP3B	Mz	-.024	4
112	MP3C	Y	-40.8	2
113	MP3C	My	.014	2
114	MP3C	Mz	.024	2
115	MP3C	Y	-40.8	4
116	MP3C	My	.014	4
117	MP3C	Mz	.024	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	Y	-17.462	3.5
2	MP1A	My	.009	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP1A	Mz	0	3.5
4	MP1C	Y	-17.462	3.5
5	MP1C	My	-.004	3.5
6	MP1C	Mz	-.008	3.5
7	MP1A	Y	-45.179	2
8	MP1A	My	-.03	2
9	MP1A	Mz	0	2
10	MP1B	Y	-45.179	2
11	MP1B	My	.015	2
12	MP1B	Mz	-.026	2
13	MP1C	Y	-45.179	2
14	MP1C	My	.015	2
15	MP1C	Mz	.026	2
16	MP1A	Y	-19.969	5
17	MP1A	My	.013	5
18	MP1A	Mz	0	5
19	MP1B	Y	-19.969	5
20	MP1B	My	-.007	5
21	MP1B	Mz	.012	5
22	MP1C	Y	-19.969	5
23	MP1C	My	-.007	5
24	MP1C	Mz	-.012	5
25	MP2A	Y	-20.316	2.38
26	MP2A	My	-.01	2.38
27	MP2A	Mz	0	2.38
28	MP2A	Y	-20.316	3.63
29	MP2A	My	-.01	3.63
30	MP2A	Mz	0	3.63
31	MP2B	Y	-20.316	2.38
32	MP2B	My	.005	2.38
33	MP2B	Mz	-.009	2.38
34	MP2B	Y	-20.316	3.63
35	MP2B	My	.005	3.63
36	MP2B	Mz	-.009	3.63
37	MP2C	Y	-20.316	2.38
38	MP2C	My	.005	2.38
39	MP2C	Mz	.009	2.38
40	MP2C	Y	-20.316	3.63
41	MP2C	My	.005	3.63
42	MP2C	Mz	.009	3.63
43	MP4A	Y	-34.31	1.03
44	MP4A	My	-.017	1.03
45	MP4A	Mz	0	1.03
46	MP4A	Y	-34.31	4.98
47	MP4A	My	-.017	4.98
48	MP4A	Mz	0	4.98
49	MP4B	Y	-34.31	1.03
50	MP4B	My	.009	1.03
51	MP4B	Mz	-.015	1.03
52	MP4B	Y	-34.31	4.98
53	MP4B	My	.009	4.98
54	MP4B	Mz	-.015	4.98
55	MP4C	Y	-34.31	1.03
56	MP4C	My	.009	1.03
57	MP4C	Mz	.015	1.03
58	MP4C	Y	-34.31	4.98
59	MP4C	My	.009	4.98



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

	Member Label	Direction	Magnitudel[lb.k-ft]	Location[ft.%]
60	MP4C	Mz	.015	4.98
61	M100	Y	-64.064	2
62	M100	My	-.043	2
63	M100	Mz	0	2
64	MP1A	Y	-82.955	1
65	MP1A	My	-.055	1
66	MP1A	Mz	-.062	1
67	MP1A	Y	-82.955	5
68	MP1A	My	-.055	5
69	MP1A	Mz	-.062	5
70	MP1B	Y	-82.955	1
71	MP1B	My	.082	1
72	MP1B	Mz	-.017	1
73	MP1B	Y	-82.955	5
74	MP1B	My	.082	5
75	MP1B	Mz	-.017	5
76	MP1C	Y	-82.955	1
77	MP1C	My	-.026	1
78	MP1C	Mz	.079	1
79	MP1C	Y	-82.955	5
80	MP1C	My	-.026	5
81	MP1C	Mz	.079	5
82	MP1A	Y	-70.395	1
83	MP1A	My	-.047	1
84	MP1A	Mz	.053	1
85	MP1A	Y	-70.395	5
86	MP1A	My	-.047	5
87	MP1A	Mz	.053	5
88	MP1B	Y	-70.395	1
89	MP1B	My	-.022	1
90	MP1B	Mz	-.067	1
91	MP1B	Y	-70.395	5
92	MP1B	My	-.022	5
93	MP1B	Mz	-.067	5
94	MP1C	Y	-70.395	1
95	MP1C	My	.069	1
96	MP1C	Mz	.014	1
97	MP1C	Y	-70.395	5
98	MP1C	My	.069	5
99	MP1C	Mz	.014	5
100	MP3A	Y	-36.113	2
101	MP3A	My	-.024	2
102	MP3A	Mz	0	2
103	MP3A	Y	-36.113	4
104	MP3A	My	-.024	4
105	MP3A	Mz	0	4
106	MP3B	Y	-36.113	2
107	MP3B	My	.012	2
108	MP3B	Mz	-.021	2
109	MP3B	Y	-36.113	4
110	MP3B	My	.012	4
111	MP3B	Mz	-.021	4
112	MP3C	Y	-36.113	2
113	MP3C	My	.012	2
114	MP3C	Mz	.021	2
115	MP3C	Y	-36.113	4
116	MP3C	My	.012	4



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
117 MP3C	Mz	.021	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	0	3.5
2	MP1A	Z	-48.416	3.5
3	MP1A	Mx	0	3.5
4	MP1C	X	0	3.5
5	MP1C	Z	-23.118	3.5
6	MP1C	Mx	.01	3.5
7	MP1A	X	0	2
8	MP1A	Z	-78.172	2
9	MP1A	Mx	0	2
10	MP1B	X	0	2
11	MP1B	Z	-58.881	2
12	MP1B	Mx	.034	2
13	MP1C	X	0	2
14	MP1C	Z	-58.881	2
15	MP1C	Mx	-.034	2
16	MP1A	X	0	5
17	MP1A	Z	-36.312	5
18	MP1A	Mx	0	5
19	MP1B	X	0	5
20	MP1B	Z	-21.938	5
21	MP1B	Mx	-.013	5
22	MP1C	X	0	5
23	MP1C	Z	-21.938	5
24	MP1C	Mx	.013	5
25	MP2A	X	0	2.38
26	MP2A	Z	-39.086	2.38
27	MP2A	Mx	0	2.38
28	MP2A	X	0	3.63
29	MP2A	Z	-39.086	3.63
30	MP2A	Mx	0	3.63
31	MP2B	X	0	2.38
32	MP2B	Z	-25.847	2.38
33	MP2B	Mx	.011	2.38
34	MP2B	X	0	3.63
35	MP2B	Z	-25.847	3.63
36	MP2B	Mx	.011	3.63
37	MP2C	X	0	2.38
38	MP2C	Z	-25.847	2.38
39	MP2C	Mx	-.011	2.38
40	MP2C	X	0	3.63
41	MP2C	Z	-25.847	3.63
42	MP2C	Mx	-.011	3.63
43	MP4A	X	0	1.03
44	MP4A	Z	-119.022	1.03
45	MP4A	Mx	0	1.03
46	MP4A	X	0	4.98
47	MP4A	Z	-119.022	4.98
48	MP4A	Mx	0	4.98
49	MP4B	X	0	1.03
50	MP4B	Z	-72.275	1.03
51	MP4B	Mx	.031	1.03
52	MP4B	X	0	4.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
53	MP4B	Z	-72.275	4.98
54	MP4B	Mx	.031	4.98
55	MP4C	X	0	1.03
56	MP4C	Z	-72.275	1.03
57	MP4C	Mx	-.031	1.03
58	MP4C	X	0	4.98
59	MP4C	Z	-72.275	4.98
60	MP4C	Mx	-.031	4.98
61	M100	X	0	2
62	M100	Z	-159.873	2
63	M100	Mx	0	2
64	MP1A	X	0	1
65	MP1A	Z	-119.275	1
66	MP1A	Mx	.089	1
67	MP1A	X	0	5
68	MP1A	Z	-119.275	5
69	MP1A	Mx	.089	5
70	MP1B	X	0	1
71	MP1B	Z	-96.769	1
72	MP1B	Mx	.02	1
73	MP1B	X	0	5
74	MP1B	Z	-96.769	5
75	MP1B	Mx	.02	5
76	MP1C	X	0	1
77	MP1C	Z	-96.769	1
78	MP1C	Mx	-.092	1
79	MP1C	X	0	5
80	MP1C	Z	-96.769	5
81	MP1C	Mx	-.092	5
82	MP1A	X	0	1
83	MP1A	Z	-178.281	1
84	MP1A	Mx	-.134	1
85	MP1A	X	0	5
86	MP1A	Z	-178.281	5
87	MP1A	Mx	-.134	5
88	MP1B	X	0	1
89	MP1B	Z	-92.986	1
90	MP1B	Mx	.089	1
91	MP1B	X	0	5
92	MP1B	Z	-92.986	5
93	MP1B	Mx	.089	5
94	MP1C	X	0	1
95	MP1C	Z	-92.986	1
96	MP1C	Mx	-.019	1
97	MP1C	X	0	5
98	MP1C	Z	-92.986	5
99	MP1C	Mx	-.019	5
100	MP3A	X	0	2
101	MP3A	Z	-101.623	2
102	MP3A	Mx	0	2
103	MP3A	X	0	4
104	MP3A	Z	-101.623	4
105	MP3A	Mx	0	4
106	MP3B	X	0	2
107	MP3B	Z	-66.015	2
108	MP3B	Mx	.038	2
109	MP3B	X	0	4





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
110	MP3B	Z	-66.015	4
111	MP3B	Mx	.038	4
112	MP3C	X	0	2
113	MP3C	Z	-66.015	2
114	MP3C	Mx	-.038	2
115	MP3C	X	0	4
116	MP3C	Z	-66.015	4
117	MP3C	Mx	-.038	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	19.992	3.5
2	MP1A	Z	-34.626	3.5
3	MP1A	Mx	.01	3.5
4	MP1C	X	19.992	3.5
5	MP1C	Z	-34.626	3.5
6	MP1C	Mx	.01	3.5
7	MP1A	X	35.871	2
8	MP1A	Z	-62.13	2
9	MP1A	Mx	-.024	2
10	MP1B	X	26.225	2
11	MP1B	Z	-45.424	2
12	MP1B	Mx	.035	2
13	MP1C	X	35.871	2
14	MP1C	Z	-62.13	2
15	MP1C	Mx	-.024	2
16	MP1A	X	15.76	5
17	MP1A	Z	-27.298	5
18	MP1A	Mx	.011	5
19	MP1B	X	8.574	5
20	MP1B	Z	-14.85	5
21	MP1B	Mx	-.011	5
22	MP1C	X	15.76	5
23	MP1C	Z	-27.298	5
24	MP1C	Mx	.011	5
25	MP2A	X	17.336	2.38
26	MP2A	Z	-30.028	2.38
27	MP2A	Mx	-.009	2.38
28	MP2A	X	17.336	3.63
29	MP2A	Z	-30.028	3.63
30	MP2A	Mx	-.009	3.63
31	MP2B	X	10.717	2.38
32	MP2B	Z	-18.562	2.38
33	MP2B	Mx	.011	2.38
34	MP2B	X	10.717	3.63
35	MP2B	Z	-18.562	3.63
36	MP2B	Mx	.011	3.63
37	MP2C	X	17.336	2.38
38	MP2C	Z	-30.028	2.38
39	MP2C	Mx	-.009	2.38
40	MP2C	X	17.336	3.63
41	MP2C	Z	-30.028	3.63
42	MP2C	Mx	-.009	3.63
43	MP4A	X	51.72	1.03
44	MP4A	Z	-89.582	1.03
45	MP4A	Mx	-.026	1.03



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
46	MP4A	X	51.72	4.98
47	MP4A	Z	-89.582	4.98
48	MP4A	Mx	-.026	4.98
49	MP4B	X	28.346	1.03
50	MP4B	Z	-49.097	1.03
51	MP4B	Mx	.028	1.03
52	MP4B	X	28.346	4.98
53	MP4B	Z	-49.097	4.98
54	MP4B	Mx	.028	4.98
55	MP4C	X	51.72	1.03
56	MP4C	Z	-89.582	1.03
57	MP4C	Mx	-.026	1.03
58	MP4C	X	51.72	4.98
59	MP4C	Z	-89.582	4.98
60	MP4C	Mx	-.026	4.98
61	M100	X	75.146	2
62	M100	Z	-130.156	2
63	M100	Mx	-.05	2
64	MP1A	X	55.886	1
65	MP1A	Z	-96.798	1
66	MP1A	Mx	.035	1
67	MP1A	X	55.886	5
68	MP1A	Z	-96.798	5
69	MP1A	Mx	.035	5
70	MP1B	X	44.633	1
71	MP1B	Z	-77.307	1
72	MP1B	Mx	.06	1
73	MP1B	X	44.633	5
74	MP1B	Z	-77.307	5
75	MP1B	Mx	.06	5
76	MP1C	X	55.886	1
77	MP1C	Z	-96.798	1
78	MP1C	Mx	-.11	1
79	MP1C	X	55.886	5
80	MP1C	Z	-96.798	5
81	MP1C	Mx	-.11	5
82	MP1A	X	74.925	1
83	MP1A	Z	-129.774	1
84	MP1A	Mx	-.147	1
85	MP1A	X	74.925	5
86	MP1A	Z	-129.774	5
87	MP1A	Mx	-.147	5
88	MP1B	X	32.277	1
89	MP1B	Z	-55.906	1
90	MP1B	Mx	.043	1
91	MP1B	X	32.277	5
92	MP1B	Z	-55.906	5
93	MP1B	Mx	.043	5
94	MP1C	X	74.925	1
95	MP1C	Z	-129.774	1
96	MP1C	Mx	.047	1
97	MP1C	X	74.925	5
98	MP1C	Z	-129.774	5
99	MP1C	Mx	.047	5
100	MP3A	X	44.877	2
101	MP3A	Z	-77.729	2
102	MP3A	Mx	-.03	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	MP3A	X	44.877	4
104	MP3A	Z	-77.729	4
105	MP3A	Mx	-.03	4
106	MP3B	X	27.073	2
107	MP3B	Z	-46.892	2
108	MP3B	Mx	.036	2
109	MP3B	X	27.073	4
110	MP3B	Z	-46.892	4
111	MP3B	Mx	.036	4
112	MP3C	X	44.877	2
113	MP3C	Z	-77.729	2
114	MP3C	Mx	-.03	2
115	MP3C	X	44.877	4
116	MP3C	Z	-77.729	4
117	MP3C	Mx	-.03	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	20.02	3.5
2	MP1A	Z	-11.559	3.5
3	MP1A	Mx	.01	3.5
4	MP1C	X	41.929	3.5
5	MP1C	Z	-24.208	3.5
6	MP1C	Mx	0	3.5
7	MP1A	X	50.992	2
8	MP1A	Z	-29.44	2
9	MP1A	Mx	-.034	2
10	MP1B	X	50.992	2
11	MP1B	Z	-29.44	2
12	MP1B	Mx	.034	2
13	MP1C	X	67.699	2
14	MP1C	Z	-39.086	2
15	MP1C	Mx	0	2
16	MP1A	X	18.999	5
17	MP1A	Z	-10.969	5
18	MP1A	Mx	.013	5
19	MP1B	X	18.999	5
20	MP1B	Z	-10.969	5
21	MP1B	Mx	-.013	5
22	MP1C	X	31.447	5
23	MP1C	Z	-18.156	5
24	MP1C	Mx	0	5
25	MP2A	X	22.384	2.38
26	MP2A	Z	-12.924	2.38
27	MP2A	Mx	-.011	2.38
28	MP2A	X	22.384	3.63
29	MP2A	Z	-12.924	3.63
30	MP2A	Mx	-.011	3.63
31	MP2B	X	22.384	2.38
32	MP2B	Z	-12.924	2.38
33	MP2B	Mx	.011	2.38
34	MP2B	X	22.384	3.63
35	MP2B	Z	-12.924	3.63
36	MP2B	Mx	.011	3.63
37	MP2C	X	33.849	2.38
38	MP2C	Z	-19.543	2.38



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
39	MP2C	Mx	0	2.38
40	MP2C	X	33.849	3.63
41	MP2C	Z	-19.543	3.63
42	MP2C	Mx	0	3.63
43	MP4A	X	62.592	1.03
44	MP4A	Z	-36.137	1.03
45	MP4A	Mx	-.031	1.03
46	MP4A	X	62.592	4.98
47	MP4A	Z	-36.137	4.98
48	MP4A	Mx	-.031	4.98
49	MP4B	X	62.592	1.03
50	MP4B	Z	-36.137	1.03
51	MP4B	Mx	.031	1.03
52	MP4B	X	62.592	4.98
53	MP4B	Z	-36.137	4.98
54	MP4B	Mx	.031	4.98
55	MP4C	X	103.076	1.03
56	MP4C	Z	-59.511	1.03
57	MP4C	Mx	0	1.03
58	MP4C	X	103.076	4.98
59	MP4C	Z	-59.511	4.98
60	MP4C	Mx	0	4.98
61	M100	X	113.559	2
62	M100	Z	-65.563	2
63	M100	Mx	-.076	2
64	MP1A	X	83.804	1
65	MP1A	Z	-48.384	1
66	MP1A	Mx	-.02	1
67	MP1A	X	83.804	5
68	MP1A	Z	-48.384	5
69	MP1A	Mx	-.02	5
70	MP1B	X	83.804	1
71	MP1B	Z	-48.384	1
72	MP1B	Mx	.092	1
73	MP1B	X	83.804	5
74	MP1B	Z	-48.384	5
75	MP1B	Mx	.092	5
76	MP1C	X	103.295	1
77	MP1C	Z	-59.637	1
78	MP1C	Mx	-.089	1
79	MP1C	X	103.295	5
80	MP1C	Z	-59.637	5
81	MP1C	Mx	-.089	5
82	MP1A	X	80.528	1
83	MP1A	Z	-46.493	1
84	MP1A	Mx	-.089	1
85	MP1A	X	80.528	5
86	MP1A	Z	-46.493	5
87	MP1A	Mx	-.089	5
88	MP1B	X	80.528	1
89	MP1B	Z	-46.493	1
90	MP1B	Mx	.019	1
91	MP1B	X	80.528	5
92	MP1B	Z	-46.493	5
93	MP1B	Mx	.019	5
94	MP1C	X	154.396	1
95	MP1C	Z	-89.141	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
96	MP1C	Mx	.134	1
97	MP1C	X	154.396	5
98	MP1C	Z	-89.141	5
99	MP1C	Mx	.134	5
100	MP3A	X	57.171	2
101	MP3A	Z	-33.008	2
102	MP3A	Mx	-.038	2
103	MP3A	X	57.171	4
104	MP3A	Z	-33.008	4
105	MP3A	Mx	-.038	4
106	MP3B	X	57.171	2
107	MP3B	Z	-33.008	2
108	MP3B	Mx	.038	2
109	MP3B	X	57.171	4
110	MP3B	Z	-33.008	4
111	MP3B	Mx	.038	4
112	MP3C	X	88.008	2
113	MP3C	Z	-50.811	2
114	MP3C	Mx	0	2
115	MP3C	X	88.008	4
116	MP3C	Z	-50.811	4
117	MP3C	Mx	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	14.685	3.5
2	MP1A	Z	0	3.5
3	MP1A	Mx	.007	3.5
4	MP1C	X	39.983	3.5
5	MP1C	Z	0	3.5
6	MP1C	Mx	-.01	3.5
7	MP1A	X	52.451	2
8	MP1A	Z	0	2
9	MP1A	Mx	-.035	2
10	MP1B	X	71.741	2
11	MP1B	Z	0	2
12	MP1B	Mx	.024	2
13	MP1C	X	71.741	2
14	MP1C	Z	0	2
15	MP1C	Mx	.024	2
16	MP1A	X	17.147	5
17	MP1A	Z	0	5
18	MP1A	Mx	.011	5
19	MP1B	X	31.521	5
20	MP1B	Z	0	5
21	MP1B	Mx	-.011	5
22	MP1C	X	31.521	5
23	MP1C	Z	0	5
24	MP1C	Mx	-.011	5
25	MP2A	X	21.434	2.38
26	MP2A	Z	0	2.38
27	MP2A	Mx	-.011	2.38
28	MP2A	X	21.434	3.63
29	MP2A	Z	0	3.63
30	MP2A	Mx	-.011	3.63
31	MP2B	X	34.673	2.38



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP2B	Z	0	2.38
33	MP2B	Mx	.009	2.38
34	MP2B	X	34.673	3.63
35	MP2B	Z	0	3.63
36	MP2B	Mx	.009	3.63
37	MP2C	X	34.673	2.38
38	MP2C	Z	0	2.38
39	MP2C	Mx	.009	2.38
40	MP2C	X	34.673	3.63
41	MP2C	Z	0	3.63
42	MP2C	Mx	.009	3.63
43	MP4A	X	56.692	1.03
44	MP4A	Z	0	1.03
45	MP4A	Mx	-.028	1.03
46	MP4A	X	56.692	4.98
47	MP4A	Z	0	4.98
48	MP4A	Mx	-.028	4.98
49	MP4B	X	103.44	1.03
50	MP4B	Z	0	1.03
51	MP4B	Mx	.026	1.03
52	MP4B	X	103.44	4.98
53	MP4B	Z	0	4.98
54	MP4B	Mx	.026	4.98
55	MP4C	X	103.44	1.03
56	MP4C	Z	0	1.03
57	MP4C	Mx	.026	1.03
58	MP4C	X	103.44	4.98
59	MP4C	Z	0	4.98
60	MP4C	Mx	.026	4.98
61	M100	X	121.544	2
62	M100	Z	0	2
63	M100	Mx	-.081	2
64	MP1A	X	89.267	1
65	MP1A	Z	0	1
66	MP1A	Mx	-.06	1
67	MP1A	X	89.267	5
68	MP1A	Z	0	5
69	MP1A	Mx	-.06	5
70	MP1B	X	111.773	1
71	MP1B	Z	0	1
72	MP1B	Mx	.11	1
73	MP1B	X	111.773	5
74	MP1B	Z	0	5
75	MP1B	Mx	.11	5
76	MP1C	X	111.773	1
77	MP1C	Z	0	1
78	MP1C	Mx	-.035	1
79	MP1C	X	111.773	5
80	MP1C	Z	0	5
81	MP1C	Mx	-.035	5
82	MP1A	X	64.555	1
83	MP1A	Z	0	1
84	MP1A	Mx	-.043	1
85	MP1A	X	64.555	5
86	MP1A	Z	0	5
87	MP1A	Mx	-.043	5
88	MP1B	X	149.85	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
89	MP1B	Z	0	1
90	MP1B	Mx	-.047	1
91	MP1B	X	149.85	5
92	MP1B	Z	0	5
93	MP1B	Mx	-.047	5
94	MP1C	X	149.85	1
95	MP1C	Z	0	1
96	MP1C	Mx	.147	1
97	MP1C	X	149.85	5
98	MP1C	Z	0	5
99	MP1C	Mx	.147	5
100	MP3A	X	54.146	2
101	MP3A	Z	0	2
102	MP3A	Mx	-.036	2
103	MP3A	X	54.146	4
104	MP3A	Z	0	4
105	MP3A	Mx	-.036	4
106	MP3B	X	89.754	2
107	MP3B	Z	0	2
108	MP3B	Mx	.03	2
109	MP3B	X	89.754	4
110	MP3B	Z	0	4
111	MP3B	Mx	.03	4
112	MP3C	X	89.754	2
113	MP3C	Z	0	2
114	MP3C	Mx	.03	2
115	MP3C	X	89.754	4
116	MP3C	Z	0	4
117	MP3C	Mx	.03	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	20.02	3.5
2	MP1A	Z	11.559	3.5
3	MP1A	Mx	.01	3.5
4	MP1C	X	20.02	3.5
5	MP1C	Z	11.559	3.5
6	MP1C	Mx	-.01	3.5
7	MP1A	X	50.992	2
8	MP1A	Z	29.44	2
9	MP1A	Mx	-.034	2
10	MP1B	X	67.699	2
11	MP1B	Z	39.086	2
12	MP1B	Mx	0	2
13	MP1C	X	50.992	2
14	MP1C	Z	29.44	2
15	MP1C	Mx	.034	2
16	MP1A	X	18.999	5
17	MP1A	Z	10.969	5
18	MP1A	Mx	.013	5
19	MP1B	X	31.447	5
20	MP1B	Z	18.156	5
21	MP1B	Mx	0	5
22	MP1C	X	18.999	5
23	MP1C	Z	10.969	5
24	MP1C	Mx	-.013	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
25	MP2A	X	22.384	2.38
26	MP2A	Z	12.924	2.38
27	MP2A	Mx	-.011	2.38
28	MP2A	X	22.384	3.63
29	MP2A	Z	12.924	3.63
30	MP2A	Mx	-.011	3.63
31	MP2B	X	33.849	2.38
32	MP2B	Z	19.543	2.38
33	MP2B	Mx	0	2.38
34	MP2B	X	33.849	3.63
35	MP2B	Z	19.543	3.63
36	MP2B	Mx	0	3.63
37	MP2C	X	22.384	2.38
38	MP2C	Z	12.924	2.38
39	MP2C	Mx	.011	2.38
40	MP2C	X	22.384	3.63
41	MP2C	Z	12.924	3.63
42	MP2C	Mx	.011	3.63
43	MP4A	X	62.592	1.03
44	MP4A	Z	36.137	1.03
45	MP4A	Mx	-.031	1.03
46	MP4A	X	62.592	4.98
47	MP4A	Z	36.137	4.98
48	MP4A	Mx	-.031	4.98
49	MP4B	X	103.076	1.03
50	MP4B	Z	59.511	1.03
51	MP4B	Mx	0	1.03
52	MP4B	X	103.076	4.98
53	MP4B	Z	59.511	4.98
54	MP4B	Mx	0	4.98
55	MP4C	X	62.592	1.03
56	MP4C	Z	36.137	1.03
57	MP4C	Mx	.031	1.03
58	MP4C	X	62.592	4.98
59	MP4C	Z	36.137	4.98
60	MP4C	Mx	.031	4.98
61	M100	X	113.559	2
62	M100	Z	65.563	2
63	M100	Mx	-.076	2
64	MP1A	X	83.804	1
65	MP1A	Z	48.384	1
66	MP1A	Mx	-.092	1
67	MP1A	X	83.804	5
68	MP1A	Z	48.384	5
69	MP1A	Mx	-.092	5
70	MP1B	X	103.295	1
71	MP1B	Z	59.637	1
72	MP1B	Mx	.089	1
73	MP1B	X	103.295	5
74	MP1B	Z	59.637	5
75	MP1B	Mx	.089	5
76	MP1C	X	83.804	1
77	MP1C	Z	48.384	1
78	MP1C	Mx	.02	1
79	MP1C	X	83.804	5
80	MP1C	Z	48.384	5
81	MP1C	Mx	.02	5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP1A	X	80.528	1
83	MP1A	Z	46.493	1
84	MP1A	Mx	-.019	1
85	MP1A	X	80.528	5
86	MP1A	Z	46.493	5
87	MP1A	Mx	-.019	5
88	MP1B	X	154.396	1
89	MP1B	Z	89.141	1
90	MP1B	Mx	-.134	1
91	MP1B	X	154.396	5
92	MP1B	Z	89.141	5
93	MP1B	Mx	-.134	5
94	MP1C	X	80.528	1
95	MP1C	Z	46.493	1
96	MP1C	Mx	.089	1
97	MP1C	X	80.528	5
98	MP1C	Z	46.493	5
99	MP1C	Mx	.089	5
100	MP3A	X	57.171	2
101	MP3A	Z	33.008	2
102	MP3A	Mx	-.038	2
103	MP3A	X	57.171	4
104	MP3A	Z	33.008	4
105	MP3A	Mx	-.038	4
106	MP3B	X	88.008	2
107	MP3B	Z	50.811	2
108	MP3B	Mx	0	2
109	MP3B	X	88.008	4
110	MP3B	Z	50.811	4
111	MP3B	Mx	0	4
112	MP3C	X	57.171	2
113	MP3C	Z	33.008	2
114	MP3C	Mx	.038	2
115	MP3C	X	57.171	4
116	MP3C	Z	33.008	4
117	MP3C	Mx	.038	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	19.992	3.5
2	MP1A	Z	34.626	3.5
3	MP1A	Mx	.01	3.5
4	MP1C	X	7.342	3.5
5	MP1C	Z	12.717	3.5
6	MP1C	Mx	-.007	3.5
7	MP1A	X	35.871	2
8	MP1A	Z	62.13	2
9	MP1A	Mx	-.024	2
10	MP1B	X	35.871	2
11	MP1B	Z	62.13	2
12	MP1B	Mx	-.024	2
13	MP1C	X	26.225	2
14	MP1C	Z	45.424	2
15	MP1C	Mx	.035	2
16	MP1A	X	15.76	5
17	MP1A	Z	27.298	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
18	MP1A	Mx	.011	5
19	MP1B	X	15.76	5
20	MP1B	Z	27.298	5
21	MP1B	Mx	.011	5
22	MP1C	X	8.574	5
23	MP1C	Z	14.85	5
24	MP1C	Mx	-.011	5
25	MP2A	X	17.336	2.38
26	MP2A	Z	30.028	2.38
27	MP2A	Mx	-.009	2.38
28	MP2A	X	17.336	3.63
29	MP2A	Z	30.028	3.63
30	MP2A	Mx	-.009	3.63
31	MP2B	X	17.336	2.38
32	MP2B	Z	30.028	2.38
33	MP2B	Mx	-.009	2.38
34	MP2B	X	17.336	3.63
35	MP2B	Z	30.028	3.63
36	MP2B	Mx	-.009	3.63
37	MP2C	X	10.717	2.38
38	MP2C	Z	18.562	2.38
39	MP2C	Mx	.011	2.38
40	MP2C	X	10.717	3.63
41	MP2C	Z	18.562	3.63
42	MP2C	Mx	.011	3.63
43	MP4A	X	51.72	1.03
44	MP4A	Z	89.582	1.03
45	MP4A	Mx	-.026	1.03
46	MP4A	X	51.72	4.98
47	MP4A	Z	89.582	4.98
48	MP4A	Mx	-.026	4.98
49	MP4B	X	51.72	1.03
50	MP4B	Z	89.582	1.03
51	MP4B	Mx	-.026	1.03
52	MP4B	X	51.72	4.98
53	MP4B	Z	89.582	4.98
54	MP4B	Mx	-.026	4.98
55	MP4C	X	28.346	1.03
56	MP4C	Z	49.097	1.03
57	MP4C	Mx	.028	1.03
58	MP4C	X	28.346	4.98
59	MP4C	Z	49.097	4.98
60	MP4C	Mx	.028	4.98
61	M100	X	75.146	2
62	M100	Z	130.156	2
63	M100	Mx	-.05	2
64	MP1A	X	55.886	1
65	MP1A	Z	96.798	1
66	MP1A	Mx	-.11	1
67	MP1A	X	55.886	5
68	MP1A	Z	96.798	5
69	MP1A	Mx	-.11	5
70	MP1B	X	55.886	1
71	MP1B	Z	96.798	1
72	MP1B	Mx	.035	1
73	MP1B	X	55.886	5
74	MP1B	Z	96.798	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP1B	Mx	.035	5
76	MP1C	X	44.633	1
77	MP1C	Z	77.307	1
78	MP1C	Mx	.06	1
79	MP1C	X	44.633	5
80	MP1C	Z	77.307	5
81	MP1C	Mx	.06	5
82	MP1A	X	74.925	1
83	MP1A	Z	129.774	1
84	MP1A	Mx	.047	1
85	MP1A	X	74.925	5
86	MP1A	Z	129.774	5
87	MP1A	Mx	.047	5
88	MP1B	X	74.925	1
89	MP1B	Z	129.774	1
90	MP1B	Mx	-.147	1
91	MP1B	X	74.925	5
92	MP1B	Z	129.774	5
93	MP1B	Mx	-.147	5
94	MP1C	X	32.277	1
95	MP1C	Z	55.906	1
96	MP1C	Mx	.043	1
97	MP1C	X	32.277	5
98	MP1C	Z	55.906	5
99	MP1C	Mx	.043	5
100	MP3A	X	44.877	2
101	MP3A	Z	77.729	2
102	MP3A	Mx	-.03	2
103	MP3A	X	44.877	4
104	MP3A	Z	77.729	4
105	MP3A	Mx	-.03	4
106	MP3B	X	44.877	2
107	MP3B	Z	77.729	2
108	MP3B	Mx	-.03	2
109	MP3B	X	44.877	4
110	MP3B	Z	77.729	4
111	MP3B	Mx	-.03	4
112	MP3C	X	27.073	2
113	MP3C	Z	46.892	2
114	MP3C	Mx	.036	2
115	MP3C	X	27.073	4
116	MP3C	Z	46.892	4
117	MP3C	Mx	.036	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	3.5
2	MP1A	Z	48.416	3.5
3	MP1A	Mx	0	3.5
4	MP1C	X	0	3.5
5	MP1C	Z	23.118	3.5
6	MP1C	Mx	-.01	3.5
7	MP1A	X	0	2
8	MP1A	Z	78.172	2
9	MP1A	Mx	0	2
10	MP1B	X	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP1B	Z	58.881	2
12	MP1B	Mx	-.034	2
13	MP1C	X	0	2
14	MP1C	Z	58.881	2
15	MP1C	Mx	.034	2
16	MP1A	X	0	5
17	MP1A	Z	36.312	5
18	MP1A	Mx	0	5
19	MP1B	X	0	5
20	MP1B	Z	21.938	5
21	MP1B	Mx	.013	5
22	MP1C	X	0	5
23	MP1C	Z	21.938	5
24	MP1C	Mx	-.013	5
25	MP2A	X	0	2.38
26	MP2A	Z	39.086	2.38
27	MP2A	Mx	0	2.38
28	MP2A	X	0	3.63
29	MP2A	Z	39.086	3.63
30	MP2A	Mx	0	3.63
31	MP2B	X	0	2.38
32	MP2B	Z	25.847	2.38
33	MP2B	Mx	-.011	2.38
34	MP2B	X	0	3.63
35	MP2B	Z	25.847	3.63
36	MP2B	Mx	-.011	3.63
37	MP2C	X	0	2.38
38	MP2C	Z	25.847	2.38
39	MP2C	Mx	.011	2.38
40	MP2C	X	0	3.63
41	MP2C	Z	25.847	3.63
42	MP2C	Mx	.011	3.63
43	MP4A	X	0	1.03
44	MP4A	Z	119.022	1.03
45	MP4A	Mx	0	1.03
46	MP4A	X	0	4.98
47	MP4A	Z	119.022	4.98
48	MP4A	Mx	0	4.98
49	MP4B	X	0	1.03
50	MP4B	Z	72.275	1.03
51	MP4B	Mx	-.031	1.03
52	MP4B	X	0	4.98
53	MP4B	Z	72.275	4.98
54	MP4B	Mx	-.031	4.98
55	MP4C	X	0	1.03
56	MP4C	Z	72.275	1.03
57	MP4C	Mx	.031	1.03
58	MP4C	X	0	4.98
59	MP4C	Z	72.275	4.98
60	MP4C	Mx	.031	4.98
61	M100	X	0	2
62	M100	Z	159.873	2
63	M100	Mx	0	2
64	MP1A	X	0	1
65	MP1A	Z	119.275	1
66	MP1A	Mx	-.089	1
67	MP1A	X	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP1A	Z	119.275	5
69	MP1A	Mx	-.089	5
70	MP1B	X	0	1
71	MP1B	Z	96.769	1
72	MP1B	Mx	-.02	1
73	MP1B	X	0	5
74	MP1B	Z	96.769	5
75	MP1B	Mx	-.02	5
76	MP1C	X	0	1
77	MP1C	Z	96.769	1
78	MP1C	Mx	.092	1
79	MP1C	X	0	5
80	MP1C	Z	96.769	5
81	MP1C	Mx	.092	5
82	MP1A	X	0	1
83	MP1A	Z	178.281	1
84	MP1A	Mx	.134	1
85	MP1A	X	0	5
86	MP1A	Z	178.281	5
87	MP1A	Mx	.134	5
88	MP1B	X	0	1
89	MP1B	Z	92.986	1
90	MP1B	Mx	-.089	1
91	MP1B	X	0	5
92	MP1B	Z	92.986	5
93	MP1B	Mx	-.089	5
94	MP1C	X	0	1
95	MP1C	Z	92.986	1
96	MP1C	Mx	.019	1
97	MP1C	X	0	5
98	MP1C	Z	92.986	5
99	MP1C	Mx	.019	5
100	MP3A	X	0	2
101	MP3A	Z	101.623	2
102	MP3A	Mx	0	2
103	MP3A	X	0	4
104	MP3A	Z	101.623	4
105	MP3A	Mx	0	4
106	MP3B	X	0	2
107	MP3B	Z	66.015	2
108	MP3B	Mx	-.038	2
109	MP3B	X	0	4
110	MP3B	Z	66.015	4
111	MP3B	Mx	-.038	4
112	MP3C	X	0	2
113	MP3C	Z	66.015	2
114	MP3C	Mx	.038	2
115	MP3C	X	0	4
116	MP3C	Z	66.015	4
117	MP3C	Mx	.038	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-19.992	3.5
2	MP1A	Z	34.626	3.5
3	MP1A	Mx	-.01	3.5



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

	Member Label	Direction	Magnitudel[lb.k-ft]	Location[ft.%]
4	MP1C	X	-19.992	3.5
5	MP1C	Z	34.626	3.5
6	MP1C	Mx	-.01	3.5
7	MP1A	X	-35.871	2
8	MP1A	Z	62.13	2
9	MP1A	Mx	.024	2
10	MP1B	X	-26.225	2
11	MP1B	Z	45.424	2
12	MP1B	Mx	-.035	2
13	MP1C	X	-35.871	2
14	MP1C	Z	62.13	2
15	MP1C	Mx	.024	2
16	MP1A	X	-15.76	5
17	MP1A	Z	27.298	5
18	MP1A	Mx	-.011	5
19	MP1B	X	-8.574	5
20	MP1B	Z	14.85	5
21	MP1B	Mx	.011	5
22	MP1C	X	-15.76	5
23	MP1C	Z	27.298	5
24	MP1C	Mx	-.011	5
25	MP2A	X	-17.336	2.38
26	MP2A	Z	30.028	2.38
27	MP2A	Mx	.009	2.38
28	MP2A	X	-17.336	3.63
29	MP2A	Z	30.028	3.63
30	MP2A	Mx	.009	3.63
31	MP2B	X	-10.717	2.38
32	MP2B	Z	18.562	2.38
33	MP2B	Mx	-.011	2.38
34	MP2B	X	-10.717	3.63
35	MP2B	Z	18.562	3.63
36	MP2B	Mx	-.011	3.63
37	MP2C	X	-17.336	2.38
38	MP2C	Z	30.028	2.38
39	MP2C	Mx	.009	2.38
40	MP2C	X	-17.336	3.63
41	MP2C	Z	30.028	3.63
42	MP2C	Mx	.009	3.63
43	MP4A	X	-51.72	1.03
44	MP4A	Z	89.582	1.03
45	MP4A	Mx	.026	1.03
46	MP4A	X	-51.72	4.98
47	MP4A	Z	89.582	4.98
48	MP4A	Mx	.026	4.98
49	MP4B	X	-28.346	1.03
50	MP4B	Z	49.097	1.03
51	MP4B	Mx	-.028	1.03
52	MP4B	X	-28.346	4.98
53	MP4B	Z	49.097	4.98
54	MP4B	Mx	-.028	4.98
55	MP4C	X	-51.72	1.03
56	MP4C	Z	89.582	1.03
57	MP4C	Mx	.026	1.03
58	MP4C	X	-51.72	4.98
59	MP4C	Z	89.582	4.98
60	MP4C	Mx	.026	4.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
61	M100	X	-75.146	2
62	M100	Z	130.156	2
63	M100	Mx	.05	2
64	MP1A	X	-55.886	1
65	MP1A	Z	96.798	1
66	MP1A	Mx	-.035	1
67	MP1A	X	-55.886	5
68	MP1A	Z	96.798	5
69	MP1A	Mx	-.035	5
70	MP1B	X	-44.633	1
71	MP1B	Z	77.307	1
72	MP1B	Mx	-.06	1
73	MP1B	X	-44.633	5
74	MP1B	Z	77.307	5
75	MP1B	Mx	-.06	5
76	MP1C	X	-55.886	1
77	MP1C	Z	96.798	1
78	MP1C	Mx	.11	1
79	MP1C	X	-55.886	5
80	MP1C	Z	96.798	5
81	MP1C	Mx	.11	5
82	MP1A	X	-74.925	1
83	MP1A	Z	129.774	1
84	MP1A	Mx	.147	1
85	MP1A	X	-74.925	5
86	MP1A	Z	129.774	5
87	MP1A	Mx	.147	5
88	MP1B	X	-32.277	1
89	MP1B	Z	55.906	1
90	MP1B	Mx	-.043	1
91	MP1B	X	-32.277	5
92	MP1B	Z	55.906	5
93	MP1B	Mx	-.043	5
94	MP1C	X	-74.925	1
95	MP1C	Z	129.774	1
96	MP1C	Mx	-.047	1
97	MP1C	X	-74.925	5
98	MP1C	Z	129.774	5
99	MP1C	Mx	-.047	5
100	MP3A	X	-44.877	2
101	MP3A	Z	77.729	2
102	MP3A	Mx	.03	2
103	MP3A	X	-44.877	4
104	MP3A	Z	77.729	4
105	MP3A	Mx	.03	4
106	MP3B	X	-27.073	2
107	MP3B	Z	46.892	2
108	MP3B	Mx	-.036	2
109	MP3B	X	-27.073	4
110	MP3B	Z	46.892	4
111	MP3B	Mx	-.036	4
112	MP3C	X	-44.877	2
113	MP3C	Z	77.729	2
114	MP3C	Mx	.03	2
115	MP3C	X	-44.877	4
116	MP3C	Z	77.729	4
117	MP3C	Mx	.03	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-20.02	3.5
2	MP1A	Z	11.559	3.5
3	MP1A	Mx	-.01	3.5
4	MP1C	X	-41.929	3.5
5	MP1C	Z	24.208	3.5
6	MP1C	Mx	0	3.5
7	MP1A	X	-50.992	2
8	MP1A	Z	29.44	2
9	MP1A	Mx	.034	2
10	MP1B	X	-50.992	2
11	MP1B	Z	29.44	2
12	MP1B	Mx	-.034	2
13	MP1C	X	-67.699	2
14	MP1C	Z	39.086	2
15	MP1C	Mx	0	2
16	MP1A	X	-18.999	5
17	MP1A	Z	10.969	5
18	MP1A	Mx	-.013	5
19	MP1B	X	-18.999	5
20	MP1B	Z	10.969	5
21	MP1B	Mx	.013	5
22	MP1C	X	-31.447	5
23	MP1C	Z	18.156	5
24	MP1C	Mx	0	5
25	MP2A	X	-22.384	2.38
26	MP2A	Z	12.924	2.38
27	MP2A	Mx	.011	2.38
28	MP2A	X	-22.384	3.63
29	MP2A	Z	12.924	3.63
30	MP2A	Mx	.011	3.63
31	MP2B	X	-22.384	2.38
32	MP2B	Z	12.924	2.38
33	MP2B	Mx	-.011	2.38
34	MP2B	X	-22.384	3.63
35	MP2B	Z	12.924	3.63
36	MP2B	Mx	-.011	3.63
37	MP2C	X	-33.849	2.38
38	MP2C	Z	19.543	2.38
39	MP2C	Mx	0	2.38
40	MP2C	X	-33.849	3.63
41	MP2C	Z	19.543	3.63
42	MP2C	Mx	0	3.63
43	MP4A	X	-62.592	1.03
44	MP4A	Z	36.137	1.03
45	MP4A	Mx	.031	1.03
46	MP4A	X	-62.592	4.98
47	MP4A	Z	36.137	4.98
48	MP4A	Mx	.031	4.98
49	MP4B	X	-62.592	1.03
50	MP4B	Z	36.137	1.03
51	MP4B	Mx	-.031	1.03
52	MP4B	X	-62.592	4.98
53	MP4B	Z	36.137	4.98
54	MP4B	Mx	-.031	4.98
55	MP4C	X	-103.076	1.03
56	MP4C	Z	59.511	1.03
57	MP4C	Mx	0	1.03





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
58	MP4C	X	-103.076	4.98
59	MP4C	Z	59.511	4.98
60	MP4C	Mx	0	4.98
61	M100	X	-113.559	2
62	M100	Z	65.563	2
63	M100	Mx	.076	2
64	MP1A	X	-83.804	1
65	MP1A	Z	48.384	1
66	MP1A	Mx	.02	1
67	MP1A	X	-83.804	5
68	MP1A	Z	48.384	5
69	MP1A	Mx	.02	5
70	MP1B	X	-83.804	1
71	MP1B	Z	48.384	1
72	MP1B	Mx	-.092	1
73	MP1B	X	-83.804	5
74	MP1B	Z	48.384	5
75	MP1B	Mx	-.092	5
76	MP1C	X	-103.295	1
77	MP1C	Z	59.637	1
78	MP1C	Mx	.089	1
79	MP1C	X	-103.295	5
80	MP1C	Z	59.637	5
81	MP1C	Mx	.089	5
82	MP1A	X	-80.528	1
83	MP1A	Z	46.493	1
84	MP1A	Mx	.089	1
85	MP1A	X	-80.528	5
86	MP1A	Z	46.493	5
87	MP1A	Mx	.089	5
88	MP1B	X	-80.528	1
89	MP1B	Z	46.493	1
90	MP1B	Mx	-.019	1
91	MP1B	X	-80.528	5
92	MP1B	Z	46.493	5
93	MP1B	Mx	-.019	5
94	MP1C	X	-154.396	1
95	MP1C	Z	89.141	1
96	MP1C	Mx	-.134	1
97	MP1C	X	-154.396	5
98	MP1C	Z	89.141	5
99	MP1C	Mx	-.134	5
100	MP3A	X	-57.171	2
101	MP3A	Z	33.008	2
102	MP3A	Mx	.038	2
103	MP3A	X	-57.171	4
104	MP3A	Z	33.008	4
105	MP3A	Mx	.038	4
106	MP3B	X	-57.171	2
107	MP3B	Z	33.008	2
108	MP3B	Mx	-.038	2
109	MP3B	X	-57.171	4
110	MP3B	Z	33.008	4
111	MP3B	Mx	-.038	4
112	MP3C	X	-88.008	2
113	MP3C	Z	50.811	2
114	MP3C	Mx	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
115	MP3C	X	-88.008	4
116	MP3C	Z	50.811	4
117	MP3C	Mx	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-14.685	3.5
2	MP1A	Z	0	3.5
3	MP1A	Mx	-.007	3.5
4	MP1C	X	-39.983	3.5
5	MP1C	Z	0	3.5
6	MP1C	Mx	.01	3.5
7	MP1A	X	-52.451	2
8	MP1A	Z	0	2
9	MP1A	Mx	.035	2
10	MP1B	X	-71.741	2
11	MP1B	Z	0	2
12	MP1B	Mx	-.024	2
13	MP1C	X	-71.741	2
14	MP1C	Z	0	2
15	MP1C	Mx	-.024	2
16	MP1A	X	-17.147	5
17	MP1A	Z	0	5
18	MP1A	Mx	-.011	5
19	MP1B	X	-31.521	5
20	MP1B	Z	0	5
21	MP1B	Mx	.011	5
22	MP1C	X	-31.521	5
23	MP1C	Z	0	5
24	MP1C	Mx	.011	5
25	MP2A	X	-21.434	2.38
26	MP2A	Z	0	2.38
27	MP2A	Mx	.011	2.38
28	MP2A	X	-21.434	3.63
29	MP2A	Z	0	3.63
30	MP2A	Mx	.011	3.63
31	MP2B	X	-34.673	2.38
32	MP2B	Z	0	2.38
33	MP2B	Mx	-.009	2.38
34	MP2B	X	-34.673	3.63
35	MP2B	Z	0	3.63
36	MP2B	Mx	-.009	3.63
37	MP2C	X	-34.673	2.38
38	MP2C	Z	0	2.38
39	MP2C	Mx	-.009	2.38
40	MP2C	X	-34.673	3.63
41	MP2C	Z	0	3.63
42	MP2C	Mx	-.009	3.63
43	MP4A	X	-56.692	1.03
44	MP4A	Z	0	1.03
45	MP4A	Mx	.028	1.03
46	MP4A	X	-56.692	4.98
47	MP4A	Z	0	4.98
48	MP4A	Mx	.028	4.98
49	MP4B	X	-103.44	1.03
50	MP4B	Z	0	1.03



