

August 30, 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  
60 Rice Lane, Beacon Falls, 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 Town of Beacon Falls (“Town”) in December of 1999. Cellco’s shared use of the tower was approved by the Siting Council (“Council”) in August of 2009 (Petition No. 911). A copy of the Town’s tower approval and the Council’s Petition No. 911 Staff Report are included in Attachment 1.

Cellco’s proposed modification involves the installation of six (6) interference mitigation filters (“Filters”) on its 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 Beacon Falls’ Chief Elected Official and Land Use Officer.

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 modification 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.

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 Cellco's new 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 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:

Gerard Smith, First Selectman  
Keith Rosenfeld, Town Planner  
Charles Edwards, Property Owner  
Kamoya Bautista De Leon, Verizon Wireless

# **ATTACHMENT 1**

TOWN OF BEACON FAILS  
Planning & Zoning Commission  
10 Main Street  
Beacon Falls CT 06403

Regular Meeting  
December 16, 1999  
Minutes

DEC 20 1999  
9:40 P.M.  
Laura D. Bala

Subject to Modification - Prior to Approval

I. Call to Order

Chairman Harvey called the Regular Meeting of the Beacon Falls Planning and Zoning Commission to order at 7:30 PM in the Public Meeting Room.

Chairman Harvey received the Regular Meeting at 7:31 PM to continue the Public Hearing,

present: Chairman Mary Harvey, Commissioner Evan Bena, David Moran, Donald Porkins and Lynn Sirowich

Absent: Commissioner David D'Amico, Commissioner Schultz and William Ambrosini.

Chairman Harvey reconvened the Regular Meeting at 7:55 PM

II. Approval of Minutes

November 18, 1999 Public Hearing - Application P-99-86, Frank Kmki  
Correction: Pille I, Commissioner Sirowich - 1101 present at the meeting,

Motion: Commissioner Moran made a motion seconded by Commissioner Perkins to approve as submitted the revised minutes of the November 18, 1999 Public Hearing. All voted in favor and the motion was carried 5-0.

November 18, 1999 Regular Meeting

Correction: Page I, Section II should reflect that the motion was carried 5-0.

Motion: Commissioner Perkins made a motion seconded by Commissioner Betts to approve as submitted the revised minutes of the November 18, 1999 meeting. All voted in favor and the motion was carried 5-0.

III. Correspondence and Payment of Bills

Correspondence and Payment of Bills will be discussed at the January 21, 1999 meeting.

IV. Comments from the Public

There were no comments from the Public.

V. Zoning Enforcement Officer's Report

ZEO Taruciowu not present and therefore no report was submitted.

VI. Town Justice's Report

Beacon Falls

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Town Engineer Swinick ditto butod hit report dated Dec. 16, 1999 and J'Olliewwd activity **penalning** to the Stop & Shop Development

L. Town **Engineer's** Report (Continued)

Motion: Commissioner [Name] made a motion seconded by Commissioner Sirowich to approve and include the Town **Engineer's** Report in the minutes... All voted, in favor, the motion carried 5-0.

JJ. Gravel  
No Activity, no discussion

Madon: Commissioner Perkins, made a motion to add to the **Ordinance** under Old 811 the Sprint Application of H.S. and Douglas Crossley #16. Seconded by Commissioner Btaa.

nn. Old 811

1. Application P-94-30, Hockanum Glen - S11bdvi,ic,n (Monthly Report)  
Noonowa pmem n,prel011ting the applicanc. Town Engineer Sudimick advised that the **Zoning** Commission believed that no. 1. apo. Jenoc to the First Selectman's Office regarding the **acceptance of the road** in Hockanum Glen. Commissioner Marway said she would look into the matter.

2. Application P-98-67, Haley Ridge Subdivision, Jama Manin (Monthly Report)  
Mr. Manin stated that the Driveway Maintenance & Eucment Aazeemcala w.n, Uod today in the Town Hall for Lots 19, 20, 21 & 22.  
Mr. Manin requested a bond be reduced to 10%. However, it was referred to the Town Engineer's Report which is not a matter to be completed prior to **approval** of a reduction in the bond.

3. Application P-99-&S, Rebecca Betkowsky, Proposed Child Development Center  
Discussion by the Commission

Motion: Commissioner Perkins made a motion seconded by Commissioner Sirowich to table this application to the January 21, 1999 Juvenile Meeting to allow the members of the **PII Mina** & Planning Commission to investigate the concern of the Beacon Street children.

4. Application P-99-83, C.B.L, Inc., Wood Ridge Station 2 Subdivision.  
Tabled in the January 21, 1999 Regular Meeting.

Sprint PCS

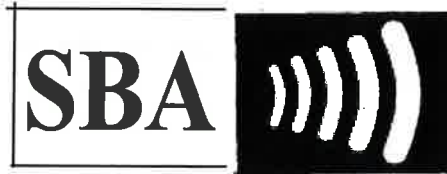
St. T. Cany, representing Sprint through the Engineer for the project submitted revised plans that have addressed concerns of Town Engineer Sudimick.

Motion: Commissioner Sirowich made a motion seconded by Commissioner Btaa that the plans submitted be approved with condition OPI that the Eucment must be filed in the Beacon Fib Land Records IPCI thlia Performance Bond be met. All voted in favor of the motion wiscanid S-0.

6. Doug Crowley, represented by Attorney Mark Malloy. Mr. Malloy presented a lot line map for a parcel of land on Bethany Road. Mr. Crowley currently owns three parcels of land which are adjacent to one another. Two of the lots are on Bethany Road and are each 7' feet wide by 10 feet deep. The two parcels are one behind the other so that there is only 75 feet of setback on

- SPRINT ASSIGNED lease to  
CDA - 12/99

DEC 22 1999



Beacon Falls  
CT 02049-5

Zoning

November 28, 1999

Ted Smith  
Chief  
Beacon Hose Co. #1  
35 North Main St  
Beacon Falls, CT 06403

**RE: 10125-003/Beacon Falls(11/23/99mtttiac)**

Dear Ted,

As per our meeting last Tuesday, the following is a summary of the issues we discussed:

- 1) SBA Inc. will provide space on our monopole tower for your 12ft. **whip antenna** at 80ft. AGL (Above Ground Level). Rent for this space on the tower will be \$0 per month.
  - 2) SBA Inc. will install your antenna and the approx. 6ft. side mount on our tower at no cost to Beacon Hose Co. #1.
  - 3) SBA Inc. will pay for your 12ft. whip antenna and coax cable, which the total shall not exceed \$1000.
  - 4) Beacon Hose Co. #1 will be responsible for: a) equipment shed b) emergency power c) utilities to **power your antenna.**
- I understand that emergency power is a concern for you. However, there probably will not be a **generator at the site for some time.**
  - Please mail me back the completed "Collocation Application" as soon as possible so we can begin to make the appropriate arrangements. Thank you for your cooperation. SBA Inc. looks forward to building a relationship with Beacon Hose Co. #1.
  - I look forward to seeing you again at the **DK. 16, 1999** Beacon Falls Zoning Commission meeting.

Sincerely yours,

J. Tassone  
Project Manager  
SBA, Inc.

- cc. Julie Reibold (NE Communications)  
Randy Freschlin (SBA)  
Steven Carty (SEA Consultants)  
Charlie Edwards (Land Owner)  
Paul McGinn (SBA)

JFT:jft

Petition No. 911  
Cellco Partnership d/b/a Verizon Wireless  
Beacon Falls, Connecticut  
Staff Report  
August 27, 2009

On July 7, 2009, the Connecticut Siting Council (Council) received a petition from Cellco Partnership LLC d/b/a Verizon Wireless (Verizon) for a declaratory ruling that no Certificate of Environmental Compatibility and Public Need is required for a ten-foot extension of an existing 150-foot monopole telecommunications tower at 60 Rice Lane in Beacon Falls, Connecticut. Council member Ed Wilensky and staff member David Martin visited the property on July 31, 2009 to review the proposal. Attorney Joey Lee Miranda represented Verizon at the field review.

The existing tower is owned by SBA Communications. There are currently 3 carriers on the tower: Sprint at a centerline height of 152 feet, T-Mobile at 143.5 feet, and AT&T at 134.5 feet. The Town of Beacon Falls also has emergency service antennas at the 86-foot level. Verizon wants to go on this tower in order to fill existing coverage gaps on portions of Routes 63, 42 and 8, as well as local roads in northeast Beacon Falls, south Naugatuck, and northwest Bethany. Verizon investigated putting its antennas at the 124-foot level of the tower but found it could not achieve its coverage objectives at this height. With its antennas at a centerline height of 162 feet, Verizon could cover the gaps it could not reach at 124 feet.

In order to successfully cover its target area, Verizon seeks to add ten feet to the existing tower and install a platform with 15 antennas at a centerline height of 162 feet. The structural analysis of this proposed extension concludes that the tower's shaft needs reinforcement and base transfer stiffeners to support the additional height and antennas. The addition of Verizon's antennas would bring the tower's aggregate power density to 29.87% of the FCC's Maximum Permissible Emission.

The existing tower is located deep in the woods near the end of a long gravel road. The topography and thick growth of mature, deciduous trees around the site minimize near-field views of the tower. Other than from a very, short distance on Rice Lane Extension, the tower is scarcely visible from the nearest residential streets. In fact, the tower's lack of visibility made it difficult for the representatives of both the Council and Verizon to find it. There are neighborhoods farther away from the tower that have far-field views of the tower. From these areas, the tower rises noticeably above the tree line, but the distance of the views lessens the tower's presence in the landscape.

Prior to submitting its petition to the Council, Verizon sent notices of its plans to abutting property owners. Neither Verizon nor the Council received any adverse comments regarding this proposal.