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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]	
51	MP4B	Mx	-026	1.03
52	MP4B	X	-103.44	4.98
53	MP4B	Z	0	4.98
54	MP4B	Mx	-026	4.98
55	MP4C	X	-103.44	1.03
56	MP4C	Z	0	1.03
57	MP4C	Mx	-026	1.03
58	MP4C	X	-103.44	4.98
59	MP4C	Z	0	4.98
60	MP4C	Mx	-026	4.98
61	M100	X	-121.544	2
62	M100	Z	0	2
63	M100	Mx	.081	2
64	MP1A	X	-89.267	1
65	MP1A	Z	0	1
66	MP1A	Mx	.06	1
67	MP1A	X	-89.267	5
68	MP1A	Z	0	5
69	MP1A	Mx	.06	5
70	MP1B	X	-111.773	1
71	MP1B	Z	0	1
72	MP1B	Mx	-.11	1
73	MP1B	X	-111.773	5
74	MP1B	Z	0	5
75	MP1B	Mx	-.11	5
76	MP1C	X	-111.773	1
77	MP1C	Z	0	1
78	MP1C	Mx	.035	1
79	MP1C	X	-111.773	5
80	MP1C	Z	0	5
81	MP1C	Mx	.035	5
82	MP1A	X	-64.555	1
83	MP1A	Z	0	1
84	MP1A	Mx	.043	1
85	MP1A	X	-64.555	5
86	MP1A	Z	0	5
87	MP1A	Mx	.043	5
88	MP1B	X	-149.85	1
89	MP1B	Z	0	1
90	MP1B	Mx	.047	1
91	MP1B	X	-149.85	5
92	MP1B	Z	0	5
93	MP1B	Mx	.047	5
94	MP1C	X	-149.85	1
95	MP1C	Z	0	1
96	MP1C	Mx	-.147	1
97	MP1C	X	-149.85	5
98	MP1C	Z	0	5
99	MP1C	Mx	-.147	5
100	MP3A	X	-54.146	2
101	MP3A	Z	0	2
102	MP3A	Mx	.036	2
103	MP3A	X	-54.146	4
104	MP3A	Z	0	4
105	MP3A	Mx	.036	4
106	MP3B	X	-89.754	2
107	MP3B	Z	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
108	MP3B	Mx	-03	2
109	MP3B	X	-89.754	4
110	MP3B	Z	0	4
111	MP3B	Mx	-03	4
112	MP3C	X	-89.754	2
113	MP3C	Z	0	2
114	MP3C	Mx	-03	2
115	MP3C	X	-89.754	4
116	MP3C	Z	0	4
117	MP3C	Mx	-03	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-20.02	3.5
2	MP1A	Z	-11.559	3.5
3	MP1A	Mx	-01	3.5
4	MP1C	X	-20.02	3.5
5	MP1C	Z	-11.559	3.5
6	MP1C	Mx	.01	3.5
7	MP1A	X	-50.992	2
8	MP1A	Z	-29.44	2
9	MP1A	Mx	.034	2
10	MP1B	X	-67.699	2
11	MP1B	Z	-39.086	2
12	MP1B	Mx	0	2
13	MP1C	X	-50.992	2
14	MP1C	Z	-29.44	2
15	MP1C	Mx	-.034	2
16	MP1A	X	-18.999	5
17	MP1A	Z	-10.969	5
18	MP1A	Mx	-.013	5
19	MP1B	X	-31.447	5
20	MP1B	Z	-18.156	5
21	MP1B	Mx	0	5
22	MP1C	X	-18.999	5
23	MP1C	Z	-10.969	5
24	MP1C	Mx	.013	5
25	MP2A	X	-22.384	2.38
26	MP2A	Z	-12.924	2.38
27	MP2A	Mx	.011	2.38
28	MP2A	X	-22.384	3.63
29	MP2A	Z	-12.924	3.63
30	MP2A	Mx	.011	3.63
31	MP2B	X	-33.849	2.38
32	MP2B	Z	-19.543	2.38
33	MP2B	Mx	0	2.38
34	MP2B	X	-33.849	3.63
35	MP2B	Z	-19.543	3.63
36	MP2B	Mx	0	3.63
37	MP2C	X	-22.384	2.38
38	MP2C	Z	-12.924	2.38
39	MP2C	Mx	-.011	2.38
40	MP2C	X	-22.384	3.63
41	MP2C	Z	-12.924	3.63
42	MP2C	Mx	-.011	3.63
43	MP4A	X	-62.592	1.03



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
44	MP4A	Z	-36.137	1.03
45	MP4A	Mx	.031	1.03
46	MP4A	X	-62.592	4.98
47	MP4A	Z	-36.137	4.98
48	MP4A	Mx	.031	4.98
49	MP4B	X	-103.076	1.03
50	MP4B	Z	-59.511	1.03
51	MP4B	Mx	0	1.03
52	MP4B	X	-103.076	4.98
53	MP4B	Z	-59.511	4.98
54	MP4B	Mx	0	4.98
55	MP4C	X	-62.592	1.03
56	MP4C	Z	-36.137	1.03
57	MP4C	Mx	-.031	1.03
58	MP4C	X	-62.592	4.98
59	MP4C	Z	-36.137	4.98
60	MP4C	Mx	-.031	4.98
61	M100	X	-113.559	2
62	M100	Z	-65.563	2
63	M100	Mx	.076	2
64	MP1A	X	-83.804	1
65	MP1A	Z	-48.384	1
66	MP1A	Mx	.092	1
67	MP1A	X	-83.804	5
68	MP1A	Z	-48.384	5
69	MP1A	Mx	.092	5
70	MP1B	X	-103.295	1
71	MP1B	Z	-59.637	1
72	MP1B	Mx	-.089	1
73	MP1B	X	-103.295	5
74	MP1B	Z	-59.637	5
75	MP1B	Mx	-.089	5
76	MP1C	X	-83.804	1
77	MP1C	Z	-48.384	1
78	MP1C	Mx	-.02	1
79	MP1C	X	-83.804	5
80	MP1C	Z	-48.384	5
81	MP1C	Mx	-.02	5
82	MP1A	X	-80.528	1
83	MP1A	Z	-46.493	1
84	MP1A	Mx	.019	1
85	MP1A	X	-80.528	5
86	MP1A	Z	-46.493	5
87	MP1A	Mx	.019	5
88	MP1B	X	-154.396	1
89	MP1B	Z	-89.141	1
90	MP1B	Mx	.134	1
91	MP1B	X	-154.396	5
92	MP1B	Z	-89.141	5
93	MP1B	Mx	.134	5
94	MP1C	X	-80.528	1
95	MP1C	Z	-46.493	1
96	MP1C	Mx	-.089	1
97	MP1C	X	-80.528	5
98	MP1C	Z	-46.493	5
99	MP1C	Mx	-.089	5
100	MP3A	X	-57.171	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
101	MP3A	Z	-33.008	2
102	MP3A	Mx	.038	2
103	MP3A	X	-57.171	4
104	MP3A	Z	-33.008	4
105	MP3A	Mx	.038	4
106	MP3B	X	-88.008	2
107	MP3B	Z	-50.811	2
108	MP3B	Mx	0	2
109	MP3B	X	-88.008	4
110	MP3B	Z	-50.811	4
111	MP3B	Mx	0	4
112	MP3C	X	-57.171	2
113	MP3C	Z	-33.008	2
114	MP3C	Mx	-.038	2
115	MP3C	X	-57.171	4
116	MP3C	Z	-33.008	4
117	MP3C	Mx	-.038	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-19.992	3.5
2	MP1A	Z	-34.626	3.5
3	MP1A	Mx	-.01	3.5
4	MP1C	X	-7.342	3.5
5	MP1C	Z	-12.717	3.5
6	MP1C	Mx	.007	3.5
7	MP1A	X	-35.871	2
8	MP1A	Z	-62.13	2
9	MP1A	Mx	.024	2
10	MP1B	X	-35.871	2
11	MP1B	Z	-62.13	2
12	MP1B	Mx	.024	2
13	MP1C	X	-26.225	2
14	MP1C	Z	-45.424	2
15	MP1C	Mx	-.035	2
16	MP1A	X	-15.76	5
17	MP1A	Z	-27.298	5
18	MP1A	Mx	-.011	5
19	MP1B	X	-15.76	5
20	MP1B	Z	-27.298	5
21	MP1B	Mx	-.011	5
22	MP1C	X	-8.574	5
23	MP1C	Z	-14.85	5
24	MP1C	Mx	.011	5
25	MP2A	X	-17.336	2.38
26	MP2A	Z	-30.028	2.38
27	MP2A	Mx	.009	2.38
28	MP2A	X	-17.336	3.63
29	MP2A	Z	-30.028	3.63
30	MP2A	Mx	.009	3.63
31	MP2B	X	-17.336	2.38
32	MP2B	Z	-30.028	2.38
33	MP2B	Mx	.009	2.38
34	MP2B	X	-17.336	3.63
35	MP2B	Z	-30.028	3.63
36	MP2B	Mx	.009	3.63

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
37	MP2C	X	-10.717	2.38
38	MP2C	Z	-18.562	2.38
39	MP2C	Mx	-.011	2.38
40	MP2C	X	-10.717	3.63
41	MP2C	Z	-18.562	3.63
42	MP2C	Mx	-.011	3.63
43	MP4A	X	-51.72	1.03
44	MP4A	Z	-89.582	1.03
45	MP4A	Mx	.026	1.03
46	MP4A	X	-51.72	4.98
47	MP4A	Z	-89.582	4.98
48	MP4A	Mx	.026	4.98
49	MP4B	X	-51.72	1.03
50	MP4B	Z	-89.582	1.03
51	MP4B	Mx	.026	1.03
52	MP4B	X	-51.72	4.98
53	MP4B	Z	-89.582	4.98
54	MP4B	Mx	.026	4.98
55	MP4C	X	-28.346	1.03
56	MP4C	Z	-49.097	1.03
57	MP4C	Mx	-.028	1.03
58	MP4C	X	-28.346	4.98
59	MP4C	Z	-49.097	4.98
60	MP4C	Mx	-.028	4.98
61	M100	X	-75.146	2
62	M100	Z	-130.156	2
63	M100	Mx	.05	2
64	MP1A	X	-55.886	1
65	MP1A	Z	-96.798	1
66	MP1A	Mx	.11	1
67	MP1A	X	-55.886	5
68	MP1A	Z	-96.798	5
69	MP1A	Mx	.11	5
70	MP1B	X	-55.886	1
71	MP1B	Z	-96.798	1
72	MP1B	Mx	-.035	1
73	MP1B	X	-55.886	5
74	MP1B	Z	-96.798	5
75	MP1B	Mx	-.035	5
76	MP1C	X	-44.633	1
77	MP1C	Z	-77.307	1
78	MP1C	Mx	-.06	1
79	MP1C	X	-44.633	5
80	MP1C	Z	-77.307	5
81	MP1C	Mx	-.06	5
82	MP1A	X	-74.925	1
83	MP1A	Z	-129.774	1
84	MP1A	Mx	-.047	1
85	MP1A	X	-74.925	5
86	MP1A	Z	-129.774	5
87	MP1A	Mx	-.047	5
88	MP1B	X	-74.925	1
89	MP1B	Z	-129.774	1
90	MP1B	Mx	.147	1
91	MP1B	X	-74.925	5
92	MP1B	Z	-129.774	5
93	MP1B	Mx	.147	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
94	MP1C	X	-32.277	1
95	MP1C	Z	-55.906	1
96	MP1C	Mx	-.043	1
97	MP1C	X	-32.277	5
98	MP1C	Z	-55.906	5
99	MP1C	Mx	-.043	5
100	MP3A	X	-44.877	2
101	MP3A	Z	-77.729	2
102	MP3A	Mx	.03	2
103	MP3A	X	-44.877	4
104	MP3A	Z	-77.729	4
105	MP3A	Mx	.03	4
106	MP3B	X	-44.877	2
107	MP3B	Z	-77.729	2
108	MP3B	Mx	.03	2
109	MP3B	X	-44.877	4
110	MP3B	Z	-77.729	4
111	MP3B	Mx	.03	4
112	MP3C	X	-27.073	2
113	MP3C	Z	-46.892	2
114	MP3C	Mx	-.036	2
115	MP3C	X	-27.073	4
116	MP3C	Z	-46.892	4
117	MP3C	Mx	-.036	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	3.5
2	MP1A	Z	-9.188	3.5
3	MP1A	Mx	0	3.5
4	MP1C	X	0	3.5
5	MP1C	Z	-4.896	3.5
6	MP1C	Mx	.002	3.5
7	MP1A	X	0	2
8	MP1A	Z	-16.709	2
9	MP1A	Mx	0	2
10	MP1B	X	0	2
11	MP1B	Z	-12.896	2
12	MP1B	Mx	.007	2
13	MP1C	X	0	2
14	MP1C	Z	-12.896	2
15	MP1C	Mx	-.007	2
16	MP1A	X	0	5
17	MP1A	Z	-9.521	5
18	MP1A	Mx	0	5
19	MP1B	X	0	5
20	MP1B	Z	-6.391	5
21	MP1B	Mx	-.004	5
22	MP1C	X	0	5
23	MP1C	Z	-6.391	5
24	MP1C	Mx	.004	5
25	MP2A	X	0	2.38
26	MP2A	Z	-8.354	2.38
27	MP2A	Mx	0	2.38
28	MP2A	X	0	3.63
29	MP2A	Z	-8.354	3.63



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
30	MP2A	Mx	0	3.63
31	MP2B	X	0	2.38
32	MP2B	Z	-5.724	2.38
33	MP2B	Mx	.002	2.38
34	MP2B	X	0	3.63
35	MP2B	Z	-5.724	3.63
36	MP2B	Mx	.002	3.63
37	MP2C	X	0	2.38
38	MP2C	Z	-5.724	2.38
39	MP2C	Mx	-.002	2.38
40	MP2C	X	0	3.63
41	MP2C	Z	-5.724	3.63
42	MP2C	Mx	-.002	3.63
43	MP4A	X	0	1.03
44	MP4A	Z	-19.882	1.03
45	MP4A	Mx	0	1.03
46	MP4A	X	0	4.98
47	MP4A	Z	-19.882	4.98
48	MP4A	Mx	0	4.98
49	MP4B	X	0	1.03
50	MP4B	Z	-12.784	1.03
51	MP4B	Mx	.006	1.03
52	MP4B	X	0	4.98
53	MP4B	Z	-12.784	4.98
54	MP4B	Mx	.006	4.98
55	MP4C	X	0	1.03
56	MP4C	Z	-12.784	1.03
57	MP4C	Mx	-.006	1.03
58	MP4C	X	0	4.98
59	MP4C	Z	-12.784	4.98
60	MP4C	Mx	-.006	4.98
61	M100	X	0	2
62	M100	Z	-25.902	2
63	M100	Mx	0	2
64	MP1A	X	0	1
65	MP1A	Z	-40.167	1
66	MP1A	Mx	.03	1
67	MP1A	X	0	5
68	MP1A	Z	-40.167	5
69	MP1A	Mx	.03	5
70	MP1B	X	0	1
71	MP1B	Z	-32.834	1
72	MP1B	Mx	.007	1
73	MP1B	X	0	5
74	MP1B	Z	-32.834	5
75	MP1B	Mx	.007	5
76	MP1C	X	0	1
77	MP1C	Z	-32.834	1
78	MP1C	Mx	-.031	1
79	MP1C	X	0	5
80	MP1C	Z	-32.834	5
81	MP1C	Mx	-.031	5
82	MP1A	X	0	1
83	MP1A	Z	-39.091	1
84	MP1A	Mx	-.029	1
85	MP1A	X	0	5
86	MP1A	Z	-39.091	5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
23	MP1C	Z	-7.342	5
24	MP1C	Mx	.003	5
25	MP2A	X	3.739	2.38
26	MP2A	Z	-6.476	2.38
27	MP2A	Mx	-.002	2.38
28	MP2A	X	3.739	3.63
29	MP2A	Z	-6.476	3.63
30	MP2A	Mx	-.002	3.63
31	MP2B	X	2.423	2.38
32	MP2B	Z	-4.197	2.38
33	MP2B	Mx	.002	2.38
34	MP2B	X	2.423	3.63
35	MP2B	Z	-4.197	3.63
36	MP2B	Mx	.002	3.63
37	MP2C	X	3.739	2.38
38	MP2C	Z	-6.476	2.38
39	MP2C	Mx	-.002	2.38
40	MP2C	X	3.739	3.63
41	MP2C	Z	-6.476	3.63
42	MP2C	Mx	-.002	3.63
43	MP4A	X	8.758	1.03
44	MP4A	Z	-15.169	1.03
45	MP4A	Mx	-.004	1.03
46	MP4A	X	8.758	4.98
47	MP4A	Z	-15.169	4.98
48	MP4A	Mx	-.004	4.98
49	MP4B	X	5.209	1.03
50	MP4B	Z	-9.022	1.03
51	MP4B	Mx	.005	1.03
52	MP4B	X	5.209	4.98
53	MP4B	Z	-9.022	4.98
54	MP4B	Mx	.005	4.98
55	MP4C	X	8.758	1.03
56	MP4C	Z	-15.169	1.03
57	MP4C	Mx	-.004	1.03
58	MP4C	X	8.758	4.98
59	MP4C	Z	-15.169	4.98
60	MP4C	Mx	-.004	4.98
61	M100	X	11.929	2
62	M100	Z	-20.662	2
63	M100	Mx	-.008	2
64	MP1A	X	18.861	1
65	MP1A	Z	-32.669	1
66	MP1A	Mx	.012	1
67	MP1A	X	18.861	5
68	MP1A	Z	-32.669	5
69	MP1A	Mx	.012	5
70	MP1B	X	15.195	1
71	MP1B	Z	-26.318	1
72	MP1B	Mx	.02	1
73	MP1B	X	15.195	5
74	MP1B	Z	-26.318	5
75	MP1B	Mx	.02	5
76	MP1C	X	18.861	1
77	MP1C	Z	-32.669	1
78	MP1C	Mx	-.037	1
79	MP1C	X	18.861	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
80	MP1C	Z	-32.669	5
81	MP1C	Mx	-.037	5
82	MP1A	X	17.559	1
83	MP1A	Z	-30.414	1
84	MP1A	Mx	-.035	1
85	MP1A	X	17.559	5
86	MP1A	Z	-30.414	5
87	MP1A	Mx	-.035	5
88	MP1B	X	11.602	1
89	MP1B	Z	-20.095	1
90	MP1B	Mx	.015	1
91	MP1B	X	11.602	5
92	MP1B	Z	-20.095	5
93	MP1B	Mx	.015	5
94	MP1C	X	17.559	1
95	MP1C	Z	-30.414	1
96	MP1C	Mx	.011	1
97	MP1C	X	17.559	5
98	MP1C	Z	-30.414	5
99	MP1C	Mx	.011	5
100	MP3A	X	7.6	2
101	MP3A	Z	-13.164	2
102	MP3A	Mx	-.005	2
103	MP3A	X	7.6	4
104	MP3A	Z	-13.164	4
105	MP3A	Mx	-.005	4
106	MP3B	X	4.794	2
107	MP3B	Z	-8.304	2
108	MP3B	Mx	.006	2
109	MP3B	X	4.794	4
110	MP3B	Z	-8.304	4
111	MP3B	Mx	.006	4
112	MP3C	X	7.6	2
113	MP3C	Z	-13.164	2
114	MP3C	Mx	-.005	2
115	MP3C	X	7.6	4
116	MP3C	Z	-13.164	4
117	MP3C	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	4.24	3.5
2	MP1A	Z	-2.448	3.5
3	MP1A	Mx	.002	3.5
4	MP1C	X	7.957	3.5
5	MP1C	Z	-4.594	3.5
6	MP1C	Mx	0	3.5
7	MP1A	X	11.168	2
8	MP1A	Z	-6.448	2
9	MP1A	Mx	-.007	2
10	MP1B	X	11.168	2
11	MP1B	Z	-6.448	2
12	MP1B	Mx	.007	2
13	MP1C	X	14.47	2
14	MP1C	Z	-8.354	2
15	MP1C	Mx	0	2



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
16	MP1A	X	5.535	5
17	MP1A	Z	-3.196	5
18	MP1A	Mx	.004	5
19	MP1B	X	5.535	5
20	MP1B	Z	-3.196	5
21	MP1B	Mx	-.004	5
22	MP1C	X	8.245	5
23	MP1C	Z	-4.76	5
24	MP1C	Mx	0	5
25	MP2A	X	4.957	2.38
26	MP2A	Z	-2.862	2.38
27	MP2A	Mx	-.002	2.38
28	MP2A	X	4.957	3.63
29	MP2A	Z	-2.862	3.63
30	MP2A	Mx	-.002	3.63
31	MP2B	X	4.957	2.38
32	MP2B	Z	-2.862	2.38
33	MP2B	Mx	.002	2.38
34	MP2B	X	4.957	3.63
35	MP2B	Z	-2.862	3.63
36	MP2B	Mx	.002	3.63
37	MP2C	X	7.235	2.38
38	MP2C	Z	-4.177	2.38
39	MP2C	Mx	0	2.38
40	MP2C	X	7.235	3.63
41	MP2C	Z	-4.177	3.63
42	MP2C	Mx	0	3.63
43	MP4A	X	11.071	1.03
44	MP4A	Z	-6.392	1.03
45	MP4A	Mx	-.006	1.03
46	MP4A	X	11.071	4.98
47	MP4A	Z	-6.392	4.98
48	MP4A	Mx	-.006	4.98
49	MP4B	X	11.071	1.03
50	MP4B	Z	-6.392	1.03
51	MP4B	Mx	.006	1.03
52	MP4B	X	11.071	4.98
53	MP4B	Z	-6.392	4.98
54	MP4B	Mx	.006	4.98
55	MP4C	X	17.218	1.03
56	MP4C	Z	-9.941	1.03
57	MP4C	Mx	0	1.03
58	MP4C	X	17.218	4.98
59	MP4C	Z	-9.941	4.98
60	MP4C	Mx	0	4.98
61	M100	X	17.122	2
62	M100	Z	-9.885	2
63	M100	Mx	-.011	2
64	MP1A	X	28.435	1
65	MP1A	Z	-16.417	1
66	MP1A	Mx	-.007	1
67	MP1A	X	28.435	5
68	MP1A	Z	-16.417	5
69	MP1A	Mx	-.007	5
70	MP1B	X	28.435	1
71	MP1B	Z	-16.417	1
72	MP1B	Mx	.031	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
73	MP1B	X	28.435	5
74	MP1B	Z	-16.417	5
75	MP1B	Mx	.031	5
76	MP1C	X	34.786	1
77	MP1C	Z	-20.084	1
78	MP1C	Mx	-.03	1
79	MP1C	X	34.786	5
80	MP1C	Z	-20.084	5
81	MP1C	Mx	-.03	5
82	MP1A	X	23.534	1
83	MP1A	Z	-13.588	1
84	MP1A	Mx	-.026	1
85	MP1A	X	23.534	5
86	MP1A	Z	-13.588	5
87	MP1A	Mx	-.026	5
88	MP1B	X	23.534	1
89	MP1B	Z	-13.588	1
90	MP1B	Mx	.005	1
91	MP1B	X	23.534	5
92	MP1B	Z	-13.588	5
93	MP1B	Mx	.005	5
94	MP1C	X	33.853	1
95	MP1C	Z	-19.545	1
96	MP1C	Mx	.029	1
97	MP1C	X	33.853	5
98	MP1C	Z	-19.545	5
99	MP1C	Mx	.029	5
100	MP3A	X	9.924	2
101	MP3A	Z	-5.73	2
102	MP3A	Mx	-.007	2
103	MP3A	X	9.924	4
104	MP3A	Z	-5.73	4
105	MP3A	Mx	-.007	4
106	MP3B	X	9.924	2
107	MP3B	Z	-5.73	2
108	MP3B	Mx	.007	2
109	MP3B	X	9.924	4
110	MP3B	Z	-5.73	4
111	MP3B	Mx	.007	4
112	MP3C	X	14.784	2
113	MP3C	Z	-8.536	2
114	MP3C	Mx	0	2
115	MP3C	X	14.784	4
116	MP3C	Z	-8.536	4
117	MP3C	Mx	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	3.466	3.5
2	MP1A	Z	0	3.5
3	MP1A	Mx	.002	3.5
4	MP1C	X	7.757	3.5
5	MP1C	Z	0	3.5
6	MP1C	Mx	-.002	3.5
7	MP1A	X	11.625	2
8	MP1A	Z	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
9	MP1A	Mx	-.008	2
10	MP1B	X	15.438	2
11	MP1B	Z	0	2
12	MP1B	Mx	.005	2
13	MP1C	X	15.438	2
14	MP1C	Z	0	2
15	MP1C	Mx	.005	2
16	MP1A	X	5.348	5
17	MP1A	Z	0	5
18	MP1A	Mx	.004	5
19	MP1B	X	8.478	5
20	MP1B	Z	0	5
21	MP1B	Mx	-.003	5
22	MP1C	X	8.478	5
23	MP1C	Z	0	5
24	MP1C	Mx	-.003	5
25	MP2A	X	4.847	2.38
26	MP2A	Z	0	2.38
27	MP2A	Mx	-.002	2.38
28	MP2A	X	4.847	3.63
29	MP2A	Z	0	3.63
30	MP2A	Mx	-.002	3.63
31	MP2B	X	7.477	2.38
32	MP2B	Z	0	2.38
33	MP2B	Mx	.002	2.38
34	MP2B	X	7.477	3.63
35	MP2B	Z	0	3.63
36	MP2B	Mx	.002	3.63
37	MP2C	X	7.477	2.38
38	MP2C	Z	0	2.38
39	MP2C	Mx	.002	2.38
40	MP2C	X	7.477	3.63
41	MP2C	Z	0	3.63
42	MP2C	Mx	.002	3.63
43	MP4A	X	10.418	1.03
44	MP4A	Z	0	1.03
45	MP4A	Mx	-.005	1.03
46	MP4A	X	10.418	4.98
47	MP4A	Z	0	4.98
48	MP4A	Mx	-.005	4.98
49	MP4B	X	17.516	1.03
50	MP4B	Z	0	1.03
51	MP4B	Mx	.004	1.03
52	MP4B	X	17.516	4.98
53	MP4B	Z	0	4.98
54	MP4B	Mx	.004	4.98
55	MP4C	X	17.516	1.03
56	MP4C	Z	0	1.03
57	MP4C	Mx	.004	1.03
58	MP4C	X	17.516	4.98
59	MP4C	Z	0	4.98
60	MP4C	Mx	.004	4.98
61	M100	X	17.726	2
62	M100	Z	0	2
63	M100	Mx	-.012	2
64	MP1A	X	30.39	1
65	MP1A	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
66	MP1A	Mx	-.02	1
67	MP1A	X	30.39	5
68	MP1A	Z	0	5
69	MP1A	Mx	-.02	5
70	MP1B	X	37.723	1
71	MP1B	Z	0	1
72	MP1B	Mx	.037	1
73	MP1B	X	37.723	5
74	MP1B	Z	0	5
75	MP1B	Mx	.037	5
76	MP1C	X	37.723	1
77	MP1C	Z	0	1
78	MP1C	Mx	-.012	1
79	MP1C	X	37.723	5
80	MP1C	Z	0	5
81	MP1C	Mx	-.012	5
82	MP1A	X	23.203	1
83	MP1A	Z	0	1
84	MP1A	Mx	-.015	1
85	MP1A	X	23.203	5
86	MP1A	Z	0	5
87	MP1A	Mx	-.015	5
88	MP1B	X	35.119	1
89	MP1B	Z	0	1
90	MP1B	Mx	-.011	1
91	MP1B	X	35.119	5
92	MP1B	Z	0	5
93	MP1B	Mx	-.011	5
94	MP1C	X	35.119	1
95	MP1C	Z	0	1
96	MP1C	Mx	.035	1
97	MP1C	X	35.119	5
98	MP1C	Z	0	5
99	MP1C	Mx	.035	5
100	MP3A	X	9.589	2
101	MP3A	Z	0	2
102	MP3A	Mx	-.006	2
103	MP3A	X	9.589	4
104	MP3A	Z	0	4
105	MP3A	Mx	-.006	4
106	MP3B	X	15.201	2
107	MP3B	Z	0	2
108	MP3B	Mx	.005	2
109	MP3B	X	15.201	4
110	MP3B	Z	0	4
111	MP3B	Mx	.005	4
112	MP3C	X	15.201	2
113	MP3C	Z	0	2
114	MP3C	Mx	.005	2
115	MP3C	X	15.201	4
116	MP3C	Z	0	4
117	MP3C	Mx	.005	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	4.24	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
2	MP1A	Z	2.448	3.5
3	MP1A	Mx	.002	3.5
4	MP1C	X	4.24	3.5
5	MP1C	Z	2.448	3.5
6	MP1C	Mx	-.002	3.5
7	MP1A	X	11.168	2
8	MP1A	Z	6.448	2
9	MP1A	Mx	-.007	2
10	MP1B	X	14.47	2
11	MP1B	Z	8.354	2
12	MP1B	Mx	0	2
13	MP1C	X	11.168	2
14	MP1C	Z	6.448	2
15	MP1C	Mx	.007	2
16	MP1A	X	5.535	5
17	MP1A	Z	3.196	5
18	MP1A	Mx	.004	5
19	MP1B	X	8.245	5
20	MP1B	Z	4.76	5
21	MP1B	Mx	0	5
22	MP1C	X	5.535	5
23	MP1C	Z	3.196	5
24	MP1C	Mx	-.004	5
25	MP2A	X	4.957	2.38
26	MP2A	Z	2.862	2.38
27	MP2A	Mx	-.002	2.38
28	MP2A	X	4.957	3.63
29	MP2A	Z	2.862	3.63
30	MP2A	Mx	-.002	3.63
31	MP2B	X	7.235	2.38
32	MP2B	Z	4.177	2.38
33	MP2B	Mx	0	2.38
34	MP2B	X	7.235	3.63
35	MP2B	Z	4.177	3.63
36	MP2B	Mx	0	3.63
37	MP2C	X	4.957	2.38
38	MP2C	Z	2.862	2.38
39	MP2C	Mx	.002	2.38
40	MP2C	X	4.957	3.63
41	MP2C	Z	2.862	3.63
42	MP2C	Mx	.002	3.63
43	MP4A	X	11.071	1.03
44	MP4A	Z	6.392	1.03
45	MP4A	Mx	-.006	1.03
46	MP4A	X	11.071	4.98
47	MP4A	Z	6.392	4.98
48	MP4A	Mx	-.006	4.98
49	MP4B	X	17.218	1.03
50	MP4B	Z	9.941	1.03
51	MP4B	Mx	0	1.03
52	MP4B	X	17.218	4.98
53	MP4B	Z	9.941	4.98
54	MP4B	Mx	0	4.98
55	MP4C	X	11.071	1.03
56	MP4C	Z	6.392	1.03
57	MP4C	Mx	.006	1.03
58	MP4C	X	11.071	4.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
59	MP4C	Z	6.392	4.98
60	MP4C	Mx	.006	4.98
61	M100	X	17.122	2
62	M100	Z	9.885	2
63	M100	Mx	-.011	2
64	MP1A	X	28.435	1
65	MP1A	Z	16.417	1
66	MP1A	Mx	-.031	1
67	MP1A	X	28.435	5
68	MP1A	Z	16.417	5
69	MP1A	Mx	-.031	5
70	MP1B	X	34.786	1
71	MP1B	Z	20.084	1
72	MP1B	Mx	.03	1
73	MP1B	X	34.786	5
74	MP1B	Z	20.084	5
75	MP1B	Mx	.03	5
76	MP1C	X	28.435	1
77	MP1C	Z	16.417	1
78	MP1C	Mx	.007	1
79	MP1C	X	28.435	5
80	MP1C	Z	16.417	5
81	MP1C	Mx	.007	5
82	MP1A	X	23.534	1
83	MP1A	Z	13.588	1
84	MP1A	Mx	-.005	1
85	MP1A	X	23.534	5
86	MP1A	Z	13.588	5
87	MP1A	Mx	-.005	5
88	MP1B	X	33.853	1
89	MP1B	Z	19.545	1
90	MP1B	Mx	-.029	1
91	MP1B	X	33.853	5
92	MP1B	Z	19.545	5
93	MP1B	Mx	-.029	5
94	MP1C	X	23.534	1
95	MP1C	Z	13.588	1
96	MP1C	Mx	.026	1
97	MP1C	X	23.534	5
98	MP1C	Z	13.588	5
99	MP1C	Mx	.026	5
100	MP3A	X	9.924	2
101	MP3A	Z	5.73	2
102	MP3A	Mx	-.007	2
103	MP3A	X	9.924	4
104	MP3A	Z	5.73	4
105	MP3A	Mx	-.007	4
106	MP3B	X	14.784	2
107	MP3B	Z	8.536	2
108	MP3B	Mx	0	2
109	MP3B	X	14.784	4
110	MP3B	Z	8.536	4
111	MP3B	Mx	0	4
112	MP3C	X	9.924	2
113	MP3C	Z	5.73	2
114	MP3C	Mx	.007	2
115	MP3C	X	9.924	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
116	MP3C	Z	5.73	4
117	MP3C	Mx	.007	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	3.879	3.5
2	MP1A	Z	6.718	3.5
3	MP1A	Mx	.002	3.5
4	MP1C	X	1.733	3.5
5	MP1C	Z	3.001	3.5
6	MP1C	Mx	-.002	3.5
7	MP1A	X	7.719	2
8	MP1A	Z	13.37	2
9	MP1A	Mx	-.005	2
10	MP1B	X	7.719	2
11	MP1B	Z	13.37	2
12	MP1B	Mx	-.005	2
13	MP1C	X	5.813	2
14	MP1C	Z	10.068	2
15	MP1C	Mx	.008	2
16	MP1A	X	4.239	5
17	MP1A	Z	7.342	5
18	MP1A	Mx	.003	5
19	MP1B	X	4.239	5
20	MP1B	Z	7.342	5
21	MP1B	Mx	.003	5
22	MP1C	X	2.674	5
23	MP1C	Z	4.632	5
24	MP1C	Mx	-.004	5
25	MP2A	X	3.739	2.38
26	MP2A	Z	6.476	2.38
27	MP2A	Mx	-.002	2.38
28	MP2A	X	3.739	3.63
29	MP2A	Z	6.476	3.63
30	MP2A	Mx	-.002	3.63
31	MP2B	X	3.739	2.38
32	MP2B	Z	6.476	2.38
33	MP2B	Mx	-.002	2.38
34	MP2B	X	3.739	3.63
35	MP2B	Z	6.476	3.63
36	MP2B	Mx	-.002	3.63
37	MP2C	X	2.423	2.38
38	MP2C	Z	4.197	2.38
39	MP2C	Mx	.002	2.38
40	MP2C	X	2.423	3.63
41	MP2C	Z	4.197	3.63
42	MP2C	Mx	.002	3.63
43	MP4A	X	8.758	1.03
44	MP4A	Z	15.169	1.03
45	MP4A	Mx	-.004	1.03
46	MP4A	X	8.758	4.98
47	MP4A	Z	15.169	4.98
48	MP4A	Mx	-.004	4.98
49	MP4B	X	8.758	1.03
50	MP4B	Z	15.169	1.03
51	MP4B	Mx	-.004	1.03



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP4B	X	8.758	4.98
53	MP4B	Z	15.169	4.98
54	MP4B	Mx	-.004	4.98
55	MP4C	X	5.209	1.03
56	MP4C	Z	9.022	1.03
57	MP4C	Mx	.005	1.03
58	MP4C	X	5.209	4.98
59	MP4C	Z	9.022	4.98
60	MP4C	Mx	.005	4.98
61	M100	X	11.929	2
62	M100	Z	20.662	2
63	M100	Mx	-.008	2
64	MP1A	X	18.861	1
65	MP1A	Z	32.669	1
66	MP1A	Mx	-.037	1
67	MP1A	X	18.861	5
68	MP1A	Z	32.669	5
69	MP1A	Mx	-.037	5
70	MP1B	X	18.861	1
71	MP1B	Z	32.669	1
72	MP1B	Mx	.012	1
73	MP1B	X	18.861	5
74	MP1B	Z	32.669	5
75	MP1B	Mx	.012	5
76	MP1C	X	15.195	1
77	MP1C	Z	26.318	1
78	MP1C	Mx	.02	1
79	MP1C	X	15.195	5
80	MP1C	Z	26.318	5
81	MP1C	Mx	.02	5
82	MP1A	X	17.559	1
83	MP1A	Z	30.414	1
84	MP1A	Mx	.011	1
85	MP1A	X	17.559	5
86	MP1A	Z	30.414	5
87	MP1A	Mx	.011	5
88	MP1B	X	17.559	1
89	MP1B	Z	30.414	1
90	MP1B	Mx	-.035	1
91	MP1B	X	17.559	5
92	MP1B	Z	30.414	5
93	MP1B	Mx	-.035	5
94	MP1C	X	11.602	1
95	MP1C	Z	20.095	1
96	MP1C	Mx	.015	1
97	MP1C	X	11.602	5
98	MP1C	Z	20.095	5
99	MP1C	Mx	.015	5
100	MP3A	X	7.6	2
101	MP3A	Z	13.164	2
102	MP3A	Mx	-.005	2
103	MP3A	X	7.6	4
104	MP3A	Z	13.164	4
105	MP3A	Mx	-.005	4
106	MP3B	X	7.6	2
107	MP3B	Z	13.164	2
108	MP3B	Mx	-.005	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
109	MP3B	X	7.6	4
110	MP3B	Z	13.164	4
111	MP3B	Mx	-.005	4
112	MP3C	X	4.794	2
113	MP3C	Z	8.304	2
114	MP3C	Mx	.006	2
115	MP3C	X	4.794	4
116	MP3C	Z	8.304	4
117	MP3C	Mx	.006	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	3.5
2	MP1A	Z	9.188	3.5
3	MP1A	Mx	0	3.5
4	MP1C	X	0	3.5
5	MP1C	Z	4.896	3.5
6	MP1C	Mx	-.002	3.5
7	MP1A	X	0	2
8	MP1A	Z	16.709	2
9	MP1A	Mx	0	2
10	MP1B	X	0	2
11	MP1B	Z	12.896	2
12	MP1B	Mx	-.007	2
13	MP1C	X	0	2
14	MP1C	Z	12.896	2
15	MP1C	Mx	.007	2
16	MP1A	X	0	5
17	MP1A	Z	9.521	5
18	MP1A	Mx	0	5
19	MP1B	X	0	5
20	MP1B	Z	6.391	5
21	MP1B	Mx	.004	5
22	MP1C	X	0	5
23	MP1C	Z	6.391	5
24	MP1C	Mx	-.004	5
25	MP2A	X	0	2.38
26	MP2A	Z	8.354	2.38
27	MP2A	Mx	0	2.38
28	MP2A	X	0	3.63
29	MP2A	Z	8.354	3.63
30	MP2A	Mx	0	3.63
31	MP2B	X	0	2.38
32	MP2B	Z	5.724	2.38
33	MP2B	Mx	-.002	2.38
34	MP2B	X	0	3.63
35	MP2B	Z	5.724	3.63
36	MP2B	Mx	-.002	3.63
37	MP2C	X	0	2.38
38	MP2C	Z	5.724	2.38
39	MP2C	Mx	.002	2.38
40	MP2C	X	0	3.63
41	MP2C	Z	5.724	3.63
42	MP2C	Mx	.002	3.63
43	MP4A	X	0	1.03
44	MP4A	Z	19.882	1.03



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
45	MP4A	Mx	0	1.03
46	MP4A	X	0	4.98
47	MP4A	Z	19.882	4.98
48	MP4A	Mx	0	4.98
49	MP4B	X	0	1.03
50	MP4B	Z	12.784	1.03
51	MP4B	Mx	-.006	1.03
52	MP4B	X	0	4.98
53	MP4B	Z	12.784	4.98
54	MP4B	Mx	-.006	4.98
55	MP4C	X	0	1.03
56	MP4C	Z	12.784	1.03
57	MP4C	Mx	.006	1.03
58	MP4C	X	0	4.98
59	MP4C	Z	12.784	4.98
60	MP4C	Mx	.006	4.98
61	M100	X	0	2
62	M100	Z	25.902	2
63	M100	Mx	0	2
64	MP1A	X	0	1
65	MP1A	Z	40.167	1
66	MP1A	Mx	-.03	1
67	MP1A	X	0	5
68	MP1A	Z	40.167	5
69	MP1A	Mx	-.03	5
70	MP1B	X	0	1
71	MP1B	Z	32.834	1
72	MP1B	Mx	-.007	1
73	MP1B	X	0	5
74	MP1B	Z	32.834	5
75	MP1B	Mx	-.007	5
76	MP1C	X	0	1
77	MP1C	Z	32.834	1
78	MP1C	Mx	.031	1
79	MP1C	X	0	5
80	MP1C	Z	32.834	5
81	MP1C	Mx	.031	5
82	MP1A	X	0	1
83	MP1A	Z	39.091	1
84	MP1A	Mx	.029	1
85	MP1A	X	0	5
86	MP1A	Z	39.091	5
87	MP1A	Mx	.029	5
88	MP1B	X	0	1
89	MP1B	Z	27.175	1
90	MP1B	Mx	-.026	1
91	MP1B	X	0	5
92	MP1B	Z	27.175	5
93	MP1B	Mx	-.026	5
94	MP1C	X	0	1
95	MP1C	Z	27.175	1
96	MP1C	Mx	.005	1
97	MP1C	X	0	5
98	MP1C	Z	27.175	5
99	MP1C	Mx	.005	5
100	MP3A	X	0	2
101	MP3A	Z	17.072	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
102	MP3A	Mx	0	2
103	MP3A	X	0	4
104	MP3A	Z	17.072	4
105	MP3A	Mx	0	4
106	MP3B	X	0	2
107	MP3B	Z	11.459	2
108	MP3B	Mx	-.007	2
109	MP3B	X	0	4
110	MP3B	Z	11.459	4
111	MP3B	Mx	-.007	4
112	MP3C	X	0	2
113	MP3C	Z	11.459	2
114	MP3C	Mx	.007	2
115	MP3C	X	0	4
116	MP3C	Z	11.459	4
117	MP3C	Mx	.007	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-3.879	3.5
2	MP1A	Z	6.718	3.5
3	MP1A	Mx	-.002	3.5
4	MP1C	X	-3.879	3.5
5	MP1C	Z	6.718	3.5
6	MP1C	Mx	-.002	3.5
7	MP1A	X	-7.719	2
8	MP1A	Z	13.37	2
9	MP1A	Mx	.005	2
10	MP1B	X	-5.813	2
11	MP1B	Z	10.068	2
12	MP1B	Mx	-.008	2
13	MP1C	X	-7.719	2
14	MP1C	Z	13.37	2
15	MP1C	Mx	.005	2
16	MP1A	X	-4.239	5
17	MP1A	Z	7.342	5
18	MP1A	Mx	-.003	5
19	MP1B	X	-2.674	5
20	MP1B	Z	4.632	5
21	MP1B	Mx	.004	5
22	MP1C	X	-4.239	5
23	MP1C	Z	7.342	5
24	MP1C	Mx	-.003	5
25	MP2A	X	-3.739	2.38
26	MP2A	Z	6.476	2.38
27	MP2A	Mx	.002	2.38
28	MP2A	X	-3.739	3.63
29	MP2A	Z	6.476	3.63
30	MP2A	Mx	.002	3.63
31	MP2B	X	-2.423	2.38
32	MP2B	Z	4.197	2.38
33	MP2B	Mx	-.002	2.38
34	MP2B	X	-2.423	3.63
35	MP2B	Z	4.197	3.63
36	MP2B	Mx	-.002	3.63
37	MP2C	X	-3.739	2.38



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
38	MP2C	Z	6.476	2.38
39	MP2C	Mx	.002	2.38
40	MP2C	X	-3.739	3.63
41	MP2C	Z	6.476	3.63
42	MP2C	Mx	.002	3.63
43	MP4A	X	-8.758	1.03
44	MP4A	Z	15.169	1.03
45	MP4A	Mx	.004	1.03
46	MP4A	X	-8.758	4.98
47	MP4A	Z	15.169	4.98
48	MP4A	Mx	.004	4.98
49	MP4B	X	-5.209	1.03
50	MP4B	Z	9.022	1.03
51	MP4B	Mx	-.005	1.03
52	MP4B	X	-5.209	4.98
53	MP4B	Z	9.022	4.98
54	MP4B	Mx	-.005	4.98
55	MP4C	X	-8.758	1.03
56	MP4C	Z	15.169	1.03
57	MP4C	Mx	.004	1.03
58	MP4C	X	-8.758	4.98
59	MP4C	Z	15.169	4.98
60	MP4C	Mx	.004	4.98
61	M100	X	-11.929	2
62	M100	Z	20.662	2
63	M100	Mx	.008	2
64	MP1A	X	-18.861	1
65	MP1A	Z	32.669	1
66	MP1A	Mx	-.012	1
67	MP1A	X	-18.861	5
68	MP1A	Z	32.669	5
69	MP1A	Mx	-.012	5
70	MP1B	X	-15.195	1
71	MP1B	Z	26.318	1
72	MP1B	Mx	-.02	1
73	MP1B	X	-15.195	5
74	MP1B	Z	26.318	5
75	MP1B	Mx	-.02	5
76	MP1C	X	-18.861	1
77	MP1C	Z	32.669	1
78	MP1C	Mx	.037	1
79	MP1C	X	-18.861	5
80	MP1C	Z	32.669	5
81	MP1C	Mx	.037	5
82	MP1A	X	-17.559	1
83	MP1A	Z	30.414	1
84	MP1A	Mx	.035	1
85	MP1A	X	-17.559	5
86	MP1A	Z	30.414	5
87	MP1A	Mx	.035	5
88	MP1B	X	-11.602	1
89	MP1B	Z	20.095	1
90	MP1B	Mx	-.015	1
91	MP1B	X	-11.602	5
92	MP1B	Z	20.095	5
93	MP1B	Mx	-.015	5
94	MP1C	X	-17.559	1





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
95	MP1C	Z	30.414	1
96	MP1C	Mx	-.011	1
97	MP1C	X	-17.559	5
98	MP1C	Z	30.414	5
99	MP1C	Mx	-.011	5
100	MP3A	X	-7.6	2
101	MP3A	Z	13.164	2
102	MP3A	Mx	.005	2
103	MP3A	X	-7.6	4
104	MP3A	Z	13.164	4
105	MP3A	Mx	.005	4
106	MP3B	X	-4.794	2
107	MP3B	Z	8.304	2
108	MP3B	Mx	-.006	2
109	MP3B	X	-4.794	4
110	MP3B	Z	8.304	4
111	MP3B	Mx	-.006	4
112	MP3C	X	-7.6	2
113	MP3C	Z	13.164	2
114	MP3C	Mx	.005	2
115	MP3C	X	-7.6	4
116	MP3C	Z	13.164	4
117	MP3C	Mx	.005	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-4.24	3.5
2	MP1A	Z	2.448	3.5
3	MP1A	Mx	-.002	3.5
4	MP1C	X	-7.957	3.5
5	MP1C	Z	4.594	3.5
6	MP1C	Mx	0	3.5
7	MP1A	X	-11.168	2
8	MP1A	Z	6.448	2
9	MP1A	Mx	.007	2
10	MP1B	X	-11.168	2
11	MP1B	Z	6.448	2
12	MP1B	Mx	-.007	2
13	MP1C	X	-14.47	2
14	MP1C	Z	8.354	2
15	MP1C	Mx	0	2
16	MP1A	X	-5.535	5
17	MP1A	Z	3.196	5
18	MP1A	Mx	-.004	5
19	MP1B	X	-5.535	5
20	MP1B	Z	3.196	5
21	MP1B	Mx	.004	5
22	MP1C	X	-8.245	5
23	MP1C	Z	4.76	5
24	MP1C	Mx	0	5
25	MP2A	X	-4.957	2.38
26	MP2A	Z	2.862	2.38
27	MP2A	Mx	.002	2.38
28	MP2A	X	-4.957	3.63
29	MP2A	Z	2.862	3.63
30	MP2A	Mx	.002	3.63