# **ATTACHMENT 2**



# 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



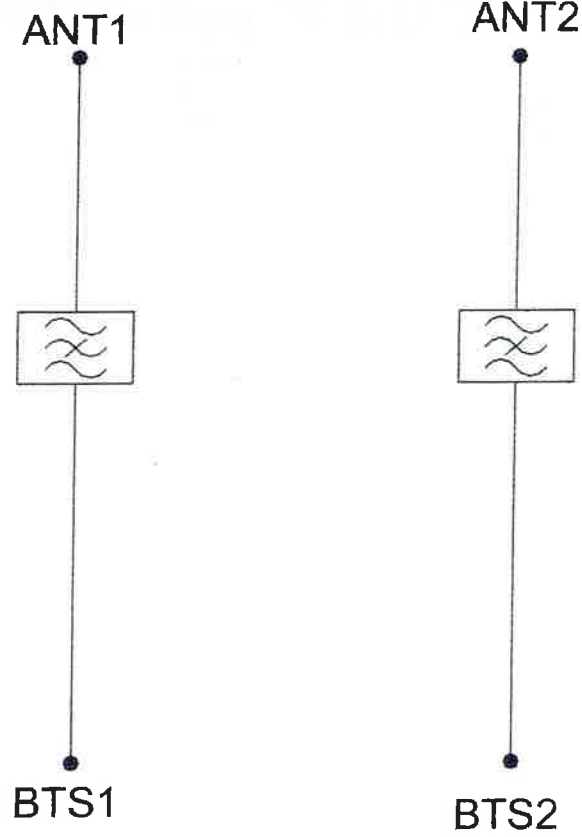
### TECHNICAL SPECIFICATIONS

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 66W 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	ETS: 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.	

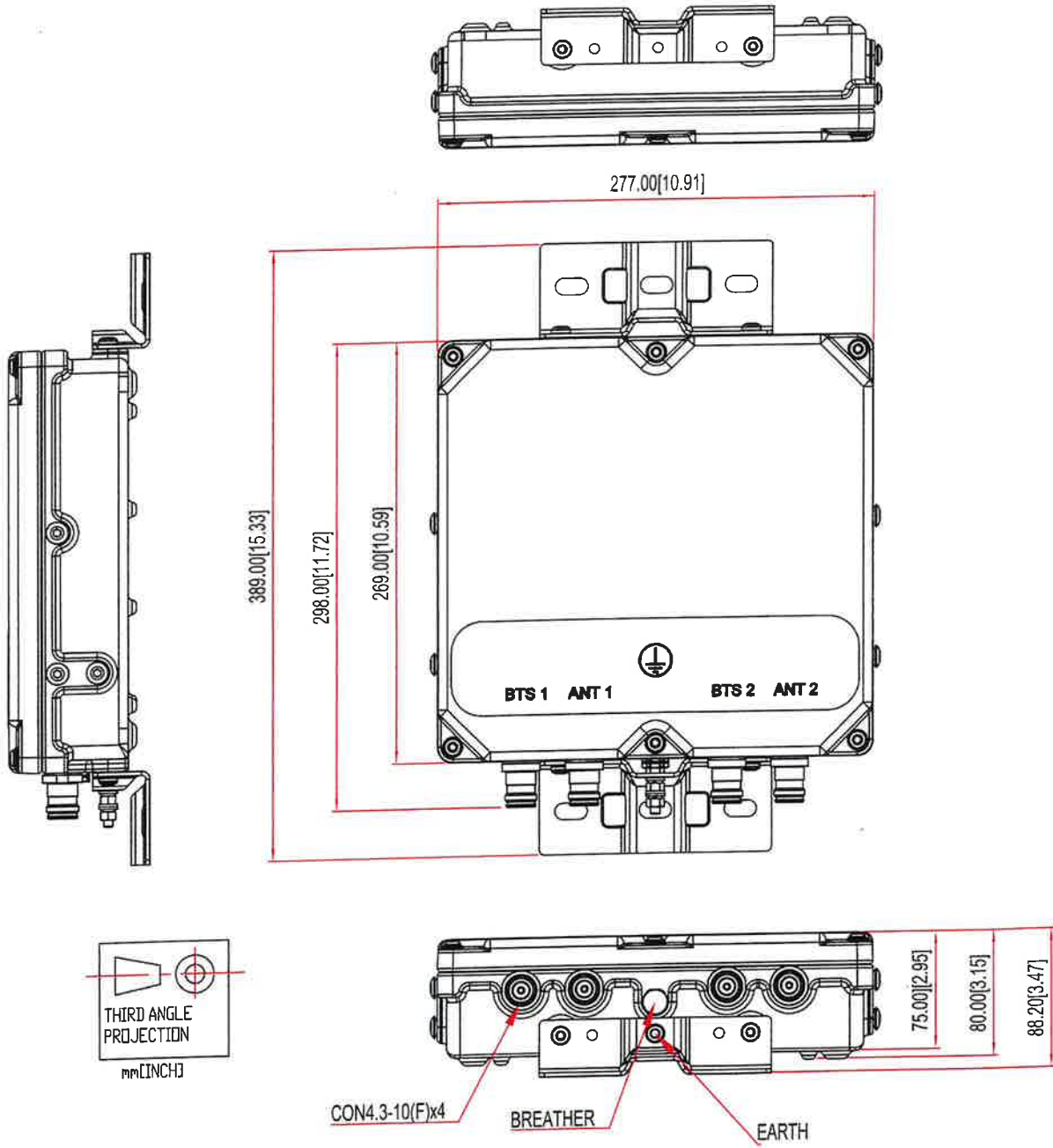
## ORDERING INFORMATION

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**



**Tower Engineering Solutions**

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

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## Structural Analysis Report

**Existing 160 ft Nudd Corporation Monopole**

**Customer Name: SBA Communications Corp**

**Customer Site Number: CT02049-S**

**Customer Site Name: Beacon Falls**

**Carrier Name: Verizon (App#: 232183, V#4)**

**Carrier Site ID / Name: 5000385010 / BETHANY WEST CT**

**Site Location: 60 Rice Lane**

**Beacon Falls, Connecticut**

**New Haven County**

**Latitude: 41.455689**

**Longitude: -73.039866**

### Analysis Result:

**Max Structural Usage: 97.5% [Pass]**

**Max Foundation Usage: 66.0% [Pass]**

**Additional Usage Caused by New Mount/Mount Modification: N/A**



**Report Prepared By: Wei-Hsiang Chen**



**Tower Engineering Solutions**

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

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**New Haven County**

**Latitude: 41.455689**

**Longitude: -73.039866**

**Analysis Result:**

**Max Structural Usage: 97.5% [Pass]**

**Max Foundation Usage: 66.0% [Pass]**

**Additional Usage Caused by New Mount/Mount Modification: N/A**

**Report Prepared By: Wei-Hsiang Chen**

## Introduction

The purpose of this report is to summarize the analysis results on the 160 ft Nudd Corporation Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any modification listed under Sources of Information was assumed completed and was included in this analysis.

## Sources of Information

<b>Tower Drawings</b>	Nudd Project # 7342, dated 01/14/2000
<b>Foundation Drawing</b>	Nudd Project # 7342, dated 01/14/2000
<b>Geotechnical Report</b>	SEA Consultants Ref # 99339.02-A, dated 08/02/1999
<b>Modification Drawings</b>	O2 Wireless Solutions Job # 2230-022, dated 05/23/2002; FDH Project # 09-04232E S2, dated 01/03/2009; FDH Project # 12-04772E S3, dated 10/15/2013; TES Job # 20939 rev.3, dated 09/28/2016; TES Job# 80199, dated 04/30/2020
<b>Mount Analysis</b>	Verizon SMART Tool Project # 10206285, dated 07/10/2023

## 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>	118.0 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>	B
<b>Risk Category:</b>	II
<b>Topographic Category:</b>	1
<b>Crest Height:</b>	0 ft
<b>Seismic Parameters:</b>	$S_S = 0.198$ , $S_1 = 0.054$

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



## Existing Antennas, Mounts and Transmission Lines

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

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner		
1	165.0	1	Andrew - DB222 - Whip	Low Profile Platform	(1) 7/8"	BFFD		
-	162.0	6	Andrew DB846F65ZAXY - Panel		(2) 1 5/8" Hybrid (17) 1 5/8"	Verizon		
-		6	Andrew JAHH-65B-R3B - Panel					
-		3	Samsung VZS01 - Panel					
-		1	Commscope CBC78T-DS-43-2X - Diplexer					
-		3	Samsung B2/B66A RRH-BR049 - RRU					
-		3	Samsung Telecommunications B5/B13 RRH-BR04C - RRU					
-		1	Commscope FE-16148-OVP-B12 - OVP					
10		152.0	3				JMA Wireless - MX08FRO665-21 - Panel	Platform w/ Handrail (Commscope MC-PK8-DSH)
11	3		Fujitsu - TA08025-B605 - RRU					
12	3		Fujitsu - TA08025-B604 - RRU					
13	1		Raycap - RDIDC-9181-PF-48 - OVP					
14	142.0	4	Ericsson Air 6419 B41 - Panel	Platform w/ HR & Bracing	(7) 1 5/8" (2) 1-1/4" Fiber (2) 1.9" Fiber (2) 1 5/8" Fiber	T-Mobile		
15		4	Ericsson Air 32 KRD901146-1_B66A_B2A- Panel					
16		3	RFS APXVAARR24_43-U-NA20 - Panel					
17		1	RFS APXVAARR18_43-U-NA20 - Panel					
18		3	Ericsson KRY 112 144/1 TMA					
19		4	Ericsson 4460 B25 + B66 RRU					
20		4	Ericsson 4449 B71 + B85 RRU					
21		133.0	3				Kathrein 800-10965 - Panel	T-Frames (3) SitePro 1 P/N RMV12-NP W/ (3) 2-1/2" (2.88" O.D.) Pipe Masts
22	2		Cci DMP65R-BU6EA-K - Panel					
23	1		Cci DMP65R-BU8EA-K - Panel					
24	6		Powerwave LGP21401 - TMA					
25	3		Ericsson RRUS-32 RRU					
26	3		Ericsson B2/B66A 8843 RRU					
27	3		Ericsson B5/B12 4449 RRU					
28	3		Ericsson RRUS 4478 B14 RRU					
29	2		Raycap DC6-48-60-18-8F - OVP					
30	1		Raycap DC9-48-60-24-8C-EV - OVP					
31	131.75	3	Ericsson AIR6449 B77D - Panel	(1) 3 ft. Standoff	(1) 7/8"	BFFD		
32	115.0	1	DB222 - Whip					
33	40.0	1	GPS				Standoff	(1) 1/2"