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
31	MP2B	X	-4.957	2.38
32	MP2B	Z	2.862	2.38
33	MP2B	Mx	-.002	2.38
34	MP2B	X	-4.957	3.63
35	MP2B	Z	2.862	3.63
36	MP2B	Mx	-.002	3.63
37	MP2C	X	-7.235	2.38
38	MP2C	Z	4.177	2.38
39	MP2C	Mx	0	2.38
40	MP2C	X	-7.235	3.63
41	MP2C	Z	4.177	3.63
42	MP2C	Mx	0	3.63
43	MP4A	X	-11.071	1.03
44	MP4A	Z	6.392	1.03
45	MP4A	Mx	.006	1.03
46	MP4A	X	-11.071	4.98
47	MP4A	Z	6.392	4.98
48	MP4A	Mx	.006	4.98
49	MP4B	X	-11.071	1.03
50	MP4B	Z	6.392	1.03
51	MP4B	Mx	-.006	1.03
52	MP4B	X	-11.071	4.98
53	MP4B	Z	6.392	4.98
54	MP4B	Mx	-.006	4.98
55	MP4C	X	-17.218	1.03
56	MP4C	Z	9.941	1.03
57	MP4C	Mx	0	1.03
58	MP4C	X	-17.218	4.98
59	MP4C	Z	9.941	4.98
60	MP4C	Mx	0	4.98
61	M100	X	-17.122	2
62	M100	Z	9.885	2
63	M100	Mx	.011	2
64	MP1A	X	-28.435	1
65	MP1A	Z	16.417	1
66	MP1A	Mx	.007	1
67	MP1A	X	-28.435	5
68	MP1A	Z	16.417	5
69	MP1A	Mx	.007	5
70	MP1B	X	-28.435	1
71	MP1B	Z	16.417	1
72	MP1B	Mx	-.031	1
73	MP1B	X	-28.435	5
74	MP1B	Z	16.417	5
75	MP1B	Mx	-.031	5
76	MP1C	X	-34.786	1
77	MP1C	Z	20.084	1
78	MP1C	Mx	.03	1
79	MP1C	X	-34.786	5
80	MP1C	Z	20.084	5
81	MP1C	Mx	.03	5
82	MP1A	X	-23.534	1
83	MP1A	Z	13.588	1
84	MP1A	Mx	.026	1
85	MP1A	X	-23.534	5
86	MP1A	Z	13.588	5
87	MP1A	Mx	.026	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
88	MP1B	X	-23.534	1
89	MP1B	Z	13.588	1
90	MP1B	Mx	-.005	1
91	MP1B	X	-23.534	5
92	MP1B	Z	13.588	5
93	MP1B	Mx	-.005	5
94	MP1C	X	-33.853	1
95	MP1C	Z	19.545	1
96	MP1C	Mx	-.029	1
97	MP1C	X	-33.853	5
98	MP1C	Z	19.545	5
99	MP1C	Mx	-.029	5
100	MP3A	X	-9.924	2
101	MP3A	Z	5.73	2
102	MP3A	Mx	.007	2
103	MP3A	X	-9.924	4
104	MP3A	Z	5.73	4
105	MP3A	Mx	.007	4
106	MP3B	X	-9.924	2
107	MP3B	Z	5.73	2
108	MP3B	Mx	-.007	2
109	MP3B	X	-9.924	4
110	MP3B	Z	5.73	4
111	MP3B	Mx	-.007	4
112	MP3C	X	-14.784	2
113	MP3C	Z	8.536	2
114	MP3C	Mx	0	2
115	MP3C	X	-14.784	4
116	MP3C	Z	8.536	4
117	MP3C	Mx	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-3.466	3.5
2	MP1A	Z	0	3.5
3	MP1A	Mx	-.002	3.5
4	MP1C	X	-7.757	3.5
5	MP1C	Z	0	3.5
6	MP1C	Mx	.002	3.5
7	MP1A	X	-11.625	2
8	MP1A	Z	0	2
9	MP1A	Mx	.008	2
10	MP1B	X	-15.438	2
11	MP1B	Z	0	2
12	MP1B	Mx	-.005	2
13	MP1C	X	-15.438	2
14	MP1C	Z	0	2
15	MP1C	Mx	-.005	2
16	MP1A	X	-5.348	5
17	MP1A	Z	0	5
18	MP1A	Mx	-.004	5
19	MP1B	X	-8.478	5
20	MP1B	Z	0	5
21	MP1B	Mx	.003	5
22	MP1C	X	-8.478	5
23	MP1C	Z	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
24	MP1C	Mx	.003	5
25	MP2A	X	-4.847	2.38
26	MP2A	Z	0	2.38
27	MP2A	Mx	.002	2.38
28	MP2A	X	-4.847	3.63
29	MP2A	Z	0	3.63
30	MP2A	Mx	.002	3.63
31	MP2B	X	-7.477	2.38
32	MP2B	Z	0	2.38
33	MP2B	Mx	-.002	2.38
34	MP2B	X	-7.477	3.63
35	MP2B	Z	0	3.63
36	MP2B	Mx	-.002	3.63
37	MP2C	X	-7.477	2.38
38	MP2C	Z	0	2.38
39	MP2C	Mx	-.002	2.38
40	MP2C	X	-7.477	3.63
41	MP2C	Z	0	3.63
42	MP2C	Mx	-.002	3.63
43	MP4A	X	-10.418	1.03
44	MP4A	Z	0	1.03
45	MP4A	Mx	.005	1.03
46	MP4A	X	-10.418	4.98
47	MP4A	Z	0	4.98
48	MP4A	Mx	.005	4.98
49	MP4B	X	-17.516	1.03
50	MP4B	Z	0	1.03
51	MP4B	Mx	-.004	1.03
52	MP4B	X	-17.516	4.98
53	MP4B	Z	0	4.98
54	MP4B	Mx	-.004	4.98
55	MP4C	X	-17.516	1.03
56	MP4C	Z	0	1.03
57	MP4C	Mx	-.004	1.03
58	MP4C	X	-17.516	4.98
59	MP4C	Z	0	4.98
60	MP4C	Mx	-.004	4.98
61	M100	X	-17.726	2
62	M100	Z	0	2
63	M100	Mx	.012	2
64	MP1A	X	-30.39	1
65	MP1A	Z	0	1
66	MP1A	Mx	.02	1
67	MP1A	X	-30.39	5
68	MP1A	Z	0	5
69	MP1A	Mx	.02	5
70	MP1B	X	-37.723	1
71	MP1B	Z	0	1
72	MP1B	Mx	-.037	1
73	MP1B	X	-37.723	5
74	MP1B	Z	0	5
75	MP1B	Mx	-.037	5
76	MP1C	X	-37.723	1
77	MP1C	Z	0	1
78	MP1C	Mx	.012	1
79	MP1C	X	-37.723	5
80	MP1C	Z	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
81	MP1C	Mx	.012	5
82	MP1A	X	-23.203	1
83	MP1A	Z	0	1
84	MP1A	Mx	.015	1
85	MP1A	X	-23.203	5
86	MP1A	Z	0	5
87	MP1A	Mx	.015	5
88	MP1B	X	-35.119	1
89	MP1B	Z	0	1
90	MP1B	Mx	.011	1
91	MP1B	X	-35.119	5
92	MP1B	Z	0	5
93	MP1B	Mx	.011	5
94	MP1C	X	-35.119	1
95	MP1C	Z	0	1
96	MP1C	Mx	-.035	1
97	MP1C	X	-35.119	5
98	MP1C	Z	0	5
99	MP1C	Mx	-.035	5
100	MP3A	X	-9.589	2
101	MP3A	Z	0	2
102	MP3A	Mx	.006	2
103	MP3A	X	-9.589	4
104	MP3A	Z	0	4
105	MP3A	Mx	.006	4
106	MP3B	X	-15.201	2
107	MP3B	Z	0	2
108	MP3B	Mx	-.005	2
109	MP3B	X	-15.201	4
110	MP3B	Z	0	4
111	MP3B	Mx	-.005	4
112	MP3C	X	-15.201	2
113	MP3C	Z	0	2
114	MP3C	Mx	-.005	2
115	MP3C	X	-15.201	4
116	MP3C	Z	0	4
117	MP3C	Mx	-.005	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-4.24	3.5
2	MP1A	Z	-2.448	3.5
3	MP1A	Mx	-.002	3.5
4	MP1C	X	-4.24	3.5
5	MP1C	Z	-2.448	3.5
6	MP1C	Mx	.002	3.5
7	MP1A	X	-11.168	2
8	MP1A	Z	-6.448	2
9	MP1A	Mx	.007	2
10	MP1B	X	-14.47	2
11	MP1B	Z	-8.354	2
12	MP1B	Mx	0	2
13	MP1C	X	-11.168	2
14	MP1C	Z	-6.448	2
15	MP1C	Mx	-.007	2
16	MP1A	X	-5.535	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
17	MP1A	Z	-3.196	5
18	MP1A	Mx	-.004	5
19	MP1B	X	-8.245	5
20	MP1B	Z	-4.76	5
21	MP1B	Mx	0	5
22	MP1C	X	-5.535	5
23	MP1C	Z	-3.196	5
24	MP1C	Mx	.004	5
25	MP2A	X	-4.957	2.38
26	MP2A	Z	-2.862	2.38
27	MP2A	Mx	.002	2.38
28	MP2A	X	-4.957	3.63
29	MP2A	Z	-2.862	3.63
30	MP2A	Mx	.002	3.63
31	MP2B	X	-7.235	2.38
32	MP2B	Z	-4.177	2.38
33	MP2B	Mx	0	2.38
34	MP2B	X	-7.235	3.63
35	MP2B	Z	-4.177	3.63
36	MP2B	Mx	0	3.63
37	MP2C	X	-4.957	2.38
38	MP2C	Z	-2.862	2.38
39	MP2C	Mx	-.002	2.38
40	MP2C	X	-4.957	3.63
41	MP2C	Z	-2.862	3.63
42	MP2C	Mx	-.002	3.63
43	MP4A	X	-11.071	1.03
44	MP4A	Z	-6.392	1.03
45	MP4A	Mx	.006	1.03
46	MP4A	X	-11.071	4.98
47	MP4A	Z	-6.392	4.98
48	MP4A	Mx	.006	4.98
49	MP4B	X	-17.218	1.03
50	MP4B	Z	-9.941	1.03
51	MP4B	Mx	0	1.03
52	MP4B	X	-17.218	4.98
53	MP4B	Z	-9.941	4.98
54	MP4B	Mx	0	4.98
55	MP4C	X	-11.071	1.03
56	MP4C	Z	-6.392	1.03
57	MP4C	Mx	-.006	1.03
58	MP4C	X	-11.071	4.98
59	MP4C	Z	-6.392	4.98
60	MP4C	Mx	-.006	4.98
61	M100	X	-17.122	2
62	M100	Z	-9.885	2
63	M100	Mx	.011	2
64	MP1A	X	-28.435	1
65	MP1A	Z	-16.417	1
66	MP1A	Mx	.031	1
67	MP1A	X	-28.435	5
68	MP1A	Z	-16.417	5
69	MP1A	Mx	.031	5
70	MP1B	X	-34.786	1
71	MP1B	Z	-20.084	1
72	MP1B	Mx	-.03	1
73	MP1B	X	-34.786	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
74	MP1B	Z	-20.084	5
75	MP1B	Mx	-.03	5
76	MP1C	X	-28.435	1
77	MP1C	Z	-16.417	1
78	MP1C	Mx	-.007	1
79	MP1C	X	-28.435	5
80	MP1C	Z	-16.417	5
81	MP1C	Mx	-.007	5
82	MP1A	X	-23.534	1
83	MP1A	Z	-13.588	1
84	MP1A	Mx	.005	1
85	MP1A	X	-23.534	5
86	MP1A	Z	-13.588	5
87	MP1A	Mx	.005	5
88	MP1B	X	-33.853	1
89	MP1B	Z	-19.545	1
90	MP1B	Mx	.029	1
91	MP1B	X	-33.853	5
92	MP1B	Z	-19.545	5
93	MP1B	Mx	.029	5
94	MP1C	X	-23.534	1
95	MP1C	Z	-13.588	1
96	MP1C	Mx	-.026	1
97	MP1C	X	-23.534	5
98	MP1C	Z	-13.588	5
99	MP1C	Mx	-.026	5
100	MP3A	X	-9.924	2
101	MP3A	Z	-5.73	2
102	MP3A	Mx	.007	2
103	MP3A	X	-9.924	4
104	MP3A	Z	-5.73	4
105	MP3A	Mx	.007	4
106	MP3B	X	-14.784	2
107	MP3B	Z	-8.536	2
108	MP3B	Mx	0	2
109	MP3B	X	-14.784	4
110	MP3B	Z	-8.536	4
111	MP3B	Mx	0	4
112	MP3C	X	-9.924	2
113	MP3C	Z	-5.73	2
114	MP3C	Mx	-.007	2
115	MP3C	X	-9.924	4
116	MP3C	Z	-5.73	4
117	MP3C	Mx	-.007	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-3.879	3.5
2	MP1A	Z	-6.718	3.5
3	MP1A	Mx	-.002	3.5
4	MP1C	X	-1.733	3.5
5	MP1C	Z	-3.001	3.5
6	MP1C	Mx	.002	3.5
7	MP1A	X	-7.719	2
8	MP1A	Z	-13.37	2
9	MP1A	Mx	.005	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
10	MP1B	X	-7.719	2
11	MP1B	Z	-13.37	2
12	MP1B	Mx	.005	2
13	MP1C	X	-5.813	2
14	MP1C	Z	-10.068	2
15	MP1C	Mx	-.008	2
16	MP1A	X	-4.239	5
17	MP1A	Z	-7.342	5
18	MP1A	Mx	-.003	5
19	MP1B	X	-4.239	5
20	MP1B	Z	-7.342	5
21	MP1B	Mx	-.003	5
22	MP1C	X	-2.674	5
23	MP1C	Z	-4.632	5
24	MP1C	Mx	.004	5
25	MP2A	X	-3.739	2.38
26	MP2A	Z	-6.476	2.38
27	MP2A	Mx	.002	2.38
28	MP2A	X	-3.739	3.63
29	MP2A	Z	-6.476	3.63
30	MP2A	Mx	.002	3.63
31	MP2B	X	-3.739	2.38
32	MP2B	Z	-6.476	2.38
33	MP2B	Mx	.002	2.38
34	MP2B	X	-3.739	3.63
35	MP2B	Z	-6.476	3.63
36	MP2B	Mx	.002	3.63
37	MP2C	X	-2.423	2.38
38	MP2C	Z	-4.197	2.38
39	MP2C	Mx	-.002	2.38
40	MP2C	X	-2.423	3.63
41	MP2C	Z	-4.197	3.63
42	MP2C	Mx	-.002	3.63
43	MP4A	X	-8.758	1.03
44	MP4A	Z	-15.169	1.03
45	MP4A	Mx	.004	1.03
46	MP4A	X	-8.758	4.98
47	MP4A	Z	-15.169	4.98
48	MP4A	Mx	.004	4.98
49	MP4B	X	-8.758	1.03
50	MP4B	Z	-15.169	1.03
51	MP4B	Mx	.004	1.03
52	MP4B	X	-8.758	4.98
53	MP4B	Z	-15.169	4.98
54	MP4B	Mx	.004	4.98
55	MP4C	X	-5.209	1.03
56	MP4C	Z	-9.022	1.03
57	MP4C	Mx	-.005	1.03
58	MP4C	X	-5.209	4.98
59	MP4C	Z	-9.022	4.98
60	MP4C	Mx	-.005	4.98
61	M100	X	-11.929	2
62	M100	Z	-20.662	2
63	M100	Mx	.008	2
64	MP1A	X	-18.861	1
65	MP1A	Z	-32.669	1
66	MP1A	Mx	.037	1





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
67	MP1A	X	-18.861	5
68	MP1A	Z	-32.669	5
69	MP1A	Mx	.037	5
70	MP1B	X	-18.861	1
71	MP1B	Z	-32.669	1
72	MP1B	Mx	-.012	1
73	MP1B	X	-18.861	5
74	MP1B	Z	-32.669	5
75	MP1B	Mx	-.012	5
76	MP1C	X	-15.195	1
77	MP1C	Z	-26.318	1
78	MP1C	Mx	-.02	1
79	MP1C	X	-15.195	5
80	MP1C	Z	-26.318	5
81	MP1C	Mx	-.02	5
82	MP1A	X	-17.559	1
83	MP1A	Z	-30.414	1
84	MP1A	Mx	-.011	1
85	MP1A	X	-17.559	5
86	MP1A	Z	-30.414	5
87	MP1A	Mx	-.011	5
88	MP1B	X	-17.559	1
89	MP1B	Z	-30.414	1
90	MP1B	Mx	.035	1
91	MP1B	X	-17.559	5
92	MP1B	Z	-30.414	5
93	MP1B	Mx	.035	5
94	MP1C	X	-11.602	1
95	MP1C	Z	-20.095	1
96	MP1C	Mx	-.015	1
97	MP1C	X	-11.602	5
98	MP1C	Z	-20.095	5
99	MP1C	Mx	-.015	5
100	MP3A	X	-7.6	2
101	MP3A	Z	-13.164	2
102	MP3A	Mx	.005	2
103	MP3A	X	-7.6	4
104	MP3A	Z	-13.164	4
105	MP3A	Mx	.005	4
106	MP3B	X	-7.6	2
107	MP3B	Z	-13.164	2
108	MP3B	Mx	.005	2
109	MP3B	X	-7.6	4
110	MP3B	Z	-13.164	4
111	MP3B	Mx	.005	4
112	MP3C	X	-4.794	2
113	MP3C	Z	-8.304	2
114	MP3C	Mx	-.006	2
115	MP3C	X	-4.794	4
116	MP3C	Z	-8.304	4
117	MP3C	Mx	-.006	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	3.5
2	MP1A	Z	-2.578	3.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
3	MP1A	Mx	0	3.5
4	MP1C	X	0	3.5
5	MP1C	Z	-1.231	3.5
6	MP1C	Mx	.000533	3.5
7	MP1A	X	0	2
8	MP1A	Z	-4.163	2
9	MP1A	Mx	0	2
10	MP1B	X	0	2
11	MP1B	Z	-3.136	2
12	MP1B	Mx	.002	2
13	MP1C	X	0	2
14	MP1C	Z	-3.136	2
15	MP1C	Mx	-.002	2
16	MP1A	X	0	5
17	MP1A	Z	-1.934	5
18	MP1A	Mx	0	5
19	MP1B	X	0	5
20	MP1B	Z	-1.168	5
21	MP1B	Mx	-.000674	5
22	MP1C	X	0	5
23	MP1C	Z	-1.168	5
24	MP1C	Mx	.000674	5
25	MP2A	X	0	2.38
26	MP2A	Z	-2.081	2.38
27	MP2A	Mx	0	2.38
28	MP2A	X	0	3.63
29	MP2A	Z	-2.081	3.63
30	MP2A	Mx	0	3.63
31	MP2B	X	0	2.38
32	MP2B	Z	-1.376	2.38
33	MP2B	Mx	.000596	2.38
34	MP2B	X	0	3.63
35	MP2B	Z	-1.376	3.63
36	MP2B	Mx	.000596	3.63
37	MP2C	X	0	2.38
38	MP2C	Z	-1.376	2.38
39	MP2C	Mx	-.000596	2.38
40	MP2C	X	0	3.63
41	MP2C	Z	-1.376	3.63
42	MP2C	Mx	-.000596	3.63
43	MP4A	X	0	1.03
44	MP4A	Z	-6.338	1.03
45	MP4A	Mx	0	1.03
46	MP4A	X	0	4.98
47	MP4A	Z	-6.338	4.98
48	MP4A	Mx	0	4.98
49	MP4B	X	0	1.03
50	MP4B	Z	-3.849	1.03
51	MP4B	Mx	.002	1.03
52	MP4B	X	0	4.98
53	MP4B	Z	-3.849	4.98
54	MP4B	Mx	.002	4.98
55	MP4C	X	0	1.03
56	MP4C	Z	-3.849	1.03
57	MP4C	Mx	-.002	1.03
58	MP4C	X	0	4.98
59	MP4C	Z	-3.849	4.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
60	MP4C	Mx	-.002	4.98
61	M100	X	0	2
62	M100	Z	-8.514	2
63	M100	Mx	0	2
64	MP1A	X	0	1
65	MP1A	Z	-6.352	1
66	MP1A	Mx	.005	1
67	MP1A	X	0	5
68	MP1A	Z	-6.352	5
69	MP1A	Mx	.005	5
70	MP1B	X	0	1
71	MP1B	Z	-5.153	1
72	MP1B	Mx	.001	1
73	MP1B	X	0	5
74	MP1B	Z	-5.153	5
75	MP1B	Mx	.001	5
76	MP1C	X	0	1
77	MP1C	Z	-5.153	1
78	MP1C	Mx	-.005	1
79	MP1C	X	0	5
80	MP1C	Z	-5.153	5
81	MP1C	Mx	-.005	5
82	MP1A	X	0	1
83	MP1A	Z	-9.494	1
84	MP1A	Mx	-.007	1
85	MP1A	X	0	5
86	MP1A	Z	-9.494	5
87	MP1A	Mx	-.007	5
88	MP1B	X	0	1
89	MP1B	Z	-4.952	1
90	MP1B	Mx	.005	1
91	MP1B	X	0	5
92	MP1B	Z	-4.952	5
93	MP1B	Mx	.005	5
94	MP1C	X	0	1
95	MP1C	Z	-4.952	1
96	MP1C	Mx	-.001	1
97	MP1C	X	0	5
98	MP1C	Z	-4.952	5
99	MP1C	Mx	-.001	5
100	MP3A	X	0	2
101	MP3A	Z	-5.412	2
102	MP3A	Mx	0	2
103	MP3A	X	0	4
104	MP3A	Z	-5.412	4
105	MP3A	Mx	0	4
106	MP3B	X	0	2
107	MP3B	Z	-3.516	2
108	MP3B	Mx	.002	2
109	MP3B	X	0	4
110	MP3B	Z	-3.516	4
111	MP3B	Mx	.002	4
112	MP3C	X	0	2
113	MP3C	Z	-3.516	2
114	MP3C	Mx	-.002	2
115	MP3C	X	0	4
116	MP3C	Z	-3.516	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
117	MP3C	Mx	- .002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	1.065	3.5
2	MP1A	Z	-1.844	3.5
3	MP1A	Mx	.000532	3.5
4	MP1C	X	1.065	3.5
5	MP1C	Z	-1.844	3.5
6	MP1C	Mx	.000532	3.5
7	MP1A	X	1.91	2
8	MP1A	Z	-3.309	2
9	MP1A	Mx	-.001	2
10	MP1B	X	1.397	2
11	MP1B	Z	-2.419	2
12	MP1B	Mx	.002	2
13	MP1C	X	1.91	2
14	MP1C	Z	-3.309	2
15	MP1C	Mx	-.001	2
16	MP1A	X	.839	5
17	MP1A	Z	-1.454	5
18	MP1A	Mx	.000559	5
19	MP1B	X	.457	5
20	MP1B	Z	-.791	5
21	MP1B	Mx	-.000609	5
22	MP1C	X	.839	5
23	MP1C	Z	-1.454	5
24	MP1C	Mx	.00056	5
25	MP2A	X	.923	2.38
26	MP2A	Z	-1.599	2.38
27	MP2A	Mx	-.000462	2.38
28	MP2A	X	.923	3.63
29	MP2A	Z	-1.599	3.63
30	MP2A	Mx	-.000462	3.63
31	MP2B	X	.571	2.38
32	MP2B	Z	-.989	2.38
33	MP2B	Mx	.000571	2.38
34	MP2B	X	.571	3.63
35	MP2B	Z	-.989	3.63
36	MP2B	Mx	.000571	3.63
37	MP2C	X	.923	2.38
38	MP2C	Z	-1.599	2.38
39	MP2C	Mx	-.000462	2.38
40	MP2C	X	.923	3.63
41	MP2C	Z	-1.599	3.63
42	MP2C	Mx	-.000462	3.63
43	MP4A	X	2.754	1.03
44	MP4A	Z	-4.771	1.03
45	MP4A	Mx	-.001	1.03
46	MP4A	X	2.754	4.98
47	MP4A	Z	-4.771	4.98
48	MP4A	Mx	-.001	4.98
49	MP4B	X	1.51	1.03
50	MP4B	Z	-2.615	1.03
51	MP4B	Mx	.002	1.03
52	MP4B	X	1.51	4.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
53	MP4B	Z	-2.615	4.98
54	MP4B	Mx	.002	4.98
55	MP4C	X	2.754	1.03
56	MP4C	Z	-4.771	1.03
57	MP4C	Mx	-.001	1.03
58	MP4C	X	2.754	4.98
59	MP4C	Z	-4.771	4.98
60	MP4C	Mx	-.001	4.98
61	M100	X	4.002	2
62	M100	Z	-6.931	2
63	M100	Mx	-.003	2
64	MP1A	X	2.976	1
65	MP1A	Z	-5.155	1
66	MP1A	Mx	.002	1
67	MP1A	X	2.976	5
68	MP1A	Z	-5.155	5
69	MP1A	Mx	.002	5
70	MP1B	X	2.377	1
71	MP1B	Z	-4.117	1
72	MP1B	Mx	.003	1
73	MP1B	X	2.377	5
74	MP1B	Z	-4.117	5
75	MP1B	Mx	.003	5
76	MP1C	X	2.976	1
77	MP1C	Z	-5.155	1
78	MP1C	Mx	-.006	1
79	MP1C	X	2.976	5
80	MP1C	Z	-5.155	5
81	MP1C	Mx	-.006	5
82	MP1A	X	3.99	1
83	MP1A	Z	-6.911	1
84	MP1A	Mx	-.008	1
85	MP1A	X	3.99	5
86	MP1A	Z	-6.911	5
87	MP1A	Mx	-.008	5
88	MP1B	X	1.719	1
89	MP1B	Z	-2.977	1
90	MP1B	Mx	.002	1
91	MP1B	X	1.719	5
92	MP1B	Z	-2.977	5
93	MP1B	Mx	.002	5
94	MP1C	X	3.99	1
95	MP1C	Z	-6.911	1
96	MP1C	Mx	.003	1
97	MP1C	X	3.99	5
98	MP1C	Z	-6.911	5
99	MP1C	Mx	.003	5
100	MP3A	X	2.39	2
101	MP3A	Z	-4.139	2
102	MP3A	Mx	-.002	2
103	MP3A	X	2.39	4
104	MP3A	Z	-4.139	4
105	MP3A	Mx	-.002	4
106	MP3B	X	1.442	2
107	MP3B	Z	-2.497	2
108	MP3B	Mx	.002	2
109	MP3B	X	1.442	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
110	MP3B	Z	-2.497	4
111	MP3B	Mx	.002	4
112	MP3C	X	2.39	2
113	MP3C	Z	-4.139	2
114	MP3C	Mx	-.002	2
115	MP3C	X	2.39	4
116	MP3C	Z	-4.139	4
117	MP3C	Mx	-.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	1.066	3.5
2	MP1A	Z	-.616	3.5
3	MP1A	Mx	.000533	3.5
4	MP1C	X	2.233	3.5
5	MP1C	Z	-1.289	3.5
6	MP1C	Mx	0	3.5
7	MP1A	X	2.716	2
8	MP1A	Z	-1.568	2
9	MP1A	Mx	-.002	2
10	MP1B	X	2.716	2
11	MP1B	Z	-1.568	2
12	MP1B	Mx	.002	2
13	MP1C	X	3.605	2
14	MP1C	Z	-2.081	2
15	MP1C	Mx	0	2
16	MP1A	X	1.012	5
17	MP1A	Z	-.584	5
18	MP1A	Mx	.000675	5
19	MP1B	X	1.012	5
20	MP1B	Z	-.584	5
21	MP1B	Mx	-.000675	5
22	MP1C	X	1.675	5
23	MP1C	Z	-.967	5
24	MP1C	Mx	0	5
25	MP2A	X	1.192	2.38
26	MP2A	Z	-.688	2.38
27	MP2A	Mx	-.000596	2.38
28	MP2A	X	1.192	3.63
29	MP2A	Z	-.688	3.63
30	MP2A	Mx	-.000596	3.63
31	MP2B	X	1.192	2.38
32	MP2B	Z	-.688	2.38
33	MP2B	Mx	.000596	2.38
34	MP2B	X	1.192	3.63
35	MP2B	Z	-.688	3.63
36	MP2B	Mx	.000596	3.63
37	MP2C	X	1.803	2.38
38	MP2C	Z	-1.041	2.38
39	MP2C	Mx	0	2.38
40	MP2C	X	1.803	3.63
41	MP2C	Z	-1.041	3.63
42	MP2C	Mx	0	3.63
43	MP4A	X	3.333	1.03
44	MP4A	Z	-1.924	1.03
45	MP4A	Mx	-.002	1.03



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
46	MP4A	X	3.333	4.98
47	MP4A	Z	-1.924	4.98
48	MP4A	Mx	-.002	4.98
49	MP4B	X	3.333	1.03
50	MP4B	Z	-1.924	1.03
51	MP4B	Mx	.002	1.03
52	MP4B	X	3.333	4.98
53	MP4B	Z	-1.924	4.98
54	MP4B	Mx	.002	4.98
55	MP4C	X	5.489	1.03
56	MP4C	Z	-3.169	1.03
57	MP4C	Mx	0	1.03
58	MP4C	X	5.489	4.98
59	MP4C	Z	-3.169	4.98
60	MP4C	Mx	0	4.98
61	M100	X	6.048	2
62	M100	Z	-3.492	2
63	M100	Mx	-.004	2
64	MP1A	X	4.463	1
65	MP1A	Z	-2.577	1
66	MP1A	Mx	-.001	1
67	MP1A	X	4.463	5
68	MP1A	Z	-2.577	5
69	MP1A	Mx	-.001	5
70	MP1B	X	4.463	1
71	MP1B	Z	-2.577	1
72	MP1B	Mx	.005	1
73	MP1B	X	4.463	5
74	MP1B	Z	-2.577	5
75	MP1B	Mx	.005	5
76	MP1C	X	5.501	1
77	MP1C	Z	-3.176	1
78	MP1C	Mx	-.005	1
79	MP1C	X	5.501	5
80	MP1C	Z	-3.176	5
81	MP1C	Mx	-.005	5
82	MP1A	X	4.288	1
83	MP1A	Z	-2.476	1
84	MP1A	Mx	-.005	1
85	MP1A	X	4.288	5
86	MP1A	Z	-2.476	5
87	MP1A	Mx	-.005	5
88	MP1B	X	4.288	1
89	MP1B	Z	-2.476	1
90	MP1B	Mx	.001	1
91	MP1B	X	4.288	5
92	MP1B	Z	-2.476	5
93	MP1B	Mx	.001	5
94	MP1C	X	8.222	1
95	MP1C	Z	-4.747	1
96	MP1C	Mx	.007	1
97	MP1C	X	8.222	5
98	MP1C	Z	-4.747	5
99	MP1C	Mx	.007	5
100	MP3A	X	3.045	2
101	MP3A	Z	-1.758	2
102	MP3A	Mx	-.002	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
103	MP3A	X	3.045	4
104	MP3A	Z	-1.758	4
105	MP3A	Mx	-.002	4
106	MP3B	X	3.045	2
107	MP3B	Z	-1.758	2
108	MP3B	Mx	.002	2
109	MP3B	X	3.045	4
110	MP3B	Z	-1.758	4
111	MP3B	Mx	.002	4
112	MP3C	X	4.687	2
113	MP3C	Z	-2.706	2
114	MP3C	Mx	0	2
115	MP3C	X	4.687	4
116	MP3C	Z	-2.706	4
117	MP3C	Mx	0	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	.782	3.5
2	MP1A	Z	0	3.5
3	MP1A	Mx	.000391	3.5
4	MP1C	X	2.129	3.5
5	MP1C	Z	0	3.5
6	MP1C	Mx	-.000532	3.5
7	MP1A	X	2.793	2
8	MP1A	Z	0	2
9	MP1A	Mx	-.002	2
10	MP1B	X	3.821	2
11	MP1B	Z	0	2
12	MP1B	Mx	.001	2
13	MP1C	X	3.821	2
14	MP1C	Z	0	2
15	MP1C	Mx	.001	2
16	MP1A	X	.913	5
17	MP1A	Z	0	5
18	MP1A	Mx	.000609	5
19	MP1B	X	1.679	5
20	MP1B	Z	0	5
21	MP1B	Mx	-.00056	5
22	MP1C	X	1.679	5
23	MP1C	Z	0	5
24	MP1C	Mx	-.00056	5
25	MP2A	X	1.141	2.38
26	MP2A	Z	0	2.38
27	MP2A	Mx	-.00057	2.38
28	MP2A	X	1.141	3.63
29	MP2A	Z	0	3.63
30	MP2A	Mx	-.00057	3.63
31	MP2B	X	1.846	2.38
32	MP2B	Z	0	2.38
33	MP2B	Mx	.000462	2.38
34	MP2B	X	1.846	3.63
35	MP2B	Z	0	3.63
36	MP2B	Mx	.000462	3.63
37	MP2C	X	1.846	2.38
38	MP2C	Z	0	2.38



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
39	MP2C	Mx	.000462	2.38
40	MP2C	X	1.846	3.63
41	MP2C	Z	0	3.63
42	MP2C	Mx	.000462	3.63
43	MP4A	X	3.019	1.03
44	MP4A	Z	0	1.03
45	MP4A	Mx	-.002	1.03
46	MP4A	X	3.019	4.98
47	MP4A	Z	0	4.98
48	MP4A	Mx	-.002	4.98
49	MP4B	X	5.509	1.03
50	MP4B	Z	0	1.03
51	MP4B	Mx	.001	1.03
52	MP4B	X	5.509	4.98
53	MP4B	Z	0	4.98
54	MP4B	Mx	.001	4.98
55	MP4C	X	5.509	1.03
56	MP4C	Z	0	1.03
57	MP4C	Mx	.001	1.03
58	MP4C	X	5.509	4.98
59	MP4C	Z	0	4.98
60	MP4C	Mx	.001	4.98
61	M100	X	6.473	2
62	M100	Z	0	2
63	M100	Mx	-.004	2
64	MP1A	X	4.754	1
65	MP1A	Z	0	1
66	MP1A	Mx	-.003	1
67	MP1A	X	4.754	5
68	MP1A	Z	0	5
69	MP1A	Mx	-.003	5
70	MP1B	X	5.952	1
71	MP1B	Z	0	1
72	MP1B	Mx	.006	1
73	MP1B	X	5.952	5
74	MP1B	Z	0	5
75	MP1B	Mx	.006	5
76	MP1C	X	5.952	1
77	MP1C	Z	0	1
78	MP1C	Mx	-.002	1
79	MP1C	X	5.952	5
80	MP1C	Z	0	5
81	MP1C	Mx	-.002	5
82	MP1A	X	3.438	1
83	MP1A	Z	0	1
84	MP1A	Mx	-.002	1
85	MP1A	X	3.438	5
86	MP1A	Z	0	5
87	MP1A	Mx	-.002	5
88	MP1B	X	7.98	1
89	MP1B	Z	0	1
90	MP1B	Mx	-.003	1
91	MP1B	X	7.98	5
92	MP1B	Z	0	5
93	MP1B	Mx	-.003	5
94	MP1C	X	7.98	1
95	MP1C	Z	0	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
96	MP1C	Mx	.008	1
97	MP1C	X	7.98	5
98	MP1C	Z	0	5
99	MP1C	Mx	.008	5
100	MP3A	X	2.884	2
101	MP3A	Z	0	2
102	MP3A	Mx	-.002	2
103	MP3A	X	2.884	4
104	MP3A	Z	0	4
105	MP3A	Mx	-.002	4
106	MP3B	X	4.78	2
107	MP3B	Z	0	2
108	MP3B	Mx	.002	2
109	MP3B	X	4.78	4
110	MP3B	Z	0	4
111	MP3B	Mx	.002	4
112	MP3C	X	4.78	2
113	MP3C	Z	0	2
114	MP3C	Mx	.002	2
115	MP3C	X	4.78	4
116	MP3C	Z	0	4
117	MP3C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	1.066	3.5
2	MP1A	Z	.616	3.5
3	MP1A	Mx	.000533	3.5
4	MP1C	X	1.066	3.5
5	MP1C	Z	.616	3.5
6	MP1C	Mx	-.000533	3.5
7	MP1A	X	2.716	2
8	MP1A	Z	1.568	2
9	MP1A	Mx	-.002	2
10	MP1B	X	3.605	2
11	MP1B	Z	2.081	2
12	MP1B	Mx	0	2
13	MP1C	X	2.716	2
14	MP1C	Z	1.568	2
15	MP1C	Mx	.002	2
16	MP1A	X	1.012	5
17	MP1A	Z	.584	5
18	MP1A	Mx	.000675	5
19	MP1B	X	1.675	5
20	MP1B	Z	.967	5
21	MP1B	Mx	0	5
22	MP1C	X	1.012	5
23	MP1C	Z	.584	5
24	MP1C	Mx	-.000675	5
25	MP2A	X	1.192	2.38
26	MP2A	Z	.688	2.38
27	MP2A	Mx	-.000596	2.38
28	MP2A	X	1.192	3.63
29	MP2A	Z	.688	3.63
30	MP2A	Mx	-.000596	3.63
31	MP2B	X	1.803	2.38



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
32	MP2B	Z	1.041	2.38
33	MP2B	Mx	0	2.38
34	MP2B	X	1.803	3.63
35	MP2B	Z	1.041	3.63
36	MP2B	Mx	0	3.63
37	MP2C	X	1.192	2.38
38	MP2C	Z	.688	2.38
39	MP2C	Mx	.000596	2.38
40	MP2C	X	1.192	3.63
41	MP2C	Z	.688	3.63
42	MP2C	Mx	.000596	3.63
43	MP4A	X	3.333	1.03
44	MP4A	Z	1.924	1.03
45	MP4A	Mx	-.002	1.03
46	MP4A	X	3.333	4.98
47	MP4A	Z	1.924	4.98
48	MP4A	Mx	-.002	4.98
49	MP4B	X	5.489	1.03
50	MP4B	Z	3.169	1.03
51	MP4B	Mx	0	1.03
52	MP4B	X	5.489	4.98
53	MP4B	Z	3.169	4.98
54	MP4B	Mx	0	4.98
55	MP4C	X	3.333	1.03
56	MP4C	Z	1.924	1.03
57	MP4C	Mx	.002	1.03
58	MP4C	X	3.333	4.98
59	MP4C	Z	1.924	4.98
60	MP4C	Mx	.002	4.98
61	M100	X	6.048	2
62	M100	Z	3.492	2
63	M100	Mx	-.004	2
64	MP1A	X	4.463	1
65	MP1A	Z	2.577	1
66	MP1A	Mx	-.005	1
67	MP1A	X	4.463	5
68	MP1A	Z	2.577	5
69	MP1A	Mx	-.005	5
70	MP1B	X	5.501	1
71	MP1B	Z	3.176	1
72	MP1B	Mx	.005	1
73	MP1B	X	5.501	5
74	MP1B	Z	3.176	5
75	MP1B	Mx	.005	5
76	MP1C	X	4.463	1
77	MP1C	Z	2.577	1
78	MP1C	Mx	.001	1
79	MP1C	X	4.463	5
80	MP1C	Z	2.577	5
81	MP1C	Mx	.001	5
82	MP1A	X	4.288	1
83	MP1A	Z	2.476	1
84	MP1A	Mx	-.001	1
85	MP1A	X	4.288	5
86	MP1A	Z	2.476	5
87	MP1A	Mx	-.001	5
88	MP1B	X	8.222	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
89	MP1B	Z	4.747	1
90	MP1B	Mx	-.007	1
91	MP1B	X	8.222	5
92	MP1B	Z	4.747	5
93	MP1B	Mx	-.007	5
94	MP1C	X	4.288	1
95	MP1C	Z	2.476	1
96	MP1C	Mx	.005	1
97	MP1C	X	4.288	5
98	MP1C	Z	2.476	5
99	MP1C	Mx	.005	5
100	MP3A	X	3.045	2
101	MP3A	Z	1.758	2
102	MP3A	Mx	-.002	2
103	MP3A	X	3.045	4
104	MP3A	Z	1.758	4
105	MP3A	Mx	-.002	4
106	MP3B	X	4.687	2
107	MP3B	Z	2.706	2
108	MP3B	Mx	0	2
109	MP3B	X	4.687	4
110	MP3B	Z	2.706	4
111	MP3B	Mx	0	4
112	MP3C	X	3.045	2
113	MP3C	Z	1.758	2
114	MP3C	Mx	.002	2
115	MP3C	X	3.045	4
116	MP3C	Z	1.758	4
117	MP3C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	1.065	3.5
2	MP1A	Z	1.844	3.5
3	MP1A	Mx	.000532	3.5
4	MP1C	X	.391	3.5
5	MP1C	Z	.677	3.5
6	MP1C	Mx	-.000391	3.5
7	MP1A	X	1.91	2
8	MP1A	Z	3.309	2
9	MP1A	Mx	-.001	2
10	MP1B	X	1.91	2
11	MP1B	Z	3.309	2
12	MP1B	Mx	-.001	2
13	MP1C	X	1.397	2
14	MP1C	Z	2.419	2
15	MP1C	Mx	.002	2
16	MP1A	X	.839	5
17	MP1A	Z	1.454	5
18	MP1A	Mx	.000559	5
19	MP1B	X	.839	5
20	MP1B	Z	1.454	5
21	MP1B	Mx	.00056	5
22	MP1C	X	.457	5
23	MP1C	Z	.791	5
24	MP1C	Mx	-.000609	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
25	MP2A	X	.923	2.38
26	MP2A	Z	1.599	2.38
27	MP2A	Mx	-.000462	2.38
28	MP2A	X	.923	3.63
29	MP2A	Z	1.599	3.63
30	MP2A	Mx	-.000462	3.63
31	MP2B	X	.923	2.38
32	MP2B	Z	1.599	2.38
33	MP2B	Mx	-.000462	2.38
34	MP2B	X	.923	3.63
35	MP2B	Z	1.599	3.63
36	MP2B	Mx	-.000462	3.63
37	MP2C	X	.571	2.38
38	MP2C	Z	.989	2.38
39	MP2C	Mx	.000571	2.38
40	MP2C	X	.571	3.63
41	MP2C	Z	.989	3.63
42	MP2C	Mx	.000571	3.63
43	MP4A	X	2.754	1.03
44	MP4A	Z	4.771	1.03
45	MP4A	Mx	-.001	1.03
46	MP4A	X	2.754	4.98
47	MP4A	Z	4.771	4.98
48	MP4A	Mx	-.001	4.98
49	MP4B	X	2.754	1.03
50	MP4B	Z	4.771	1.03
51	MP4B	Mx	-.001	1.03
52	MP4B	X	2.754	4.98
53	MP4B	Z	4.771	4.98
54	MP4B	Mx	-.001	4.98
55	MP4C	X	1.51	1.03
56	MP4C	Z	2.615	1.03
57	MP4C	Mx	.002	1.03
58	MP4C	X	1.51	4.98
59	MP4C	Z	2.615	4.98
60	MP4C	Mx	.002	4.98
61	M100	X	4.002	2
62	M100	Z	6.931	2
63	M100	Mx	-.003	2
64	MP1A	X	2.976	1
65	MP1A	Z	5.155	1
66	MP1A	Mx	-.006	1
67	MP1A	X	2.976	5
68	MP1A	Z	5.155	5
69	MP1A	Mx	-.006	5
70	MP1B	X	2.976	1
71	MP1B	Z	5.155	1
72	MP1B	Mx	.002	1
73	MP1B	X	2.976	5
74	MP1B	Z	5.155	5
75	MP1B	Mx	.002	5
76	MP1C	X	2.377	1
77	MP1C	Z	4.117	1
78	MP1C	Mx	.003	1
79	MP1C	X	2.377	5
80	MP1C	Z	4.117	5
81	MP1C	Mx	.003	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
82	MP1A	X	3.99	1
83	MP1A	Z	6.911	1
84	MP1A	Mx	.003	1
85	MP1A	X	3.99	5
86	MP1A	Z	6.911	5
87	MP1A	Mx	.003	5
88	MP1B	X	3.99	1
89	MP1B	Z	6.911	1
90	MP1B	Mx	-.008	1
91	MP1B	X	3.99	5
92	MP1B	Z	6.911	5
93	MP1B	Mx	-.008	5
94	MP1C	X	1.719	1
95	MP1C	Z	2.977	1
96	MP1C	Mx	.002	1
97	MP1C	X	1.719	5
98	MP1C	Z	2.977	5
99	MP1C	Mx	.002	5
100	MP3A	X	2.39	2
101	MP3A	Z	4.139	2
102	MP3A	Mx	-.002	2
103	MP3A	X	2.39	4
104	MP3A	Z	4.139	4
105	MP3A	Mx	-.002	4
106	MP3B	X	2.39	2
107	MP3B	Z	4.139	2
108	MP3B	Mx	-.002	2
109	MP3B	X	2.39	4
110	MP3B	Z	4.139	4
111	MP3B	Mx	-.002	4
112	MP3C	X	1.442	2
113	MP3C	Z	2.497	2
114	MP3C	Mx	.002	2
115	MP3C	X	1.442	4
116	MP3C	Z	2.497	4
117	MP3C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	0	3.5
2	MP1A	Z	2.578	3.5
3	MP1A	Mx	0	3.5
4	MP1C	X	0	3.5
5	MP1C	Z	1.231	3.5
6	MP1C	Mx	-.000533	3.5
7	MP1A	X	0	2
8	MP1A	Z	4.163	2
9	MP1A	Mx	0	2
10	MP1B	X	0	2
11	MP1B	Z	3.136	2
12	MP1B	Mx	-.002	2
13	MP1C	X	0	2
14	MP1C	Z	3.136	2
15	MP1C	Mx	.002	2
16	MP1A	X	0	5
17	MP1A	Z	1.934	5



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
18	MP1A	Mx	0	5
19	MP1B	X	0	5
20	MP1B	Z	1.168	5
21	MP1B	Mx	.000674	5
22	MP1C	X	0	5
23	MP1C	Z	1.168	5
24	MP1C	Mx	-.000674	5
25	MP2A	X	0	2.38
26	MP2A	Z	2.081	2.38
27	MP2A	Mx	0	2.38
28	MP2A	X	0	3.63
29	MP2A	Z	2.081	3.63
30	MP2A	Mx	0	3.63
31	MP2B	X	0	2.38
32	MP2B	Z	1.376	2.38
33	MP2B	Mx	-.000596	2.38
34	MP2B	X	0	3.63
35	MP2B	Z	1.376	3.63
36	MP2B	Mx	-.000596	3.63
37	MP2C	X	0	2.38
38	MP2C	Z	1.376	2.38
39	MP2C	Mx	.000596	2.38
40	MP2C	X	0	3.63
41	MP2C	Z	1.376	3.63
42	MP2C	Mx	.000596	3.63
43	MP4A	X	0	1.03
44	MP4A	Z	6.338	1.03
45	MP4A	Mx	0	1.03
46	MP4A	X	0	4.98
47	MP4A	Z	6.338	4.98
48	MP4A	Mx	0	4.98
49	MP4B	X	0	1.03
50	MP4B	Z	3.849	1.03
51	MP4B	Mx	-.002	1.03
52	MP4B	X	0	4.98
53	MP4B	Z	3.849	4.98
54	MP4B	Mx	-.002	4.98
55	MP4C	X	0	1.03
56	MP4C	Z	3.849	1.03
57	MP4C	Mx	.002	1.03
58	MP4C	X	0	4.98
59	MP4C	Z	3.849	4.98
60	MP4C	Mx	.002	4.98
61	M100	X	0	2
62	M100	Z	8.514	2
63	M100	Mx	0	2
64	MP1A	X	0	1
65	MP1A	Z	6.352	1
66	MP1A	Mx	-.005	1
67	MP1A	X	0	5
68	MP1A	Z	6.352	5
69	MP1A	Mx	-.005	5
70	MP1B	X	0	1
71	MP1B	Z	5.153	1
72	MP1B	Mx	-.001	1
73	MP1B	X	0	5
74	MP1B	Z	5.153	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
75	MP1B	Mx	-.001	5
76	MP1C	X	0	1
77	MP1C	Z	5.153	1
78	MP1C	Mx	.005	1
79	MP1C	X	0	5
80	MP1C	Z	5.153	5
81	MP1C	Mx	.005	5
82	MP1A	X	0	1
83	MP1A	Z	9.494	1
84	MP1A	Mx	.007	1
85	MP1A	X	0	5
86	MP1A	Z	9.494	5
87	MP1A	Mx	.007	5
88	MP1B	X	0	1
89	MP1B	Z	4.952	1
90	MP1B	Mx	-.005	1
91	MP1B	X	0	5
92	MP1B	Z	4.952	5
93	MP1B	Mx	-.005	5
94	MP1C	X	0	1
95	MP1C	Z	4.952	1
96	MP1C	Mx	.001	1
97	MP1C	X	0	5
98	MP1C	Z	4.952	5
99	MP1C	Mx	.001	5
100	MP3A	X	0	2
101	MP3A	Z	5.412	2
102	MP3A	Mx	0	2
103	MP3A	X	0	4
104	MP3A	Z	5.412	4
105	MP3A	Mx	0	4
106	MP3B	X	0	2
107	MP3B	Z	3.516	2
108	MP3B	Mx	-.002	2
109	MP3B	X	0	4
110	MP3B	Z	3.516	4
111	MP3B	Mx	-.002	4
112	MP3C	X	0	2
113	MP3C	Z	3.516	2
114	MP3C	Mx	.002	2
115	MP3C	X	0	4
116	MP3C	Z	3.516	4
117	MP3C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-1.065	3.5
2	MP1A	Z	1.844	3.5
3	MP1A	Mx	-.000532	3.5
4	MP1C	X	-1.065	3.5
5	MP1C	Z	1.844	3.5
6	MP1C	Mx	-.000532	3.5
7	MP1A	X	-1.91	2
8	MP1A	Z	3.309	2
9	MP1A	Mx	.001	2
10	MP1B	X	-1.397	2