### 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
2	162.0	6	Andrew DB846F65ZAXY - Panel	Low Profile Platform	(2) 1 5/8" Hybrid (17) 1 5/8"	Verizon
3		6	Andrew JAHH-65B-R3B - Panel			
4		3	Samsung VZS01 - Panel			
5		3	Commscope CBC78T-DS-43-2X - Diplexer			
6		3	Samsung B2/B66A RRH-BR049 - RRU			
7		3	Samsung Telecommunications B5/B13 RRH-BR04C - RRU			
8		1	Commscope FE-16148-OVP-B12 - OVP			
9		6	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	Flange connection
Max. Usage:	<b>89.0%</b>	<b>65.1%</b>	<b>66.1%</b>	<b>97.5%</b>
Pass/Fail	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>

## **Foundations**

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Analysis Reactions	4006.8	33.1	78.4

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

## **Service Load 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 1.5680 degrees under the operational wind speed as specified in the Analysis Criteria.

## **Conclusions**

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

## Standard Conditions

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

## Usage Diagram - Max Ratio 78.51% at 96.0ft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)

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

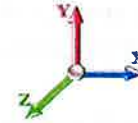
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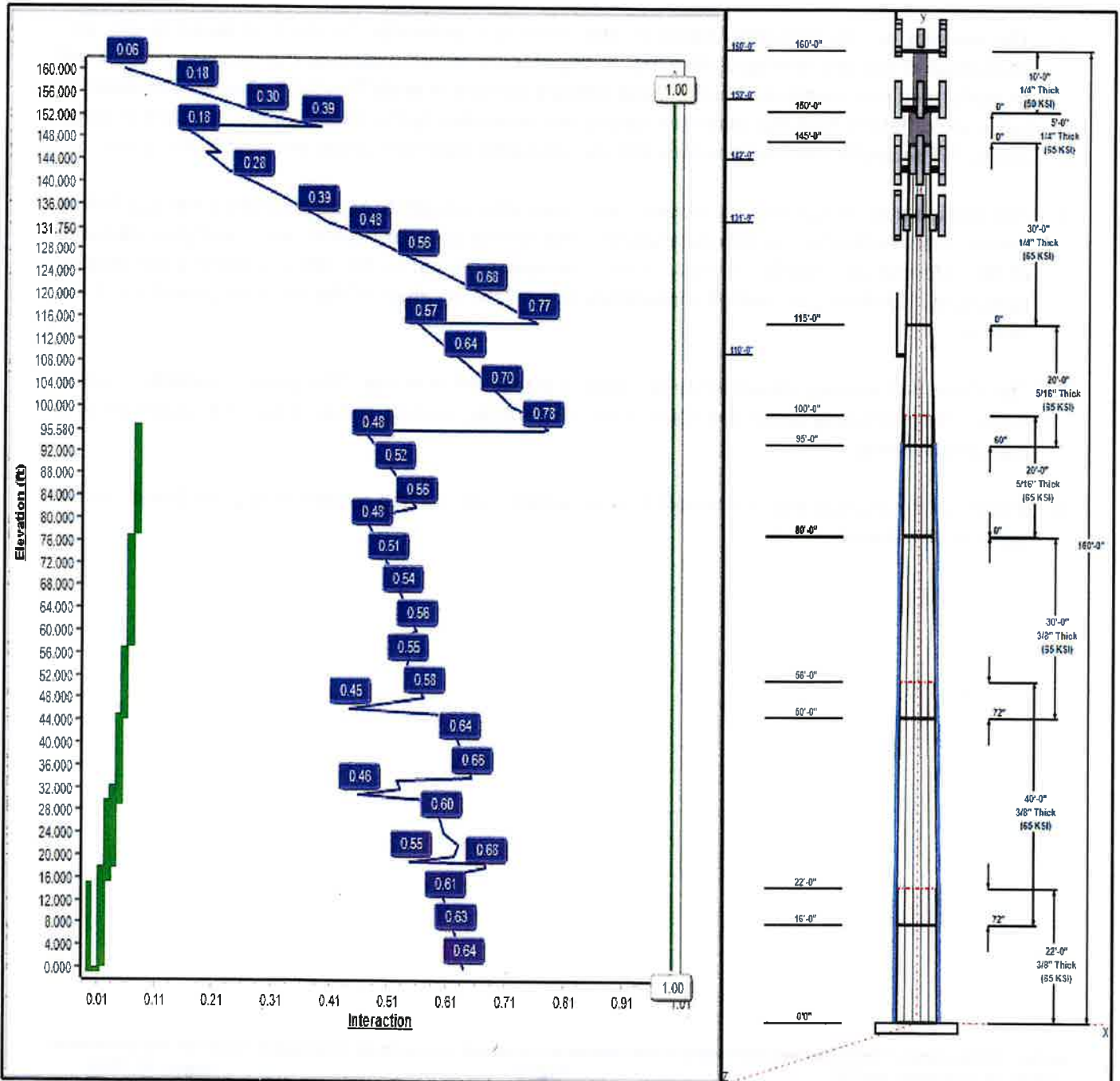
**Dead Load Factor:** 1.20  
**Wind Load Factor:** 1.00