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
11	MP1B	Z	2.419	2
12	MP1B	Mx	-.002	2
13	MP1C	X	-1.91	2
14	MP1C	Z	3.309	2
15	MP1C	Mx	.001	2
16	MP1A	X	-.839	5
17	MP1A	Z	1.454	5
18	MP1A	Mx	-.000559	5
19	MP1B	X	-.457	5
20	MP1B	Z	.791	5
21	MP1B	Mx	.000609	5
22	MP1C	X	-.839	5
23	MP1C	Z	1.454	5
24	MP1C	Mx	-.00056	5
25	MP2A	X	-.923	2.38
26	MP2A	Z	1.599	2.38
27	MP2A	Mx	.000462	2.38
28	MP2A	X	-.923	3.63
29	MP2A	Z	1.599	3.63
30	MP2A	Mx	.000462	3.63
31	MP2B	X	-.571	2.38
32	MP2B	Z	.989	2.38
33	MP2B	Mx	-.000571	2.38
34	MP2B	X	-.571	3.63
35	MP2B	Z	.989	3.63
36	MP2B	Mx	-.000571	3.63
37	MP2C	X	-.923	2.38
38	MP2C	Z	1.599	2.38
39	MP2C	Mx	.000462	2.38
40	MP2C	X	-.923	3.63
41	MP2C	Z	1.599	3.63
42	MP2C	Mx	.000462	3.63
43	MP4A	X	-2.754	1.03
44	MP4A	Z	4.771	1.03
45	MP4A	Mx	.001	1.03
46	MP4A	X	-2.754	4.98
47	MP4A	Z	4.771	4.98
48	MP4A	Mx	.001	4.98
49	MP4B	X	-1.51	1.03
50	MP4B	Z	2.615	1.03
51	MP4B	Mx	-.002	1.03
52	MP4B	X	-1.51	4.98
53	MP4B	Z	2.615	4.98
54	MP4B	Mx	-.002	4.98
55	MP4C	X	-2.754	1.03
56	MP4C	Z	4.771	1.03
57	MP4C	Mx	.001	1.03
58	MP4C	X	-2.754	4.98
59	MP4C	Z	4.771	4.98
60	MP4C	Mx	.001	4.98
61	M100	X	-4.002	2
62	M100	Z	6.931	2
63	M100	Mx	.003	2
64	MP1A	X	-2.976	1
65	MP1A	Z	5.155	1
66	MP1A	Mx	-.002	1
67	MP1A	X	-2.976	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
68	MP1A	Z	5.155	5
69	MP1A	Mx	-.002	5
70	MP1B	X	-2.377	1
71	MP1B	Z	4.117	1
72	MP1B	Mx	-.003	1
73	MP1B	X	-2.377	5
74	MP1B	Z	4.117	5
75	MP1B	Mx	-.003	5
76	MP1C	X	-2.976	1
77	MP1C	Z	5.155	1
78	MP1C	Mx	.006	1
79	MP1C	X	-2.976	5
80	MP1C	Z	5.155	5
81	MP1C	Mx	.006	5
82	MP1A	X	-3.99	1
83	MP1A	Z	6.911	1
84	MP1A	Mx	.008	1
85	MP1A	X	-3.99	5
86	MP1A	Z	6.911	5
87	MP1A	Mx	.008	5
88	MP1B	X	-1.719	1
89	MP1B	Z	2.977	1
90	MP1B	Mx	-.002	1
91	MP1B	X	-1.719	5
92	MP1B	Z	2.977	5
93	MP1B	Mx	-.002	5
94	MP1C	X	-3.99	1
95	MP1C	Z	6.911	1
96	MP1C	Mx	-.003	1
97	MP1C	X	-3.99	5
98	MP1C	Z	6.911	5
99	MP1C	Mx	-.003	5
100	MP3A	X	-2.39	2
101	MP3A	Z	4.139	2
102	MP3A	Mx	.002	2
103	MP3A	X	-2.39	4
104	MP3A	Z	4.139	4
105	MP3A	Mx	.002	4
106	MP3B	X	-1.442	2
107	MP3B	Z	2.497	2
108	MP3B	Mx	-.002	2
109	MP3B	X	-1.442	4
110	MP3B	Z	2.497	4
111	MP3B	Mx	-.002	4
112	MP3C	X	-2.39	2
113	MP3C	Z	4.139	2
114	MP3C	Mx	.002	2
115	MP3C	X	-2.39	4
116	MP3C	Z	4.139	4
117	MP3C	Mx	.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-1.066	3.5
2	MP1A	Z	.616	3.5
3	MP1A	Mx	-.000533	3.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP1C	X	-2.233	3.5
5	MP1C	Z	1.289	3.5
6	MP1C	Mx	0	3.5
7	MP1A	X	-2.716	2
8	MP1A	Z	1.568	2
9	MP1A	Mx	.002	2
10	MP1B	X	-2.716	2
11	MP1B	Z	1.568	2
12	MP1B	Mx	-.002	2
13	MP1C	X	-3.605	2
14	MP1C	Z	2.081	2
15	MP1C	Mx	0	2
16	MP1A	X	-1.012	5
17	MP1A	Z	.584	5
18	MP1A	Mx	-.000675	5
19	MP1B	X	-1.012	5
20	MP1B	Z	.584	5
21	MP1B	Mx	.000675	5
22	MP1C	X	-1.675	5
23	MP1C	Z	.967	5
24	MP1C	Mx	0	5
25	MP2A	X	-1.192	2.38
26	MP2A	Z	.688	2.38
27	MP2A	Mx	.000596	2.38
28	MP2A	X	-1.192	3.63
29	MP2A	Z	.688	3.63
30	MP2A	Mx	.000596	3.63
31	MP2B	X	-1.192	2.38
32	MP2B	Z	.688	2.38
33	MP2B	Mx	-.000596	2.38
34	MP2B	X	-1.192	3.63
35	MP2B	Z	.688	3.63
36	MP2B	Mx	-.000596	3.63
37	MP2C	X	-1.803	2.38
38	MP2C	Z	1.041	2.38
39	MP2C	Mx	0	2.38
40	MP2C	X	-1.803	3.63
41	MP2C	Z	1.041	3.63
42	MP2C	Mx	0	3.63
43	MP4A	X	-3.333	1.03
44	MP4A	Z	1.924	1.03
45	MP4A	Mx	.002	1.03
46	MP4A	X	-3.333	4.98
47	MP4A	Z	1.924	4.98
48	MP4A	Mx	.002	4.98
49	MP4B	X	-3.333	1.03
50	MP4B	Z	1.924	1.03
51	MP4B	Mx	-.002	1.03
52	MP4B	X	-3.333	4.98
53	MP4B	Z	1.924	4.98
54	MP4B	Mx	-.002	4.98
55	MP4C	X	-5.489	1.03
56	MP4C	Z	3.169	1.03
57	MP4C	Mx	0	1.03
58	MP4C	X	-5.489	4.98
59	MP4C	Z	3.169	4.98
60	MP4C	Mx	0	4.98



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
61	M100	X	-6.048	2
62	M100	Z	3.492	2
63	M100	Mx	.004	2
64	MP1A	X	-4.463	1
65	MP1A	Z	2.577	1
66	MP1A	Mx	.001	1
67	MP1A	X	-4.463	5
68	MP1A	Z	2.577	5
69	MP1A	Mx	.001	5
70	MP1B	X	-4.463	1
71	MP1B	Z	2.577	1
72	MP1B	Mx	-.005	1
73	MP1B	X	-4.463	5
74	MP1B	Z	2.577	5
75	MP1B	Mx	-.005	5
76	MP1C	X	-5.501	1
77	MP1C	Z	3.176	1
78	MP1C	Mx	.005	1
79	MP1C	X	-5.501	5
80	MP1C	Z	3.176	5
81	MP1C	Mx	.005	5
82	MP1A	X	-4.288	1
83	MP1A	Z	2.476	1
84	MP1A	Mx	.005	1
85	MP1A	X	-4.288	5
86	MP1A	Z	2.476	5
87	MP1A	Mx	.005	5
88	MP1B	X	-4.288	1
89	MP1B	Z	2.476	1
90	MP1B	Mx	-.001	1
91	MP1B	X	-4.288	5
92	MP1B	Z	2.476	5
93	MP1B	Mx	-.001	5
94	MP1C	X	-8.222	1
95	MP1C	Z	4.747	1
96	MP1C	Mx	-.007	1
97	MP1C	X	-8.222	5
98	MP1C	Z	4.747	5
99	MP1C	Mx	-.007	5
100	MP3A	X	-3.045	2
101	MP3A	Z	1.758	2
102	MP3A	Mx	.002	2
103	MP3A	X	-3.045	4
104	MP3A	Z	1.758	4
105	MP3A	Mx	.002	4
106	MP3B	X	-3.045	2
107	MP3B	Z	1.758	2
108	MP3B	Mx	-.002	2
109	MP3B	X	-3.045	4
110	MP3B	Z	1.758	4
111	MP3B	Mx	-.002	4
112	MP3C	X	-4.687	2
113	MP3C	Z	2.706	2
114	MP3C	Mx	0	2
115	MP3C	X	-4.687	4
116	MP3C	Z	2.706	4
117	MP3C	Mx	0	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-0.782	3.5
2	MP1A	Z	0	3.5
3	MP1A	Mx	-0.000391	3.5
4	MP1C	X	-2.129	3.5
5	MP1C	Z	0	3.5
6	MP1C	Mx	0.000532	3.5
7	MP1A	X	-2.793	2
8	MP1A	Z	0	2
9	MP1A	Mx	0.002	2
10	MP1B	X	-3.821	2
11	MP1B	Z	0	2
12	MP1B	Mx	-0.001	2
13	MP1C	X	-3.821	2
14	MP1C	Z	0	2
15	MP1C	Mx	-0.001	2
16	MP1A	X	-0.913	5
17	MP1A	Z	0	5
18	MP1A	Mx	-0.000609	5
19	MP1B	X	-1.679	5
20	MP1B	Z	0	5
21	MP1B	Mx	0.00056	5
22	MP1C	X	-1.679	5
23	MP1C	Z	0	5
24	MP1C	Mx	0.00056	5
25	MP2A	X	-1.141	2.38
26	MP2A	Z	0	2.38
27	MP2A	Mx	0.00057	2.38
28	MP2A	X	-1.141	3.63
29	MP2A	Z	0	3.63
30	MP2A	Mx	0.00057	3.63
31	MP2B	X	-1.846	2.38
32	MP2B	Z	0	2.38
33	MP2B	Mx	-0.000462	2.38
34	MP2B	X	-1.846	3.63
35	MP2B	Z	0	3.63
36	MP2B	Mx	-0.000462	3.63
37	MP2C	X	-1.846	2.38
38	MP2C	Z	0	2.38
39	MP2C	Mx	-0.000462	2.38
40	MP2C	X	-1.846	3.63
41	MP2C	Z	0	3.63
42	MP2C	Mx	-0.000462	3.63
43	MP4A	X	-3.019	1.03
44	MP4A	Z	0	1.03
45	MP4A	Mx	0.002	1.03
46	MP4A	X	-3.019	4.98
47	MP4A	Z	0	4.98
48	MP4A	Mx	0.002	4.98
49	MP4B	X	-5.509	1.03
50	MP4B	Z	0	1.03
51	MP4B	Mx	-0.001	1.03
52	MP4B	X	-5.509	4.98
53	MP4B	Z	0	4.98
54	MP4B	Mx	-0.001	4.98
55	MP4C	X	-5.509	1.03
56	MP4C	Z	0	1.03
57	MP4C	Mx	-0.001	1.03



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
58	MP4C	X	-5.509	4.98
59	MP4C	Z	0	4.98
60	MP4C	Mx	-.001	4.98
61	M100	X	-6.473	2
62	M100	Z	0	2
63	M100	Mx	.004	2
64	MP1A	X	-4.754	1
65	MP1A	Z	0	1
66	MP1A	Mx	.003	1
67	MP1A	X	-4.754	5
68	MP1A	Z	0	5
69	MP1A	Mx	.003	5
70	MP1B	X	-5.952	1
71	MP1B	Z	0	1
72	MP1B	Mx	-.006	1
73	MP1B	X	-5.952	5
74	MP1B	Z	0	5
75	MP1B	Mx	-.006	5
76	MP1C	X	-5.952	1
77	MP1C	Z	0	1
78	MP1C	Mx	.002	1
79	MP1C	X	-5.952	5
80	MP1C	Z	0	5
81	MP1C	Mx	.002	5
82	MP1A	X	-3.438	1
83	MP1A	Z	0	1
84	MP1A	Mx	.002	1
85	MP1A	X	-3.438	5
86	MP1A	Z	0	5
87	MP1A	Mx	.002	5
88	MP1B	X	-7.98	1
89	MP1B	Z	0	1
90	MP1B	Mx	.003	1
91	MP1B	X	-7.98	5
92	MP1B	Z	0	5
93	MP1B	Mx	.003	5
94	MP1C	X	-7.98	1
95	MP1C	Z	0	1
96	MP1C	Mx	-.008	1
97	MP1C	X	-7.98	5
98	MP1C	Z	0	5
99	MP1C	Mx	-.008	5
100	MP3A	X	-2.884	2
101	MP3A	Z	0	2
102	MP3A	Mx	.002	2
103	MP3A	X	-2.884	4
104	MP3A	Z	0	4
105	MP3A	Mx	.002	4
106	MP3B	X	-4.78	2
107	MP3B	Z	0	2
108	MP3B	Mx	-.002	2
109	MP3B	X	-4.78	4
110	MP3B	Z	0	4
111	MP3B	Mx	-.002	4
112	MP3C	X	-4.78	2
113	MP3C	Z	0	2
114	MP3C	Mx	-.002	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
115	MP3C	X	-4.78	4
116	MP3C	Z	0	4
117	MP3C	Mx	-0.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	X	-1.066	3.5
2	MP1A	Z	-616	3.5
3	MP1A	Mx	-0.000533	3.5
4	MP1C	X	-1.066	3.5
5	MP1C	Z	-616	3.5
6	MP1C	Mx	0.000533	3.5
7	MP1A	X	-2.716	2
8	MP1A	Z	-1.568	2
9	MP1A	Mx	0.002	2
10	MP1B	X	-3.605	2
11	MP1B	Z	-2.081	2
12	MP1B	Mx	0	2
13	MP1C	X	-2.716	2
14	MP1C	Z	-1.568	2
15	MP1C	Mx	-0.002	2
16	MP1A	X	-1.012	5
17	MP1A	Z	-584	5
18	MP1A	Mx	-0.000675	5
19	MP1B	X	-1.675	5
20	MP1B	Z	-967	5
21	MP1B	Mx	0	5
22	MP1C	X	-1.012	5
23	MP1C	Z	-584	5
24	MP1C	Mx	0.000675	5
25	MP2A	X	-1.192	2.38
26	MP2A	Z	-688	2.38
27	MP2A	Mx	0.000596	2.38
28	MP2A	X	-1.192	3.63
29	MP2A	Z	-688	3.63
30	MP2A	Mx	0.000596	3.63
31	MP2B	X	-1.803	2.38
32	MP2B	Z	-1.041	2.38
33	MP2B	Mx	0	2.38
34	MP2B	X	-1.803	3.63
35	MP2B	Z	-1.041	3.63
36	MP2B	Mx	0	3.63
37	MP2C	X	-1.192	2.38
38	MP2C	Z	-688	2.38
39	MP2C	Mx	-0.000596	2.38
40	MP2C	X	-1.192	3.63
41	MP2C	Z	-688	3.63
42	MP2C	Mx	-0.000596	3.63
43	MP4A	X	-3.333	1.03
44	MP4A	Z	-1.924	1.03
45	MP4A	Mx	0.002	1.03
46	MP4A	X	-3.333	4.98
47	MP4A	Z	-1.924	4.98
48	MP4A	Mx	0.002	4.98
49	MP4B	X	-5.489	1.03
50	MP4B	Z	-3.169	1.03



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
51	MP4B	Mx	0	1.03
52	MP4B	X	-5.489	4.98
53	MP4B	Z	-3.169	4.98
54	MP4B	Mx	0	4.98
55	MP4C	X	-3.333	1.03
56	MP4C	Z	-1.924	1.03
57	MP4C	Mx	-.002	1.03
58	MP4C	X	-3.333	4.98
59	MP4C	Z	-1.924	4.98
60	MP4C	Mx	-.002	4.98
61	M100	X	-6.048	2
62	M100	Z	-3.492	2
63	M100	Mx	.004	2
64	MP1A	X	-4.463	1
65	MP1A	Z	-2.577	1
66	MP1A	Mx	.005	1
67	MP1A	X	-4.463	5
68	MP1A	Z	-2.577	5
69	MP1A	Mx	.005	5
70	MP1B	X	-5.501	1
71	MP1B	Z	-3.176	1
72	MP1B	Mx	-.005	1
73	MP1B	X	-5.501	5
74	MP1B	Z	-3.176	5
75	MP1B	Mx	-.005	5
76	MP1C	X	-4.463	1
77	MP1C	Z	-2.577	1
78	MP1C	Mx	-.001	1
79	MP1C	X	-4.463	5
80	MP1C	Z	-2.577	5
81	MP1C	Mx	-.001	5
82	MP1A	X	-4.288	1
83	MP1A	Z	-2.476	1
84	MP1A	Mx	.001	1
85	MP1A	X	-4.288	5
86	MP1A	Z	-2.476	5
87	MP1A	Mx	.001	5
88	MP1B	X	-8.222	1
89	MP1B	Z	-4.747	1
90	MP1B	Mx	.007	1
91	MP1B	X	-8.222	5
92	MP1B	Z	-4.747	5
93	MP1B	Mx	.007	5
94	MP1C	X	-4.288	1
95	MP1C	Z	-2.476	1
96	MP1C	Mx	-.005	1
97	MP1C	X	-4.288	5
98	MP1C	Z	-2.476	5
99	MP1C	Mx	-.005	5
100	MP3A	X	-3.045	2
101	MP3A	Z	-1.758	2
102	MP3A	Mx	.002	2
103	MP3A	X	-3.045	4
104	MP3A	Z	-1.758	4
105	MP3A	Mx	.002	4
106	MP3B	X	-4.687	2
107	MP3B	Z	-2.706	2





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
108	MP3B	Mx	0	2
109	MP3B	X	-4.687	4
110	MP3B	Z	-2.706	4
111	MP3B	Mx	0	4
112	MP3C	X	-3.045	2
113	MP3C	Z	-1.758	2
114	MP3C	Mx	-.002	2
115	MP3C	X	-3.045	4
116	MP3C	Z	-1.758	4
117	MP3C	Mx	-.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	-1.065	3.5
2	MP1A	Z	-1.844	3.5
3	MP1A	Mx	-.000532	3.5
4	MP1C	X	-.391	3.5
5	MP1C	Z	-.677	3.5
6	MP1C	Mx	.000391	3.5
7	MP1A	X	-1.91	2
8	MP1A	Z	-3.309	2
9	MP1A	Mx	.001	2
10	MP1B	X	-1.91	2
11	MP1B	Z	-3.309	2
12	MP1B	Mx	.001	2
13	MP1C	X	-1.397	2
14	MP1C	Z	-2.419	2
15	MP1C	Mx	-.002	2
16	MP1A	X	-.839	5
17	MP1A	Z	-1.454	5
18	MP1A	Mx	-.000559	5
19	MP1B	X	-.839	5
20	MP1B	Z	-1.454	5
21	MP1B	Mx	-.00056	5
22	MP1C	X	-.457	5
23	MP1C	Z	-.791	5
24	MP1C	Mx	.000609	5
25	MP2A	X	-.923	2.38
26	MP2A	Z	-1.599	2.38
27	MP2A	Mx	.000462	2.38
28	MP2A	X	-.923	3.63
29	MP2A	Z	-1.599	3.63
30	MP2A	Mx	.000462	3.63
31	MP2B	X	-.923	2.38
32	MP2B	Z	-1.599	2.38
33	MP2B	Mx	.000462	2.38
34	MP2B	X	-.923	3.63
35	MP2B	Z	-1.599	3.63
36	MP2B	Mx	.000462	3.63
37	MP2C	X	-.571	2.38
38	MP2C	Z	-.989	2.38
39	MP2C	Mx	-.000571	2.38
40	MP2C	X	-.571	3.63
41	MP2C	Z	-.989	3.63
42	MP2C	Mx	-.000571	3.63
43	MP4A	X	-2.754	1.03



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
44	MP4A	Z	-4.771	1.03
45	MP4A	Mx	.001	1.03
46	MP4A	X	-2.754	4.98
47	MP4A	Z	-4.771	4.98
48	MP4A	Mx	.001	4.98
49	MP4B	X	-2.754	1.03
50	MP4B	Z	-4.771	1.03
51	MP4B	Mx	.001	1.03
52	MP4B	X	-2.754	4.98
53	MP4B	Z	-4.771	4.98
54	MP4B	Mx	.001	4.98
55	MP4C	X	-1.51	1.03
56	MP4C	Z	-2.615	1.03
57	MP4C	Mx	-.002	1.03
58	MP4C	X	-1.51	4.98
59	MP4C	Z	-2.615	4.98
60	MP4C	Mx	-.002	4.98
61	M100	X	-4.002	2
62	M100	Z	-6.931	2
63	M100	Mx	.003	2
64	MP1A	X	-2.976	1
65	MP1A	Z	-5.155	1
66	MP1A	Mx	.006	1
67	MP1A	X	-2.976	5
68	MP1A	Z	-5.155	5
69	MP1A	Mx	.006	5
70	MP1B	X	-2.976	1
71	MP1B	Z	-5.155	1
72	MP1B	Mx	-.002	1
73	MP1B	X	-2.976	5
74	MP1B	Z	-5.155	5
75	MP1B	Mx	-.002	5
76	MP1C	X	-2.377	1
77	MP1C	Z	-4.117	1
78	MP1C	Mx	-.003	1
79	MP1C	X	-2.377	5
80	MP1C	Z	-4.117	5
81	MP1C	Mx	-.003	5
82	MP1A	X	-3.99	1
83	MP1A	Z	-6.911	1
84	MP1A	Mx	-.003	1
85	MP1A	X	-3.99	5
86	MP1A	Z	-6.911	5
87	MP1A	Mx	-.003	5
88	MP1B	X	-3.99	1
89	MP1B	Z	-6.911	1
90	MP1B	Mx	.008	1
91	MP1B	X	-3.99	5
92	MP1B	Z	-6.911	5
93	MP1B	Mx	.008	5
94	MP1C	X	-1.719	1
95	MP1C	Z	-2.977	1
96	MP1C	Mx	-.002	1
97	MP1C	X	-1.719	5
98	MP1C	Z	-2.977	5
99	MP1C	Mx	-.002	5
100	MP3A	X	-2.39	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
101	MP3A	Z	-4.139	2
102	MP3A	Mx	.002	2
103	MP3A	X	-2.39	4
104	MP3A	Z	-4.139	4
105	MP3A	Mx	.002	4
106	MP3B	X	-2.39	2
107	MP3B	Z	-4.139	2
108	MP3B	Mx	.002	2
109	MP3B	X	-2.39	4
110	MP3B	Z	-4.139	4
111	MP3B	Mx	.002	4
112	MP3C	X	-1.442	2
113	MP3C	Z	-2.497	2
114	MP3C	Mx	-.002	2
115	MP3C	X	-1.442	4
116	MP3C	Z	-2.497	4
117	MP3C	Mx	-.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M1	Y	-500	%3

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

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M1	Y	-250	%100

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

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

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	Y	-.717	3.5
2	MP1A	My	.000359	3.5
3	MP1A	Mz	0	3.5
4	MP1C	Y	-.717	3.5
5	MP1C	Mv	-.000179	3.5
6	MP1C	Mz	-.000311	3.5
7	MP1A	Y	-3.439	2
8	MP1A	My	-.002	2
9	MP1A	Mz	0	2
10	MP1B	Y	-3.439	2
11	MP1B	Mv	.001	2
12	MP1B	Mz	-.002	2
13	MP1C	Y	-3.439	2
14	MP1C	My	.001	2
15	MP1C	Mz	.002	2
16	MP1A	Y	-.762	5
17	MP1A	Mv	.000508	5
18	MP1A	Mz	0	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
19	MP1B	Y	- .762	5
20	MP1B	My	- .000254	5
21	MP1B	Mz	.00044	5
22	MP1C	Y	- .762	5
23	MP1C	My	- .000254	5
24	MP1C	Mz	- .00044	5
25	MP2A	Y	- 1.432	2.38
26	MP2A	My	- .000716	2.38
27	MP2A	Mz	0	2.38
28	MP2A	Y	- 1.432	3.63
29	MP2A	My	- .000716	3.63
30	MP2A	Mz	0	3.63
31	MP2B	Y	- 1.432	2.38
32	MP2B	My	.000358	2.38
33	MP2B	Mz	- .00062	2.38
34	MP2B	Y	- 1.432	3.63
35	MP2B	My	.000358	3.63
36	MP2B	Mz	- .00062	3.63
37	MP2C	Y	- 1.432	2.38
38	MP2C	My	.000358	2.38
39	MP2C	Mz	.00062	2.38
40	MP2C	Y	- 1.432	3.63
41	MP2C	My	.000358	3.63
42	MP2C	Mz	.00062	3.63
43	MP4A	Y	- .202	1.03
44	MP4A	My	- .000101	1.03
45	MP4A	Mz	0	1.03
46	MP4A	Y	- .202	4.98
47	MP4A	My	- .000101	4.98
48	MP4A	Mz	0	4.98
49	MP4B	Y	- .202	1.03
50	MP4B	My	5e-5	1.03
51	MP4B	Mz	- 8.7e-5	1.03
52	MP4B	Y	- .202	4.98
53	MP4B	My	5e-5	4.98
54	MP4B	Mz	- 8.7e-5	4.98
55	MP4C	Y	- .202	1.03
56	MP4C	My	5e-5	1.03
57	MP4C	Mz	8.7e-5	1.03
58	MP4C	Y	- .202	4.98
59	MP4C	My	5e-5	4.98
60	MP4C	Mz	8.7e-5	4.98
61	M100	Y	- 1.304	2
62	M100	My	- .000869	2
63	M100	Mz	0	2
64	MP1A	Y	- .937	1
65	MP1A	My	- .000625	1
66	MP1A	Mz	- .000703	1
67	MP1A	Y	- .937	5
68	MP1A	My	- .000625	5
69	MP1A	Mz	- .000703	5
70	MP1B	Y	- .937	1
71	MP1B	My	.000921	1
72	MP1B	Mz	- .00019	1
73	MP1B	Y	- .937	5
74	MP1B	My	.000921	5
75	MP1B	Mz	- .00019	5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
76	MP1C	Y	-.937	1
77	MP1C	My	-.000296	1
78	MP1C	Mz	.000893	1
79	MP1C	Y	-.937	5
80	MP1C	My	-.000296	5
81	MP1C	Mz	.000893	5
82	MP1A	Y	-1.581	1
83	MP1A	My	-.001	1
84	MP1A	Mz	.001	1
85	MP1A	Y	-1.581	5
86	MP1A	My	-.001	5
87	MP1A	Mz	.001	5
88	MP1B	Y	-1.581	1
89	MP1B	My	-.0005	1
90	MP1B	Mz	-.002	1
91	MP1B	Y	-1.581	5
92	MP1B	My	-.0005	5
93	MP1B	Mz	-.002	5
94	MP1C	Y	-1.581	1
95	MP1C	My	.002	1
96	MP1C	Mz	.00032	1
97	MP1C	Y	-1.581	5
98	MP1C	My	.002	5
99	MP1C	Mz	.00032	5
100	MP3A	Y	-1.662	2
101	MP3A	My	-.001	2
102	MP3A	Mz	0	2
103	MP3A	Y	-1.662	4
104	MP3A	My	-.001	4
105	MP3A	Mz	0	4
106	MP3B	Y	-1.662	2
107	MP3B	My	.000554	2
108	MP3B	Mz	-.00096	2
109	MP3B	Y	-1.662	4
110	MP3B	My	.000554	4
111	MP3B	Mz	-.00096	4
112	MP3C	Y	-1.662	2
113	MP3C	My	.000554	2
114	MP3C	Mz	.00096	2
115	MP3C	Y	-1.662	4
116	MP3C	My	.000554	4
117	MP3C	Mz	.00096	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP1A	Z	-1.793	3.5
2	MP1A	Mx	0	3.5
3	MP1C	Z	-1.793	3.5
4	MP1C	Mx	.000776	3.5
5	MP1A	Z	-8.598	2
6	MP1A	Mx	0	2
7	MP1B	Z	-8.598	2
8	MP1B	Mx	.005	2
9	MP1C	Z	-8.598	2
10	MP1C	Mx	-.005	2
11	MP1A	Z	-1.905	5



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

	Member Label	Direction	Magnitude(lb.k-ft)	Location(ft.%)
12	MP1A	Mx	0	5
13	MP1B	Z	-1.905	5
14	MP1B	Mx	-.001	5
15	MP1C	Z	-1.905	5
16	MP1C	Mx	.001	5
17	MP2A	Z	-3.581	2.38
18	MP2A	Mx	0	2.38
19	MP2A	Z	-3.581	3.63
20	MP2A	Mx	0	3.63
21	MP2B	Z	-3.581	2.38
22	MP2B	Mx	.002	2.38
23	MP2B	Z	-3.581	3.63
24	MP2B	Mx	.002	3.63
25	MP2C	Z	-3.581	2.38
26	MP2C	Mx	-.002	2.38
27	MP2C	Z	-3.581	3.63
28	MP2C	Mx	-.002	3.63
29	MP4A	Z	-.504	1.03
30	MP4A	Mx	0	1.03
31	MP4A	Z	-.504	4.98
32	MP4A	Mx	0	4.98
33	MP4B	Z	-.504	1.03
34	MP4B	Mx	.000218	1.03
35	MP4B	Z	-.504	4.98
36	MP4B	Mx	.000218	4.98
37	MP4C	Z	-.504	1.03
38	MP4C	Mx	-.000218	1.03
39	MP4C	Z	-.504	4.98
40	MP4C	Mx	-.000218	4.98
41	M100	Z	-3.26	2
42	M100	Mx	0	2
43	MP1A	Z	-2.343	1
44	MP1A	Mx	.002	1
45	MP1A	Z	-2.343	5
46	MP1A	Mx	.002	5
47	MP1B	Z	-2.343	1
48	MP1B	Mx	.000474	1
49	MP1B	Z	-2.343	5
50	MP1B	Mx	.000474	5
51	MP1C	Z	-2.343	1
52	MP1C	Mx	-.002	1
53	MP1C	Z	-2.343	5
54	MP1C	Mx	-.002	5
55	MP1A	Z	-3.952	1
56	MP1A	Mx	-.003	1
57	MP1A	Z	-3.952	5
58	MP1A	Mx	-.003	5
59	MP1B	Z	-3.952	1
60	MP1B	Mx	.004	1
61	MP1B	Z	-3.952	5
62	MP1B	Mx	.004	5
63	MP1C	Z	-3.952	1
64	MP1C	Mx	-.0008	1
65	MP1C	Z	-3.952	5
66	MP1C	Mx	-.0008	5
67	MP3A	Z	-4.156	2
68	MP3A	Mx	0	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
69	MP3A	Z	-4.156	4
70	MP3A	Mx	0	4
71	MP3B	Z	-4.156	2
72	MP3B	Mx	.002	2
73	MP3B	Z	-4.156	4
74	MP3B	Mx	.002	4
75	MP3C	Z	-4.156	2
76	MP3C	Mx	-.002	2
77	MP3C	Z	-4.156	4
78	MP3C	Mx	-.002	4

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP1A	X	1.793	3.5
2	MP1A	Mx	.000896	3.5
3	MP1C	X	1.793	3.5
4	MP1C	Mx	-.000448	3.5
5	MP1A	X	8.598	2
6	MP1A	Mx	-.006	2
7	MP1B	X	8.598	2
8	MP1B	Mx	.003	2
9	MP1C	X	8.598	2
10	MP1C	Mx	.003	2
11	MP1A	X	1.905	5
12	MP1A	Mx	.001	5
13	MP1B	X	1.905	5
14	MP1B	Mx	-.000635	5
15	MP1C	X	1.905	5
16	MP1C	Mx	-.000635	5
17	MP2A	X	3.581	2.38
18	MP2A	Mx	-.002	2.38
19	MP2A	X	3.581	3.63
20	MP2A	Mx	-.002	3.63
21	MP2B	X	3.581	2.38
22	MP2B	Mx	.000895	2.38
23	MP2B	X	3.581	3.63
24	MP2B	Mx	.000895	3.63
25	MP2C	X	3.581	2.38
26	MP2C	Mx	.000895	2.38
27	MP2C	X	3.581	3.63
28	MP2C	Mx	.000895	3.63
29	MP4A	X	.504	1.03
30	MP4A	Mx	-.000252	1.03
31	MP4A	X	.504	4.98
32	MP4A	Mx	-.000252	4.98
33	MP4B	X	.504	1.03
34	MP4B	Mx	.000126	1.03
35	MP4B	X	.504	4.98
36	MP4B	Mx	.000126	4.98
37	MP4C	X	.504	1.03
38	MP4C	Mx	.000126	1.03
39	MP4C	X	.504	4.98
40	MP4C	Mx	.000126	4.98
41	M100	X	3.26	2
42	M100	Mx	-.002	2
43	MP1A	X	2.343	1



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
44	MP1A	Mx	-0.02	1
45	MP1A	X	2.343	5
46	MP1A	Mx	-0.02	5
47	MP1B	X	2.343	1
48	MP1B	Mx	.002	1
49	MP1B	X	2.343	5
50	MP1B	Mx	.002	5
51	MP1C	X	2.343	1
52	MP1C	Mx	-0.00741	1
53	MP1C	X	2.343	5
54	MP1C	Mx	-0.00741	5
55	MP1A	X	3.952	1
56	MP1A	Mx	-0.03	1
57	MP1A	X	3.952	5
58	MP1A	Mx	-0.03	5
59	MP1B	X	3.952	1
60	MP1B	Mx	-0.01	1
61	MP1B	X	3.952	5
62	MP1B	Mx	-.001	5
63	MP1C	X	3.952	1
64	MP1C	Mx	.004	1
65	MP1C	X	3.952	5
66	MP1C	Mx	.004	5
67	MP3A	X	4.156	2
68	MP3A	Mx	-.003	2
69	MP3A	X	4.156	4
70	MP3A	Mx	-.003	4
71	MP3B	X	4.156	2
72	MP3B	Mx	.001	2
73	MP3B	X	4.156	4
74	MP3B	Mx	.001	4
75	MP3C	X	4.156	2
76	MP3C	Mx	.001	2
77	MP3C	X	4.156	4
78	MP3C	Mx	.001	4

**Joint Loads and Enforced Displacements**

Joint Label	L,D,M	Direction	Magnitude[(lb.k-ft), (in.rad), (lb*s^2/ft, lb*s^2*ft)]
No Data to Print ...			

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
1	M1	Y	-6.607	-6.607	0	%100
2	M4	Y	-9.664	-9.664	0	%100
3	M10	Y	-5.655	-5.655	0	%100
4	MP3A	Y	-5.012	-5.012	0	%100
5	MP4A	Y	-5.012	-5.012	0	%100
6	MP2A	Y	-5.012	-5.012	0	%100
7	MP1A	Y	-5.012	-5.012	0	%100
8	M43	Y	-5.655	-5.655	0	%100
9	M46	Y	-10.18	-10.18	0	%100
10	M51B	Y	-5.655	-5.655	0	%100
11	M52B	Y	-5.655	-5.655	0	%100
12	M76	Y	-10.167	-10.167	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
13	M84	Y	-10.167	-10.167	0	%100
14	M52A	Y	-9.664	-9.664	0	%100
15	M53	Y	-5.655	-5.655	0	%100
16	M54	Y	-5.655	-5.655	0	%100
17	M55	Y	-10.18	-10.18	0	%100
18	M58A	Y	-5.655	-5.655	0	%100
19	M59A	Y	-5.655	-5.655	0	%100
20	M63	Y	-10.167	-10.167	0	%100
21	M68	Y	-10.167	-10.167	0	%100
22	M69	Y	-10.167	-10.167	0	%100
23	M71	Y	-10.18	-10.18	0	%100
24	M76A	Y	-9.664	-9.664	0	%100
25	M77A	Y	-5.655	-5.655	0	%100
26	M78	Y	-5.655	-5.655	0	%100
27	M79A	Y	-10.18	-10.18	0	%100
28	M82	Y	-5.655	-5.655	0	%100
29	M83A	Y	-5.655	-5.655	0	%100
30	M87	Y	-10.167	-10.167	0	%100
31	M88A	Y	-10.167	-10.167	0	%100
32	M90	Y	-10.18	-10.18	0	%100
33	M92A	Y	-10.167	-10.167	0	%100
34	M82A	Y	-6.607	-6.607	0	%100
35	MP3C	Y	-5.012	-5.012	0	%100
36	MP4C	Y	-5.012	-5.012	0	%100
37	MP2C	Y	-5.012	-5.012	0	%100
38	MP1C	Y	-5.012	-5.012	0	%100
39	M91B	Y	-6.607	-6.607	0	%100
40	MP3B	Y	-5.012	-5.012	0	%100
41	MP4B	Y	-5.012	-5.012	0	%100
42	MP2B	Y	-5.012	-5.012	0	%100
43	MP1B	Y	-5.012	-5.012	0	%100
44	M92C	Y	-10.167	-10.167	0	%100
45	M94	Y	-10.167	-10.167	0	%100
46	M96A	Y	-10.167	-10.167	0	%100
47	M98A	Y	-10.167	-10.167	0	%100
48	M100	Y	-5.012	-5.012	0	%100
49	M93B	Y	-10.18	-10.18	0	%100
50	M95	Y	-10.18	-10.18	0	%100
51	M97B	Y	-10.18	-10.18	0	%100
52	M99B	Y	-10.18	-10.18	0	%100
53	M102	Y	-5.721	-5.721	0	%100
54	M107	Y	-5.721	-5.721	0	%100
55	M112	Y	-5.721	-5.721	0	%100
56	M123	Y	-6.657	-6.657	0	%100
57	M124	Y	-6.657	-6.657	0	%100
58	M125	Y	-6.657	-6.657	0	%100
59	M126	Y	-11.214	-11.214	0	%100
60	M127	Y	-11.214	-11.214	0	%100
61	M128	Y	-11.214	-11.214	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
1	M1	X	0	0	0	%100
2	M1	Z	-15.549	-15.549	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	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 Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
5	M10	X	0	0	0	%100
6	M10	Z	-13.799	-13.799	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-11.978	-11.978	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-11.978	-11.978	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-11.978	-11.978	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-11.978	-11.978	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-13.799	-13.799	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-30.26	-30.26	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-4.201	-4.201	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-4.201	-4.201	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	0	0	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	-13.447	-13.447	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	-3.45	-3.45	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	-3.45	-3.45	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	-7.565	-7.565	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	-4.201	-4.201	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	-16.803	-16.803	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	-22.695	-22.695	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	-22.695	-22.695	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	-30.26	-30.26	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	-30.26	-30.26	0	%100
47	M76A	X	0	0	0	%100
48	M76A	Z	-13.447	-13.447	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	-3.45	-3.45	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	-3.45	-3.45	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	-7.565	-7.565	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	-16.803	-16.803	0	%100
57	M83A	X	0	0	0	%100
58	M83A	Z	-4.201	-4.201	0	%100
59	M87	X	0	0	0	%100
60	M87	Z	-22.695	-22.695	0	%100
61	M88A	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.ksfl	End Magnitude lb./ft.F.ksfl	Start Locationff.	End Locationff.
62	M88A	Z	-30.26	-30.26	0 %100
63	M90	X	0	0	0 %100
64	M90	Z	-30.26	-30.26	0 %100
65	M92A	X	0	0	0 %100
66	M92A	Z	-22.695	-22.695	0 %100
67	M82A	X	0	0	0 %100
68	M82A	Z	-3.887	-3.887	0 %100
69	MP3C	X	0	0	0 %100
70	MP3C	Z	-11.978	-11.978	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	-11.978	-11.978	0 %100
73	MP2C	X	0	0	0 %100
74	MP2C	Z	-11.978	-11.978	0 %100
75	MP1C	X	0	0	0 %100
76	MP1C	Z	-11.978	-11.978	0 %100
77	M91B	X	0	0	0 %100
78	M91B	Z	-3.887	-3.887	0 %100
79	MP3B	X	0	0	0 %100
80	MP3B	Z	-11.978	-11.978	0 %100
81	MP4B	X	0	0	0 %100
82	MP4B	Z	-11.978	-11.978	0 %100
83	MP2B	X	0	0	0 %100
84	MP2B	Z	-11.978	-11.978	0 %100
85	MP1B	X	0	0	0 %100
86	MP1B	Z	-11.978	-11.978	0 %100
87	M92C	X	0	0	0 %100
88	M92C	Z	-7.565	-7.565	0 %100
89	M94	X	0	0	0 %100
90	M94	Z	-7.565	-7.565	0 %100
91	M96A	X	0	0	0 %100
92	M96A	Z	-7.565	-7.565	0 %100
93	M98A	X	0	0	0 %100
94	M98A	Z	-7.565	-7.565	0 %100
95	M100	X	0	0	0 %100
96	M100	Z	-10.916	-10.916	0 %100
97	M93B	X	0	0	0 %100
98	M93B	Z	-7.565	-7.565	0 %100
99	M95	X	0	0	0 %100
100	M95	Z	-7.565	-7.565	0 %100
101	M97B	X	0	0	0 %100
102	M97B	Z	-7.565	-7.565	0 %100
103	M99B	X	0	0	0 %100
104	M99B	Z	-7.565	-7.565	0 %100
105	M102	X	0	0	0 %100
106	M102	Z	-14.5	-14.5	0 %100
107	M107	X	0	0	0 %100
108	M107	Z	-3.625	-3.625	0 %100
109	M112	X	0	0	0 %100
110	M112	Z	-3.625	-3.625	0 %100
111	M123	X	0	0	0 %100
112	M123	Z	-3.721	-3.721	0 %100
113	M124	X	0	0	0 %100
114	M124	Z	-14.883	-14.883	0 %100
115	M125	X	0	0	0 %100
116	M125	Z	-3.721	-3.721	0 %100
117	M126	X	0	0	0 %100
118	M126	Z	-23.396	-23.396	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 Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
119	M127	X	0	0	0	%100
120	M127	Z	-21.805	-21.805	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	-21.805	-21.805	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
1	M1	X	5.831	5.831	0	%100
2	M1	Z	-10.099	-10.099	0	%100
3	M4	X	2.241	2.241	0	%100
4	M4	Z	-3.882	-3.882	0	%100
5	M10	X	5.175	5.175	0	%100
6	M10	Z	-8.963	-8.963	0	%100
7	MP3A	X	5.989	5.989	0	%100
8	MP3A	Z	-10.373	-10.373	0	%100
9	MP4A	X	5.989	5.989	0	%100
10	MP4A	Z	-10.373	-10.373	0	%100
11	MP2A	X	5.989	5.989	0	%100
12	MP2A	Z	-10.373	-10.373	0	%100
13	MP1A	X	5.989	5.989	0	%100
14	MP1A	Z	-10.373	-10.373	0	%100
15	M43	X	5.175	5.175	0	%100
16	M43	Z	-8.963	-8.963	0	%100
17	M46	X	11.347	11.347	0	%100
18	M46	Z	-19.654	-19.654	0	%100
19	M51B	X	6.301	6.301	0	%100
20	M51B	Z	-10.914	-10.914	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	3.782	3.782	0	%100
24	M76	Z	-6.551	-6.551	0	%100
25	M84	X	3.782	3.782	0	%100
26	M84	Z	-6.551	-6.551	0	%100
27	M52A	X	2.241	2.241	0	%100
28	M52A	Z	-3.882	-3.882	0	%100
29	M53	X	5.175	5.175	0	%100
30	M53	Z	-8.963	-8.963	0	%100
31	M54	X	5.175	5.175	0	%100
32	M54	Z	-8.963	-8.963	0	%100
33	M55	X	11.347	11.347	0	%100
34	M55	Z	-19.654	-19.654	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	6.301	6.301	0	%100
38	M59A	Z	-10.914	-10.914	0	%100
39	M63	X	3.782	3.782	0	%100
40	M63	Z	-6.551	-6.551	0	%100
41	M68	X	3.782	3.782	0	%100
42	M68	Z	-6.551	-6.551	0	%100
43	M69	X	11.347	11.347	0	%100
44	M69	Z	-19.654	-19.654	0	%100
45	M71	X	11.347	11.347	0	%100
46	M71	Z	-19.654	-19.654	0	%100
47	M76A	X	8.964	8.964	0	%100
48	M76A	Z	-15.527	-15.527	0	%100
49	M77A	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.]	End Location[ft.]
50	M77A	Z	0	0	%100
51	M78	X	0	0	%100
52	M78	Z	0	0	%100
53	M79A	X	0	0	%100
54	M79A	Z	0	0	%100
55	M82	X	6.301	6.301	%100
56	M82	Z	-10.914	-10.914	%100
57	M83A	X	6.301	6.301	%100
58	M83A	Z	-10.914	-10.914	%100
59	M87	X	15.13	15.13	%100
60	M87	Z	-26.206	-26.206	%100
61	M88A	X	11.347	11.347	%100
62	M88A	Z	-19.654	-19.654	%100
63	M90	X	11.347	11.347	%100
64	M90	Z	-19.654	-19.654	%100
65	M92A	X	15.13	15.13	%100
66	M92A	Z	-26.206	-26.206	%100
67	M82A	X	5.831	5.831	%100
68	M82A	Z	-10.099	-10.099	%100
69	MP3C	X	5.989	5.989	%100
70	MP3C	Z	-10.373	-10.373	%100
71	MP4C	X	5.989	5.989	%100
72	MP4C	Z	-10.373	-10.373	%100
73	MP2C	X	5.989	5.989	%100
74	MP2C	Z	-10.373	-10.373	%100
75	MP1C	X	5.989	5.989	%100
76	MP1C	Z	-10.373	-10.373	%100
77	M91B	X	0	0	%100
78	M91B	Z	0	0	%100
79	MP3B	X	5.989	5.989	%100
80	MP3B	Z	-10.373	-10.373	%100
81	MP4B	X	5.989	5.989	%100
82	MP4B	Z	-10.373	-10.373	%100
83	MP2B	X	5.989	5.989	%100
84	MP2B	Z	-10.373	-10.373	%100
85	MP1B	X	5.989	5.989	%100
86	MP1B	Z	-10.373	-10.373	%100
87	M92C	X	11.347	11.347	%100
88	M92C	Z	-19.654	-19.654	%100
89	M94	X	11.347	11.347	%100
90	M94	Z	-19.654	-19.654	%100
91	M96A	X	0	0	%100
92	M96A	Z	0	0	%100
93	M98A	X	0	0	%100
94	M98A	Z	0	0	%100
95	M100	X	5.458	5.458	%100
96	M100	Z	-9.453	-9.453	%100
97	M93B	X	11.347	11.347	%100
98	M93B	Z	-19.654	-19.654	%100
99	M95	X	11.347	11.347	%100
100	M95	Z	-19.654	-19.654	%100
101	M97B	X	0	0	%100
102	M97B	Z	0	0	%100
103	M99B	X	0	0	%100
104	M99B	Z	0	0	%100
105	M102	X	5.437	5.437	%100
106	M102	Z	-9.418	-9.418	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f...]	End Location[ft...]
107	M107	X	5.437	5.437	0	%100
108	M107	Z	-9.418	-9.418	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	5.581	5.581	0	%100
112	M123	Z	-9.667	-9.667	0	%100
113	M124	X	5.581	5.581	0	%100
114	M124	Z	-9.667	-9.667	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	11.433	11.433	0	%100
118	M126	Z	-19.802	-19.802	0	%100
119	M127	X	11.433	11.433	0	%100
120	M127	Z	-19.802	-19.802	0	%100
121	M128	X	10.637	10.637	0	%100
122	M128	Z	-18.424	-18.424	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f...]	End Location[ft...]
1	M1	X	3.366	3.366	0	%100
2	M1	Z	-1.944	-1.944	0	%100
3	M4	X	11.645	11.645	0	%100
4	M4	Z	-6.723	-6.723	0	%100
5	M10	X	2.988	2.988	0	%100
6	M10	Z	-1.725	-1.725	0	%100
7	MP3A	X	10.373	10.373	0	%100
8	MP3A	Z	-5.989	-5.989	0	%100
9	MP4A	X	10.373	10.373	0	%100
10	MP4A	Z	-5.989	-5.989	0	%100
11	MP2A	X	10.373	10.373	0	%100
12	MP2A	Z	-5.989	-5.989	0	%100
13	MP1A	X	10.373	10.373	0	%100
14	MP1A	Z	-5.989	-5.989	0	%100
15	M43	X	2.988	2.988	0	%100
16	M43	Z	-1.725	-1.725	0	%100
17	M46	X	6.551	6.551	0	%100
18	M46	Z	-3.782	-3.782	0	%100
19	M51B	X	14.552	14.552	0	%100
20	M51B	Z	-8.401	-8.401	0	%100
21	M52B	X	3.638	3.638	0	%100
22	M52B	Z	-2.1	-2.1	0	%100
23	M76	X	19.654	19.654	0	%100
24	M76	Z	-11.347	-11.347	0	%100
25	M84	X	19.654	19.654	0	%100
26	M84	Z	-11.347	-11.347	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	11.95	11.95	0	%100
30	M53	Z	-6.9	-6.9	0	%100
31	M54	X	11.95	11.95	0	%100
32	M54	Z	-6.9	-6.9	0	%100
33	M55	X	26.206	26.206	0	%100
34	M55	Z	-15.13	-15.13	0	%100
35	M58A	X	3.638	3.638	0	%100
36	M58A	Z	-2.1	-2.1	0	%100
37	M59A	X	3.638	3.638	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
38	M59A	Z	-2.1	-2.1	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	6.551	6.551	0	%100
44	M69	Z	-3.782	-3.782	0	%100
45	M71	X	6.551	6.551	0	%100
46	M71	Z	-3.782	-3.782	0	%100
47	M76A	X	11.645	11.645	0	%100
48	M76A	Z	-6.723	-6.723	0	%100
49	M77A	X	2.988	2.988	0	%100
50	M77A	Z	-1.725	-1.725	0	%100
51	M78	X	2.988	2.988	0	%100
52	M78	Z	-1.725	-1.725	0	%100
53	M79A	X	6.551	6.551	0	%100
54	M79A	Z	-3.782	-3.782	0	%100
55	M82	X	3.638	3.638	0	%100
56	M82	Z	-2.1	-2.1	0	%100
57	M83A	X	14.552	14.552	0	%100
58	M83A	Z	-8.401	-8.401	0	%100
59	M87	X	19.654	19.654	0	%100
60	M87	Z	-11.347	-11.347	0	%100
61	M88A	X	6.551	6.551	0	%100
62	M88A	Z	-3.782	-3.782	0	%100
63	M90	X	6.551	6.551	0	%100
64	M90	Z	-3.782	-3.782	0	%100
65	M92A	X	19.654	19.654	0	%100
66	M92A	Z	-11.347	-11.347	0	%100
67	M82A	X	13.466	13.466	0	%100
68	M82A	Z	-7.775	-7.775	0	%100
69	MP3C	X	10.373	10.373	0	%100
70	MP3C	Z	-5.989	-5.989	0	%100
71	MP4C	X	10.373	10.373	0	%100
72	MP4C	Z	-5.989	-5.989	0	%100
73	MP2C	X	10.373	10.373	0	%100
74	MP2C	Z	-5.989	-5.989	0	%100
75	MP1C	X	10.373	10.373	0	%100
76	MP1C	Z	-5.989	-5.989	0	%100
77	M91B	X	3.366	3.366	0	%100
78	M91B	Z	-1.944	-1.944	0	%100
79	MP3B	X	10.373	10.373	0	%100
80	MP3B	Z	-5.989	-5.989	0	%100
81	MP4B	X	10.373	10.373	0	%100
82	MP4B	Z	-5.989	-5.989	0	%100
83	MP2B	X	10.373	10.373	0	%100
84	MP2B	Z	-5.989	-5.989	0	%100
85	MP1B	X	10.373	10.373	0	%100
86	MP1B	Z	-5.989	-5.989	0	%100
87	M92C	X	26.206	26.206	0	%100
88	M92C	Z	-15.13	-15.13	0	%100
89	M94	X	26.206	26.206	0	%100
90	M94	Z	-15.13	-15.13	0	%100
91	M96A	X	6.551	6.551	0	%100
92	M96A	Z	-3.782	-3.782	0	%100
93	M98A	X	6.551	6.551	0	%100
94	M98A	Z	-3.782	-3.782	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft...
95	M100	X	9.453	9.453	0	%100
96	M100	Z	-5.458	-5.458	0	%100
97	M93B	X	26.206	26.206	0	%100
98	M93B	Z	-15.13	-15.13	0	%100
99	M95	X	26.206	26.206	0	%100
100	M95	Z	-15.13	-15.13	0	%100
101	M97B	X	6.551	6.551	0	%100
102	M97B	Z	-3.782	-3.782	0	%100
103	M99B	X	6.551	6.551	0	%100
104	M99B	Z	-3.782	-3.782	0	%100
105	M102	X	3.139	3.139	0	%100
106	M102	Z	-1.812	-1.812	0	%100
107	M107	X	12.557	12.557	0	%100
108	M107	Z	-7.25	-7.25	0	%100
109	M112	X	3.139	3.139	0	%100
110	M112	Z	-1.812	-1.812	0	%100
111	M123	X	12.889	12.889	0	%100
112	M123	Z	-7.441	-7.441	0	%100
113	M124	X	3.222	3.222	0	%100
114	M124	Z	-1.86	-1.86	0	%100
115	M125	X	3.222	3.222	0	%100
116	M125	Z	-1.86	-1.86	0	%100
117	M126	X	18.884	18.884	0	%100
118	M126	Z	-10.903	-10.903	0	%100
119	M127	X	20.262	20.262	0	%100
120	M127	Z	-11.698	-11.698	0	%100
121	M128	X	18.884	18.884	0	%100
122	M128	Z	-10.903	-10.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft...
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	17.929	17.929	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	11.978	11.978	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	11.978	11.978	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	11.978	11.978	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	11.978	11.978	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	12.602	12.602	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	12.602	12.602	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	30.26	30.26	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	30.26	30.26	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Locationff.	End Locationff.
26	M84	Z	0	0	0	%100
27	M52A	X	4.482	4.482	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	10.349	10.349	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	10.349	10.349	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	22.695	22.695	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	12.602	12.602	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	7.565	7.565	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	7.565	7.565	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	0	0	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	0	0	0	%100
47	M76A	X	4.482	4.482	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	10.349	10.349	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	10.349	10.349	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	22.695	22.695	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	0	0	0	%100
57	M83A	X	12.602	12.602	0	%100
58	M83A	Z	0	0	0	%100
59	M87	X	7.565	7.565	0	%100
60	M87	Z	0	0	0	%100
61	M88A	X	0	0	0	%100
62	M88A	Z	0	0	0	%100
63	M90	X	0	0	0	%100
64	M90	Z	0	0	0	%100
65	M92A	X	7.565	7.565	0	%100
66	M92A	Z	0	0	0	%100
67	M82A	X	11.662	11.662	0	%100
68	M82A	Z	0	0	0	%100
69	MP3C	X	11.978	11.978	0	%100
70	MP3C	Z	0	0	0	%100
71	MP4C	X	11.978	11.978	0	%100
72	MP4C	Z	0	0	0	%100
73	MP2C	X	11.978	11.978	0	%100
74	MP2C	Z	0	0	0	%100
75	MP1C	X	11.978	11.978	0	%100
76	MP1C	Z	0	0	0	%100
77	M91B	X	11.662	11.662	0	%100
78	M91B	Z	0	0	0	%100
79	MP3B	X	11.978	11.978	0	%100
80	MP3B	Z	0	0	0	%100
81	MP4B	X	11.978	11.978	0	%100
82	MP4B	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[f..
83	MP2B	X	11.978	11.978	0	%100
84	MP2B	Z	0	0	0	%100
85	MP1B	X	11.978	11.978	0	%100
86	MP1B	Z	0	0	0	%100
87	M92C	X	22.695	22.695	0	%100
88	M92C	Z	0	0	0	%100
89	M94	X	22.695	22.695	0	%100
90	M94	Z	0	0	0	%100
91	M96A	X	22.695	22.695	0	%100
92	M96A	Z	0	0	0	%100
93	M98A	X	22.695	22.695	0	%100
94	M98A	Z	0	0	0	%100
95	M100	X	10.916	10.916	0	%100
96	M100	Z	0	0	0	%100
97	M93B	X	22.695	22.695	0	%100
98	M93B	Z	0	0	0	%100
99	M95	X	22.695	22.695	0	%100
100	M95	Z	0	0	0	%100
101	M97B	X	22.695	22.695	0	%100
102	M97B	Z	0	0	0	%100
103	M99B	X	22.695	22.695	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	10.875	10.875	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	10.875	10.875	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	11.162	11.162	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	0	0	0	%100
115	M125	X	11.162	11.162	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	21.275	21.275	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	22.866	22.866	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	22.866	22.866	0	%100
122	M128	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[f..
1	M1	X	3.366	3.366	0	%100
2	M1	Z	1.944	1.944	0	%100
3	M4	X	11.645	11.645	0	%100
4	M4	Z	6.723	6.723	0	%100
5	M10	X	2.988	2.988	0	%100
6	M10	Z	1.725	1.725	0	%100
7	MP3A	X	10.373	10.373	0	%100
8	MP3A	Z	5.989	5.989	0	%100
9	MP4A	X	10.373	10.373	0	%100
10	MP4A	Z	5.989	5.989	0	%100
11	MP2A	X	10.373	10.373	0	%100
12	MP2A	Z	5.989	5.989	0	%100
13	MP1A	X	10.373	10.373	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksfl	End Magnitude[lb/ft.F,ksfl	Start Locationft.	End Locationft.
14	MP1A	Z	5.989	5.989	0	%100
15	M43	X	2.988	2.988	0	%100
16	M43	Z	1.725	1.725	0	%100
17	M46	X	6.551	6.551	0	%100
18	M46	Z	3.782	3.782	0	%100
19	M51B	X	3.638	3.638	0	%100
20	M51B	Z	2.1	2.1	0	%100
21	M52B	X	14.552	14.552	0	%100
22	M52B	Z	8.401	8.401	0	%100
23	M76	X	19.654	19.654	0	%100
24	M76	Z	11.347	11.347	0	%100
25	M84	X	19.654	19.654	0	%100
26	M84	Z	11.347	11.347	0	%100
27	M52A	X	11.645	11.645	0	%100
28	M52A	Z	6.723	6.723	0	%100
29	M53	X	2.988	2.988	0	%100
30	M53	Z	1.725	1.725	0	%100
31	M54	X	2.988	2.988	0	%100
32	M54	Z	1.725	1.725	0	%100
33	M55	X	6.551	6.551	0	%100
34	M55	Z	3.782	3.782	0	%100
35	M58A	X	14.552	14.552	0	%100
36	M58A	Z	8.401	8.401	0	%100
37	M59A	X	3.638	3.638	0	%100
38	M59A	Z	2.1	2.1	0	%100
39	M63	X	19.654	19.654	0	%100
40	M63	Z	11.347	11.347	0	%100
41	M68	X	19.654	19.654	0	%100
42	M68	Z	11.347	11.347	0	%100
43	M69	X	6.551	6.551	0	%100
44	M69	Z	3.782	3.782	0	%100
45	M71	X	6.551	6.551	0	%100
46	M71	Z	3.782	3.782	0	%100
47	M76A	X	0	0	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	11.95	11.95	0	%100
50	M77A	Z	6.9	6.9	0	%100
51	M78	X	11.95	11.95	0	%100
52	M78	Z	6.9	6.9	0	%100
53	M79A	X	26.206	26.206	0	%100
54	M79A	Z	15.13	15.13	0	%100
55	M82	X	3.638	3.638	0	%100
56	M82	Z	2.1	2.1	0	%100
57	M83A	X	3.638	3.638	0	%100
58	M83A	Z	2.1	2.1	0	%100
59	M87	X	0	0	0	%100
60	M87	Z	0	0	0	%100
61	M88A	X	6.551	6.551	0	%100
62	M88A	Z	3.782	3.782	0	%100
63	M90	X	6.551	6.551	0	%100
64	M90	Z	3.782	3.782	0	%100
65	M92A	X	0	0	0	%100
66	M92A	Z	0	0	0	%100
67	M82A	X	3.366	3.366	0	%100
68	M82A	Z	1.944	1.944	0	%100
69	MP3C	X	10.373	10.373	0	%100
70	MP3C	Z	5.989	5.989	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
71	MP4C	X	10.373	10.373	0	%100
72	MP4C	Z	5.989	5.989	0	%100
73	MP2C	X	10.373	10.373	0	%100
74	MP2C	Z	5.989	5.989	0	%100
75	MP1C	X	10.373	10.373	0	%100
76	MP1C	Z	5.989	5.989	0	%100
77	M91B	X	13.466	13.466	0	%100
78	M91B	Z	7.775	7.775	0	%100
79	MP3B	X	10.373	10.373	0	%100
80	MP3B	Z	5.989	5.989	0	%100
81	MP4B	X	10.373	10.373	0	%100
82	MP4B	Z	5.989	5.989	0	%100
83	MP2B	X	10.373	10.373	0	%100
84	MP2B	Z	5.989	5.989	0	%100
85	MP1B	X	10.373	10.373	0	%100
86	MP1B	Z	5.989	5.989	0	%100
87	M92C	X	6.551	6.551	0	%100
88	M92C	Z	3.782	3.782	0	%100
89	M94	X	6.551	6.551	0	%100
90	M94	Z	3.782	3.782	0	%100
91	M96A	X	26.206	26.206	0	%100
92	M96A	Z	15.13	15.13	0	%100
93	M98A	X	26.206	26.206	0	%100
94	M98A	Z	15.13	15.13	0	%100
95	M100	X	9.453	9.453	0	%100
96	M100	Z	5.458	5.458	0	%100
97	M93B	X	6.551	6.551	0	%100
98	M93B	Z	3.782	3.782	0	%100
99	M95	X	6.551	6.551	0	%100
100	M95	Z	3.782	3.782	0	%100
101	M97B	X	26.206	26.206	0	%100
102	M97B	Z	15.13	15.13	0	%100
103	M99B	X	26.206	26.206	0	%100
104	M99B	Z	15.13	15.13	0	%100
105	M102	X	3.139	3.139	0	%100
106	M102	Z	1.812	1.812	0	%100
107	M107	X	3.139	3.139	0	%100
108	M107	Z	1.812	1.812	0	%100
109	M112	X	12.557	12.557	0	%100
110	M112	Z	7.25	7.25	0	%100
111	M123	X	3.222	3.222	0	%100
112	M123	Z	1.86	1.86	0	%100
113	M124	X	3.222	3.222	0	%100
114	M124	Z	1.86	1.86	0	%100
115	M125	X	12.889	12.889	0	%100
116	M125	Z	7.441	7.441	0	%100
117	M126	X	18.884	18.884	0	%100
118	M126	Z	10.903	10.903	0	%100
119	M127	X	18.884	18.884	0	%100
120	M127	Z	10.903	10.903	0	%100
121	M128	X	20.262	20.262	0	%100
122	M128	Z	11.698	11.698	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
1	M1	X	5.831	5.831	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 Magnitude[lb/ft.F.ksf]	Start Locationft.	End Locationft.
2	M1	Z	10.099	10.099	0	%100
3	M4	X	2.241	2.241	0	%100
4	M4	Z	3.882	3.882	0	%100
5	M10	X	5.175	5.175	0	%100
6	M10	Z	8.963	8.963	0	%100
7	MP3A	X	5.989	5.989	0	%100
8	MP3A	Z	10.373	10.373	0	%100
9	MP4A	X	5.989	5.989	0	%100
10	MP4A	Z	10.373	10.373	0	%100
11	MP2A	X	5.989	5.989	0	%100
12	MP2A	Z	10.373	10.373	0	%100
13	MP1A	X	5.989	5.989	0	%100
14	MP1A	Z	10.373	10.373	0	%100
15	M43	X	5.175	5.175	0	%100
16	M43	Z	8.963	8.963	0	%100
17	M46	X	11.347	11.347	0	%100
18	M46	Z	19.654	19.654	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	6.301	6.301	0	%100
22	M52B	Z	10.914	10.914	0	%100
23	M76	X	3.782	3.782	0	%100
24	M76	Z	6.551	6.551	0	%100
25	M84	X	3.782	3.782	0	%100
26	M84	Z	6.551	6.551	0	%100
27	M52A	X	8.964	8.964	0	%100
28	M52A	Z	15.527	15.527	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	6.301	6.301	0	%100
36	M58A	Z	10.914	10.914	0	%100
37	M59A	X	6.301	6.301	0	%100
38	M59A	Z	10.914	10.914	0	%100
39	M63	X	15.13	15.13	0	%100
40	M63	Z	26.206	26.206	0	%100
41	M68	X	15.13	15.13	0	%100
42	M68	Z	26.206	26.206	0	%100
43	M69	X	11.347	11.347	0	%100
44	M69	Z	19.654	19.654	0	%100
45	M71	X	11.347	11.347	0	%100
46	M71	Z	19.654	19.654	0	%100
47	M76A	X	2.241	2.241	0	%100
48	M76A	Z	3.882	3.882	0	%100
49	M77A	X	5.175	5.175	0	%100
50	M77A	Z	8.963	8.963	0	%100
51	M78	X	5.175	5.175	0	%100
52	M78	Z	8.963	8.963	0	%100
53	M79A	X	11.347	11.347	0	%100
54	M79A	Z	19.654	19.654	0	%100
55	M82	X	6.301	6.301	0	%100
56	M82	Z	10.914	10.914	0	%100
57	M83A	X	0	0	0	%100
58	M83A	Z	0	0	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 Magnitude[lb/ft,F,ksf]	Start Locationft.	End Locationft.
59	M87	X	3.782	3.782	0 %100
60	M87	Z	6.551	6.551	0 %100
61	M88A	X	11.347	11.347	0 %100
62	M88A	Z	19.654	19.654	0 %100
63	M90	X	11.347	11.347	0 %100
64	M90	Z	19.654	19.654	0 %100
65	M92A	X	3.782	3.782	0 %100
66	M92A	Z	6.551	6.551	0 %100
67	M82A	X	0	0	0 %100
68	M82A	Z	0	0	0 %100
69	MP3C	X	5.989	5.989	0 %100
70	MP3C	Z	10.373	10.373	0 %100
71	MP4C	X	5.989	5.989	0 %100
72	MP4C	Z	10.373	10.373	0 %100
73	MP2C	X	5.989	5.989	0 %100
74	MP2C	Z	10.373	10.373	0 %100
75	MP1C	X	5.989	5.989	0 %100
76	MP1C	Z	10.373	10.373	0 %100
77	M91B	X	5.831	5.831	0 %100
78	M91B	Z	10.099	10.099	0 %100
79	MP3B	X	5.989	5.989	0 %100
80	MP3B	Z	10.373	10.373	0 %100
81	MP4B	X	5.989	5.989	0 %100
82	MP4B	Z	10.373	10.373	0 %100
83	MP2B	X	5.989	5.989	0 %100
84	MP2B	Z	10.373	10.373	0 %100
85	MP1B	X	5.989	5.989	0 %100
86	MP1B	Z	10.373	10.373	0 %100
87	M92C	X	0	0	0 %100
88	M92C	Z	0	0	0 %100
89	M94	X	0	0	0 %100
90	M94	Z	0	0	0 %100
91	M96A	X	11.347	11.347	0 %100
92	M96A	Z	19.654	19.654	0 %100
93	M98A	X	11.347	11.347	0 %100
94	M98A	Z	19.654	19.654	0 %100
95	M100	X	5.458	5.458	0 %100
96	M100	Z	9.453	9.453	0 %100
97	M93B	X	0	0	0 %100
98	M93B	Z	0	0	0 %100
99	M95	X	0	0	0 %100
100	M95	Z	0	0	0 %100
101	M97B	X	11.347	11.347	0 %100
102	M97B	Z	19.654	19.654	0 %100
103	M99B	X	11.347	11.347	0 %100
104	M99B	Z	19.654	19.654	0 %100
105	M102	X	5.437	5.437	0 %100
106	M102	Z	9.418	9.418	0 %100
107	M107	X	0	0	0 %100
108	M107	Z	0	0	0 %100
109	M112	X	5.437	5.437	0 %100
110	M112	Z	9.418	9.418	0 %100
111	M123	X	0	0	0 %100
112	M123	Z	0	0	0 %100
113	M124	X	5.581	5.581	0 %100
114	M124	Z	9.667	9.667	0 %100
115	M125	X	5.581	5.581	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 Magnitude[lb/ft.F.ksf]	Start Locationff..	End Locationff..
116	M125	Z	9.667	9.667	0	%100
117	M126	X	11.433	11.433	0	%100
118	M126	Z	19.802	19.802	0	%100
119	M127	X	10.637	10.637	0	%100
120	M127	Z	18.424	18.424	0	%100
121	M128	X	11.433	11.433	0	%100
122	M128	Z	19.802	19.802	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Locationff..	End Locationff..
1	M1	X	0	0	0	%100
2	M1	Z	15.549	15.549	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	13.799	13.799	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	11.978	11.978	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	11.978	11.978	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	11.978	11.978	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	11.978	11.978	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	13.799	13.799	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	30.26	30.26	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	4.201	4.201	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	4.201	4.201	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	0	0	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	13.447	13.447	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	3.45	3.45	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	3.45	3.45	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	7.565	7.565	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	4.201	4.201	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	16.803	16.803	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	22.695	22.695	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	22.695	22.695	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	30.26	30.26	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	30.26	30.26	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
47	M76A	X	0	0	0	%100
48	M76A	Z	13.447	13.447	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	3.45	3.45	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	3.45	3.45	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	7.565	7.565	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	16.803	16.803	0	%100
57	M83A	X	0	0	0	%100
58	M83A	Z	4.201	4.201	0	%100
59	M87	X	0	0	0	%100
60	M87	Z	22.695	22.695	0	%100
61	M88A	X	0	0	0	%100
62	M88A	Z	30.26	30.26	0	%100
63	M90	X	0	0	0	%100
64	M90	Z	30.26	30.26	0	%100
65	M92A	X	0	0	0	%100
66	M92A	Z	22.695	22.695	0	%100
67	M82A	X	0	0	0	%100
68	M82A	Z	3.887	3.887	0	%100
69	MP3C	X	0	0	0	%100
70	MP3C	Z	11.978	11.978	0	%100
71	MP4C	X	0	0	0	%100
72	MP4C	Z	11.978	11.978	0	%100
73	MP2C	X	0	0	0	%100
74	MP2C	Z	11.978	11.978	0	%100
75	MP1C	X	0	0	0	%100
76	MP1C	Z	11.978	11.978	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	3.887	3.887	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	11.978	11.978	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	11.978	11.978	0	%100
83	MP2B	X	0	0	0	%100
84	MP2B	Z	11.978	11.978	0	%100
85	MP1B	X	0	0	0	%100
86	MP1B	Z	11.978	11.978	0	%100
87	M92C	X	0	0	0	%100
88	M92C	Z	7.565	7.565	0	%100
89	M94	X	0	0	0	%100
90	M94	Z	7.565	7.565	0	%100
91	M96A	X	0	0	0	%100
92	M96A	Z	7.565	7.565	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	7.565	7.565	0	%100
95	M100	X	0	0	0	%100
96	M100	Z	10.916	10.916	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	7.565	7.565	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	7.565	7.565	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	7.565	7.565	0	%100
103	M99B	X	0	0	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Locationft.	End Locationft.
104	M99B	Z	7.565	7.565	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	14.5	14.5	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	3.625	3.625	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	3.625	3.625	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	3.721	3.721	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	14.883	14.883	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	3.721	3.721	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	23.396	23.396	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	21.805	21.805	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	21.805	21.805	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Locationft.	End Locationft.
1	M1	X	-5.831	-5.831	0	%100
2	M1	Z	10.099	10.099	0	%100
3	M4	X	-2.241	-2.241	0	%100
4	M4	Z	3.882	3.882	0	%100
5	M10	X	-5.175	-5.175	0	%100
6	M10	Z	8.963	8.963	0	%100
7	MP3A	X	-5.989	-5.989	0	%100
8	MP3A	Z	10.373	10.373	0	%100
9	MP4A	X	-5.989	-5.989	0	%100
10	MP4A	Z	10.373	10.373	0	%100
11	MP2A	X	-5.989	-5.989	0	%100
12	MP2A	Z	10.373	10.373	0	%100
13	MP1A	X	-5.989	-5.989	0	%100
14	MP1A	Z	10.373	10.373	0	%100
15	M43	X	-5.175	-5.175	0	%100
16	M43	Z	8.963	8.963	0	%100
17	M46	X	-11.347	-11.347	0	%100
18	M46	Z	19.654	19.654	0	%100
19	M51B	X	-6.301	-6.301	0	%100
20	M51B	Z	10.914	10.914	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-3.782	-3.782	0	%100
24	M76	Z	6.551	6.551	0	%100
25	M84	X	-3.782	-3.782	0	%100
26	M84	Z	6.551	6.551	0	%100
27	M52A	X	-2.241	-2.241	0	%100
28	M52A	Z	3.882	3.882	0	%100
29	M53	X	-5.175	-5.175	0	%100
30	M53	Z	8.963	8.963	0	%100
31	M54	X	-5.175	-5.175	0	%100
32	M54	Z	8.963	8.963	0	%100
33	M55	X	-11.347	-11.347	0	%100
34	M55	Z	19.654	19.654	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 Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-6.301	-6.301	0	%100
38	M59A	Z	10.914	10.914	0	%100
39	M63	X	-3.782	-3.782	0	%100
40	M63	Z	6.551	6.551	0	%100
41	M68	X	-3.782	-3.782	0	%100
42	M68	Z	6.551	6.551	0	%100
43	M69	X	-11.347	-11.347	0	%100
44	M69	Z	19.654	19.654	0	%100
45	M71	X	-11.347	-11.347	0	%100
46	M71	Z	19.654	19.654	0	%100
47	M76A	X	-8.964	-8.964	0	%100
48	M76A	Z	15.527	15.527	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	-6.301	-6.301	0	%100
56	M82	Z	10.914	10.914	0	%100
57	M83A	X	-6.301	-6.301	0	%100
58	M83A	Z	10.914	10.914	0	%100
59	M87	X	-15.13	-15.13	0	%100
60	M87	Z	26.206	26.206	0	%100
61	M88A	X	-11.347	-11.347	0	%100
62	M88A	Z	19.654	19.654	0	%100
63	M90	X	-11.347	-11.347	0	%100
64	M90	Z	19.654	19.654	0	%100
65	M92A	X	-15.13	-15.13	0	%100
66	M92A	Z	26.206	26.206	0	%100
67	M82A	X	-5.831	-5.831	0	%100
68	M82A	Z	10.099	10.099	0	%100
69	MP3C	X	-5.989	-5.989	0	%100
70	MP3C	Z	10.373	10.373	0	%100
71	MP4C	X	-5.989	-5.989	0	%100
72	MP4C	Z	10.373	10.373	0	%100
73	MP2C	X	-5.989	-5.989	0	%100
74	MP2C	Z	10.373	10.373	0	%100
75	MP1C	X	-5.989	-5.989	0	%100
76	MP1C	Z	10.373	10.373	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP3B	X	-5.989	-5.989	0	%100
80	MP3B	Z	10.373	10.373	0	%100
81	MP4B	X	-5.989	-5.989	0	%100
82	MP4B	Z	10.373	10.373	0	%100
83	MP2B	X	-5.989	-5.989	0	%100
84	MP2B	Z	10.373	10.373	0	%100
85	MP1B	X	-5.989	-5.989	0	%100
86	MP1B	Z	10.373	10.373	0	%100
87	M92C	X	-11.347	-11.347	0	%100
88	M92C	Z	19.654	19.654	0	%100
89	M94	X	-11.347	-11.347	0	%100
90	M94	Z	19.654	19.654	0	%100
91	M96A	X	0	0	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 Magnitude[lb/ft.F.ksf]	Start Locationft.	End Locationft.
92	M96A	Z	0	0	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	0	0	0	%100
95	M100	X	-5.458	-5.458	0	%100
96	M100	Z	9.453	9.453	0	%100
97	M93B	X	-11.347	-11.347	0	%100
98	M93B	Z	19.654	19.654	0	%100
99	M95	X	-11.347	-11.347	0	%100
100	M95	Z	19.654	19.654	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	0	0	0	%100
103	M99B	X	0	0	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	-5.437	-5.437	0	%100
106	M102	Z	9.418	9.418	0	%100
107	M107	X	-5.437	-5.437	0	%100
108	M107	Z	9.418	9.418	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	-5.581	-5.581	0	%100
112	M123	Z	9.667	9.667	0	%100
113	M124	X	-5.581	-5.581	0	%100
114	M124	Z	9.667	9.667	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-11.433	-11.433	0	%100
118	M126	Z	19.802	19.802	0	%100
119	M127	X	-11.433	-11.433	0	%100
120	M127	Z	19.802	19.802	0	%100
121	M128	X	-10.637	-10.637	0	%100
122	M128	Z	18.424	18.424	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Locationft.	End Locationft.
1	M1	X	-3.366	-3.366	0	%100
2	M1	Z	1.944	1.944	0	%100
3	M4	X	-11.645	-11.645	0	%100
4	M4	Z	6.723	6.723	0	%100
5	M10	X	-2.988	-2.988	0	%100
6	M10	Z	1.725	1.725	0	%100
7	MP3A	X	-10.373	-10.373	0	%100
8	MP3A	Z	5.989	5.989	0	%100
9	MP4A	X	-10.373	-10.373	0	%100
10	MP4A	Z	5.989	5.989	0	%100
11	MP2A	X	-10.373	-10.373	0	%100
12	MP2A	Z	5.989	5.989	0	%100
13	MP1A	X	-10.373	-10.373	0	%100
14	MP1A	Z	5.989	5.989	0	%100
15	M43	X	-2.988	-2.988	0	%100
16	M43	Z	1.725	1.725	0	%100
17	M46	X	-6.551	-6.551	0	%100
18	M46	Z	3.782	3.782	0	%100
19	M51B	X	-14.552	-14.552	0	%100
20	M51B	Z	8.401	8.401	0	%100
21	M52B	X	-3.638	-3.638	0	%100
22	M52B	Z	2.1	2.1	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f.	End Location[ft...
23	M76	X	-19.654	-19.654	0	%100
24	M76	Z	11.347	11.347	0	%100
25	M84	X	-19.654	-19.654	0	%100
26	M84	Z	11.347	11.347	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	-11.95	-11.95	0	%100
30	M53	Z	6.9	6.9	0	%100
31	M54	X	-11.95	-11.95	0	%100
32	M54	Z	6.9	6.9	0	%100
33	M55	X	-26.206	-26.206	0	%100
34	M55	Z	15.13	15.13	0	%100
35	M58A	X	-3.638	-3.638	0	%100
36	M58A	Z	2.1	2.1	0	%100
37	M59A	X	-3.638	-3.638	0	%100
38	M59A	Z	2.1	2.1	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	-6.551	-6.551	0	%100
44	M69	Z	3.782	3.782	0	%100
45	M71	X	-6.551	-6.551	0	%100
46	M71	Z	3.782	3.782	0	%100
47	M76A	X	-11.645	-11.645	0	%100
48	M76A	Z	6.723	6.723	0	%100
49	M77A	X	-2.988	-2.988	0	%100
50	M77A	Z	1.725	1.725	0	%100
51	M78	X	-2.988	-2.988	0	%100
52	M78	Z	1.725	1.725	0	%100
53	M79A	X	-6.551	-6.551	0	%100
54	M79A	Z	3.782	3.782	0	%100
55	M82	X	-3.638	-3.638	0	%100
56	M82	Z	2.1	2.1	0	%100
57	M83A	X	-14.552	-14.552	0	%100
58	M83A	Z	8.401	8.401	0	%100
59	M87	X	-19.654	-19.654	0	%100
60	M87	Z	11.347	11.347	0	%100
61	M88A	X	-6.551	-6.551	0	%100
62	M88A	Z	3.782	3.782	0	%100
63	M90	X	-6.551	-6.551	0	%100
64	M90	Z	3.782	3.782	0	%100
65	M92A	X	-19.654	-19.654	0	%100
66	M92A	Z	11.347	11.347	0	%100
67	M82A	X	-13.466	-13.466	0	%100
68	M82A	Z	7.775	7.775	0	%100
69	MP3C	X	-10.373	-10.373	0	%100
70	MP3C	Z	5.989	5.989	0	%100
71	MP4C	X	-10.373	-10.373	0	%100
72	MP4C	Z	5.989	5.989	0	%100
73	MP2C	X	-10.373	-10.373	0	%100
74	MP2C	Z	5.989	5.989	0	%100
75	MP1C	X	-10.373	-10.373	0	%100
76	MP1C	Z	5.989	5.989	0	%100
77	M91B	X	-3.366	-3.366	0	%100
78	M91B	Z	1.944	1.944	0	%100
79	MP3B	X	-10.373	-10.373	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationff.	End Locationff.
80	MP3B	Z	5.989	5.989	0	%100
81	MP4B	X	-10.373	-10.373	0	%100
82	MP4B	Z	5.989	5.989	0	%100
83	MP2B	X	-10.373	-10.373	0	%100
84	MP2B	Z	5.989	5.989	0	%100
85	MP1B	X	-10.373	-10.373	0	%100
86	MP1B	Z	5.989	5.989	0	%100
87	M92C	X	-26.206	-26.206	0	%100
88	M92C	Z	15.13	15.13	0	%100
89	M94	X	-26.206	-26.206	0	%100
90	M94	Z	15.13	15.13	0	%100
91	M96A	X	-6.551	-6.551	0	%100
92	M96A	Z	3.782	3.782	0	%100
93	M98A	X	-6.551	-6.551	0	%100
94	M98A	Z	3.782	3.782	0	%100
95	M100	X	-9.453	-9.453	0	%100
96	M100	Z	5.458	5.458	0	%100
97	M93B	X	-26.206	-26.206	0	%100
98	M93B	Z	15.13	15.13	0	%100
99	M95	X	-26.206	-26.206	0	%100
100	M95	Z	15.13	15.13	0	%100
101	M97B	X	-6.551	-6.551	0	%100
102	M97B	Z	3.782	3.782	0	%100
103	M99B	X	-6.551	-6.551	0	%100
104	M99B	Z	3.782	3.782	0	%100
105	M102	X	-3.139	-3.139	0	%100
106	M102	Z	1.812	1.812	0	%100
107	M107	X	-12.557	-12.557	0	%100
108	M107	Z	7.25	7.25	0	%100
109	M112	X	-3.139	-3.139	0	%100
110	M112	Z	1.812	1.812	0	%100
111	M123	X	-12.889	-12.889	0	%100
112	M123	Z	7.441	7.441	0	%100
113	M124	X	-3.222	-3.222	0	%100
114	M124	Z	1.86	1.86	0	%100
115	M125	X	-3.222	-3.222	0	%100
116	M125	Z	1.86	1.86	0	%100
117	M126	X	-18.884	-18.884	0	%100
118	M126	Z	10.903	10.903	0	%100
119	M127	X	-20.262	-20.262	0	%100
120	M127	Z	11.698	11.698	0	%100
121	M128	X	-18.884	-18.884	0	%100
122	M128	Z	10.903	10.903	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationff.	End Locationff.
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-17.929	-17.929	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-11.978	-11.978	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-11.978	-11.978	0	%100
10	MP4A	Z	0	0	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 Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
11	MP2A	X	-11.978	-11.978	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-11.978	-11.978	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-12.602	-12.602	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-12.602	-12.602	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-30.26	-30.26	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	-30.26	-30.26	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	-4.482	-4.482	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	-10.349	-10.349	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	-10.349	-10.349	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	-22.695	-22.695	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-12.602	-12.602	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-7.565	-7.565	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	-7.565	-7.565	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	0	0	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	0	0	0	%100
47	M76A	X	-4.482	-4.482	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	-10.349	-10.349	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	-10.349	-10.349	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	-22.695	-22.695	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	0	0	0	%100
57	M83A	X	-12.602	-12.602	0	%100
58	M83A	Z	0	0	0	%100
59	M87	X	-7.565	-7.565	0	%100
60	M87	Z	0	0	0	%100
61	M88A	X	0	0	0	%100
62	M88A	Z	0	0	0	%100
63	M90	X	0	0	0	%100
64	M90	Z	0	0	0	%100
65	M92A	X	-7.565	-7.565	0	%100
66	M92A	Z	0	0	0	%100
67	M82A	X	-11.662	-11.662	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F.ksfl	End Magnitude[lb/ft.F.ksfl	Start Locationff..	End Locationff..
68	M82A	Z	0	0	%100
69	MP3C	X	-11.978	-11.978	%100
70	MP3C	Z	0	0	%100
71	MP4C	X	-11.978	-11.978	%100
72	MP4C	Z	0	0	%100
73	MP2C	X	-11.978	-11.978	%100
74	MP2C	Z	0	0	%100
75	MP1C	X	-11.978	-11.978	%100
76	MP1C	Z	0	0	%100
77	M91B	X	-11.662	-11.662	%100
78	M91B	Z	0	0	%100
79	MP3B	X	-11.978	-11.978	%100
80	MP3B	Z	0	0	%100
81	MP4B	X	-11.978	-11.978	%100
82	MP4B	Z	0	0	%100
83	MP2B	X	-11.978	-11.978	%100
84	MP2B	Z	0	0	%100
85	MP1B	X	-11.978	-11.978	%100
86	MP1B	Z	0	0	%100
87	M92C	X	-22.695	-22.695	%100
88	M92C	Z	0	0	%100
89	M94	X	-22.695	-22.695	%100
90	M94	Z	0	0	%100
91	M96A	X	-22.695	-22.695	%100
92	M96A	Z	0	0	%100
93	M98A	X	-22.695	-22.695	%100
94	M98A	Z	0	0	%100
95	M100	X	-10.916	-10.916	%100
96	M100	Z	0	0	%100
97	M93B	X	-22.695	-22.695	%100
98	M93B	Z	0	0	%100
99	M95	X	-22.695	-22.695	%100
100	M95	Z	0	0	%100
101	M97B	X	-22.695	-22.695	%100
102	M97B	Z	0	0	%100
103	M99B	X	-22.695	-22.695	%100
104	M99B	Z	0	0	%100
105	M102	X	0	0	%100
106	M102	Z	0	0	%100
107	M107	X	-10.875	-10.875	%100
108	M107	Z	0	0	%100
109	M112	X	-10.875	-10.875	%100
110	M112	Z	0	0	%100
111	M123	X	-11.162	-11.162	%100
112	M123	Z	0	0	%100
113	M124	X	0	0	%100
114	M124	Z	0	0	%100
115	M125	X	-11.162	-11.162	%100
116	M125	Z	0	0	%100
117	M126	X	-21.275	-21.275	%100
118	M126	Z	0	0	%100
119	M127	X	-22.866	-22.866	%100
120	M127	Z	0	0	%100
121	M128	X	-22.866	-22.866	%100
122	M128	Z	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
1	M1	X	-3.366	-3.366	0	%100
2	M1	Z	-1.944	-1.944	0	%100
3	M4	X	-11.645	-11.645	0	%100
4	M4	Z	-6.723	-6.723	0	%100
5	M10	X	-2.988	-2.988	0	%100
6	M10	Z	-1.725	-1.725	0	%100
7	MP3A	X	-10.373	-10.373	0	%100
8	MP3A	Z	-5.989	-5.989	0	%100
9	MP4A	X	-10.373	-10.373	0	%100
10	MP4A	Z	-5.989	-5.989	0	%100
11	MP2A	X	-10.373	-10.373	0	%100
12	MP2A	Z	-5.989	-5.989	0	%100
13	MP1A	X	-10.373	-10.373	0	%100
14	MP1A	Z	-5.989	-5.989	0	%100
15	M43	X	-2.988	-2.988	0	%100
16	M43	Z	-1.725	-1.725	0	%100
17	M46	X	-6.551	-6.551	0	%100
18	M46	Z	-3.782	-3.782	0	%100
19	M51B	X	-3.638	-3.638	0	%100
20	M51B	Z	-2.1	-2.1	0	%100
21	M52B	X	-14.552	-14.552	0	%100
22	M52B	Z	-8.401	-8.401	0	%100
23	M76	X	-19.654	-19.654	0	%100
24	M76	Z	-11.347	-11.347	0	%100
25	M84	X	-19.654	-19.654	0	%100
26	M84	Z	-11.347	-11.347	0	%100
27	M52A	X	-11.645	-11.645	0	%100
28	M52A	Z	-6.723	-6.723	0	%100
29	M53	X	-2.988	-2.988	0	%100
30	M53	Z	-1.725	-1.725	0	%100
31	M54	X	-2.988	-2.988	0	%100
32	M54	Z	-1.725	-1.725	0	%100
33	M55	X	-6.551	-6.551	0	%100
34	M55	Z	-3.782	-3.782	0	%100
35	M58A	X	-14.552	-14.552	0	%100
36	M58A	Z	-8.401	-8.401	0	%100
37	M59A	X	-3.638	-3.638	0	%100
38	M59A	Z	-2.1	-2.1	0	%100
39	M63	X	-19.654	-19.654	0	%100
40	M63	Z	-11.347	-11.347	0	%100
41	M68	X	-19.654	-19.654	0	%100
42	M68	Z	-11.347	-11.347	0	%100
43	M69	X	-6.551	-6.551	0	%100
44	M69	Z	-3.782	-3.782	0	%100
45	M71	X	-6.551	-6.551	0	%100
46	M71	Z	-3.782	-3.782	0	%100
47	M76A	X	0	0	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	-11.95	-11.95	0	%100
50	M77A	Z	-6.9	-6.9	0	%100
51	M78	X	-11.95	-11.95	0	%100
52	M78	Z	-6.9	-6.9	0	%100
53	M79A	X	-26.206	-26.206	0	%100
54	M79A	Z	-15.13	-15.13	0	%100
55	M82	X	-3.638	-3.638	0	%100
56	M82	Z	-2.1	-2.1	0	%100
57	M83A	X	-3.638	-3.638	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
58	M83A	Z	-2.1	-2.1	0 %100
59	M87	X	0	0	0 %100
60	M87	Z	0	0	0 %100
61	M88A	X	-6.551	-6.551	0 %100
62	M88A	Z	-3.782	-3.782	0 %100
63	M90	X	-6.551	-6.551	0 %100
64	M90	Z	-3.782	-3.782	0 %100
65	M92A	X	0	0	0 %100
66	M92A	Z	0	0	0 %100
67	M82A	X	-3.366	-3.366	0 %100
68	M82A	Z	-1.944	-1.944	0 %100
69	MP3C	X	-10.373	-10.373	0 %100
70	MP3C	Z	-5.989	-5.989	0 %100
71	MP4C	X	-10.373	-10.373	0 %100
72	MP4C	Z	-5.989	-5.989	0 %100
73	MP2C	X	-10.373	-10.373	0 %100
74	MP2C	Z	-5.989	-5.989	0 %100
75	MP1C	X	-10.373	-10.373	0 %100
76	MP1C	Z	-5.989	-5.989	0 %100
77	M91B	X	-13.466	-13.466	0 %100
78	M91B	Z	-7.775	-7.775	0 %100
79	MP3B	X	-10.373	-10.373	0 %100
80	MP3B	Z	-5.989	-5.989	0 %100
81	MP4B	X	-10.373	-10.373	0 %100
82	MP4B	Z	-5.989	-5.989	0 %100
83	MP2B	X	-10.373	-10.373	0 %100
84	MP2B	Z	-5.989	-5.989	0 %100
85	MP1B	X	-10.373	-10.373	0 %100
86	MP1B	Z	-5.989	-5.989	0 %100
87	M92C	X	-6.551	-6.551	0 %100
88	M92C	Z	-3.782	-3.782	0 %100
89	M94	X	-6.551	-6.551	0 %100
90	M94	Z	-3.782	-3.782	0 %100
91	M96A	X	-26.206	-26.206	0 %100
92	M96A	Z	-15.13	-15.13	0 %100
93	M98A	X	-26.206	-26.206	0 %100
94	M98A	Z	-15.13	-15.13	0 %100
95	M100	X	-9.453	-9.453	0 %100
96	M100	Z	-5.458	-5.458	0 %100
97	M93B	X	-6.551	-6.551	0 %100
98	M93B	Z	-3.782	-3.782	0 %100
99	M95	X	-6.551	-6.551	0 %100
100	M95	Z	-3.782	-3.782	0 %100
101	M97B	X	-26.206	-26.206	0 %100
102	M97B	Z	-15.13	-15.13	0 %100
103	M99B	X	-26.206	-26.206	0 %100
104	M99B	Z	-15.13	-15.13	0 %100
105	M102	X	-3.139	-3.139	0 %100
106	M102	Z	-1.812	-1.812	0 %100
107	M107	X	-3.139	-3.139	0 %100
108	M107	Z	-1.812	-1.812	0 %100
109	M112	X	-12.557	-12.557	0 %100
110	M112	Z	-7.25	-7.25	0 %100
111	M123	X	-3.222	-3.222	0 %100
112	M123	Z	-1.86	-1.86	0 %100
113	M124	X	-3.222	-3.222	0 %100
114	M124	Z	-1.86	-1.86	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft..	End Location[ft..
115	M125	X	-12.889	-12.889	0	%100
116	M125	Z	-7.441	-7.441	0	%100
117	M126	X	-18.884	-18.884	0	%100
118	M126	Z	-10.903	-10.903	0	%100
119	M127	X	-18.884	-18.884	0	%100
120	M127	Z	-10.903	-10.903	0	%100
121	M128	X	-20.262	-20.262	0	%100
122	M128	Z	-11.698	-11.698	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft..	End Location[ft..
1	M1	X	-5.831	-5.831	0	%100
2	M1	Z	-10.099	-10.099	0	%100
3	M4	X	-2.241	-2.241	0	%100
4	M4	Z	-3.882	-3.882	0	%100
5	M10	X	-5.175	-5.175	0	%100
6	M10	Z	-8.963	-8.963	0	%100
7	MP3A	X	-5.989	-5.989	0	%100
8	MP3A	Z	-10.373	-10.373	0	%100
9	MP4A	X	-5.989	-5.989	0	%100
10	MP4A	Z	-10.373	-10.373	0	%100
11	MP2A	X	-5.989	-5.989	0	%100
12	MP2A	Z	-10.373	-10.373	0	%100
13	MP1A	X	-5.989	-5.989	0	%100
14	MP1A	Z	-10.373	-10.373	0	%100
15	M43	X	-5.175	-5.175	0	%100
16	M43	Z	-8.963	-8.963	0	%100
17	M46	X	-11.347	-11.347	0	%100
18	M46	Z	-19.654	-19.654	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-6.301	-6.301	0	%100
22	M52B	Z	-10.914	-10.914	0	%100
23	M76	X	-3.782	-3.782	0	%100
24	M76	Z	-6.551	-6.551	0	%100
25	M84	X	-3.782	-3.782	0	%100
26	M84	Z	-6.551	-6.551	0	%100
27	M52A	X	-8.964	-8.964	0	%100
28	M52A	Z	-15.527	-15.527	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-6.301	-6.301	0	%100
36	M58A	Z	-10.914	-10.914	0	%100
37	M59A	X	-6.301	-6.301	0	%100
38	M59A	Z	-10.914	-10.914	0	%100
39	M63	X	-15.13	-15.13	0	%100
40	M63	Z	-26.206	-26.206	0	%100
41	M68	X	-15.13	-15.13	0	%100
42	M68	Z	-26.206	-26.206	0	%100
43	M69	X	-11.347	-11.347	0	%100
44	M69	Z	-19.654	-19.654	0	%100
45	M71	X	-11.347	-11.347	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksfl	End Magnitude[lb/ft.F,ksfl	Start Locationff.	End Locationff.
46	M71	Z	-19.654	-19.654	0 %100
47	M76A	X	-2.241	-2.241	0 %100
48	M76A	Z	-3.882	-3.882	0 %100
49	M77A	X	-5.175	-5.175	0 %100
50	M77A	Z	-8.963	-8.963	0 %100
51	M78	X	-5.175	-5.175	0 %100
52	M78	Z	-8.963	-8.963	0 %100
53	M79A	X	-11.347	-11.347	0 %100
54	M79A	Z	-19.654	-19.654	0 %100
55	M82	X	-6.301	-6.301	0 %100
56	M82	Z	-10.914	-10.914	0 %100
57	M83A	X	0	0	0 %100
58	M83A	Z	0	0	0 %100
59	M87	X	-3.782	-3.782	0 %100
60	M87	Z	-6.551	-6.551	0 %100
61	M88A	X	-11.347	-11.347	0 %100
62	M88A	Z	-19.654	-19.654	0 %100
63	M90	X	-11.347	-11.347	0 %100
64	M90	Z	-19.654	-19.654	0 %100
65	M92A	X	-3.782	-3.782	0 %100
66	M92A	Z	-6.551	-6.551	0 %100
67	M82A	X	0	0	0 %100
68	M82A	Z	0	0	0 %100
69	MP3C	X	-5.989	-5.989	0 %100
70	MP3C	Z	-10.373	-10.373	0 %100
71	MP4C	X	-5.989	-5.989	0 %100
72	MP4C	Z	-10.373	-10.373	0 %100
73	MP2C	X	-5.989	-5.989	0 %100
74	MP2C	Z	-10.373	-10.373	0 %100
75	MP1C	X	-5.989	-5.989	0 %100
76	MP1C	Z	-10.373	-10.373	0 %100
77	M91B	X	-5.831	-5.831	0 %100
78	M91B	Z	-10.099	-10.099	0 %100
79	MP3B	X	-5.989	-5.989	0 %100
80	MP3B	Z	-10.373	-10.373	0 %100
81	MP4B	X	-5.989	-5.989	0 %100
82	MP4B	Z	-10.373	-10.373	0 %100
83	MP2B	X	-5.989	-5.989	0 %100
84	MP2B	Z	-10.373	-10.373	0 %100
85	MP1B	X	-5.989	-5.989	0 %100
86	MP1B	Z	-10.373	-10.373	0 %100
87	M92C	X	0	0	0 %100
88	M92C	Z	0	0	0 %100
89	M94	X	0	0	0 %100
90	M94	Z	0	0	0 %100
91	M96A	X	-11.347	-11.347	0 %100
92	M96A	Z	-19.654	-19.654	0 %100
93	M98A	X	-11.347	-11.347	0 %100
94	M98A	Z	-19.654	-19.654	0 %100
95	M100	X	-5.458	-5.458	0 %100
96	M100	Z	-9.453	-9.453	0 %100
97	M93B	X	0	0	0 %100
98	M93B	Z	0	0	0 %100
99	M95	X	0	0	0 %100
100	M95	Z	0	0	0 %100
101	M97B	X	-11.347	-11.347	0 %100
102	M97B	Z	-19.654	-19.654	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
103	M99B	X	-11.347	-11.347	0	%100
104	M99B	Z	-19.654	-19.654	0	%100
105	M102	X	-5.437	-5.437	0	%100
106	M102	Z	-9.418	-9.418	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	-5.437	-5.437	0	%100
110	M112	Z	-9.418	-9.418	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	-5.581	-5.581	0	%100
114	M124	Z	-9.667	-9.667	0	%100
115	M125	X	-5.581	-5.581	0	%100
116	M125	Z	-9.667	-9.667	0	%100
117	M126	X	-11.433	-11.433	0	%100
118	M126	Z	-19.802	-19.802	0	%100
119	M127	X	-10.637	-10.637	0	%100
120	M127	Z	-18.424	-18.424	0	%100
121	M128	X	-11.433	-11.433	0	%100
122	M128	Z	-19.802	-19.802	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	0	0	0	%100
2	M1	Z	-4.343	-4.343	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-3.365	-3.365	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-3.503	-3.503	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	-3.503	-3.503	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	-3.503	-3.503	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	-3.503	-3.503	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	-3.365	-3.365	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	-5.577	-5.577	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	-1.026	-1.026	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	-1.026	-1.026	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	0	0	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	-3.288	-3.288	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	-.841	-.841	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	-.841	-.841	0	%100
33	M55	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F.ksfl	End Magnitude[lb/ft.F.ksfl	Start Locationft..	End Locationft..
34	M55	Z	-1.394	-1.394	0 %100
35	M58A	X	0	0	0 %100
36	M58A	Z	-1.026	-1.026	0 %100
37	M59A	X	0	0	0 %100
38	M59A	Z	-4.105	-4.105	0 %100
39	M63	X	0	0	0 %100
40	M63	Z	-4.115	-4.115	0 %100
41	M68	X	0	0	0 %100
42	M68	Z	-4.115	-4.115	0 %100
43	M69	X	0	0	0 %100
44	M69	Z	-5.486	-5.486	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	-5.486	-5.486	0 %100
47	M76A	X	0	0	0 %100
48	M76A	Z	-3.288	-3.288	0 %100
49	M77A	X	0	0	0 %100
50	M77A	Z	-0.841	-0.841	0 %100
51	M78	X	0	0	0 %100
52	M78	Z	-0.841	-0.841	0 %100
53	M79A	X	0	0	0 %100
54	M79A	Z	-1.394	-1.394	0 %100
55	M82	X	0	0	0 %100
56	M82	Z	-4.105	-4.105	0 %100
57	M83A	X	0	0	0 %100
58	M83A	Z	-1.026	-1.026	0 %100
59	M87	X	0	0	0 %100
60	M87	Z	-4.115	-4.115	0 %100
61	M88A	X	0	0	0 %100
62	M88A	Z	-5.486	-5.486	0 %100
63	M90	X	0	0	0 %100
64	M90	Z	-5.486	-5.486	0 %100
65	M92A	X	0	0	0 %100
66	M92A	Z	-4.115	-4.115	0 %100
67	M82A	X	0	0	0 %100
68	M82A	Z	-1.086	-1.086	0 %100
69	MP3C	X	0	0	0 %100
70	MP3C	Z	-3.503	-3.503	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	-3.503	-3.503	0 %100
73	MP2C	X	0	0	0 %100
74	MP2C	Z	-3.503	-3.503	0 %100
75	MP1C	X	0	0	0 %100
76	MP1C	Z	-3.503	-3.503	0 %100
77	M91B	X	0	0	0 %100
78	M91B	Z	-1.086	-1.086	0 %100
79	MP3B	X	0	0	0 %100
80	MP3B	Z	-3.503	-3.503	0 %100
81	MP4B	X	0	0	0 %100
82	MP4B	Z	-3.503	-3.503	0 %100
83	MP2B	X	0	0	0 %100
84	MP2B	Z	-3.503	-3.503	0 %100
85	MP1B	X	0	0	0 %100
86	MP1B	Z	-3.503	-3.503	0 %100
87	M92C	X	0	0	0 %100
88	M92C	Z	-1.372	-1.372	0 %100
89	M94	X	0	0	0 %100
90	M94	Z	-1.372	-1.372	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 Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
91	M96A	X	0	0	0	%100
92	M96A	Z	-1.372	-1.372	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	-1.372	-1.372	0	%100
95	M100	X	0	0	0	%100
96	M100	Z	-3.208	-3.208	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	-1.372	-1.372	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	-1.372	-1.372	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	-1.372	-1.372	0	%100
103	M99B	X	0	0	0	%100
104	M99B	Z	-1.372	-1.372	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	-3.876	-3.876	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	-0.969	-0.969	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	-0.969	-0.969	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	-0.848	-0.848	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	-3.39	-3.39	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	-0.848	-0.848	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	-4.392	-4.392	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	-4.641	-4.641	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	-4.641	-4.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
1	M1	X	1.628	1.628	0	%100
2	M1	Z	-2.821	-2.821	0	%100
3	M4	X	.548	.548	0	%100
4	M4	Z	-.949	-.949	0	%100
5	M10	X	1.262	1.262	0	%100
6	M10	Z	-2.186	-2.186	0	%100
7	MP3A	X	1.752	1.752	0	%100
8	MP3A	Z	-3.034	-3.034	0	%100
9	MP4A	X	1.752	1.752	0	%100
10	MP4A	Z	-3.034	-3.034	0	%100
11	MP2A	X	1.752	1.752	0	%100
12	MP2A	Z	-3.034	-3.034	0	%100
13	MP1A	X	1.752	1.752	0	%100
14	MP1A	Z	-3.034	-3.034	0	%100
15	M43	X	1.262	1.262	0	%100
16	M43	Z	-2.186	-2.186	0	%100
17	M46	X	2.091	2.091	0	%100
18	M46	Z	-3.622	-3.622	0	%100
19	M51B	X	1.54	1.54	0	%100
20	M51B	Z	-2.667	-2.667	0	%100
21	M52B	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
22	M52B	Z	0	0	%100
23	M76	X	.686	.686	%100
24	M76	Z	-1.188	-1.188	%100
25	M84	X	.686	.686	%100
26	M84	Z	-1.188	-1.188	%100
27	M52A	X	.548	.548	%100
28	M52A	Z	-.949	-.949	%100
29	M53	X	1.262	1.262	%100
30	M53	Z	-2.186	-2.186	%100
31	M54	X	1.262	1.262	%100
32	M54	Z	-2.186	-2.186	%100
33	M55	X	2.091	2.091	%100
34	M55	Z	-3.622	-3.622	%100
35	M58A	X	0	0	%100
36	M58A	Z	0	0	%100
37	M59A	X	1.54	1.54	%100
38	M59A	Z	-2.667	-2.667	%100
39	M63	X	.686	.686	%100
40	M63	Z	-1.188	-1.188	%100
41	M68	X	.686	.686	%100
42	M68	Z	-1.188	-1.188	%100
43	M69	X	2.057	2.057	%100
44	M69	Z	-3.563	-3.563	%100
45	M71	X	2.057	2.057	%100
46	M71	Z	-3.563	-3.563	%100
47	M76A	X	2.192	2.192	%100
48	M76A	Z	-3.796	-3.796	%100
49	M77A	X	0	0	%100
50	M77A	Z	0	0	%100
51	M78	X	0	0	%100
52	M78	Z	0	0	%100
53	M79A	X	0	0	%100
54	M79A	Z	0	0	%100
55	M82	X	1.54	1.54	%100
56	M82	Z	-2.667	-2.667	%100
57	M83A	X	1.54	1.54	%100
58	M83A	Z	-2.667	-2.667	%100
59	M87	X	2.743	2.743	%100
60	M87	Z	-4.751	-4.751	%100
61	M88A	X	2.057	2.057	%100
62	M88A	Z	-3.563	-3.563	%100
63	M90	X	2.057	2.057	%100
64	M90	Z	-3.563	-3.563	%100
65	M92A	X	2.743	2.743	%100
66	M92A	Z	-4.751	-4.751	%100
67	M82A	X	1.628	1.628	%100
68	M82A	Z	-2.821	-2.821	%100
69	MP3C	X	1.752	1.752	%100
70	MP3C	Z	-3.034	-3.034	%100
71	MP4C	X	1.752	1.752	%100
72	MP4C	Z	-3.034	-3.034	%100
73	MP2C	X	1.752	1.752	%100
74	MP2C	Z	-3.034	-3.034	%100
75	MP1C	X	1.752	1.752	%100
76	MP1C	Z	-3.034	-3.034	%100
77	M91B	X	0	0	%100
78	M91B	Z	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
79	MP3B	X	1.752	1.752	0	%100
80	MP3B	Z	-3.034	-3.034	0	%100
81	MP4B	X	1.752	1.752	0	%100
82	MP4B	Z	-3.034	-3.034	0	%100
83	MP2B	X	1.752	1.752	0	%100
84	MP2B	Z	-3.034	-3.034	0	%100
85	MP1B	X	1.752	1.752	0	%100
86	MP1B	Z	-3.034	-3.034	0	%100
87	M92C	X	2.057	2.057	0	%100
88	M92C	Z	-3.563	-3.563	0	%100
89	M94	X	2.057	2.057	0	%100
90	M94	Z	-3.563	-3.563	0	%100
91	M96A	X	0	0	0	%100
92	M96A	Z	0	0	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	0	0	0	%100
95	M100	X	1.604	1.604	0	%100
96	M100	Z	-2.778	-2.778	0	%100
97	M93B	X	2.057	2.057	0	%100
98	M93B	Z	-3.563	-3.563	0	%100
99	M95	X	2.057	2.057	0	%100
100	M95	Z	-3.563	-3.563	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	0	0	0	%100
103	M99B	X	0	0	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	1.454	1.454	0	%100
106	M102	Z	-2.518	-2.518	0	%100
107	M107	X	1.454	1.454	0	%100
108	M107	Z	-2.518	-2.518	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	1.271	1.271	0	%100
112	M123	Z	-2.202	-2.202	0	%100
113	M124	X	1.271	1.271	0	%100
114	M124	Z	-2.202	-2.202	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	2.237	2.237	0	%100
118	M126	Z	-3.875	-3.875	0	%100
119	M127	X	2.237	2.237	0	%100
120	M127	Z	-3.875	-3.875	0	%100
121	M128	X	2.362	2.362	0	%100
122	M128	Z	-4.091	-4.091	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
1	M1	X	.94	.94	0	%100
2	M1	Z	-.543	-.543	0	%100
3	M4	X	2.847	2.847	0	%100
4	M4	Z	-1.644	-1.644	0	%100
5	M10	X	.729	.729	0	%100
6	M10	Z	-.421	-.421	0	%100
7	MP3A	X	3.034	3.034	0	%100
8	MP3A	Z	-1.752	-1.752	0	%100
9	MP4A	X	3.034	3.034	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationff.	End Locationff.
10	MP4A	Z	-1.752	-1.752	0 %100
11	MP2A	X	3.034	3.034	0 %100
12	MP2A	Z	-1.752	-1.752	0 %100
13	MP1A	X	3.034	3.034	0 %100
14	MP1A	Z	-1.752	-1.752	0 %100
15	M43	X	.729	.729	0 %100
16	M43	Z	-.421	-.421	0 %100
17	M46	X	1.207	1.207	0 %100
18	M46	Z	-.697	-.697	0 %100
19	M51B	X	3.555	3.555	0 %100
20	M51B	Z	-2.053	-2.053	0 %100
21	M52B	X	.889	.889	0 %100
22	M52B	Z	-.513	-.513	0 %100
23	M76	X	3.563	3.563	0 %100
24	M76	Z	-2.057	-2.057	0 %100
25	M84	X	3.563	3.563	0 %100
26	M84	Z	-2.057	-2.057	0 %100
27	M52A	X	0	0	0 %100
28	M52A	Z	0	0	0 %100
29	M53	X	2.914	2.914	0 %100
30	M53	Z	-1.682	-1.682	0 %100
31	M54	X	2.914	2.914	0 %100
32	M54	Z	-1.682	-1.682	0 %100
33	M55	X	4.83	4.83	0 %100
34	M55	Z	-2.789	-2.789	0 %100
35	M58A	X	.889	.889	0 %100
36	M58A	Z	-.513	-.513	0 %100
37	M59A	X	.889	.889	0 %100
38	M59A	Z	-.513	-.513	0 %100
39	M63	X	0	0	0 %100
40	M63	Z	0	0	0 %100
41	M68	X	0	0	0 %100
42	M68	Z	0	0	0 %100
43	M69	X	1.188	1.188	0 %100
44	M69	Z	-.686	-.686	0 %100
45	M71	X	1.188	1.188	0 %100
46	M71	Z	-.686	-.686	0 %100
47	M76A	X	2.847	2.847	0 %100
48	M76A	Z	-1.644	-1.644	0 %100
49	M77A	X	.729	.729	0 %100
50	M77A	Z	-.421	-.421	0 %100
51	M78	X	.729	.729	0 %100
52	M78	Z	-.421	-.421	0 %100
53	M79A	X	1.207	1.207	0 %100
54	M79A	Z	-.697	-.697	0 %100
55	M82	X	.889	.889	0 %100
56	M82	Z	-.513	-.513	0 %100
57	M83A	X	3.555	3.555	0 %100
58	M83A	Z	-2.053	-2.053	0 %100
59	M87	X	3.563	3.563	0 %100
60	M87	Z	-2.057	-2.057	0 %100
61	M88A	X	1.188	1.188	0 %100
62	M88A	Z	-.686	-.686	0 %100
63	M90	X	1.188	1.188	0 %100
64	M90	Z	-.686	-.686	0 %100
65	M92A	X	3.563	3.563	0 %100
66	M92A	Z	-2.057	-2.057	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft..
67	M82A	X	3.761	3.761	0	%100
68	M82A	Z	-2.171	-2.171	0	%100
69	MP3C	X	3.034	3.034	0	%100
70	MP3C	Z	-1.752	-1.752	0	%100
71	MP4C	X	3.034	3.034	0	%100
72	MP4C	Z	-1.752	-1.752	0	%100
73	MP2C	X	3.034	3.034	0	%100
74	MP2C	Z	-1.752	-1.752	0	%100
75	MP1C	X	3.034	3.034	0	%100
76	MP1C	Z	-1.752	-1.752	0	%100
77	M91B	X	.94	.94	0	%100
78	M91B	Z	-.543	-.543	0	%100
79	MP3B	X	3.034	3.034	0	%100
80	MP3B	Z	-1.752	-1.752	0	%100
81	MP4B	X	3.034	3.034	0	%100
82	MP4B	Z	-1.752	-1.752	0	%100
83	MP2B	X	3.034	3.034	0	%100
84	MP2B	Z	-1.752	-1.752	0	%100
85	MP1B	X	3.034	3.034	0	%100
86	MP1B	Z	-1.752	-1.752	0	%100
87	M92C	X	4.751	4.751	0	%100
88	M92C	Z	-2.743	-2.743	0	%100
89	M94	X	4.751	4.751	0	%100
90	M94	Z	-2.743	-2.743	0	%100
91	M96A	X	1.188	1.188	0	%100
92	M96A	Z	-.686	-.686	0	%100
93	M98A	X	1.188	1.188	0	%100
94	M98A	Z	-.686	-.686	0	%100
95	M100	X	2.778	2.778	0	%100
96	M100	Z	-1.604	-1.604	0	%100
97	M93B	X	4.751	4.751	0	%100
98	M93B	Z	-2.743	-2.743	0	%100
99	M95	X	4.751	4.751	0	%100
100	M95	Z	-2.743	-2.743	0	%100
101	M97B	X	1.188	1.188	0	%100
102	M97B	Z	-.686	-.686	0	%100
103	M99B	X	1.188	1.188	0	%100
104	M99B	Z	-.686	-.686	0	%100
105	M102	X	.839	.839	0	%100
106	M102	Z	-.485	-.485	0	%100
107	M107	X	3.357	3.357	0	%100
108	M107	Z	-1.938	-1.938	0	%100
109	M112	X	.839	.839	0	%100
110	M112	Z	-.485	-.485	0	%100
111	M123	X	2.936	2.936	0	%100
112	M123	Z	-1.695	-1.695	0	%100
113	M124	X	.734	.734	0	%100
114	M124	Z	-.424	-.424	0	%100
115	M125	X	.734	.734	0	%100
116	M125	Z	-.424	-.424	0	%100
117	M126	X	4.019	4.019	0	%100
118	M126	Z	-2.321	-2.321	0	%100
119	M127	X	3.803	3.803	0	%100
120	M127	Z	-2.196	-2.196	0	%100
121	M128	X	4.019	4.019	0	%100
122	M128	Z	-2.321	-2.321	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft..	End Locationft..
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	4.384	4.384	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	3.503	3.503	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	3.503	3.503	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	3.503	3.503	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	3.503	3.503	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	3.079	3.079	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	3.079	3.079	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	5.486	5.486	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	5.486	5.486	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	1.096	1.096	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	2.524	2.524	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	2.524	2.524	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	4.183	4.183	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	3.079	3.079	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	1.372	1.372	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	1.372	1.372	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	0	0	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	0	0	0	%100
47	M76A	X	1.096	1.096	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	2.524	2.524	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	2.524	2.524	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	4.183	4.183	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	0	0	0	%100
57	M83A	X	3.079	3.079	0	%100