**Load Case : 1.2D + 1.0W 118 mph Wind**



**Iterations:** 27

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**Structure: CT02049-S-SBA**

**Type:** Custom  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 12 Sided  
**Taper:** 0.19400

8/17/2023

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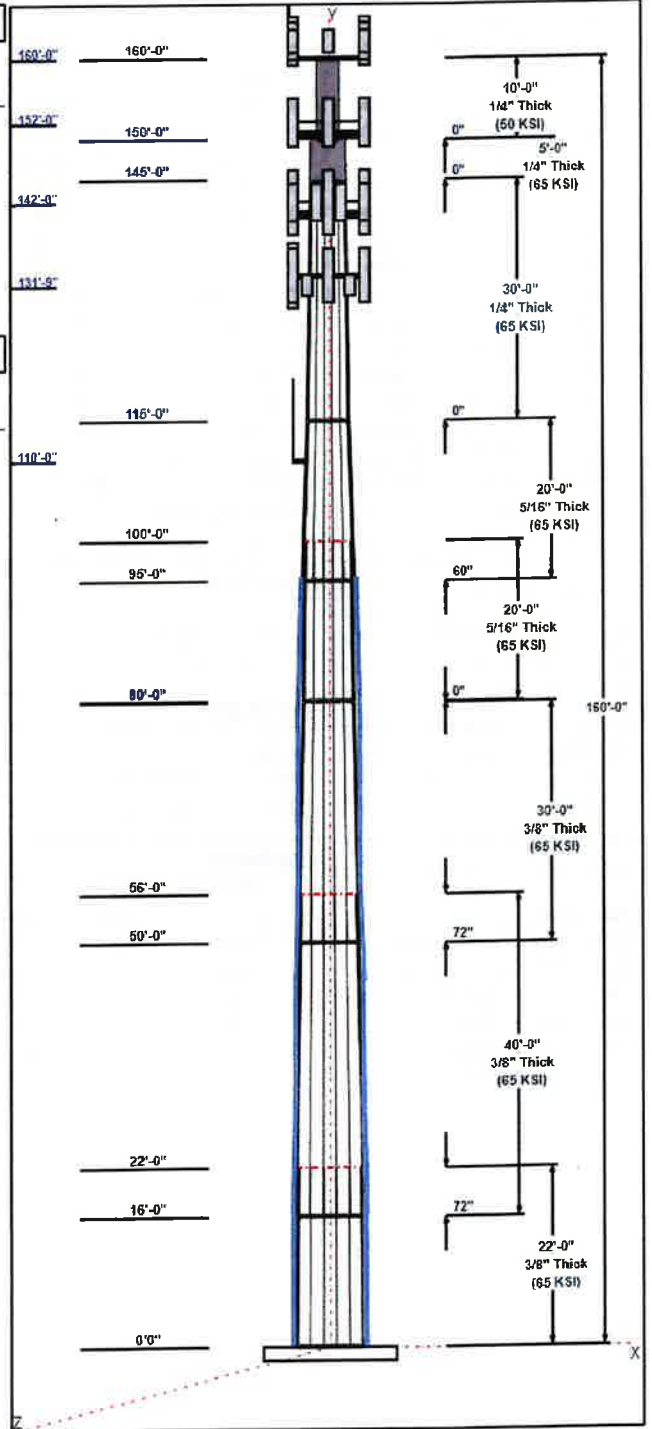
**Shaft Properties**

Seq	Length (ft)	Top (in)	Bottom (in)	Thick (in)	Joint Type	Taper	Grade (ksi)
1	22.00	46.11	50.38	0.375		0.19400	65
2	40.00	40.26	48.02	0.375	Slip	0.19400	65
3	30.00	36.35	42.17	0.375	Slip	0.19400	65
4	20.00	32.48	36.35	0.313	Butt	0.19400	65
5	20.00	30.19	34.07	0.313	Slip	0.19400	65
6	30.00	24.38	30.19	0.250	Butt	0.19400	65
7	5.00	24.38	24.38	0.250	Butt	0.19400	65
8	10.00	16.00	16.00	0.250	Butt	0.00000	50

**Discrete Appurtenances**

Attach Elev (ft)	Force Elev (ft)	Qty	Description	Carrier
160.00	162.00	6	JAHH-65B-R3B	Verizon
160.00	162.00	3	VZS01	Verizon
160.00	162.00	3	CBC78T-DS-43-2X	Verizon
160.00	165.00	1	DB222	BFFD
160.00	162.00	6	DB846F65ZAXY	Verizon
160.00	162.00	1	Low Profile Platform	Verizon
160.00	162.00	3	B2/B66A RRH-BR049	Verizon
160.00	162.00	3	B5/B13 RRH-BR04C	Verizon
160.00	162.00	1	Commscope	Verizon
160.00	162.00	6	BSF0020F3V1-1	Verizon
160.00	163.00	1	6' Lightning rod	-
152.00	152.00	1	MC-PK8-DSH	Dish Wireless
152.00	152.00	3	MX08FRO665-21	Dish Wireless
152.00	152.00	3	TA08025-B605	Dish Wireless
152.00	152.00	3	TA08025-B604	Dish Wireless
152.00	152.00	1	RDIDC-9181-OF-48	Dish Wireless
142.00	142.00	4	Ericsson Air 6419 B41	T-Mobile
142.00	142.00	4	Ericsson 4460 B25 + B66	T-Mobile
142.00	142.00	1	Platform w/ HR & Bracing	T-Mobile
142.00	142.00	1	Mod	T-Mobile
142.00	142.00	4	KRD 9011461-B66A-B2A	T-Mobile
142.00	142.00	3	APXVAARR24_43-U-NA20	T-Mobile
142.00	142.00	1	APXVA18-43-C-A20	T-Mobile
142.00	142.00	3	KRY 112 144/1	T-Mobile
142.00	142.00	4	4449 B71 + B85	T-Mobile
133.00	133.00	2	DMP65R-BU6EA-K	AT&T
133.00	133.00	1	DMP65R-BU8EA-K	AT&T
133.00	133.00	3	Kathrein 800-10965	AT&T
133.00	133.00	2	(3) SitePro 1 P/N	AT&T
133.00	133.00	6	Powerwave LGP21401	AT&T
133.00	133.00	3	Ericsson RRUS-32 RRU	AT&T
133.00	133.00	3	Ericsson B2/B66A 8843	AT&T
133.00	133.00	3	Ericsson B5/B12 4449	AT&T
133.00	133.00	2	Raycap DC6-48-60-18-8F	AT&T
133.00	133.00	3	4478 B14	AT&T
133.00	133.00	1	DC9-48-60-24-8C-EV	AT&T
131.75	131.75	3	AIR 6449 B77D	AT&T
110.00	115.00	1	DB222	BFFD
110.00	110.00	1	3 ft Standoff	BFFD
40.00	40.00	1	GPS	Sprint

**Linear Appurtenances**



**Structure: CT02049-S-SBA**

**Type:** Custom  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.00 (ft)

**Base Shape:** 12 Sided  
**Taper:** 0.00000

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Elev From (ft)	Elev To (ft)	Placement	Description	Carrier
0.00	160.00	Inside	1 5/8" Coax	Verizon
0.00	160.00	Outside	1 5/8" Hybrid	Verizon
0.00	160.00	Outside	7/8" Coax	BFFD
0.00	152.00	Outside	1.75" Hybrid	Dish Wireless
0.00	142.00	Inside	1 5/8" Coax	T-Mobile
0.00	142.00	Outside	1 5/8" Fiber	T-Mobile
0.00	142.00	Outside	1-1/4" Fiber	T-Mobile
0.00	142.00	Inside	1.9" Fiber	T-Mobile
0.00	133.00	Inside	0.92" DC Power	AT&T
0.00	133.00	Inside	1 1/4" Coax	AT&T
0.00	133.00	Inside	1 5/8" Coax	AT&T
0.00	133.00	Inside	1/2" Fiber	AT&T
0.00	133.00	Inside	3/8" Fiber	AT&T
0.00	110.00	Outside	7/8" Coax	BFFD
28.00	98.00	Outside	1.25" Reinforcing plate	
0.00	40.00	Inside	1/2" Coax	Sprint
0.00	32.00	Outside	1" Reinforcing plate	
0.00	32.00	Outside	C10x15.3	