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

Member Label	Direction	Start Magnitude/lb/ft.F.ksfl	End Magnitude/lb/ft.F.ksfl	Start Locationft.	End Locationft.
58	M83A	Z	0	0	%100
59	M87	X	1.372	1.372	%100
60	M87	Z	0	0	%100
61	M88A	X	0	0	%100
62	M88A	Z	0	0	%100
63	M90	X	0	0	%100
64	M90	Z	0	0	%100
65	M92A	X	1.372	1.372	%100
66	M92A	Z	0	0	%100
67	M82A	X	3.257	3.257	%100
68	M82A	Z	0	0	%100
69	MP3C	X	3.503	3.503	%100
70	MP3C	Z	0	0	%100
71	MP4C	X	3.503	3.503	%100
72	MP4C	Z	0	0	%100
73	MP2C	X	3.503	3.503	%100
74	MP2C	Z	0	0	%100
75	MP1C	X	3.503	3.503	%100
76	MP1C	Z	0	0	%100
77	M91B	X	3.257	3.257	%100
78	M91B	Z	0	0	%100
79	MP3B	X	3.503	3.503	%100
80	MP3B	Z	0	0	%100
81	MP4B	X	3.503	3.503	%100
82	MP4B	Z	0	0	%100
83	MP2B	X	3.503	3.503	%100
84	MP2B	Z	0	0	%100
85	MP1B	X	3.503	3.503	%100
86	MP1B	Z	0	0	%100
87	M92C	X	4.115	4.115	%100
88	M92C	Z	0	0	%100
89	M94	X	4.115	4.115	%100
90	M94	Z	0	0	%100
91	M96A	X	4.115	4.115	%100
92	M96A	Z	0	0	%100
93	M98A	X	4.115	4.115	%100
94	M98A	Z	0	0	%100
95	M100	X	3.208	3.208	%100
96	M100	Z	0	0	%100
97	M93B	X	4.115	4.115	%100
98	M93B	Z	0	0	%100
99	M95	X	4.115	4.115	%100
100	M95	Z	0	0	%100
101	M97B	X	4.115	4.115	%100
102	M97B	Z	0	0	%100
103	M99B	X	4.115	4.115	%100
104	M99B	Z	0	0	%100
105	M102	X	0	0	%100
106	M102	Z	0	0	%100
107	M107	X	2.907	2.907	%100
108	M107	Z	0	0	%100
109	M112	X	2.907	2.907	%100
110	M112	Z	0	0	%100
111	M123	X	2.543	2.543	%100
112	M123	Z	0	0	%100
113	M124	X	0	0	%100
114	M124	Z	0	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 Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
115	M125	X	2.543	2.543	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	4.724	4.724	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	4.475	4.475	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	4.475	4.475	0	%100
122	M128	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	.94	.94	0	%100
2	M1	Z	.543	.543	0	%100
3	M4	X	2.847	2.847	0	%100
4	M4	Z	1.644	1.644	0	%100
5	M10	X	.729	.729	0	%100
6	M10	Z	.421	.421	0	%100
7	MP3A	X	3.034	3.034	0	%100
8	MP3A	Z	1.752	1.752	0	%100
9	MP4A	X	3.034	3.034	0	%100
10	MP4A	Z	1.752	1.752	0	%100
11	MP2A	X	3.034	3.034	0	%100
12	MP2A	Z	1.752	1.752	0	%100
13	MP1A	X	3.034	3.034	0	%100
14	MP1A	Z	1.752	1.752	0	%100
15	M43	X	.729	.729	0	%100
16	M43	Z	.421	.421	0	%100
17	M46	X	1.207	1.207	0	%100
18	M46	Z	.697	.697	0	%100
19	M51B	X	.889	.889	0	%100
20	M51B	Z	.513	.513	0	%100
21	M52B	X	3.555	3.555	0	%100
22	M52B	Z	2.053	2.053	0	%100
23	M76	X	3.563	3.563	0	%100
24	M76	Z	2.057	2.057	0	%100
25	M84	X	3.563	3.563	0	%100
26	M84	Z	2.057	2.057	0	%100
27	M52A	X	2.847	2.847	0	%100
28	M52A	Z	1.644	1.644	0	%100
29	M53	X	.729	.729	0	%100
30	M53	Z	.421	.421	0	%100
31	M54	X	.729	.729	0	%100
32	M54	Z	.421	.421	0	%100
33	M55	X	1.207	1.207	0	%100
34	M55	Z	.697	.697	0	%100
35	M58A	X	3.555	3.555	0	%100
36	M58A	Z	2.053	2.053	0	%100
37	M59A	X	.889	.889	0	%100
38	M59A	Z	.513	.513	0	%100
39	M63	X	3.563	3.563	0	%100
40	M63	Z	2.057	2.057	0	%100
41	M68	X	3.563	3.563	0	%100
42	M68	Z	2.057	2.057	0	%100
43	M69	X	1.188	1.188	0	%100
44	M69	Z	.686	.686	0	%100
45	M71	X	1.188	1.188	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft.F,ksfl	End Magnitude lb/ft.F,ksfl	Start Locationff..	End Locationff..
46	M71	Z	.686	.686	0	%100
47	M76A	X	0	0	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	2.914	2.914	0	%100
50	M77A	Z	1.682	1.682	0	%100
51	M78	X	2.914	2.914	0	%100
52	M78	Z	1.682	1.682	0	%100
53	M79A	X	4.83	4.83	0	%100
54	M79A	Z	2.789	2.789	0	%100
55	M82	X	.889	.889	0	%100
56	M82	Z	.513	.513	0	%100
57	M83A	X	.889	.889	0	%100
58	M83A	Z	.513	.513	0	%100
59	M87	X	0	0	0	%100
60	M87	Z	0	0	0	%100
61	M88A	X	1.188	1.188	0	%100
62	M88A	Z	.686	.686	0	%100
63	M90	X	1.188	1.188	0	%100
64	M90	Z	.686	.686	0	%100
65	M92A	X	0	0	0	%100
66	M92A	Z	0	0	0	%100
67	M82A	X	.94	.94	0	%100
68	M82A	Z	.543	.543	0	%100
69	MP3C	X	3.034	3.034	0	%100
70	MP3C	Z	1.752	1.752	0	%100
71	MP4C	X	3.034	3.034	0	%100
72	MP4C	Z	1.752	1.752	0	%100
73	MP2C	X	3.034	3.034	0	%100
74	MP2C	Z	1.752	1.752	0	%100
75	MP1C	X	3.034	3.034	0	%100
76	MP1C	Z	1.752	1.752	0	%100
77	M91B	X	3.761	3.761	0	%100
78	M91B	Z	2.171	2.171	0	%100
79	MP3B	X	3.034	3.034	0	%100
80	MP3B	Z	1.752	1.752	0	%100
81	MP4B	X	3.034	3.034	0	%100
82	MP4B	Z	1.752	1.752	0	%100
83	MP2B	X	3.034	3.034	0	%100
84	MP2B	Z	1.752	1.752	0	%100
85	MP1B	X	3.034	3.034	0	%100
86	MP1B	Z	1.752	1.752	0	%100
87	M92C	X	1.188	1.188	0	%100
88	M92C	Z	.686	.686	0	%100
89	M94	X	1.188	1.188	0	%100
90	M94	Z	.686	.686	0	%100
91	M96A	X	4.751	4.751	0	%100
92	M96A	Z	2.743	2.743	0	%100
93	M98A	X	4.751	4.751	0	%100
94	M98A	Z	2.743	2.743	0	%100
95	M100	X	2.778	2.778	0	%100
96	M100	Z	1.604	1.604	0	%100
97	M93B	X	1.188	1.188	0	%100
98	M93B	Z	.686	.686	0	%100
99	M95	X	1.188	1.188	0	%100
100	M95	Z	.686	.686	0	%100
101	M97B	X	4.751	4.751	0	%100
102	M97B	Z	2.743	2.743	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
103	M99B	X	4.751	4.751	0	%100
104	M99B	Z	2.743	2.743	0	%100
105	M102	X	.839	.839	0	%100
106	M102	Z	.485	.485	0	%100
107	M107	X	.839	.839	0	%100
108	M107	Z	.485	.485	0	%100
109	M112	X	3.357	3.357	0	%100
110	M112	Z	1.938	1.938	0	%100
111	M123	X	.734	.734	0	%100
112	M123	Z	.424	.424	0	%100
113	M124	X	.734	.734	0	%100
114	M124	Z	.424	.424	0	%100
115	M125	X	2.936	2.936	0	%100
116	M125	Z	1.695	1.695	0	%100
117	M126	X	4.019	4.019	0	%100
118	M126	Z	2.321	2.321	0	%100
119	M127	X	4.019	4.019	0	%100
120	M127	Z	2.321	2.321	0	%100
121	M128	X	3.803	3.803	0	%100
122	M128	Z	2.196	2.196	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	1.628	1.628	0	%100
2	M1	Z	2.821	2.821	0	%100
3	M4	X	.548	.548	0	%100
4	M4	Z	.949	.949	0	%100
5	M10	X	1.262	1.262	0	%100
6	M10	Z	2.186	2.186	0	%100
7	MP3A	X	1.752	1.752	0	%100
8	MP3A	Z	3.034	3.034	0	%100
9	MP4A	X	1.752	1.752	0	%100
10	MP4A	Z	3.034	3.034	0	%100
11	MP2A	X	1.752	1.752	0	%100
12	MP2A	Z	3.034	3.034	0	%100
13	MP1A	X	1.752	1.752	0	%100
14	MP1A	Z	3.034	3.034	0	%100
15	M43	X	1.262	1.262	0	%100
16	M43	Z	2.186	2.186	0	%100
17	M46	X	2.091	2.091	0	%100
18	M46	Z	3.622	3.622	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	1.54	1.54	0	%100
22	M52B	Z	2.667	2.667	0	%100
23	M76	X	.686	.686	0	%100
24	M76	Z	1.188	1.188	0	%100
25	M84	X	.686	.686	0	%100
26	M84	Z	1.188	1.188	0	%100
27	M52A	X	2.192	2.192	0	%100
28	M52A	Z	3.796	3.796	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100



Company :  
 Designer :  
 Job Number :  
 Model Name :

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

Member Label	Direction	Start Magnitude(lb/ft.F,ksfl)	End Magnitude(lb/ft.F,ksfl)	Start Locationft.	End Locationft.
34	M55	Z	0	0	%100
35	M58A	X	1.54	1.54	%100
36	M58A	Z	2.667	2.667	%100
37	M59A	X	1.54	1.54	%100
38	M59A	Z	2.667	2.667	%100
39	M63	X	2.743	2.743	%100
40	M63	Z	4.751	4.751	%100
41	M68	X	2.743	2.743	%100
42	M68	Z	4.751	4.751	%100
43	M69	X	2.057	2.057	%100
44	M69	Z	3.563	3.563	%100
45	M71	X	2.057	2.057	%100
46	M71	Z	3.563	3.563	%100
47	M76A	X	.548	.548	%100
48	M76A	Z	.949	.949	%100
49	M77A	X	1.262	1.262	%100
50	M77A	Z	2.186	2.186	%100
51	M78	X	1.262	1.262	%100
52	M78	Z	2.186	2.186	%100
53	M79A	X	2.091	2.091	%100
54	M79A	Z	3.622	3.622	%100
55	M82	X	1.54	1.54	%100
56	M82	Z	2.667	2.667	%100
57	M83A	X	0	0	%100
58	M83A	Z	0	0	%100
59	M87	X	.686	.686	%100
60	M87	Z	1.188	1.188	%100
61	M88A	X	2.057	2.057	%100
62	M88A	Z	3.563	3.563	%100
63	M90	X	2.057	2.057	%100
64	M90	Z	3.563	3.563	%100
65	M92A	X	.686	.686	%100
66	M92A	Z	1.188	1.188	%100
67	M82A	X	0	0	%100
68	M82A	Z	0	0	%100
69	MP3C	X	1.752	1.752	%100
70	MP3C	Z	3.034	3.034	%100
71	MP4C	X	1.752	1.752	%100
72	MP4C	Z	3.034	3.034	%100
73	MP2C	X	1.752	1.752	%100
74	MP2C	Z	3.034	3.034	%100
75	MP1C	X	1.752	1.752	%100
76	MP1C	Z	3.034	3.034	%100
77	M91B	X	1.628	1.628	%100
78	M91B	Z	2.821	2.821	%100
79	MP3B	X	1.752	1.752	%100
80	MP3B	Z	3.034	3.034	%100
81	MP4B	X	1.752	1.752	%100
82	MP4B	Z	3.034	3.034	%100
83	MP2B	X	1.752	1.752	%100
84	MP2B	Z	3.034	3.034	%100
85	MP1B	X	1.752	1.752	%100
86	MP1B	Z	3.034	3.034	%100
87	M92C	X	0	0	%100
88	M92C	Z	0	0	%100
89	M94	X	0	0	%100
90	M94	Z	0	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft..	End Locationft..
91	M96A	X	2.057	2.057	0	%100
92	M96A	Z	3.563	3.563	0	%100
93	M98A	X	2.057	2.057	0	%100
94	M98A	Z	3.563	3.563	0	%100
95	M100	X	1.604	1.604	0	%100
96	M100	Z	2.778	2.778	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	0	0	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	0	0	0	%100
101	M97B	X	2.057	2.057	0	%100
102	M97B	Z	3.563	3.563	0	%100
103	M99B	X	2.057	2.057	0	%100
104	M99B	Z	3.563	3.563	0	%100
105	M102	X	1.454	1.454	0	%100
106	M102	Z	2.518	2.518	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	1.454	1.454	0	%100
110	M112	Z	2.518	2.518	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	1.271	1.271	0	%100
114	M124	Z	2.202	2.202	0	%100
115	M125	X	1.271	1.271	0	%100
116	M125	Z	2.202	2.202	0	%100
117	M126	X	2.237	2.237	0	%100
118	M126	Z	3.875	3.875	0	%100
119	M127	X	2.362	2.362	0	%100
120	M127	Z	4.091	4.091	0	%100
121	M128	X	2.237	2.237	0	%100
122	M128	Z	3.875	3.875	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationft..	End Locationft..
1	M1	X	0	0	0	%100
2	M1	Z	4.343	4.343	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	3.365	3.365	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	3.503	3.503	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	3.503	3.503	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	3.503	3.503	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	3.503	3.503	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	3.365	3.365	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	5.577	5.577	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	1.026	1.026	0	%100
21	M52B	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude(lb/ft.F.ksfl)	End Magnitude(lb/ft.F.ksfl)	Start Locationft.	End Locationft.
22	M52B	Z	1.026	0	%100
23	M76	X	0	0	%100
24	M76	Z	0	0	%100
25	M84	X	0	0	%100
26	M84	Z	0	0	%100
27	M52A	X	0	0	%100
28	M52A	Z	3.288	0	%100
29	M53	X	0	0	%100
30	M53	Z	.841	0	%100
31	M54	X	0	0	%100
32	M54	Z	.841	0	%100
33	M55	X	0	0	%100
34	M55	Z	1.394	0	%100
35	M58A	X	0	0	%100
36	M58A	Z	1.026	0	%100
37	M59A	X	0	0	%100
38	M59A	Z	4.105	0	%100
39	M63	X	0	0	%100
40	M63	Z	4.115	0	%100
41	M68	X	0	0	%100
42	M68	Z	4.115	0	%100
43	M69	X	0	0	%100
44	M69	Z	5.486	0	%100
45	M71	X	0	0	%100
46	M71	Z	5.486	0	%100
47	M76A	X	0	0	%100
48	M76A	Z	3.288	0	%100
49	M77A	X	0	0	%100
50	M77A	Z	.841	0	%100
51	M78	X	0	0	%100
52	M78	Z	.841	0	%100
53	M79A	X	0	0	%100
54	M79A	Z	1.394	0	%100
55	M82	X	0	0	%100
56	M82	Z	4.105	0	%100
57	M83A	X	0	0	%100
58	M83A	Z	1.026	0	%100
59	M87	X	0	0	%100
60	M87	Z	4.115	0	%100
61	M88A	X	0	0	%100
62	M88A	Z	5.486	0	%100
63	M90	X	0	0	%100
64	M90	Z	5.486	0	%100
65	M92A	X	0	0	%100
66	M92A	Z	4.115	0	%100
67	M82A	X	0	0	%100
68	M82A	Z	1.086	0	%100
69	MP3C	X	0	0	%100
70	MP3C	Z	3.503	0	%100
71	MP4C	X	0	0	%100
72	MP4C	Z	3.503	0	%100
73	MP2C	X	0	0	%100
74	MP2C	Z	3.503	0	%100
75	MP1C	X	0	0	%100
76	MP1C	Z	3.503	0	%100
77	M91B	X	0	0	%100
78	M91B	Z	1.086	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
79	MP3B	X	0	0	0	%100
80	MP3B	Z	3.503	3.503	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	3.503	3.503	0	%100
83	MP2B	X	0	0	0	%100
84	MP2B	Z	3.503	3.503	0	%100
85	MP1B	X	0	0	0	%100
86	MP1B	Z	3.503	3.503	0	%100
87	M92C	X	0	0	0	%100
88	M92C	Z	1.372	1.372	0	%100
89	M94	X	0	0	0	%100
90	M94	Z	1.372	1.372	0	%100
91	M96A	X	0	0	0	%100
92	M96A	Z	1.372	1.372	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	1.372	1.372	0	%100
95	M100	X	0	0	0	%100
96	M100	Z	3.208	3.208	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	1.372	1.372	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	1.372	1.372	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	1.372	1.372	0	%100
103	M99B	X	0	0	0	%100
104	M99B	Z	1.372	1.372	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	3.876	3.876	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	.969	.969	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	.969	.969	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	.848	.848	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	3.39	3.39	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	.848	.848	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	4.392	4.392	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	4.641	4.641	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	4.641	4.641	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
1	M1	X	-1.628	-1.628	0	%100
2	M1	Z	2.821	2.821	0	%100
3	M4	X	-.548	-.548	0	%100
4	M4	Z	.949	.949	0	%100
5	M10	X	-1.262	-1.262	0	%100
6	M10	Z	2.186	2.186	0	%100
7	MP3A	X	-1.752	-1.752	0	%100
8	MP3A	Z	3.034	3.034	0	%100
9	MP4A	X	-1.752	-1.752	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 Magnitude lb./ft.F.ksf	Start Locationft.	End Locationft.
10	MP4A	Z	3.034	3.034	0	%100
11	MP2A	X	-1.752	-1.752	0	%100
12	MP2A	Z	3.034	3.034	0	%100
13	MP1A	X	-1.752	-1.752	0	%100
14	MP1A	Z	3.034	3.034	0	%100
15	M43	X	-1.262	-1.262	0	%100
16	M43	Z	2.186	2.186	0	%100
17	M46	X	-2.091	-2.091	0	%100
18	M46	Z	3.622	3.622	0	%100
19	M51B	X	-1.54	-1.54	0	%100
20	M51B	Z	2.667	2.667	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-0.686	-0.686	0	%100
24	M76	Z	1.188	1.188	0	%100
25	M84	X	-0.686	-0.686	0	%100
26	M84	Z	1.188	1.188	0	%100
27	M52A	X	-0.548	-0.548	0	%100
28	M52A	Z	0.949	0.949	0	%100
29	M53	X	-1.262	-1.262	0	%100
30	M53	Z	2.186	2.186	0	%100
31	M54	X	-1.262	-1.262	0	%100
32	M54	Z	2.186	2.186	0	%100
33	M55	X	-2.091	-2.091	0	%100
34	M55	Z	3.622	3.622	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-1.54	-1.54	0	%100
38	M59A	Z	2.667	2.667	0	%100
39	M63	X	-0.686	-0.686	0	%100
40	M63	Z	1.188	1.188	0	%100
41	M68	X	-0.686	-0.686	0	%100
42	M68	Z	1.188	1.188	0	%100
43	M69	X	-2.057	-2.057	0	%100
44	M69	Z	3.563	3.563	0	%100
45	M71	X	-2.057	-2.057	0	%100
46	M71	Z	3.563	3.563	0	%100
47	M76A	X	-2.192	-2.192	0	%100
48	M76A	Z	3.796	3.796	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	-1.54	-1.54	0	%100
56	M82	Z	2.667	2.667	0	%100
57	M83A	X	-1.54	-1.54	0	%100
58	M83A	Z	2.667	2.667	0	%100
59	M87	X	-2.743	-2.743	0	%100
60	M87	Z	4.751	4.751	0	%100
61	M88A	X	-2.057	-2.057	0	%100
62	M88A	Z	3.563	3.563	0	%100
63	M90	X	-2.057	-2.057	0	%100
64	M90	Z	3.563	3.563	0	%100
65	M92A	X	-2.743	-2.743	0	%100
66	M92A	Z	4.751	4.751	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 Magnitude[lb/ft.F.ksf]	Start Location[f.	End Location[ft.
67	M82A	X	-1.628	-1.628	0	%100
68	M82A	Z	2.821	2.821	0	%100
69	MP3C	X	-1.752	-1.752	0	%100
70	MP3C	Z	3.034	3.034	0	%100
71	MP4C	X	-1.752	-1.752	0	%100
72	MP4C	Z	3.034	3.034	0	%100
73	MP2C	X	-1.752	-1.752	0	%100
74	MP2C	Z	3.034	3.034	0	%100
75	MP1C	X	-1.752	-1.752	0	%100
76	MP1C	Z	3.034	3.034	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP3B	X	-1.752	-1.752	0	%100
80	MP3B	Z	3.034	3.034	0	%100
81	MP4B	X	-1.752	-1.752	0	%100
82	MP4B	Z	3.034	3.034	0	%100
83	MP2B	X	-1.752	-1.752	0	%100
84	MP2B	Z	3.034	3.034	0	%100
85	MP1B	X	-1.752	-1.752	0	%100
86	MP1B	Z	3.034	3.034	0	%100
87	M92C	X	-2.057	-2.057	0	%100
88	M92C	Z	3.563	3.563	0	%100
89	M94	X	-2.057	-2.057	0	%100
90	M94	Z	3.563	3.563	0	%100
91	M96A	X	0	0	0	%100
92	M96A	Z	0	0	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	0	0	0	%100
95	M100	X	-1.604	-1.604	0	%100
96	M100	Z	2.778	2.778	0	%100
97	M93B	X	-2.057	-2.057	0	%100
98	M93B	Z	3.563	3.563	0	%100
99	M95	X	-2.057	-2.057	0	%100
100	M95	Z	3.563	3.563	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	0	0	0	%100
103	M99B	X	0	0	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	-1.454	-1.454	0	%100
106	M102	Z	2.518	2.518	0	%100
107	M107	X	-1.454	-1.454	0	%100
108	M107	Z	2.518	2.518	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	-1.271	-1.271	0	%100
112	M123	Z	2.202	2.202	0	%100
113	M124	X	-1.271	-1.271	0	%100
114	M124	Z	2.202	2.202	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-2.237	-2.237	0	%100
118	M126	Z	3.875	3.875	0	%100
119	M127	X	-2.237	-2.237	0	%100
120	M127	Z	3.875	3.875	0	%100
121	M128	X	-2.362	-2.362	0	%100
122	M128	Z	4.091	4.091	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[f..
1	M1	X	-.94	-.94	0	%100
2	M1	Z	.543	.543	0	%100
3	M4	X	-2.847	-2.847	0	%100
4	M4	Z	1.644	1.644	0	%100
5	M10	X	-.729	-.729	0	%100
6	M10	Z	.421	.421	0	%100
7	MP3A	X	-3.034	-3.034	0	%100
8	MP3A	Z	1.752	1.752	0	%100
9	MP4A	X	-3.034	-3.034	0	%100
10	MP4A	Z	1.752	1.752	0	%100
11	MP2A	X	-3.034	-3.034	0	%100
12	MP2A	Z	1.752	1.752	0	%100
13	MP1A	X	-3.034	-3.034	0	%100
14	MP1A	Z	1.752	1.752	0	%100
15	M43	X	-.729	-.729	0	%100
16	M43	Z	.421	.421	0	%100
17	M46	X	-1.207	-1.207	0	%100
18	M46	Z	.697	.697	0	%100
19	M51B	X	-3.555	-3.555	0	%100
20	M51B	Z	2.053	2.053	0	%100
21	M52B	X	-.889	-.889	0	%100
22	M52B	Z	.513	.513	0	%100
23	M76	X	-3.563	-3.563	0	%100
24	M76	Z	2.057	2.057	0	%100
25	M84	X	-3.563	-3.563	0	%100
26	M84	Z	2.057	2.057	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	-2.914	-2.914	0	%100
30	M53	Z	1.682	1.682	0	%100
31	M54	X	-2.914	-2.914	0	%100
32	M54	Z	1.682	1.682	0	%100
33	M55	X	-4.83	-4.83	0	%100
34	M55	Z	2.789	2.789	0	%100
35	M58A	X	-.889	-.889	0	%100
36	M58A	Z	.513	.513	0	%100
37	M59A	X	-.889	-.889	0	%100
38	M59A	Z	.513	.513	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	-1.188	-1.188	0	%100
44	M69	Z	.686	.686	0	%100
45	M71	X	-1.188	-1.188	0	%100
46	M71	Z	.686	.686	0	%100
47	M76A	X	-2.847	-2.847	0	%100
48	M76A	Z	1.644	1.644	0	%100
49	M77A	X	-.729	-.729	0	%100
50	M77A	Z	.421	.421	0	%100
51	M78	X	-.729	-.729	0	%100
52	M78	Z	.421	.421	0	%100
53	M79A	X	-1.207	-1.207	0	%100
54	M79A	Z	.697	.697	0	%100
55	M82	X	-.889	-.889	0	%100
56	M82	Z	.513	.513	0	%100
57	M83A	X	-3.555	-3.555	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationff..	End Locationff...
58	M83A	Z	2.053	2.053	0 %100
59	M87	X	-3.563	-3.563	0 %100
60	M87	Z	2.057	2.057	0 %100
61	M88A	X	-1.188	-1.188	0 %100
62	M88A	Z	.686	.686	0 %100
63	M90	X	-1.188	-1.188	0 %100
64	M90	Z	.686	.686	0 %100
65	M92A	X	-3.563	-3.563	0 %100
66	M92A	Z	2.057	2.057	0 %100
67	M82A	X	-3.761	-3.761	0 %100
68	M82A	Z	2.171	2.171	0 %100
69	MP3C	X	-3.034	-3.034	0 %100
70	MP3C	Z	1.752	1.752	0 %100
71	MP4C	X	-3.034	-3.034	0 %100
72	MP4C	Z	1.752	1.752	0 %100
73	MP2C	X	-3.034	-3.034	0 %100
74	MP2C	Z	1.752	1.752	0 %100
75	MP1C	X	-3.034	-3.034	0 %100
76	MP1C	Z	1.752	1.752	0 %100
77	M91B	X	-.94	-.94	0 %100
78	M91B	Z	.543	.543	0 %100
79	MP3B	X	-3.034	-3.034	0 %100
80	MP3B	Z	1.752	1.752	0 %100
81	MP4B	X	-3.034	-3.034	0 %100
82	MP4B	Z	1.752	1.752	0 %100
83	MP2B	X	-3.034	-3.034	0 %100
84	MP2B	Z	1.752	1.752	0 %100
85	MP1B	X	-3.034	-3.034	0 %100
86	MP1B	Z	1.752	1.752	0 %100
87	M92C	X	-4.751	-4.751	0 %100
88	M92C	Z	2.743	2.743	0 %100
89	M94	X	-4.751	-4.751	0 %100
90	M94	Z	2.743	2.743	0 %100
91	M96A	X	-1.188	-1.188	0 %100
92	M96A	Z	.686	.686	0 %100
93	M98A	X	-1.188	-1.188	0 %100
94	M98A	Z	.686	.686	0 %100
95	M100	X	-2.778	-2.778	0 %100
96	M100	Z	1.604	1.604	0 %100
97	M93B	X	-4.751	-4.751	0 %100
98	M93B	Z	2.743	2.743	0 %100
99	M95	X	-4.751	-4.751	0 %100
100	M95	Z	2.743	2.743	0 %100
101	M97B	X	-1.188	-1.188	0 %100
102	M97B	Z	.686	.686	0 %100
103	M99B	X	-1.188	-1.188	0 %100
104	M99B	Z	.686	.686	0 %100
105	M102	X	-.839	-.839	0 %100
106	M102	Z	.485	.485	0 %100
107	M107	X	-3.357	-3.357	0 %100
108	M107	Z	1.938	1.938	0 %100
109	M112	X	-.839	-.839	0 %100
110	M112	Z	.485	.485	0 %100
111	M123	X	-2.936	-2.936	0 %100
112	M123	Z	1.695	1.695	0 %100
113	M124	X	-.734	-.734	0 %100
114	M124	Z	.424	.424	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft...
115	M125	X	-.734	-.734	0	%100
116	M125	Z	.424	.424	0	%100
117	M126	X	-4.019	-4.019	0	%100
118	M126	Z	2.321	2.321	0	%100
119	M127	X	-3.803	-3.803	0	%100
120	M127	Z	2.196	2.196	0	%100
121	M128	X	-4.019	-4.019	0	%100
122	M128	Z	2.321	2.321	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[ft...
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-4.384	-4.384	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-3.503	-3.503	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-3.503	-3.503	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-3.503	-3.503	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-3.503	-3.503	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-3.079	-3.079	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-3.079	-3.079	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-5.486	-5.486	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	-5.486	-5.486	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	-1.096	-1.096	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	-2.524	-2.524	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	-2.524	-2.524	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	-4.183	-4.183	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-3.079	-3.079	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-1.372	-1.372	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	-1.372	-1.372	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	0	0	0	%100
45	M71	X	0	0	0	%100





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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationff.	End Locationff.	
46	M71	Z	0	0	%100	
47	M76A	X	-1.096	-1.096	0	%100
48	M76A	Z	0	0	%100	
49	M77A	X	-2.524	-2.524	0	%100
50	M77A	Z	0	0	%100	
51	M78	X	-2.524	-2.524	0	%100
52	M78	Z	0	0	%100	
53	M79A	X	-4.183	-4.183	0	%100
54	M79A	Z	0	0	%100	
55	M82	X	0	0	%100	
56	M82	Z	0	0	%100	
57	M83A	X	-3.079	-3.079	0	%100
58	M83A	Z	0	0	%100	
59	M87	X	-1.372	-1.372	0	%100
60	M87	Z	0	0	%100	
61	M88A	X	0	0	%100	
62	M88A	Z	0	0	%100	
63	M90	X	0	0	%100	
64	M90	Z	0	0	%100	
65	M92A	X	-1.372	-1.372	0	%100
66	M92A	Z	0	0	%100	
67	M82A	X	-3.257	-3.257	0	%100
68	M82A	Z	0	0	%100	
69	MP3C	X	-3.503	-3.503	0	%100
70	MP3C	Z	0	0	%100	
71	MP4C	X	-3.503	-3.503	0	%100
72	MP4C	Z	0	0	%100	
73	MP2C	X	-3.503	-3.503	0	%100
74	MP2C	Z	0	0	%100	
75	MP1C	X	-3.503	-3.503	0	%100
76	MP1C	Z	0	0	%100	
77	M91B	X	-3.257	-3.257	0	%100
78	M91B	Z	0	0	%100	
79	MP3B	X	-3.503	-3.503	0	%100
80	MP3B	Z	0	0	%100	
81	MP4B	X	-3.503	-3.503	0	%100
82	MP4B	Z	0	0	%100	
83	MP2B	X	-3.503	-3.503	0	%100
84	MP2B	Z	0	0	%100	
85	MP1B	X	-3.503	-3.503	0	%100
86	MP1B	Z	0	0	%100	
87	M92C	X	-4.115	-4.115	0	%100
88	M92C	Z	0	0	%100	
89	M94	X	-4.115	-4.115	0	%100
90	M94	Z	0	0	%100	
91	M96A	X	-4.115	-4.115	0	%100
92	M96A	Z	0	0	%100	
93	M98A	X	-4.115	-4.115	0	%100
94	M98A	Z	0	0	%100	
95	M100	X	-3.208	-3.208	0	%100
96	M100	Z	0	0	%100	
97	M93B	X	-4.115	-4.115	0	%100
98	M93B	Z	0	0	%100	
99	M95	X	-4.115	-4.115	0	%100
100	M95	Z	0	0	%100	
101	M97B	X	-4.115	-4.115	0	%100
102	M97B	Z	0	0	%100	



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
103	M99B	X	-4.115	-4.115	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	-2.907	-2.907	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	-2.907	-2.907	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	-2.543	-2.543	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	0	0	0	%100
115	M125	X	-2.543	-2.543	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-4.724	-4.724	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	-4.475	-4.475	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	-4.475	-4.475	0	%100
122	M128	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	-.94	-.94	0	%100
2	M1	Z	-.543	-.543	0	%100
3	M4	X	-2.847	-2.847	0	%100
4	M4	Z	-1.644	-1.644	0	%100
5	M10	X	-.729	-.729	0	%100
6	M10	Z	-.421	-.421	0	%100
7	MP3A	X	-3.034	-3.034	0	%100
8	MP3A	Z	-1.752	-1.752	0	%100
9	MP4A	X	-3.034	-3.034	0	%100
10	MP4A	Z	-1.752	-1.752	0	%100
11	MP2A	X	-3.034	-3.034	0	%100
12	MP2A	Z	-1.752	-1.752	0	%100
13	MP1A	X	-3.034	-3.034	0	%100
14	MP1A	Z	-1.752	-1.752	0	%100
15	M43	X	-.729	-.729	0	%100
16	M43	Z	-.421	-.421	0	%100
17	M46	X	-1.207	-1.207	0	%100
18	M46	Z	-.697	-.697	0	%100
19	M51B	X	-.889	-.889	0	%100
20	M51B	Z	-.513	-.513	0	%100
21	M52B	X	-3.555	-3.555	0	%100
22	M52B	Z	-2.053	-2.053	0	%100
23	M76	X	-3.563	-3.563	0	%100
24	M76	Z	-2.057	-2.057	0	%100
25	M84	X	-3.563	-3.563	0	%100
26	M84	Z	-2.057	-2.057	0	%100
27	M52A	X	-2.847	-2.847	0	%100
28	M52A	Z	-1.644	-1.644	0	%100
29	M53	X	-.729	-.729	0	%100
30	M53	Z	-.421	-.421	0	%100
31	M54	X	-.729	-.729	0	%100
32	M54	Z	-.421	-.421	0	%100
33	M55	X	-1.207	-1.207	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 Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
34	M55	Z	-697	0	%100
35	M58A	X	-3.555	0	%100
36	M58A	Z	-2.053	0	%100
37	M59A	X	-889	0	%100
38	M59A	Z	-513	0	%100
39	M63	X	-3.563	0	%100
40	M63	Z	-2.057	0	%100
41	M68	X	-3.563	0	%100
42	M68	Z	-2.057	0	%100
43	M69	X	-1.188	0	%100
44	M69	Z	-686	0	%100
45	M71	X	-1.188	0	%100
46	M71	Z	-686	0	%100
47	M76A	X	0	0	%100
48	M76A	Z	0	0	%100
49	M77A	X	-2.914	0	%100
50	M77A	Z	-1.682	0	%100
51	M78	X	-2.914	0	%100
52	M78	Z	-1.682	0	%100
53	M79A	X	-4.83	0	%100
54	M79A	Z	-2.789	0	%100
55	M82	X	-889	0	%100
56	M82	Z	-513	0	%100
57	M83A	X	-889	0	%100
58	M83A	Z	-513	0	%100
59	M87	X	0	0	%100
60	M87	Z	0	0	%100
61	M88A	X	-1.188	0	%100
62	M88A	Z	-686	0	%100
63	M90	X	-1.188	0	%100
64	M90	Z	-686	0	%100
65	M92A	X	0	0	%100
66	M92A	Z	0	0	%100
67	M82A	X	-94	0	%100
68	M82A	Z	-543	0	%100
69	MP3C	X	-3.034	0	%100
70	MP3C	Z	-1.752	0	%100
71	MP4C	X	-3.034	0	%100
72	MP4C	Z	-1.752	0	%100
73	MP2C	X	-3.034	0	%100
74	MP2C	Z	-1.752	0	%100
75	MP1C	X	-3.034	0	%100
76	MP1C	Z	-1.752	0	%100
77	M91B	X	-3.761	0	%100
78	M91B	Z	-2.171	0	%100
79	MP3B	X	-3.034	0	%100
80	MP3B	Z	-1.752	0	%100
81	MP4B	X	-3.034	0	%100
82	MP4B	Z	-1.752	0	%100
83	MP2B	X	-3.034	0	%100
84	MP2B	Z	-1.752	0	%100
85	MP1B	X	-3.034	0	%100
86	MP1B	Z	-1.752	0	%100
87	M92C	X	-1.188	0	%100
88	M92C	Z	-686	0	%100
89	M94	X	-1.188	0	%100
90	M94	Z	-686	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 Magnitude[lb/ft.F.ksf]	Start Location[ft..	End Location[ft..
91	M96A	X	-4.751	-4.751	0	%100
92	M96A	Z	-2.743	-2.743	0	%100
93	M98A	X	-4.751	-4.751	0	%100
94	M98A	Z	-2.743	-2.743	0	%100
95	M100	X	-2.778	-2.778	0	%100
96	M100	Z	-1.604	-1.604	0	%100
97	M93B	X	-1.188	-1.188	0	%100
98	M93B	Z	-686	-686	0	%100
99	M95	X	-1.188	-1.188	0	%100
100	M95	Z	-686	-686	0	%100
101	M97B	X	-4.751	-4.751	0	%100
102	M97B	Z	-2.743	-2.743	0	%100
103	M99B	X	-4.751	-4.751	0	%100
104	M99B	Z	-2.743	-2.743	0	%100
105	M102	X	-839	-839	0	%100
106	M102	Z	-485	-485	0	%100
107	M107	X	-839	-839	0	%100
108	M107	Z	-485	-485	0	%100
109	M112	X	-3.357	-3.357	0	%100
110	M112	Z	-1.938	-1.938	0	%100
111	M123	X	-734	-734	0	%100
112	M123	Z	-424	-424	0	%100
113	M124	X	-734	-734	0	%100
114	M124	Z	-424	-424	0	%100
115	M125	X	-2.936	-2.936	0	%100
116	M125	Z	-1.695	-1.695	0	%100
117	M126	X	-4.019	-4.019	0	%100
118	M126	Z	-2.321	-2.321	0	%100
119	M127	X	-4.019	-4.019	0	%100
120	M127	Z	-2.321	-2.321	0	%100
121	M128	X	-3.803	-3.803	0	%100
122	M128	Z	-2.196	-2.196	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft..	End Location[ft..
1	M1	X	-1.628	-1.628	0	%100
2	M1	Z	-2.821	-2.821	0	%100
3	M4	X	-548	-548	0	%100
4	M4	Z	-949	-949	0	%100
5	M10	X	-1.262	-1.262	0	%100
6	M10	Z	-2.186	-2.186	0	%100
7	MP3A	X	-1.752	-1.752	0	%100
8	MP3A	Z	-3.034	-3.034	0	%100
9	MP4A	X	-1.752	-1.752	0	%100
10	MP4A	Z	-3.034	-3.034	0	%100
11	MP2A	X	-1.752	-1.752	0	%100
12	MP2A	Z	-3.034	-3.034	0	%100
13	MP1A	X	-1.752	-1.752	0	%100
14	MP1A	Z	-3.034	-3.034	0	%100
15	M43	X	-1.262	-1.262	0	%100
16	M43	Z	-2.186	-2.186	0	%100
17	M46	X	-2.091	-2.091	0	%100
18	M46	Z	-3.622	-3.622	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-1.54	-1.54	0	%100



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

	Member Label	Direction	Start Magnitude lb/ft.F.ksfl	End Magnitude lb/ft.F.ksfl	Start Locationff.	End Locationff.
22	M52B	Z	-2.667	-2.667	0	%100
23	M76	X	-.686	-.686	0	%100
24	M76	Z	-1.188	-1.188	0	%100
25	M84	X	-.686	-.686	0	%100
26	M84	Z	-1.188	-1.188	0	%100
27	M52A	X	-2.192	-2.192	0	%100
28	M52A	Z	-3.796	-3.796	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-1.54	-1.54	0	%100
36	M58A	Z	-2.667	-2.667	0	%100
37	M59A	X	-1.54	-1.54	0	%100
38	M59A	Z	-2.667	-2.667	0	%100
39	M63	X	-2.743	-2.743	0	%100
40	M63	Z	-4.751	-4.751	0	%100
41	M68	X	-2.743	-2.743	0	%100
42	M68	Z	-4.751	-4.751	0	%100
43	M69	X	-2.057	-2.057	0	%100
44	M69	Z	-3.563	-3.563	0	%100
45	M71	X	-2.057	-2.057	0	%100
46	M71	Z	-3.563	-3.563	0	%100
47	M76A	X	-.548	-.548	0	%100
48	M76A	Z	-.949	-.949	0	%100
49	M77A	X	-1.262	-1.262	0	%100
50	M77A	Z	-2.186	-2.186	0	%100
51	M78	X	-1.262	-1.262	0	%100
52	M78	Z	-2.186	-2.186	0	%100
53	M79A	X	-2.091	-2.091	0	%100
54	M79A	Z	-3.622	-3.622	0	%100
55	M82	X	-1.54	-1.54	0	%100
56	M82	Z	-2.667	-2.667	0	%100
57	M83A	X	0	0	0	%100
58	M83A	Z	0	0	0	%100
59	M87	X	-.686	-.686	0	%100
60	M87	Z	-1.188	-1.188	0	%100
61	M88A	X	-2.057	-2.057	0	%100
62	M88A	Z	-3.563	-3.563	0	%100
63	M90	X	-2.057	-2.057	0	%100
64	M90	Z	-3.563	-3.563	0	%100
65	M92A	X	-.686	-.686	0	%100
66	M92A	Z	-1.188	-1.188	0	%100
67	M82A	X	0	0	0	%100
68	M82A	Z	0	0	0	%100
69	MP3C	X	-1.752	-1.752	0	%100
70	MP3C	Z	-3.034	-3.034	0	%100
71	MP4C	X	-1.752	-1.752	0	%100
72	MP4C	Z	-3.034	-3.034	0	%100
73	MP2C	X	-1.752	-1.752	0	%100
74	MP2C	Z	-3.034	-3.034	0	%100
75	MP1C	X	-1.752	-1.752	0	%100
76	MP1C	Z	-3.034	-3.034	0	%100
77	M91B	X	-1.628	-1.628	0	%100
78	M91B	Z	-2.821	-2.821	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 Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[f...
79	MP3B	X	-1.752	-1.752	0	%100
80	MP3B	Z	-3.034	-3.034	0	%100
81	MP4B	X	-1.752	-1.752	0	%100
82	MP4B	Z	-3.034	-3.034	0	%100
83	MP2B	X	-1.752	-1.752	0	%100
84	MP2B	Z	-3.034	-3.034	0	%100
85	MP1B	X	-1.752	-1.752	0	%100
86	MP1B	Z	-3.034	-3.034	0	%100
87	M92C	X	0	0	0	%100
88	M92C	Z	0	0	0	%100
89	M94	X	0	0	0	%100
90	M94	Z	0	0	0	%100
91	M96A	X	-2.057	-2.057	0	%100
92	M96A	Z	-3.563	-3.563	0	%100
93	M98A	X	-2.057	-2.057	0	%100
94	M98A	Z	-3.563	-3.563	0	%100
95	M100	X	-1.604	-1.604	0	%100
96	M100	Z	-2.778	-2.778	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	0	0	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	0	0	0	%100
101	M97B	X	-2.057	-2.057	0	%100
102	M97B	Z	-3.563	-3.563	0	%100
103	M99B	X	-2.057	-2.057	0	%100
104	M99B	Z	-3.563	-3.563	0	%100
105	M102	X	-1.454	-1.454	0	%100
106	M102	Z	-2.518	-2.518	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	-1.454	-1.454	0	%100
110	M112	Z	-2.518	-2.518	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	-1.271	-1.271	0	%100
114	M124	Z	-2.202	-2.202	0	%100
115	M125	X	-1.271	-1.271	0	%100
116	M125	Z	-2.202	-2.202	0	%100
117	M126	X	-2.237	-2.237	0	%100
118	M126	Z	-3.875	-3.875	0	%100
119	M127	X	-2.362	-2.362	0	%100
120	M127	Z	-4.091	-4.091	0	%100
121	M128	X	-2.237	-2.237	0	%100
122	M128	Z	-3.875	-3.875	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[f..	End Location[f...
1	M1	X	0	0	0	%100
2	M1	Z	-828	-828	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	-735	-735	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-638	-638	0	%100
9	MP4A	X	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Locationff.	End Locationff.
10	MP4A	Z	-.638	-638	0 %100
11	MP2A	X	0	0	0 %100
12	MP2A	Z	-638	-638	0 %100
13	MP1A	X	0	0	0 %100
14	MP1A	Z	-638	-638	0 %100
15	M43	X	0	0	0 %100
16	M43	Z	-735	-735	0 %100
17	M46	X	0	0	0 %100
18	M46	Z	-1.611	-1.611	0 %100
19	M51B	X	0	0	0 %100
20	M51B	Z	-.224	-.224	0 %100
21	M52B	X	0	0	0 %100
22	M52B	Z	-.224	-.224	0 %100
23	M76	X	0	0	0 %100
24	M76	Z	0	0	0 %100
25	M84	X	0	0	0 %100
26	M84	Z	0	0	0 %100
27	M52A	X	0	0	0 %100
28	M52A	Z	-.716	-.716	0 %100
29	M53	X	0	0	0 %100
30	M53	Z	-.184	-.184	0 %100
31	M54	X	0	0	0 %100
32	M54	Z	-.184	-.184	0 %100
33	M55	X	0	0	0 %100
34	M55	Z	-.403	-.403	0 %100
35	M58A	X	0	0	0 %100
36	M58A	Z	-.224	-.224	0 %100
37	M59A	X	0	0	0 %100
38	M59A	Z	-.895	-.895	0 %100
39	M63	X	0	0	0 %100
40	M63	Z	-1.209	-1.209	0 %100
41	M68	X	0	0	0 %100
42	M68	Z	-1.209	-1.209	0 %100
43	M69	X	0	0	0 %100
44	M69	Z	-1.611	-1.611	0 %100
45	M71	X	0	0	0 %100
46	M71	Z	-1.611	-1.611	0 %100
47	M76A	X	0	0	0 %100
48	M76A	Z	-.716	-.716	0 %100
49	M77A	X	0	0	0 %100
50	M77A	Z	-.184	-.184	0 %100
51	M78	X	0	0	0 %100
52	M78	Z	-.184	-.184	0 %100
53	M79A	X	0	0	0 %100
54	M79A	Z	-.403	-.403	0 %100
55	M82	X	0	0	0 %100
56	M82	Z	-.895	-.895	0 %100
57	M83A	X	0	0	0 %100
58	M83A	Z	-.224	-.224	0 %100
59	M87	X	0	0	0 %100
60	M87	Z	-1.209	-1.209	0 %100
61	M88A	X	0	0	0 %100
62	M88A	Z	-1.611	-1.611	0 %100
63	M90	X	0	0	0 %100
64	M90	Z	-1.611	-1.611	0 %100
65	M92A	X	0	0	0 %100
66	M92A	Z	-1.209	-1.209	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft...
67	M82A	X	0	0	0	%100
68	M82A	Z	-.207	-.207	0	%100
69	MP3C	X	0	0	0	%100
70	MP3C	Z	-.638	-.638	0	%100
71	MP4C	X	0	0	0	%100
72	MP4C	Z	-.638	-.638	0	%100
73	MP2C	X	0	0	0	%100
74	MP2C	Z	-.638	-.638	0	%100
75	MP1C	X	0	0	0	%100
76	MP1C	Z	-.638	-.638	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	-.207	-.207	0	%100
79	MP3B	X	0	0	0	%100
80	MP3B	Z	-.638	-.638	0	%100
81	MP4B	X	0	0	0	%100
82	MP4B	Z	-.638	-.638	0	%100
83	MP2B	X	0	0	0	%100
84	MP2B	Z	-.638	-.638	0	%100
85	MP1B	X	0	0	0	%100
86	MP1B	Z	-.638	-.638	0	%100
87	M92C	X	0	0	0	%100
88	M92C	Z	-.403	-.403	0	%100
89	M94	X	0	0	0	%100
90	M94	Z	-.403	-.403	0	%100
91	M96A	X	0	0	0	%100
92	M96A	Z	-.403	-.403	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	-.403	-.403	0	%100
95	M100	X	0	0	0	%100
96	M100	Z	-.581	-.581	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	-.403	-.403	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	-.403	-.403	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	-.403	-.403	0	%100
103	M99B	X	0	0	0	%100
104	M99B	Z	-.403	-.403	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	-.772	-.772	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	-.193	-.193	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	-.193	-.193	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	-.198	-.198	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	-.793	-.793	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	-.198	-.198	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	-1.246	-1.246	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	-1.161	-1.161	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	-1.161	-1.161	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
1	M1	X	.311	.311	0	%100
2	M1	Z	-.538	-.538	0	%100
3	M4	X	.119	.119	0	%100
4	M4	Z	-.207	-.207	0	%100
5	M10	X	.276	.276	0	%100
6	M10	Z	-.477	-.477	0	%100
7	MP3A	X	.319	.319	0	%100
8	MP3A	Z	-.552	-.552	0	%100
9	MP4A	X	.319	.319	0	%100
10	MP4A	Z	-.552	-.552	0	%100
11	MP2A	X	.319	.319	0	%100
12	MP2A	Z	-.552	-.552	0	%100
13	MP1A	X	.319	.319	0	%100
14	MP1A	Z	-.552	-.552	0	%100
15	M43	X	.276	.276	0	%100
16	M43	Z	-.477	-.477	0	%100
17	M46	X	.604	.604	0	%100
18	M46	Z	-1.047	-1.047	0	%100
19	M51B	X	.336	.336	0	%100
20	M51B	Z	-.581	-.581	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	.201	.201	0	%100
24	M76	Z	-.349	-.349	0	%100
25	M84	X	.201	.201	0	%100
26	M84	Z	-.349	-.349	0	%100
27	M52A	X	.119	.119	0	%100
28	M52A	Z	-.207	-.207	0	%100
29	M53	X	.276	.276	0	%100
30	M53	Z	-.477	-.477	0	%100
31	M54	X	.276	.276	0	%100
32	M54	Z	-.477	-.477	0	%100
33	M55	X	.604	.604	0	%100
34	M55	Z	-1.047	-1.047	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	.336	.336	0	%100
38	M59A	Z	-.581	-.581	0	%100
39	M63	X	.201	.201	0	%100
40	M63	Z	-.349	-.349	0	%100
41	M68	X	.201	.201	0	%100
42	M68	Z	-.349	-.349	0	%100
43	M69	X	.604	.604	0	%100
44	M69	Z	-1.047	-1.047	0	%100
45	M71	X	.604	.604	0	%100
46	M71	Z	-1.047	-1.047	0	%100
47	M76A	X	.477	.477	0	%100
48	M76A	Z	-.827	-.827	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	.336	.336	0	%100
56	M82	Z	-.581	-.581	0	%100
57	M83A	X	.336	.336	0	%100



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

Member Label	Direction	Start Magnitude/lb/ft.F.ksf	End Magnitude/lb/ft.F.ksf	Start Location/ft.	End Location/ft.
58	M83A	Z	-.581	0	%100
59	M87	X	.806	0	%100
60	M87	Z	-1.396	0	%100
61	M88A	X	.604	0	%100
62	M88A	Z	-1.047	0	%100
63	M90	X	.604	0	%100
64	M90	Z	-1.047	0	%100
65	M92A	X	.806	0	%100
66	M92A	Z	-1.396	0	%100
67	M82A	X	.311	0	%100
68	M82A	Z	-.538	0	%100
69	MP3C	X	.319	0	%100
70	MP3C	Z	-.552	0	%100
71	MP4C	X	.319	0	%100
72	MP4C	Z	-.552	0	%100
73	MP2C	X	.319	0	%100
74	MP2C	Z	-.552	0	%100
75	MP1C	X	.319	0	%100
76	MP1C	Z	-.552	0	%100
77	M91B	X	0	0	%100
78	M91B	Z	0	0	%100
79	MP3B	X	.319	0	%100
80	MP3B	Z	-.552	0	%100
81	MP4B	X	.319	0	%100
82	MP4B	Z	-.552	0	%100
83	MP2B	X	.319	0	%100
84	MP2B	Z	-.552	0	%100
85	MP1B	X	.319	0	%100
86	MP1B	Z	-.552	0	%100
87	M92C	X	.604	0	%100
88	M92C	Z	-1.047	0	%100
89	M94	X	.604	0	%100
90	M94	Z	-1.047	0	%100
91	M96A	X	0	0	%100
92	M96A	Z	0	0	%100
93	M98A	X	0	0	%100
94	M98A	Z	0	0	%100
95	M100	X	.291	0	%100
96	M100	Z	-.503	0	%100
97	M93B	X	.604	0	%100
98	M93B	Z	-1.047	0	%100
99	M95	X	.604	0	%100
100	M95	Z	-1.047	0	%100
101	M97B	X	0	0	%100
102	M97B	Z	0	0	%100
103	M99B	X	0	0	%100
104	M99B	Z	0	0	%100
105	M102	X	.29	0	%100
106	M102	Z	-.502	0	%100
107	M107	X	.29	0	%100
108	M107	Z	-.502	0	%100
109	M112	X	0	0	%100
110	M112	Z	0	0	%100
111	M123	X	.297	0	%100
112	M123	Z	-.515	0	%100
113	M124	X	.297	0	%100
114	M124	Z	-.515	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
115	M125	X	0	0	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	.609	.609	0	%100
118	M126	Z	-1.055	-1.055	0	%100
119	M127	X	.609	.609	0	%100
120	M127	Z	-1.055	-1.055	0	%100
121	M128	X	.566	.566	0	%100
122	M128	Z	-.981	-.981	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	.179	.179	0	%100
2	M1	Z	-.104	-.104	0	%100
3	M4	X	.62	.62	0	%100
4	M4	Z	-.358	-.358	0	%100
5	M10	X	.159	.159	0	%100
6	M10	Z	-.092	-.092	0	%100
7	MP3A	X	.552	.552	0	%100
8	MP3A	Z	-.319	-.319	0	%100
9	MP4A	X	.552	.552	0	%100
10	MP4A	Z	-.319	-.319	0	%100
11	MP2A	X	.552	.552	0	%100
12	MP2A	Z	-.319	-.319	0	%100
13	MP1A	X	.552	.552	0	%100
14	MP1A	Z	-.319	-.319	0	%100
15	M43	X	.159	.159	0	%100
16	M43	Z	-.092	-.092	0	%100
17	M46	X	.349	.349	0	%100
18	M46	Z	-.201	-.201	0	%100
19	M51B	X	.775	.775	0	%100
20	M51B	Z	-.447	-.447	0	%100
21	M52B	X	.194	.194	0	%100
22	M52B	Z	-.112	-.112	0	%100
23	M76	X	1.047	1.047	0	%100
24	M76	Z	-.604	-.604	0	%100
25	M84	X	1.047	1.047	0	%100
26	M84	Z	-.604	-.604	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	.636	.636	0	%100
30	M53	Z	-.367	-.367	0	%100
31	M54	X	.636	.636	0	%100
32	M54	Z	-.367	-.367	0	%100
33	M55	X	1.396	1.396	0	%100
34	M55	Z	-.806	-.806	0	%100
35	M58A	X	.194	.194	0	%100
36	M58A	Z	-.112	-.112	0	%100
37	M59A	X	.194	.194	0	%100
38	M59A	Z	-.112	-.112	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	.349	.349	0	%100
44	M69	Z	-.201	-.201	0	%100
45	M71	X	.349	.349	0	%100



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

	Member Label	Direction	Start Magnitude/lb/ft.F.ksf	End Magnitude/lb/ft.F.ksf	Start Locationft.	End Locationft.
46	M71	Z	-.201	-.201	0	%100
47	M76A	X	.62	.62	0	%100
48	M76A	Z	-.358	-.358	0	%100
49	M77A	X	.159	.159	0	%100
50	M77A	Z	-.092	-.092	0	%100
51	M78	X	.159	.159	0	%100
52	M78	Z	-.092	-.092	0	%100
53	M79A	X	.349	.349	0	%100
54	M79A	Z	-.201	-.201	0	%100
55	M82	X	.194	.194	0	%100
56	M82	Z	-.112	-.112	0	%100
57	M83A	X	.775	.775	0	%100
58	M83A	Z	-.447	-.447	0	%100
59	M87	X	1.047	1.047	0	%100
60	M87	Z	-.604	-.604	0	%100
61	M88A	X	.349	.349	0	%100
62	M88A	Z	-.201	-.201	0	%100
63	M90	X	.349	.349	0	%100
64	M90	Z	-.201	-.201	0	%100
65	M92A	X	1.047	1.047	0	%100
66	M92A	Z	-.604	-.604	0	%100
67	M82A	X	.717	.717	0	%100
68	M82A	Z	-.414	-.414	0	%100
69	MP3C	X	.552	.552	0	%100
70	MP3C	Z	-.319	-.319	0	%100
71	MP4C	X	.552	.552	0	%100
72	MP4C	Z	-.319	-.319	0	%100
73	MP2C	X	.552	.552	0	%100
74	MP2C	Z	-.319	-.319	0	%100
75	MP1C	X	.552	.552	0	%100
76	MP1C	Z	-.319	-.319	0	%100
77	M91B	X	.179	.179	0	%100
78	M91B	Z	-.104	-.104	0	%100
79	MP3B	X	.552	.552	0	%100
80	MP3B	Z	-.319	-.319	0	%100
81	MP4B	X	.552	.552	0	%100
82	MP4B	Z	-.319	-.319	0	%100
83	MP2B	X	.552	.552	0	%100
84	MP2B	Z	-.319	-.319	0	%100
85	MP1B	X	.552	.552	0	%100
86	MP1B	Z	-.319	-.319	0	%100
87	M92C	X	1.396	1.396	0	%100
88	M92C	Z	-.806	-.806	0	%100
89	M94	X	1.396	1.396	0	%100
90	M94	Z	-.806	-.806	0	%100
91	M96A	X	.349	.349	0	%100
92	M96A	Z	-.201	-.201	0	%100
93	M98A	X	.349	.349	0	%100
94	M98A	Z	-.201	-.201	0	%100
95	M100	X	.503	.503	0	%100
96	M100	Z	-.291	-.291	0	%100
97	M93B	X	1.396	1.396	0	%100
98	M93B	Z	-.806	-.806	0	%100
99	M95	X	1.396	1.396	0	%100
100	M95	Z	-.806	-.806	0	%100
101	M97B	X	.349	.349	0	%100
102	M97B	Z	-.201	-.201	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
103	M99B	X	.349	.349	0	%100
104	M99B	Z	-.201	-.201	0	%100
105	M102	X	.167	.167	0	%100
106	M102	Z	-.097	-.097	0	%100
107	M107	X	.669	.669	0	%100
108	M107	Z	-.386	-.386	0	%100
109	M112	X	.167	.167	0	%100
110	M112	Z	-.097	-.097	0	%100
111	M123	X	.686	.686	0	%100
112	M123	Z	-.396	-.396	0	%100
113	M124	X	.172	.172	0	%100
114	M124	Z	-.099	-.099	0	%100
115	M125	X	.172	.172	0	%100
116	M125	Z	-.099	-.099	0	%100
117	M126	X	1.006	1.006	0	%100
118	M126	Z	-.581	-.581	0	%100
119	M127	X	1.079	1.079	0	%100
120	M127	Z	-.623	-.623	0	%100
121	M128	X	1.006	1.006	0	%100
122	M128	Z	-.581	-.581	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	.955	.955	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	.638	.638	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	.638	.638	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	.638	.638	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	.638	.638	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	.671	.671	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.671	.671	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	1.611	1.611	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	1.611	1.611	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	.239	.239	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	.551	.551	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	.551	.551	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	1.209	1.209	0	%100



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

Member Label	Direction	Start Magnitude lb/ft.F.ksfl	End Magnitude lb/ft.F.ksfl	Start Location ft.	End Location ft.
34	M55	Z	0	0	%100
35	M58A	X	.671	.671	%100
36	M58A	Z	0	0	%100
37	M59A	X	0	0	%100
38	M59A	Z	0	0	%100
39	M63	X	.403	.403	%100
40	M63	Z	0	0	%100
41	M68	X	.403	.403	%100
42	M68	Z	0	0	%100
43	M69	X	0	0	%100
44	M69	Z	0	0	%100
45	M71	X	0	0	%100
46	M71	Z	0	0	%100
47	M76A	X	.239	.239	%100
48	M76A	Z	0	0	%100
49	M77A	X	.551	.551	%100
50	M77A	Z	0	0	%100
51	M78	X	.551	.551	%100
52	M78	Z	0	0	%100
53	M79A	X	1.209	1.209	%100
54	M79A	Z	0	0	%100
55	M82	X	0	0	%100
56	M82	Z	0	0	%100
57	M83A	X	.671	.671	%100
58	M83A	Z	0	0	%100
59	M87	X	.403	.403	%100
60	M87	Z	0	0	%100
61	M88A	X	0	0	%100
62	M88A	Z	0	0	%100
63	M90	X	0	0	%100
64	M90	Z	0	0	%100
65	M92A	X	.403	.403	%100
66	M92A	Z	0	0	%100
67	M82A	X	.621	.621	%100
68	M82A	Z	0	0	%100
69	MP3C	X	.638	.638	%100
70	MP3C	Z	0	0	%100
71	MP4C	X	.638	.638	%100
72	MP4C	Z	0	0	%100
73	MP2C	X	.638	.638	%100
74	MP2C	Z	0	0	%100
75	MP1C	X	.638	.638	%100
76	MP1C	Z	0	0	%100
77	M91B	X	.621	.621	%100
78	M91B	Z	0	0	%100
79	MP3B	X	.638	.638	%100
80	MP3B	Z	0	0	%100
81	MP4B	X	.638	.638	%100
82	MP4B	Z	0	0	%100
83	MP2B	X	.638	.638	%100
84	MP2B	Z	0	0	%100
85	MP1B	X	.638	.638	%100
86	MP1B	Z	0	0	%100
87	M92C	X	1.209	1.209	%100
88	M92C	Z	0	0	%100
89	M94	X	1.209	1.209	%100
90	M94	Z	0	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 Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
91	M96A	X	1.209	1.209	0	%100
92	M96A	Z	0	0	0	%100
93	M98A	X	1.209	1.209	0	%100
94	M98A	Z	0	0	0	%100
95	M100	X	.581	.581	0	%100
96	M100	Z	0	0	0	%100
97	M93B	X	1.209	1.209	0	%100
98	M93B	Z	0	0	0	%100
99	M95	X	1.209	1.209	0	%100
100	M95	Z	0	0	0	%100
101	M97B	X	1.209	1.209	0	%100
102	M97B	Z	0	0	0	%100
103	M99B	X	1.209	1.209	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	0	0	0	%100
106	M102	Z	0	0	0	%100
107	M107	X	.579	.579	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	.579	.579	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	.594	.594	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	0	0	0	%100
114	M124	Z	0	0	0	%100
115	M125	X	.594	.594	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	1.133	1.133	0	%100
118	M126	Z	0	0	0	%100
119	M127	X	1.218	1.218	0	%100
120	M127	Z	0	0	0	%100
121	M128	X	1.218	1.218	0	%100
122	M128	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	.179	.179	0	%100
2	M1	Z	.104	.104	0	%100
3	M4	X	.62	.62	0	%100
4	M4	Z	.358	.358	0	%100
5	M10	X	.159	.159	0	%100
6	M10	Z	.092	.092	0	%100
7	MP3A	X	.552	.552	0	%100
8	MP3A	Z	.319	.319	0	%100
9	MP4A	X	.552	.552	0	%100
10	MP4A	Z	.319	.319	0	%100
11	MP2A	X	.552	.552	0	%100
12	MP2A	Z	.319	.319	0	%100
13	MP1A	X	.552	.552	0	%100
14	MP1A	Z	.319	.319	0	%100
15	M43	X	.159	.159	0	%100
16	M43	Z	.092	.092	0	%100
17	M46	X	.349	.349	0	%100
18	M46	Z	.201	.201	0	%100
19	M51B	X	.194	.194	0	%100
20	M51B	Z	.112	.112	0	%100
21	M52B	X	.775	.775	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft.F,ksf)	End Magnitude(lb/ft.F,ksf)	Start Location(ft)	End Location(ft)
22	M52B	Z	.447	.447	0	%100
23	M76	X	1.047	1.047	0	%100
24	M76	Z	.604	.604	0	%100
25	M84	X	1.047	1.047	0	%100
26	M84	Z	.604	.604	0	%100
27	M52A	X	.62	.62	0	%100
28	M52A	Z	.358	.358	0	%100
29	M53	X	.159	.159	0	%100
30	M53	Z	.092	.092	0	%100
31	M54	X	.159	.159	0	%100
32	M54	Z	.092	.092	0	%100
33	M55	X	.349	.349	0	%100
34	M55	Z	.201	.201	0	%100
35	M58A	X	.775	.775	0	%100
36	M58A	Z	.447	.447	0	%100
37	M59A	X	.194	.194	0	%100
38	M59A	Z	.112	.112	0	%100
39	M63	X	1.047	1.047	0	%100
40	M63	Z	.604	.604	0	%100
41	M68	X	1.047	1.047	0	%100
42	M68	Z	.604	.604	0	%100
43	M69	X	.349	.349	0	%100
44	M69	Z	.201	.201	0	%100
45	M71	X	.349	.349	0	%100
46	M71	Z	.201	.201	0	%100
47	M76A	X	0	0	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	.636	.636	0	%100
50	M77A	Z	.367	.367	0	%100
51	M78	X	.636	.636	0	%100
52	M78	Z	.367	.367	0	%100
53	M79A	X	1.396	1.396	0	%100
54	M79A	Z	.806	.806	0	%100
55	M82	X	.194	.194	0	%100
56	M82	Z	.112	.112	0	%100
57	M83A	X	.194	.194	0	%100
58	M83A	Z	.112	.112	0	%100
59	M87	X	0	0	0	%100
60	M87	Z	0	0	0	%100
61	M88A	X	.349	.349	0	%100
62	M88A	Z	.201	.201	0	%100
63	M90	X	.349	.349	0	%100
64	M90	Z	.201	.201	0	%100
65	M92A	X	0	0	0	%100
66	M92A	Z	0	0	0	%100
67	M82A	X	.179	.179	0	%100
68	M82A	Z	.104	.104	0	%100
69	MP3C	X	.552	.552	0	%100
70	MP3C	Z	.319	.319	0	%100
71	MP4C	X	.552	.552	0	%100
72	MP4C	Z	.319	.319	0	%100
73	MP2C	X	.552	.552	0	%100
74	MP2C	Z	.319	.319	0	%100
75	MP1C	X	.552	.552	0	%100
76	MP1C	Z	.319	.319	0	%100
77	M91B	X	.717	.717	0	%100
78	M91B	Z	.414	.414	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft..	End Location[ft..
79	MP3B	X	.552	.552	0	%100
80	MP3B	Z	.319	.319	0	%100
81	MP4B	X	.552	.552	0	%100
82	MP4B	Z	.319	.319	0	%100
83	MP2B	X	.552	.552	0	%100
84	MP2B	Z	.319	.319	0	%100
85	MP1B	X	.552	.552	0	%100
86	MP1B	Z	.319	.319	0	%100
87	M92C	X	.349	.349	0	%100
88	M92C	Z	.201	.201	0	%100
89	M94	X	.349	.349	0	%100
90	M94	Z	.201	.201	0	%100
91	M96A	X	1.396	1.396	0	%100
92	M96A	Z	.806	.806	0	%100
93	M98A	X	1.396	1.396	0	%100
94	M98A	Z	.806	.806	0	%100
95	M100	X	.503	.503	0	%100
96	M100	Z	.291	.291	0	%100
97	M93B	X	.349	.349	0	%100
98	M93B	Z	.201	.201	0	%100
99	M95	X	.349	.349	0	%100
100	M95	Z	.201	.201	0	%100
101	M97B	X	1.396	1.396	0	%100
102	M97B	Z	.806	.806	0	%100
103	M99B	X	1.396	1.396	0	%100
104	M99B	Z	.806	.806	0	%100
105	M102	X	.167	.167	0	%100
106	M102	Z	.097	.097	0	%100
107	M107	X	.167	.167	0	%100
108	M107	Z	.097	.097	0	%100
109	M112	X	.669	.669	0	%100
110	M112	Z	.386	.386	0	%100
111	M123	X	.172	.172	0	%100
112	M123	Z	.099	.099	0	%100
113	M124	X	.172	.172	0	%100
114	M124	Z	.099	.099	0	%100
115	M125	X	.686	.686	0	%100
116	M125	Z	.396	.396	0	%100
117	M126	X	1.006	1.006	0	%100
118	M126	Z	.581	.581	0	%100
119	M127	X	1.006	1.006	0	%100
120	M127	Z	.581	.581	0	%100
121	M128	X	1.079	1.079	0	%100
122	M128	Z	.623	.623	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft..	End Location[ft..
1	M1	X	.311	.311	0	%100
2	M1	Z	.538	.538	0	%100
3	M4	X	.119	.119	0	%100
4	M4	Z	.207	.207	0	%100
5	M10	X	.276	.276	0	%100
6	M10	Z	.477	.477	0	%100
7	MP3A	X	.319	.319	0	%100
8	MP3A	Z	.552	.552	0	%100
9	MP4A	X	.319	.319	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft.F.ksf)	End Magnitude(lb/ft.F.ksf)	Start Location(ft.)	End Location(ft.)
10	MP4A	Z	.552	.552	0	%100
11	MP2A	X	.319	.319	0	%100
12	MP2A	Z	.552	.552	0	%100
13	MP1A	X	.319	.319	0	%100
14	MP1A	Z	.552	.552	0	%100
15	M43	X	.276	.276	0	%100
16	M43	Z	.477	.477	0	%100
17	M46	X	.604	.604	0	%100
18	M46	Z	1.047	1.047	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	.336	.336	0	%100
22	M52B	Z	.581	.581	0	%100
23	M76	X	.201	.201	0	%100
24	M76	Z	.349	.349	0	%100
25	M84	X	.201	.201	0	%100
26	M84	Z	.349	.349	0	%100
27	M52A	X	.477	.477	0	%100
28	M52A	Z	.827	.827	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	.336	.336	0	%100
36	M58A	Z	.581	.581	0	%100
37	M59A	X	.336	.336	0	%100
38	M59A	Z	.581	.581	0	%100
39	M63	X	.806	.806	0	%100
40	M63	Z	1.396	1.396	0	%100
41	M68	X	.806	.806	0	%100
42	M68	Z	1.396	1.396	0	%100
43	M69	X	.604	.604	0	%100
44	M69	Z	1.047	1.047	0	%100
45	M71	X	.604	.604	0	%100
46	M71	Z	1.047	1.047	0	%100
47	M76A	X	.119	.119	0	%100
48	M76A	Z	.207	.207	0	%100
49	M77A	X	.276	.276	0	%100
50	M77A	Z	.477	.477	0	%100
51	M78	X	.276	.276	0	%100
52	M78	Z	.477	.477	0	%100
53	M79A	X	.604	.604	0	%100
54	M79A	Z	1.047	1.047	0	%100
55	M82	X	.336	.336	0	%100
56	M82	Z	.581	.581	0	%100
57	M83A	X	0	0	0	%100
58	M83A	Z	0	0	0	%100
59	M87	X	.201	.201	0	%100
60	M87	Z	.349	.349	0	%100
61	M88A	X	.604	.604	0	%100
62	M88A	Z	1.047	1.047	0	%100
63	M90	X	.604	.604	0	%100
64	M90	Z	1.047	1.047	0	%100
65	M92A	X	.201	.201	0	%100
66	M92A	Z	.349	.349	0	%100



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 Model Name :

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Locationff.	End Locationff.
67	M82A	X	0	0	0	%100
68	M82A	Z	0	0	0	%100
69	MP3C	X	.319	.319	0	%100
70	MP3C	Z	.552	.552	0	%100
71	MP4C	X	.319	.319	0	%100
72	MP4C	Z	.552	.552	0	%100
73	MP2C	X	.319	.319	0	%100
74	MP2C	Z	.552	.552	0	%100
75	MP1C	X	.319	.319	0	%100
76	MP1C	Z	.552	.552	0	%100
77	M91B	X	.311	.311	0	%100
78	M91B	Z	.538	.538	0	%100
79	MP3B	X	.319	.319	0	%100
80	MP3B	Z	.552	.552	0	%100
81	MP4B	X	.319	.319	0	%100
82	MP4B	Z	.552	.552	0	%100
83	MP2B	X	.319	.319	0	%100
84	MP2B	Z	.552	.552	0	%100
85	MP1B	X	.319	.319	0	%100
86	MP1B	Z	.552	.552	0	%100
87	M92C	X	0	0	0	%100
88	M92C	Z	0	0	0	%100
89	M94	X	0	0	0	%100
90	M94	Z	0	0	0	%100
91	M96A	X	.604	.604	0	%100
92	M96A	Z	1.047	1.047	0	%100
93	M98A	X	.604	.604	0	%100
94	M98A	Z	1.047	1.047	0	%100
95	M100	X	.291	.291	0	%100
96	M100	Z	.503	.503	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	0	0	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	0	0	0	%100
101	M97B	X	.604	.604	0	%100
102	M97B	Z	1.047	1.047	0	%100
103	M99B	X	.604	.604	0	%100
104	M99B	Z	1.047	1.047	0	%100
105	M102	X	.29	.29	0	%100
106	M102	Z	.502	.502	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	.29	.29	0	%100
110	M112	Z	.502	.502	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	.297	.297	0	%100
114	M124	Z	.515	.515	0	%100
115	M125	X	.297	.297	0	%100
116	M125	Z	.515	.515	0	%100
117	M126	X	.609	.609	0	%100
118	M126	Z	1.055	1.055	0	%100
119	M127	X	.566	.566	0	%100
120	M127	Z	.981	.981	0	%100
121	M128	X	.609	.609	0	%100
122	M128	Z	1.055	1.055	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
1	M1	X	0	0	0	%100
2	M1	Z	.828	.828	0	%100
3	M4	X	0	0	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	.735	.735	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.638	.638	0	%100
9	MP4A	X	0	0	0	%100
10	MP4A	Z	.638	.638	0	%100
11	MP2A	X	0	0	0	%100
12	MP2A	Z	.638	.638	0	%100
13	MP1A	X	0	0	0	%100
14	MP1A	Z	.638	.638	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	.735	.735	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	1.611	1.611	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	.224	.224	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	.224	.224	0	%100
23	M76	X	0	0	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	0	0	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	.716	.716	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	.184	.184	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	.184	.184	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	.403	.403	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	.224	.224	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	.895	.895	0	%100
39	M63	X	0	0	0	%100
40	M63	Z	1.209	1.209	0	%100
41	M68	X	0	0	0	%100
42	M68	Z	1.209	1.209	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	1.611	1.611	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	1.611	1.611	0	%100
47	M76A	X	0	0	0	%100
48	M76A	Z	.716	.716	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	.184	.184	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	.184	.184	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	.403	.403	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	.895	.895	0	%100
57	M83A	X	0	0	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 Magnitude[lb./ft.F,ksf]	Start Locationft.	End Locationft.
58	M83A	Z	.224	.224	0 %100
59	M87	X	0	0	0 %100
60	M87	Z	1.209	1.209	0 %100
61	M88A	X	0	0	0 %100
62	M88A	Z	1.611	1.611	0 %100
63	M90	X	0	0	0 %100
64	M90	Z	1.611	1.611	0 %100
65	M92A	X	0	0	0 %100
66	M92A	Z	1.209	1.209	0 %100
67	M82A	X	0	0	0 %100
68	M82A	Z	.207	.207	0 %100
69	MP3C	X	0	0	0 %100
70	MP3C	Z	.638	.638	0 %100
71	MP4C	X	0	0	0 %100
72	MP4C	Z	.638	.638	0 %100
73	MP2C	X	0	0	0 %100
74	MP2C	Z	.638	.638	0 %100
75	MP1C	X	0	0	0 %100
76	MP1C	Z	.638	.638	0 %100
77	M91B	X	0	0	0 %100
78	M91B	Z	.207	.207	0 %100
79	MP3B	X	0	0	0 %100
80	MP3B	Z	.638	.638	0 %100
81	MP4B	X	0	0	0 %100
82	MP4B	Z	.638	.638	0 %100
83	MP2B	X	0	0	0 %100
84	MP2B	Z	.638	.638	0 %100
85	MP1B	X	0	0	0 %100
86	MP1B	Z	.638	.638	0 %100
87	M92C	X	0	0	0 %100
88	M92C	Z	.403	.403	0 %100
89	M94	X	0	0	0 %100
90	M94	Z	.403	.403	0 %100
91	M96A	X	0	0	0 %100
92	M96A	Z	.403	.403	0 %100
93	M98A	X	0	0	0 %100
94	M98A	Z	.403	.403	0 %100
95	M100	X	0	0	0 %100
96	M100	Z	.581	.581	0 %100
97	M93B	X	0	0	0 %100
98	M93B	Z	.403	.403	0 %100
99	M95	X	0	0	0 %100
100	M95	Z	.403	.403	0 %100
101	M97B	X	0	0	0 %100
102	M97B	Z	.403	.403	0 %100
103	M99B	X	0	0	0 %100
104	M99B	Z	.403	.403	0 %100
105	M102	X	0	0	0 %100
106	M102	Z	.772	.772	0 %100
107	M107	X	0	0	0 %100
108	M107	Z	.193	.193	0 %100
109	M112	X	0	0	0 %100
110	M112	Z	.193	.193	0 %100
111	M123	X	0	0	0 %100
112	M123	Z	.198	.198	0 %100
113	M124	X	0	0	0 %100
114	M124	Z	.793	.793	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 Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
115	M125	X	0	0	0	%100
116	M125	Z	.198	.198	0	%100
117	M126	X	0	0	0	%100
118	M126	Z	1.246	1.246	0	%100
119	M127	X	0	0	0	%100
120	M127	Z	1.161	1.161	0	%100
121	M128	X	0	0	0	%100
122	M128	Z	1.161	1.161	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	-.311	-.311	0	%100
2	M1	Z	.538	.538	0	%100
3	M4	X	-.119	-.119	0	%100
4	M4	Z	.207	.207	0	%100
5	M10	X	-.276	-.276	0	%100
6	M10	Z	.477	.477	0	%100
7	MP3A	X	-.319	-.319	0	%100
8	MP3A	Z	.552	.552	0	%100
9	MP4A	X	-.319	-.319	0	%100
10	MP4A	Z	.552	.552	0	%100
11	MP2A	X	-.319	-.319	0	%100
12	MP2A	Z	.552	.552	0	%100
13	MP1A	X	-.319	-.319	0	%100
14	MP1A	Z	.552	.552	0	%100
15	M43	X	-.276	-.276	0	%100
16	M43	Z	.477	.477	0	%100
17	M46	X	-.604	-.604	0	%100
18	M46	Z	1.047	1.047	0	%100
19	M51B	X	-.336	-.336	0	%100
20	M51B	Z	.581	.581	0	%100
21	M52B	X	0	0	0	%100
22	M52B	Z	0	0	0	%100
23	M76	X	-.201	-.201	0	%100
24	M76	Z	.349	.349	0	%100
25	M84	X	-.201	-.201	0	%100
26	M84	Z	.349	.349	0	%100
27	M52A	X	-.119	-.119	0	%100
28	M52A	Z	.207	.207	0	%100
29	M53	X	-.276	-.276	0	%100
30	M53	Z	.477	.477	0	%100
31	M54	X	-.276	-.276	0	%100
32	M54	Z	.477	.477	0	%100
33	M55	X	-.604	-.604	0	%100
34	M55	Z	1.047	1.047	0	%100
35	M58A	X	0	0	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	-.336	-.336	0	%100
38	M59A	Z	.581	.581	0	%100
39	M63	X	-.201	-.201	0	%100
40	M63	Z	.349	.349	0	%100
41	M68	X	-.201	-.201	0	%100
42	M68	Z	.349	.349	0	%100
43	M69	X	-.604	-.604	0	%100
44	M69	Z	1.047	1.047	0	%100
45	M71	X	-.604	-.604	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 Magnitude[lb/ft.F,ksf]	Start Locationft.	End Locationft.
46	M71	Z	1.047	1.047	0	%100
47	M76A	X	-.477	-.477	0	%100
48	M76A	Z	.827	.827	0	%100
49	M77A	X	0	0	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	0	0	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	0	0	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	-.336	-.336	0	%100
56	M82	Z	.581	.581	0	%100
57	M83A	X	-.336	-.336	0	%100
58	M83A	Z	.581	.581	0	%100
59	M87	X	-.806	-.806	0	%100
60	M87	Z	1.396	1.396	0	%100
61	M88A	X	-.604	-.604	0	%100
62	M88A	Z	1.047	1.047	0	%100
63	M90	X	-.604	-.604	0	%100
64	M90	Z	1.047	1.047	0	%100
65	M92A	X	-.806	-.806	0	%100
66	M92A	Z	1.396	1.396	0	%100
67	M82A	X	-.311	-.311	0	%100
68	M82A	Z	.538	.538	0	%100
69	MP3C	X	-.319	-.319	0	%100
70	MP3C	Z	.552	.552	0	%100
71	MP4C	X	-.319	-.319	0	%100
72	MP4C	Z	.552	.552	0	%100
73	MP2C	X	-.319	-.319	0	%100
74	MP2C	Z	.552	.552	0	%100
75	MP1C	X	-.319	-.319	0	%100
76	MP1C	Z	.552	.552	0	%100
77	M91B	X	0	0	0	%100
78	M91B	Z	0	0	0	%100
79	MP3B	X	-.319	-.319	0	%100
80	MP3B	Z	.552	.552	0	%100
81	MP4B	X	-.319	-.319	0	%100
82	MP4B	Z	.552	.552	0	%100
83	MP2B	X	-.319	-.319	0	%100
84	MP2B	Z	.552	.552	0	%100
85	MP1B	X	-.319	-.319	0	%100
86	MP1B	Z	.552	.552	0	%100
87	M92C	X	-.604	-.604	0	%100
88	M92C	Z	1.047	1.047	0	%100
89	M94	X	-.604	-.604	0	%100
90	M94	Z	1.047	1.047	0	%100
91	M96A	X	0	0	0	%100
92	M96A	Z	0	0	0	%100
93	M98A	X	0	0	0	%100
94	M98A	Z	0	0	0	%100
95	M100	X	-.291	-.291	0	%100
96	M100	Z	.503	.503	0	%100
97	M93B	X	-.604	-.604	0	%100
98	M93B	Z	1.047	1.047	0	%100
99	M95	X	-.604	-.604	0	%100
100	M95	Z	1.047	1.047	0	%100
101	M97B	X	0	0	0	%100
102	M97B	Z	0	0	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 Magnitude[lb/ft.F,ksf]	Start Location[ft.]	End Location[ft.]
103	M99B	X	0	0	0	%100
104	M99B	Z	0	0	0	%100
105	M102	X	-.29	-.29	0	%100
106	M102	Z	.502	.502	0	%100
107	M107	X	-.29	-.29	0	%100
108	M107	Z	.502	.502	0	%100
109	M112	X	0	0	0	%100
110	M112	Z	0	0	0	%100
111	M123	X	-.297	-.297	0	%100
112	M123	Z	.515	.515	0	%100
113	M124	X	-.297	-.297	0	%100
114	M124	Z	.515	.515	0	%100
115	M125	X	0	0	0	%100
116	M125	Z	0	0	0	%100
117	M126	X	-.609	-.609	0	%100
118	M126	Z	1.055	1.055	0	%100
119	M127	X	-.609	-.609	0	%100
120	M127	Z	1.055	1.055	0	%100
121	M128	X	-.566	-.566	0	%100
122	M128	Z	.981	.981	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.]	End Location[ft.]
1	M1	X	-.179	-.179	0	%100
2	M1	Z	.104	.104	0	%100
3	M4	X	-.62	-.62	0	%100
4	M4	Z	.358	.358	0	%100
5	M10	X	-.159	-.159	0	%100
6	M10	Z	.092	.092	0	%100
7	MP3A	X	-.552	-.552	0	%100
8	MP3A	Z	.319	.319	0	%100
9	MP4A	X	-.552	-.552	0	%100
10	MP4A	Z	.319	.319	0	%100
11	MP2A	X	-.552	-.552	0	%100
12	MP2A	Z	.319	.319	0	%100
13	MP1A	X	-.552	-.552	0	%100
14	MP1A	Z	.319	.319	0	%100
15	M43	X	-.159	-.159	0	%100
16	M43	Z	.092	.092	0	%100
17	M46	X	-.349	-.349	0	%100
18	M46	Z	.201	.201	0	%100
19	M51B	X	-.775	-.775	0	%100
20	M51B	Z	.447	.447	0	%100
21	M52B	X	-.194	-.194	0	%100
22	M52B	Z	.112	.112	0	%100
23	M76	X	-1.047	-1.047	0	%100
24	M76	Z	.604	.604	0	%100
25	M84	X	-1.047	-1.047	0	%100
26	M84	Z	.604	.604	0	%100
27	M52A	X	0	0	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	-.636	-.636	0	%100
30	M53	Z	.367	.367	0	%100
31	M54	X	-.636	-.636	0	%100
32	M54	Z	.367	.367	0	%100
33	M55	X	-1.396	-1.396	0	%100





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

Member Label	Direction	Start Magnitude[lb./ft.F.ksfl]	End Magnitude[lb./ft.F.ksfl]	Start Locationft.	End Locationft.
34	M55	Z	.806	.806	0 %100
35	M58A	X	-.194	-.194	0 %100
36	M58A	Z	.112	.112	0 %100
37	M59A	X	-.194	-.194	0 %100
38	M59A	Z	.112	.112	0 %100
39	M63	X	0	0	0 %100
40	M63	Z	0	0	0 %100
41	M68	X	0	0	0 %100
42	M68	Z	0	0	0 %100
43	M69	X	-.349	-.349	0 %100
44	M69	Z	.201	.201	0 %100
45	M71	X	-.349	-.349	0 %100
46	M71	Z	.201	.201	0 %100
47	M76A	X	-.62	-.62	0 %100
48	M76A	Z	.358	.358	0 %100
49	M77A	X	-.159	-.159	0 %100
50	M77A	Z	.092	.092	0 %100
51	M78	X	-.159	-.159	0 %100
52	M78	Z	.092	.092	0 %100
53	M79A	X	-.349	-.349	0 %100
54	M79A	Z	.201	.201	0 %100
55	M82	X	-.194	-.194	0 %100
56	M82	Z	.112	.112	0 %100
57	M83A	X	-.775	-.775	0 %100
58	M83A	Z	.447	.447	0 %100
59	M87	X	-1.047	-1.047	0 %100
60	M87	Z	.604	.604	0 %100
61	M88A	X	-.349	-.349	0 %100
62	M88A	Z	.201	.201	0 %100
63	M90	X	-.349	-.349	0 %100
64	M90	Z	.201	.201	0 %100
65	M92A	X	-1.047	-1.047	0 %100
66	M92A	Z	.604	.604	0 %100
67	M82A	X	-.717	-.717	0 %100
68	M82A	Z	.414	.414	0 %100
69	MP3C	X	-.552	-.552	0 %100
70	MP3C	Z	.319	.319	0 %100
71	MP4C	X	-.552	-.552	0 %100
72	MP4C	Z	.319	.319	0 %100
73	MP2C	X	-.552	-.552	0 %100
74	MP2C	Z	.319	.319	0 %100
75	MP1C	X	-.552	-.552	0 %100
76	MP1C	Z	.319	.319	0 %100
77	M91B	X	-.179	-.179	0 %100
78	M91B	Z	.104	.104	0 %100
79	MP3B	X	-.552	-.552	0 %100
80	MP3B	Z	.319	.319	0 %100
81	MP4B	X	-.552	-.552	0 %100
82	MP4B	Z	.319	.319	0 %100
83	MP2B	X	-.552	-.552	0 %100
84	MP2B	Z	.319	.319	0 %100
85	MP1B	X	-.552	-.552	0 %100
86	MP1B	Z	.319	.319	0 %100
87	M92C	X	-1.396	-1.396	0 %100
88	M92C	Z	.806	.806	0 %100
89	M94	X	-1.396	-1.396	0 %100
90	M94	Z	.806	.806	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
91	M96A	X	-.349	-.349	0	%100
92	M96A	Z	.201	.201	0	%100
93	M98A	X	-.349	-.349	0	%100
94	M98A	Z	.201	.201	0	%100
95	M100	X	-.503	-.503	0	%100
96	M100	Z	.291	.291	0	%100
97	M93B	X	-1.396	-1.396	0	%100
98	M93B	Z	.806	.806	0	%100
99	M95	X	-1.396	-1.396	0	%100
100	M95	Z	.806	.806	0	%100
101	M97B	X	-.349	-.349	0	%100
102	M97B	Z	.201	.201	0	%100
103	M99B	X	-.349	-.349	0	%100
104	M99B	Z	.201	.201	0	%100
105	M102	X	-.167	-.167	0	%100
106	M102	Z	.097	.097	0	%100
107	M107	X	-.669	-.669	0	%100
108	M107	Z	.386	.386	0	%100
109	M112	X	-.167	-.167	0	%100
110	M112	Z	.097	.097	0	%100
111	M123	X	-.686	-.686	0	%100
112	M123	Z	.396	.396	0	%100
113	M124	X	-.172	-.172	0	%100
114	M124	Z	.099	.099	0	%100
115	M125	X	-.172	-.172	0	%100
116	M125	Z	.099	.099	0	%100
117	M126	X	-1.006	-1.006	0	%100
118	M126	Z	.581	.581	0	%100
119	M127	X	-1.079	-1.079	0	%100
120	M127	Z	.623	.623	0	%100
121	M128	X	-1.006	-1.006	0	%100
122	M128	Z	.581	.581	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M4	X	-.955	-.955	0	%100
4	M4	Z	0	0	0	%100
5	M10	X	0	0	0	%100
6	M10	Z	0	0	0	%100
7	MP3A	X	-.638	-.638	0	%100
8	MP3A	Z	0	0	0	%100
9	MP4A	X	-.638	-.638	0	%100
10	MP4A	Z	0	0	0	%100
11	MP2A	X	-.638	-.638	0	%100
12	MP2A	Z	0	0	0	%100
13	MP1A	X	-.638	-.638	0	%100
14	MP1A	Z	0	0	0	%100
15	M43	X	0	0	0	%100
16	M43	Z	0	0	0	%100
17	M46	X	0	0	0	%100
18	M46	Z	0	0	0	%100
19	M51B	X	-.671	-.671	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-.671	-.671	0	%100



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

	Member Label	Direction	Start Magnitude(lb/ft.F,ksf)	End Magnitude(lb/ft.F,ksf)	Start Locationff.	End Locationff.
22	M52B	Z	0	0	0	%100
23	M76	X	-1.611	-1.611	0	%100
24	M76	Z	0	0	0	%100
25	M84	X	-1.611	-1.611	0	%100
26	M84	Z	0	0	0	%100
27	M52A	X	-.239	-.239	0	%100
28	M52A	Z	0	0	0	%100
29	M53	X	-.551	-.551	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	-.551	-.551	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	-1.209	-1.209	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-.671	-.671	0	%100
36	M58A	Z	0	0	0	%100
37	M59A	X	0	0	0	%100
38	M59A	Z	0	0	0	%100
39	M63	X	-.403	-.403	0	%100
40	M63	Z	0	0	0	%100
41	M68	X	-.403	-.403	0	%100
42	M68	Z	0	0	0	%100
43	M69	X	0	0	0	%100
44	M69	Z	0	0	0	%100
45	M71	X	0	0	0	%100
46	M71	Z	0	0	0	%100
47	M76A	X	-.239	-.239	0	%100
48	M76A	Z	0	0	0	%100
49	M77A	X	-.551	-.551	0	%100
50	M77A	Z	0	0	0	%100
51	M78	X	-.551	-.551	0	%100
52	M78	Z	0	0	0	%100
53	M79A	X	-1.209	-1.209	0	%100
54	M79A	Z	0	0	0	%100
55	M82	X	0	0	0	%100
56	M82	Z	0	0	0	%100
57	M83A	X	-.671	-.671	0	%100
58	M83A	Z	0	0	0	%100
59	M87	X	-.403	-.403	0	%100
60	M87	Z	0	0	0	%100
61	M88A	X	0	0	0	%100
62	M88A	Z	0	0	0	%100
63	M90	X	0	0	0	%100
64	M90	Z	0	0	0	%100
65	M92A	X	-.403	-.403	0	%100
66	M92A	Z	0	0	0	%100
67	M82A	X	-.621	-.621	0	%100
68	M82A	Z	0	0	0	%100
69	MP3C	X	-.638	-.638	0	%100
70	MP3C	Z	0	0	0	%100
71	MP4C	X	-.638	-.638	0	%100
72	MP4C	Z	0	0	0	%100
73	MP2C	X	-.638	-.638	0	%100
74	MP2C	Z	0	0	0	%100
75	MP1C	X	-.638	-.638	0	%100
76	MP1C	Z	0	0	0	%100
77	M91B	X	-.621	-.621	0	%100
78	M91B	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
79	MP3B	X	-638	0	%100
80	MP3B	Z	0	0	%100
81	MP4B	X	-638	0	%100
82	MP4B	Z	0	0	%100
83	MP2B	X	-638	0	%100
84	MP2B	Z	0	0	%100
85	MP1B	X	-638	0	%100
86	MP1B	Z	0	0	%100
87	M92C	X	-1.209	0	%100
88	M92C	Z	0	0	%100
89	M94	X	-1.209	0	%100
90	M94	Z	0	0	%100
91	M96A	X	-1.209	0	%100
92	M96A	Z	0	0	%100
93	M98A	X	-1.209	0	%100
94	M98A	Z	0	0	%100
95	M100	X	-581	0	%100
96	M100	Z	0	0	%100
97	M93B	X	-1.209	0	%100
98	M93B	Z	0	0	%100
99	M95	X	-1.209	0	%100
100	M95	Z	0	0	%100
101	M97B	X	-1.209	0	%100
102	M97B	Z	0	0	%100
103	M99B	X	-1.209	0	%100
104	M99B	Z	0	0	%100
105	M102	X	0	0	%100
106	M102	Z	0	0	%100
107	M107	X	-579	0	%100
108	M107	Z	0	0	%100
109	M112	X	-579	0	%100
110	M112	Z	0	0	%100
111	M123	X	-594	0	%100
112	M123	Z	0	0	%100
113	M124	X	0	0	%100
114	M124	Z	0	0	%100
115	M125	X	-594	0	%100
116	M125	Z	0	0	%100
117	M126	X	-1.133	0	%100
118	M126	Z	0	0	%100
119	M127	X	-1.218	0	%100
120	M127	Z	0	0	%100
121	M128	X	-1.218	0	%100
122	M128	Z	0	0	%100

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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[f..	End Location[ft..
1	M1	X	-179	0	%100
2	M1	Z	-104	0	%100
3	M4	X	-62	0	%100
4	M4	Z	-358	0	%100
5	M10	X	-159	0	%100
6	M10	Z	-092	0	%100
7	MP3A	X	-552	0	%100
8	MP3A	Z	-319	0	%100
9	MP4A	X	-552	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,F,ksf]	End Magnitude[lb/ft,F,ksf]	Start Locationft.	End Locationft.
10	MP4A	Z	- .319	- .319	0 %100
11	MP2A	X	- .552	- .552	0 %100
12	MP2A	Z	- .319	- .319	0 %100
13	MP1A	X	- .552	- .552	0 %100
14	MP1A	Z	- .319	- .319	0 %100
15	M43	X	- .159	- .159	0 %100
16	M43	Z	- .092	- .092	0 %100
17	M46	X	- .349	- .349	0 %100
18	M46	Z	- .201	- .201	0 %100
19	M51B	X	- .194	- .194	0 %100
20	M51B	Z	- .112	- .112	0 %100
21	M52B	X	- .775	- .775	0 %100
22	M52B	Z	- .447	- .447	0 %100
23	M76	X	- 1.047	- 1.047	0 %100
24	M76	Z	- .604	- .604	0 %100
25	M84	X	- 1.047	- 1.047	0 %100
26	M84	Z	- .604	- .604	0 %100
27	M52A	X	- .62	- .62	0 %100
28	M52A	Z	- .358	- .358	0 %100
29	M53	X	- .159	- .159	0 %100
30	M53	Z	- .092	- .092	0 %100
31	M54	X	- .159	- .159	0 %100
32	M54	Z	- .092	- .092	0 %100
33	M55	X	- .349	- .349	0 %100
34	M55	Z	- .201	- .201	0 %100
35	M58A	X	- .775	- .775	0 %100
36	M58A	Z	- .447	- .447	0 %100
37	M59A	X	- .194	- .194	0 %100
38	M59A	Z	- .112	- .112	0 %100
39	M63	X	- 1.047	- 1.047	0 %100
40	M63	Z	- .604	- .604	0 %100
41	M68	X	- 1.047	- 1.047	0 %100
42	M68	Z	- .604	- .604	0 %100
43	M69	X	- .349	- .349	0 %100
44	M69	Z	- .201	- .201	0 %100
45	M71	X	- .349	- .349	0 %100
46	M71	Z	- .201	- .201	0 %100
47	M76A	X	0	0	0 %100
48	M76A	Z	0	0	0 %100
49	M77A	X	- .636	- .636	0 %100
50	M77A	Z	- .367	- .367	0 %100
51	M78	X	- .636	- .636	0 %100
52	M78	Z	- .367	- .367	0 %100
53	M79A	X	- 1.396	- 1.396	0 %100
54	M79A	Z	- .806	- .806	0 %100
55	M82	X	- .194	- .194	0 %100
56	M82	Z	- .112	- .112	0 %100
57	M83A	X	- .194	- .194	0 %100
58	M83A	Z	- .112	- .112	0 %100
59	M87	X	0	0	0 %100
60	M87	Z	0	0	0 %100
61	M88A	X	- .349	- .349	0 %100
62	M88A	Z	- .201	- .201	0 %100
63	M90	X	- .349	- .349	0 %100
64	M90	Z	- .201	- .201	0 %100
65	M92A	X	0	0	0 %100
66	M92A	Z	0	0	0 %100



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

Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
67	M82A	X	-179	0	%100
68	M82A	Z	-104	0	%100
69	MP3C	X	-552	0	%100
70	MP3C	Z	-319	0	%100
71	MP4C	X	-552	0	%100
72	MP4C	Z	-319	0	%100
73	MP2C	X	-552	0	%100
74	MP2C	Z	-319	0	%100
75	MP1C	X	-552	0	%100
76	MP1C	Z	-319	0	%100
77	M91B	X	-717	0	%100
78	M91B	Z	-414	0	%100
79	MP3B	X	-552	0	%100
80	MP3B	Z	-319	0	%100
81	MP4B	X	-552	0	%100
82	MP4B	Z	-319	0	%100
83	MP2B	X	-552	0	%100
84	MP2B	Z	-319	0	%100
85	MP1B	X	-552	0	%100
86	MP1B	Z	-319	0	%100
87	M92C	X	-349	0	%100
88	M92C	Z	-201	0	%100
89	M94	X	-349	0	%100
90	M94	Z	-201	0	%100
91	M96A	X	-1,396	0	%100
92	M96A	Z	-806	0	%100
93	M98A	X	-1,396	0	%100
94	M98A	Z	-806	0	%100
95	M100	X	-503	0	%100
96	M100	Z	-291	0	%100
97	M93B	X	-349	0	%100
98	M93B	Z	-201	0	%100
99	M95	X	-349	0	%100
100	M95	Z	-201	0	%100
101	M97B	X	-1,396	0	%100
102	M97B	Z	-806	0	%100
103	M99B	X	-1,396	0	%100
104	M99B	Z	-806	0	%100
105	M102	X	-167	0	%100
106	M102	Z	-097	0	%100
107	M107	X	-167	0	%100
108	M107	Z	-097	0	%100
109	M112	X	-669	0	%100
110	M112	Z	-386	0	%100
111	M123	X	-172	0	%100
112	M123	Z	-099	0	%100
113	M124	X	-172	0	%100
114	M124	Z	-099	0	%100
115	M125	X	-686	0	%100
116	M125	Z	-396	0	%100
117	M126	X	-1,006	0	%100
118	M126	Z	-581	0	%100
119	M127	X	-1,006	0	%100
120	M127	Z	-581	0	%100
121	M128	X	-1,079	0	%100
122	M128	Z	-623	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M1	X	-311	-311	0	%100
2	M1	Z	-538	-538	0	%100
3	M4	X	-119	-119	0	%100
4	M4	Z	-207	-207	0	%100
5	M10	X	-276	-276	0	%100
6	M10	Z	-477	-477	0	%100
7	MP3A	X	-319	-319	0	%100
8	MP3A	Z	-552	-552	0	%100
9	MP4A	X	-319	-319	0	%100
10	MP4A	Z	-552	-552	0	%100
11	MP2A	X	-319	-319	0	%100
12	MP2A	Z	-552	-552	0	%100
13	MP1A	X	-319	-319	0	%100
14	MP1A	Z	-552	-552	0	%100
15	M43	X	-276	-276	0	%100
16	M43	Z	-477	-477	0	%100
17	M46	X	-604	-604	0	%100
18	M46	Z	-1.047	-1.047	0	%100
19	M51B	X	0	0	0	%100
20	M51B	Z	0	0	0	%100
21	M52B	X	-336	-336	0	%100
22	M52B	Z	-581	-581	0	%100
23	M76	X	-201	-201	0	%100
24	M76	Z	-349	-349	0	%100
25	M84	X	-201	-201	0	%100
26	M84	Z	-349	-349	0	%100
27	M52A	X	-477	-477	0	%100
28	M52A	Z	-827	-827	0	%100
29	M53	X	0	0	0	%100
30	M53	Z	0	0	0	%100
31	M54	X	0	0	0	%100
32	M54	Z	0	0	0	%100
33	M55	X	0	0	0	%100
34	M55	Z	0	0	0	%100
35	M58A	X	-336	-336	0	%100
36	M58A	Z	-581	-581	0	%100
37	M59A	X	-336	-336	0	%100
38	M59A	Z	-581	-581	0	%100
39	M63	X	-806	-806	0	%100
40	M63	Z	-1.396	-1.396	0	%100
41	M68	X	-806	-806	0	%100
42	M68	Z	-1.396	-1.396	0	%100
43	M69	X	-604	-604	0	%100
44	M69	Z	-1.047	-1.047	0	%100
45	M71	X	-604	-604	0	%100
46	M71	Z	-1.047	-1.047	0	%100
47	M76A	X	-119	-119	0	%100
48	M76A	Z	-207	-207	0	%100
49	M77A	X	-276	-276	0	%100
50	M77A	Z	-477	-477	0	%100
51	M78	X	-276	-276	0	%100
52	M78	Z	-477	-477	0	%100
53	M79A	X	-604	-604	0	%100
54	M79A	Z	-1.047	-1.047	0	%100
55	M82	X	-336	-336	0	%100
56	M82	Z	-581	-581	0	%100
57	M83A	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.]	End Location[ft.]
58	M83A	Z	0	0	0	%100
59	M87	X	-201	-201	0	%100
60	M87	Z	-349	-349	0	%100
61	M88A	X	-604	-604	0	%100
62	M88A	Z	-1.047	-1.047	0	%100
63	M90	X	-604	-604	0	%100
64	M90	Z	-1.047	-1.047	0	%100
65	M92A	X	-201	-201	0	%100
66	M92A	Z	-349	-349	0	%100
67	M82A	X	0	0	0	%100
68	M82A	Z	0	0	0	%100
69	MP3C	X	-319	-319	0	%100
70	MP3C	Z	-552	-552	0	%100
71	MP4C	X	-319	-319	0	%100
72	MP4C	Z	-552	-552	0	%100
73	MP2C	X	-319	-319	0	%100
74	MP2C	Z	-552	-552	0	%100
75	MP1C	X	-319	-319	0	%100
76	MP1C	Z	-552	-552	0	%100
77	M91B	X	-311	-311	0	%100
78	M91B	Z	-538	-538	0	%100
79	MP3B	X	-319	-319	0	%100
80	MP3B	Z	-552	-552	0	%100
81	MP4B	X	-319	-319	0	%100
82	MP4B	Z	-552	-552	0	%100
83	MP2B	X	-319	-319	0	%100
84	MP2B	Z	-552	-552	0	%100
85	MP1B	X	-319	-319	0	%100
86	MP1B	Z	-552	-552	0	%100
87	M92C	X	0	0	0	%100
88	M92C	Z	0	0	0	%100
89	M94	X	0	0	0	%100
90	M94	Z	0	0	0	%100
91	M96A	X	-604	-604	0	%100
92	M96A	Z	-1.047	-1.047	0	%100
93	M98A	X	-604	-604	0	%100
94	M98A	Z	-1.047	-1.047	0	%100
95	M100	X	-291	-291	0	%100
96	M100	Z	-503	-503	0	%100
97	M93B	X	0	0	0	%100
98	M93B	Z	0	0	0	%100
99	M95	X	0	0	0	%100
100	M95	Z	0	0	0	%100
101	M97B	X	-604	-604	0	%100
102	M97B	Z	-1.047	-1.047	0	%100
103	M99B	X	-604	-604	0	%100
104	M99B	Z	-1.047	-1.047	0	%100
105	M102	X	-29	-29	0	%100
106	M102	Z	-502	-502	0	%100
107	M107	X	0	0	0	%100
108	M107	Z	0	0	0	%100
109	M112	X	-29	-29	0	%100
110	M112	Z	-502	-502	0	%100
111	M123	X	0	0	0	%100
112	M123	Z	0	0	0	%100
113	M124	X	-297	-297	0	%100
114	M124	Z	-515	-515	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
115	M125	X	- .297	- .297	0	%100
116	M125	Z	- .515	- .515	0	%100
117	M126	X	- .609	- .609	0	%100
118	M126	Z	-1.055	-1.055	0	%100
119	M127	X	- .566	- .566	0	%100
120	M127	Z	- .981	- .981	0	%100
121	M128	X	- .609	- .609	0	%100
122	M128	Z	-1.055	-1.055	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M51B	Y	-1.808	-4.259	0	.832
2	M51B	Y	-4.259	-6.771	.832	1.665
3	M51B	Y	-6.771	-7.938	1.665	2.497
4	M51B	Y	-7.938	-6.325	2.497	3.329
5	M51B	Y	-6.325	-3.336	3.329	4.162
6	M52B	Y	-3.33	-6.292	0	.832
7	M52B	Y	-6.292	-7.874	.832	1.665
8	M52B	Y	-7.874	-6.635	1.665	2.497
9	M52B	Y	-6.635	-4.064	2.497	3.329
10	M52B	Y	-4.064	-1.601	3.329	4.162
11	M58A	Y	-1.597	-4.066	0	.832
12	M58A	Y	-4.066	-6.636	.832	1.665
13	M58A	Y	-6.636	-7.874	1.665	2.497
14	M58A	Y	-7.874	-6.293	2.497	3.329
15	M58A	Y	-6.293	-3.33	3.329	4.162
16	M59A	Y	-3.329	-6.32	0	.832
17	M59A	Y	-6.32	-7.943	.832	1.665
18	M59A	Y	-7.943	-6.773	1.665	2.497
19	M59A	Y	-6.773	-4.256	2.497	3.329
20	M59A	Y	-4.256	-1.812	3.329	4.162
21	M82	Y	-1.807	-4.258	0	.832
22	M82	Y	-4.258	-6.771	.832	1.665
23	M82	Y	-6.771	-7.939	1.665	2.497
24	M82	Y	-7.939	-6.325	2.497	3.329
25	M82	Y	-6.325	-3.336	3.329	4.162
26	M83A	Y	-3.33	-6.293	0	.832
27	M83A	Y	-6.293	-7.874	.832	1.665
28	M83A	Y	-7.874	-6.634	1.665	2.497
29	M83A	Y	-6.634	-4.064	2.497	3.329
30	M83A	Y	-4.064	-1.601	3.329	4.162

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M51B	Y	-3.979	-9.37	0	.832
2	M51B	Y	-9.37	-14.895	.832	1.665
3	M51B	Y	-14.895	-17.464	1.665	2.497
4	M51B	Y	-17.464	-13.914	2.497	3.329
5	M51B	Y	-13.914	-7.339	3.329	4.162
6	M52B	Y	-7.325	-13.842	0	.832
7	M52B	Y	-13.842	-17.324	.832	1.665
8	M52B	Y	-17.324	-14.598	1.665	2.497
9	M52B	Y	-14.598	-8.94	2.497	3.329
10	M52B	Y	-8.94	-3.523	3.329	4.162
11	M58A	Y	-3.514	-8.944	0	.832
12	M58A	Y	-8.944	-14.6	.832	1.665



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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
13	M58A	Y	-14.6	-17.322	1.665	2.497
14	M58A	Y	-17.322	-13.844	2.497	3.329
15	M58A	Y	-13.844	-7.326	3.329	4.162
16	M59A	Y	-7.323	-13.905	0	.832
17	M59A	Y	-13.905	-17.474	.832	1.665
18	M59A	Y	-17.474	-14.902	1.665	2.497
19	M59A	Y	-14.902	-9.363	2.497	3.329
20	M59A	Y	-9.363	-3.986	3.329	4.162
21	M82	Y	-3.976	-9.367	0	.832
22	M82	Y	-9.367	-14.896	.832	1.665
23	M82	Y	-14.896	-17.465	1.665	2.497
24	M82	Y	-17.465	-13.915	2.497	3.329
25	M82	Y	-13.915	-7.34	3.329	4.162
26	M83A	Y	-7.325	-13.844	0	.832
27	M83A	Y	-13.844	-17.322	.832	1.665
28	M83A	Y	-17.322	-14.596	1.665	2.497
29	M83A	Y	-14.596	-8.941	2.497	3.329
30	M83A	Y	-8.941	-3.523	3.329	4.162

**Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
1	M58A	Y	-.135	-.345	0	.832
2	M58A	Y	-.345	-.563	.832	1.665
3	M58A	Y	-.563	-.668	1.665	2.497
4	M58A	Y	-.668	-.534	2.497	3.329
5	M58A	Y	-.534	-.282	3.329	4.162
6	M59A	Y	-.282	-.536	0	.832
7	M59A	Y	-.536	-.674	.832	1.665
8	M59A	Y	-.674	-.574	1.665	2.497
9	M59A	Y	-.574	-.361	2.497	3.329
10	M59A	Y	-.361	-.154	3.329	4.162
11	M51B	Y	-.153	-.361	0	.832
12	M51B	Y	-.361	-.574	.832	1.665
13	M51B	Y	-.574	-.673	1.665	2.497
14	M51B	Y	-.673	-.536	2.497	3.329
15	M51B	Y	-.536	-.283	3.329	4.162
16	M52B	Y	-.282	-.534	0	.832
17	M52B	Y	-.534	-.668	.832	1.665
18	M52B	Y	-.668	-.563	1.665	2.497
19	M52B	Y	-.563	-.345	2.497	3.329
20	M52B	Y	-.345	-.136	3.329	4.162
21	M82	Y	-.153	-.361	0	.832
22	M82	Y	-.361	-.574	.832	1.665
23	M82	Y	-.574	-.673	1.665	2.497
24	M82	Y	-.673	-.536	2.497	3.329
25	M82	Y	-.536	-.283	3.329	4.162
26	M83A	Y	-.282	-.534	0	.832
27	M83A	Y	-.534	-.668	.832	1.665
28	M83A	Y	-.668	-.563	1.665	2.497
29	M83A	Y	-.563	-.345	2.497	3.329
30	M83A	Y	-.345	-.136	3.329	4.162

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

	Member Label	Direction	Start Magnitude[lb/ft.F.ksf]	End Magnitude[lb/ft.F.ksf]	Start Location[ft.]	End Location[ft.]
1	M58A	Z	-.339	-.862	0	.832
2	M58A	Z	-.862	-1.407	.832	1.665



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
3	M58A	Z	-1.407	-1.669	1.665	2.497
4	M58A	Z	-1.669	-1.334	2.497	3.329
5	M58A	Z	-1.334	-.706	3.329	4.162
6	M59A	Z	-.706	-1.34	0	.832
7	M59A	Z	-1.34	-1.684	.832	1.665
8	M59A	Z	-1.684	-1.436	1.665	2.497
9	M59A	Z	-1.436	-.902	2.497	3.329
10	M59A	Z	-.902	-.384	3.329	4.162
11	M51B	Z	-.383	-.903	0	.832
12	M51B	Z	-.903	-1.435	.832	1.665
13	M51B	Z	-1.435	-1.683	1.665	2.497
14	M51B	Z	-1.683	-1.341	2.497	3.329
15	M51B	Z	-1.341	-.707	3.329	4.162
16	M52B	Z	-.706	-1.334	0	.832
17	M52B	Z	-1.334	-1.669	.832	1.665
18	M52B	Z	-1.669	-1.406	1.665	2.497
19	M52B	Z	-1.406	-.862	2.497	3.329
20	M52B	Z	-.862	-.339	3.329	4.162
21	M82	Z	-.383	-.903	0	.832
22	M82	Z	-.903	-1.435	.832	1.665
23	M82	Z	-1.435	-1.683	1.665	2.497
24	M82	Z	-1.683	-1.341	2.497	3.329
25	M82	Z	-1.341	-.707	3.329	4.162
26	M83A	Z	-.706	-1.334	0	.832
27	M83A	Z	-1.334	-1.669	.832	1.665
28	M83A	Z	-1.669	-1.406	1.665	2.497
29	M83A	Z	-1.406	-.862	2.497	3.329
30	M83A	Z	-.862	-.339	3.329	4.162

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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft..	End Location[ft..
1	M58A	X	.339	.862	0	.832
2	M58A	X	.862	1.407	.832	1.665
3	M58A	X	1.407	1.669	1.665	2.497
4	M58A	X	1.669	1.334	2.497	3.329
5	M58A	X	1.334	.706	3.329	4.162
6	M59A	X	.706	1.34	0	.832
7	M59A	X	1.34	1.684	.832	1.665
8	M59A	X	1.684	1.436	1.665	2.497
9	M59A	X	1.436	.902	2.497	3.329
10	M59A	X	.902	.384	3.329	4.162
11	M51B	X	.383	.903	0	.832
12	M51B	X	.903	1.435	.832	1.665
13	M51B	X	1.435	1.683	1.665	2.497
14	M51B	X	1.683	1.341	2.497	3.329
15	M51B	X	1.341	.707	3.329	4.162
16	M52B	X	.706	1.334	0	.832
17	M52B	X	1.334	1.669	.832	1.665
18	M52B	X	1.669	1.406	1.665	2.497
19	M52B	X	1.406	.862	2.497	3.329
20	M52B	X	.862	.339	3.329	4.162
21	M82	X	.383	.903	0	.832
22	M82	X	.903	1.435	.832	1.665
23	M82	X	1.435	1.683	1.665	2.497
24	M82	X	1.683	1.341	2.497	3.329
25	M82	X	1.341	.707	3.329	4.162



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

	Member Label	Direction	Start Magnitude[lb/ft.F,ksf]	End Magnitude[lb/ft.F,ksf]	Start Location[ft.]	End Location[ft.]
26	M83A	X	.706	1.334	0	.832
27	M83A	X	1.334	1.669	.832	1.665
28	M83A	X	1.669	1.406	1.665	2.497
29	M83A	X	1.406	.862	2.497	3.329
30	M83A	X	.862	.339	3.329	4.162

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N6	N7	N87B	Y	Two Way	-.005
2	N89	N90	N113	N111	Y	Two Way	-.005
3	N118	N141	N139	N117	Y	Two Way	-.005

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N87C	N6	N7	N87B	Y	Two Way	-.011
2	N89	N90	N113	N111	Y	Two Way	-.011
3	N118	N141	N139	N117	Y	Two Way	-.011

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N113	N111	N89	N90	Y	Two Way	-.000212
2	N7	N87B	N87C	N6	Y	Two Way	-.000212
3	N117	N118	N141	N139	Y	Two Way	-.000212
4	N113	N111	N89	N90	Y	Two Way	-.000212
5	N7	N87B	N87C	N6	Y	Two Way	-.000212
6	N117	N118	N141	N139	Y	Two Way	-.000212
7	N187	N188	N188		Y	Two Way	-.000212
8	N189	N190	N190		Y	Two Way	-.000212
9	N191	N192	N192		Y	Two Way	-.000212

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N113	N111	N89	N90	Z	Two Way	-.00053
2	N7	N87B	N87C	N6	Z	Two Way	-.00053
3	N117	N118	N141	N139	Z	Two Way	-.00053
4	N113	N111	N89	N90	Z	Two Way	-.00053
5	N7	N87B	N87C	N6	Z	Two Way	-.00053
6	N117	N118	N141	N139	Z	Two Way	-.00053
7	N187	N188	N188		Z	Two Way	-.00053
8	N189	N190	N190		Z	Two Way	-.00053
9	N191	N192	N192		Z	Two Way	-.00053

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N113	N111	N89	N90	X	Two Way	.00053
2	N7	N87B	N87C	N6	X	Two Way	.00053
3	N117	N118	N141	N139	X	Two Way	.00053
4	N113	N111	N89	N90	X	Two Way	.00053
5	N7	N87B	N87C	N6	X	Two Way	.00053
6	N117	N118	N141	N139	X	Two Way	.00053
7	N187	N188	N188		X	Two Way	.00053
8	N189	N190	N190		X	Two Way	.00053
9	N191	N192	N192		X	Two Way	.00053



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**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	N3	max	1164.216	10	103.032	7	5511.9	1	-237	7	2.594	4	.285	2
		min	-1140.909	4	-1979.397	13	-2616.754	7	-1.355	13	-2.561	10	-.14	8
3	N87D	max	4509.558	9	27.279	3	1210.31	3	.849	21	2.363	12	1.107	45
		min	-2091.269	3	-2058.935	21	-2635.91	9	-.044	3	-2.333	6	.018	3
5	N115	max	2031.099	11	-3.855	11	1190.159	11	.521	19	2.463	8	.002	11
		min	-4546.351	5	-2110.752	17	-2615.511	5	-.043	1	-2.43	2	-1.351	29
7	N188	max	39.002	10	4434.902	13	-309.804	7	0	75	0	4	0	10
		min	-38.744	4	334.34	7	-3655.466	13	0	1	-.001	10	0	4
9	N190	max	-265.487	3	4332.577	21	1785.049	21	0	6	0	12	0	12
		min	-3091.854	21	330.412	3	153.226	3	0	12	-.001	6	0	6
11	N192	max	3158.641	17	4425.139	17	1823.723	17	0	8	0	8	0	8
		min	305.755	11	386.269	11	176.573	11	0	2	-.001	2	0	2
13	Totals:	max	5303.399	10	6566.58	14	5358.512	1						
		min	-5303.398	4	2183.46	71	-5358.511	7						

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

Member	Shape	Code Check	L	LC	Shear Check	Loc(ft)	Dir	LC	phi*Pn	phi*Pnt	phi*Mn	phi*Mn	Cb	Eqn
1	M1	PIPE 3.0	.124	1	.072	.875	1	30165	65205	5.749	5.749	2	H1-1b	
2	M4	HSS4X4X4	.280	2	.086	2.486	y	24124657	139518	16.181	16.181	1	H1-1b	
3	M10	L2x2x4	.439	2	.633	.223	z	822989	30585.6	.691	1.577	1	H2-1	
4	MP3A	PIPE 2.0	.306	4	.098	4.25	8	20866	32130	1.872	1.872	2	H1-1b	
5	MP4A	PIPE 2.0	.186	4	.070	1	6	20866	32130	1.872	1.872	2	H1-1b	
6	MP2A	PIPE 2.0	.389	4	.058	4.25	3	20866	32130	1.872	1.872	2	H1-1b	
7	MP1A	PIPE 2.0	.318	4	.094	4.25	1	20866	32130	1.872	1.872	2	H1-1b	
8	M43	L2x2x4	.471	0	.535	2.152	z	622989	30585.6	.691	1.577	1	H2-1	
9	M46	PL1/2x6	.366	....	.363	.516	y	2266009	97200	1.012	12.15	1	H1-1b	
10	M51B	L2x2x2	.423	4	.025	0	y	206739.6	15908.4	.403	.671	1	H2-1	
11	M52B	L2x2x2	.386	0	.027	4.162	y	196739.6	15908.4	.403	.671	1	H2-1	
12	M76	PL3/8x6	.075	0	.127	0	y	970647	72900	.57	9.113	1	H1-1b	
13	M84	PL3/8x6	.113	0	.134	0	y	770647	72900	.57	9.113	1	H1-1b	
14	M52A	HSS4X4X4	.273	2	.083	2.486	y	20124657	139518	16.181	16.181	1	H1-1b	
15	M53	L2x2x4	.436	2	.621	.223	z	422989	30585.6	.691	1.577	1	H2-1	
16	M54	L2x2x4	.471	0	.532	2.152	z	222989	30585.6	.691	1.577	1	H2-1	
17	M55	PL1/2x6	.359	....	.355	.516	y	1866009	97200	1.012	12.15	1	H1-1b	
18	M58A	L2x2x2	.412	4	.025	0	y	166739.6	15908.4	.403	.671	1	H2-1	
19	M59A	L2x2x2	.387	0	.027	4.162	y	156739.6	15908.4	.403	.671	1	H2-1	
20	M63	PL3/8x6	.078	0	.122	0	y	570647	72900	.57	9.113	1	H1-1b	
21	M68	PL3/8x6	.106	0	.133	0	y	370647	72900	.57	9.113	1	H1-1b	
22	M69	PL3/8x6	.220	....	.038	0	y	1965052	72900	.57	9.113	1	H1-1b	
23	M71	PL1/2x6	.098	....	.207	0	y	4694492	97200	1.012	12.15	1	H1-1b	
24	M76A	HSS4X4X4	.280	2	.098	2.486	y	28124657	139518	16.181	16.181	1	H1-1b	
25	M77A	L2x2x4	.437	2	.632	.223	z	1222989	30585.6	.691	1.577	1	H2-1	
26	M78	L2x2x4	.476	0	.530	2.152	z	1022989	30585.6	.691	1.577	1	H2-1	
27	M79A	PL1/2x6	.362	....	.365	.516	y	1466009	97200	1.012	12.15	1	H1-1b	
28	M82	L2x2x2	.420	4	.025	0	y	246739.6	15908.4	.403	.671	1	H2-1	
29	M83A	L2x2x2	.383	0	.027	4.162	y	236739.6	15908.4	.403	.671	1	H2-1	
30	M87	PL3/8x6	.079	0	.126	0	y	170647	72900	.57	9.113	1	H1-1b	
31	M88A	PL3/8x6	.257	....	.033	0	y	1765052	72900	.57	8.84	1	H1-1b	
32	M90	PL1/2x6	.125	0	.293	0	y	2894492	97200	1.012	12.15	2	H1-1b	
33	M92A	PL3/8x6	.110	0	.132	0	y	1170647	72900	.57	9.113	1	H1-1b	
34	M82A	PIPE 3.0	.124	1	.072	.875	9	30165	65205	5.749	5.749	2	H1-1b	
35	MP3C	PIPE 2.0	.305	4	.098	4.25	4	20866	32130	1.872	1.872	2	H1-1b	
36	MP4C	PIPE 2.0	.185	4	.070	1	2	20866	32130	1.872	1.872	2	H1-1b	
37	MP2C	PIPE 2.0	.390	4	.059	4.25	11	20866	32130	1.872	1.872	2	H1-1b	



Company :  
 Designer :  
 Job Number :  
 Model Name :

July 6, 2023  
 11:33 AM  
 Checked By: \_\_\_\_\_

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

Member	Shape	Code Check	L...	LC	Shear Check	Locf	Dir	C	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn	
38	MP1C	PIPE 2.0	.319	4..	6	.094	4.25	9	20866...	32130	1.872	1.872	2..	H1-1b	
39	M91B	PIPE 3.0	.123	1	8	.071	.875	5	30165...	65205	5.749	5.749	2..	H1-1b	
40	MP3B	PIPE 2.0	.307	4..	2	.097	4.25	12	20866...	32130	1.872	1.872	2..	H1-1b	
41	MP4B	PIPE 2.0	.186	4..	2	.070	1	10	20866...	32130	1.872	1.872	2..	H1-1b	
42	MP2B	PIPE 2.0	.390	4..	8	.058	4.25	9	20866...	32130	1.872	1.872	2..	H1-1b	
43	MP1B	PIPE 2.0	.315	4..	2	.094	4.25	4	20866...	32130	1.872	1.872	2..	H1-1b	
44	M92C	PL3/8x6	.220	....	10	.039	0	y	15	65052....	72900	.57	9.113	1..	H1-1b
45	M94	PL3/8x6	.259	....	8	.033	0	y	13	65052....	72900	.57	8.852	1..	H1-1b
46	M96A	PL3/8x6	.221	....	6	.038	0	y	21	65052....	72900	.57	9.113	1..	H1-1b
47	M98A	PL3/8x6	.254	....	4	.033	0	y	21	65052....	72900	.57	8.825	1..	H1-1b
48	M100	PIPE 2.0	.196	....	7	.065	.333	4	26521...	32130	1.872	1.872	1	H1-1b	
49	M93B	PL1/2x6	.098	....	5	.146	0	y	6	94492....	97200	1.012	12.15	1..	H1-1b
50	M95	PL1/2x6	.125	0	9	.247	0	y	24	94492....	97200	1.012	12.15	2..	H1-1b
51	M97B	PL1/2x6	.097	....	1	.147	0	y	2	94492....	97200	1.012	12.15	1..	H1-1b
52	M99B	PL1/2x6	.119	0	5	.238	0	y	20	94492....	97200	1.012	12.15	2..	H1-1b
53	M102	PIPE 2.5	.159	1..	7	.066	1.25	6	15797.3	50715	3.596	3.596	1..	H1-1b	
54	M107	PIPE 2.5	.160	1..	3	.067	1.25	2	15797.3	50715	3.596	3.596	1..	H1-1b	
55	M112	PIPE 2.5	.157	1..	12	.065	1.25	10	15797.3	50715	3.596	3.596	1..	H1-1b	
56	M123	L2.5x2.5x4	.413	1..	12	.056	0	y	5	35607....	38556	1.114	2.537	2..	H2-1
57	M124	L2.5x2.5x4	.421	1..	3	.057	0	y	9	35607....	38556	1.114	2.537	2..	H2-1
58	M125	L2.5x2.5x4	.420	1..	7	.058	0	y	1	35607....	38556	1.114	2.537	2..	H2-1
59	M126	LL3x3x3x6	.123	3..	13	.007	3.905	z	10	46600....	70632	6.362	3.751	1	H1-1b*
60	M127	LL3x3x3x6	.120	3..	21	.007	3.905	z	6	46600....	70632	6.362	3.751	1	H1-1b*
61	M128	LL3x3x3x6	.123	3..	17	.007	3.905	z	2	46600....	70632	6.362	3.751	1	H1-1b*

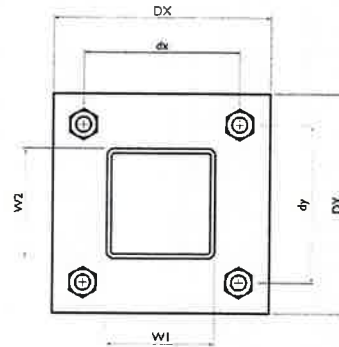
**I. Mount-to-Tower Connection Check**

Custom Orientation Required No

Tower Connection Bolt Checks Yes

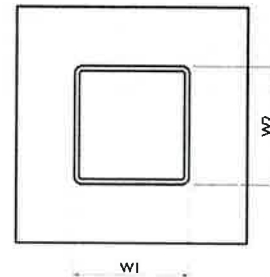
Bolt Orientation Parallel

Bolt Quantity per Reaction:	4
$d_x$ (in) (Delta X of typ. bolt config. sketch):	6.5
$d_y$ (in) (Delta Y of typ. bolt config. sketch):	6.5
Bolt Type:	A325N
Bolt Diameter (in):	0.625
Required Tensile Strength / bolt (kips):	3.4
Required Shear Strength / bolt (kips):	0.4
Tensile Capacity / bolt (kips):	20.7
Shear Capacity / bolt (kips):	12.4
Bolt Overall Utilization:	16.2%



Tower Connection Baseplate Checks Yes

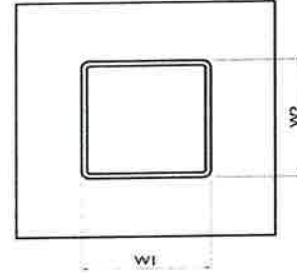
Connecting Standoff Member Shape:	Rect Tube
Weld Stiffener Configuration:	No Stiffeners
Plate Width, $D_x$ (in):	10
Plate Height, $D_y$ (in):	10
$W_1$ (in):	4
$W_2$ (in):	4
Member Thickness (in):	0.25
Stiffener location $a_1$ (in):	
Stiffener location $b_1$ (in):	
Stiffener location $a_2$ (in):	
Stiffener location $b_2$ (in):	
$F_y$ (ksi, plate):	36
Plate Thickness (in):	0.625
Length of Yield Line, $L_y$ (in):	7.04
Bolt Eccentricity, $e$ (in):	2.00
$M_u$ (kip-in):	6.71
$\Phi * M_n$ (kip-in):	22.28
Plate Bending Utilization:	30.1%



Tower Connection Weld Checks

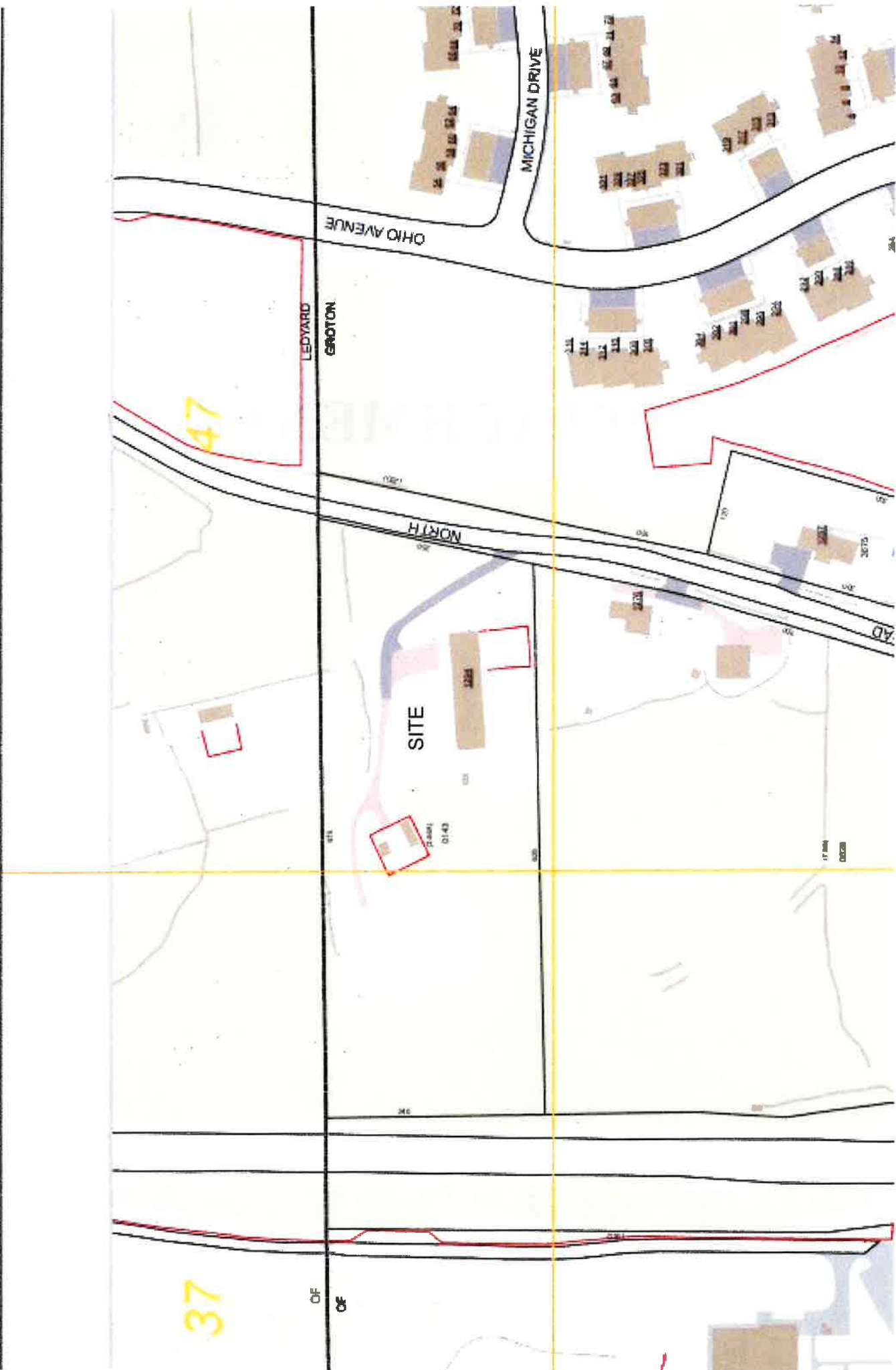
Weld Shape:  
Weld Stiffener Configuration:  
Stiffener Notch Length, n (in):  
Weld Size (1/16 in):  
W1 (in):  
W2 (in):  
Weld Total Length (in):  
 $Z_x$  (in<sup>3</sup>/in):  
 $Z_y$  (in<sup>3</sup>/in):  
 $J_p$  (in<sup>4</sup>/in):  
 $c_x$  (in)  
 $c_y$  (in)  
Required combined strength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

Yes
Rectangle
None
4
4
4
16.00
21.33
21.33
85.33
2.25
2.25
1.29
5.57
23.1%





# **ATTACHMENT 4**



47

NORTH

MICHIGAN DRIVE

OHIO AVENUE

LEDYARD  
GROTON

SITE

0143  
0144

37

OF  
OF



# **ATTACHMENT 5**

---

**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

*[Handwritten signature]*

TOTAL NO.  
 of Pieces Received at Post Office™

*[Handwritten signature]*

Postmaster, per (name of receiving employee)

*[Handwritten signature]*

Affix Stamp Here  
 Postmark with Date of Receipt.



neopost®  
 10/18/2023  
**US POSTAGE \$003.19**  
 ZIP 06103  
 041L12203937

USPS® Tracking Number  
 Firm-specific Identifier

Address  
 (Name, Street, City, State, and ZIP Code™)

	Postage	Fee	Special Handling	Parcel Airlift
1. John Burt, Town Manger Town of Groton 134 Groton Long Point Road Groton, CT 06340				
2. Jonathan Reiner, AICP, Director of Planning Town of Groton 134 Groton Long Point Road Groton, CT 06340				
3. JFM Enterprises LLC c/o Jennifer Seufferling 146 Babcock Road North Stonington, CT 06359				
4.				
5.				
6.				