**Anchor Bolts**

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

**Base Plate**

Thickness (in)	Specifications (in)	Grade (ksi)	Geometry
1.5000	63.0	50.0	Round

**Reactions**

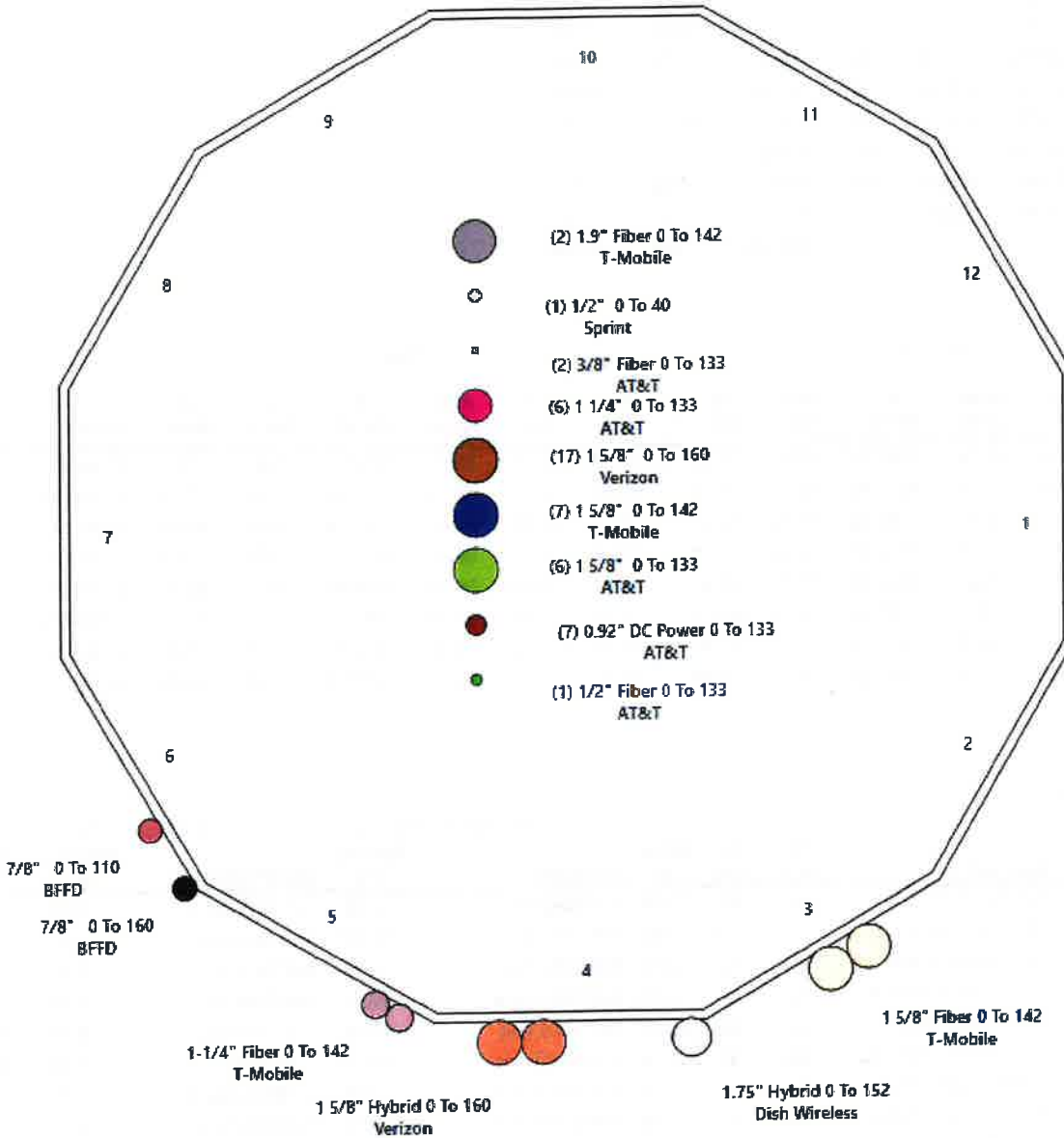
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)
1.2D + 1.0W 118 mph Wind	4006.8	33.1	78.4
0.9D + 1.0W 118 mph Wind	3948.7	33.1	58.8
1.2D + 1.0Di + 1.0Wi 50 mph Wind	1013.4	8.1	100.4
1.2D + 1.0Ev + 1.0Eh	77.5	0.5	81.4
0.9D + 1.0Ev + 1.0Eh	77.2	0.5	61.5
1.0D + 1.0W 60 mph Wind	919.3	7.7	65.3

# Structure: CT02049-S-SBA - Coax Line Placement

Type: Monopole  
 Site Name: Beacon Falls  
 Height: 160.00 (ft)

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## Shaft Properties

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	12	22.000	0.3750	65		0.00	4,327
2	12	40.000	0.3750	65	Slip	72.00	7,193
3	12	30.000	0.3750	65	Slip	72.00	4,794
4	12	20.000	0.3125	65	Flange	0.00	2,335
5	12	20.000	0.3125	65	Slip	60.00	2,179
6	12	30.000	0.2500	65	Flange	0.00	2,221
7	R	5.000	0.2500	65	Flange	0.00	316
8	R	10.000	0.2500	50	Flange	0.00	421
<b>Total Shaft Weight:</b>							<b>23,786</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	50.38	0.00	60.38	19265.63	33.85	134.33	46.11	22.00	55.22	14741.2	30.80	122.9	0.194000
2	48.02	16.00	57.53	16670.65	32.17	128.06	40.26	56.00	48.16	9779.90	26.62	107.3	0.194000
3	42.17	50.00	50.47	11256.46	27.99	112.47	36.35	80.00	43.45	7178.88	23.83	96.95	0.194000
4	36.35	80.00	36.27	6013.63	29.03	116.34	32.48	100.00	32.36	4273.08	25.70	103.9	0.194000
5	34.07	95.00	33.97	4940.86	27.07	109.02	30.19	115.00	30.06	3425.51	23.74	96.61	0.194000
6	30.19	115.00	24.10	2757.64	30.21	120.76	24.38	145.00	19.42	1441.83	23.98	97.50	0.194000
7	24.38	145.00	18.95	1379.54	0.00	97.50	24.38	150.00	18.19	1219.74	0.00	97.50	0.194000
8	16.00	150.00	12.37	383.86	0.00	64.00	16.00	160.00	12.37	383.86	0.00	64.00	0.000000

### Additional Steel

Elev From (ft)	Elev To (ft)	Qty	Description	Fy (ksi)	Fu (ksi)	Offset (in)	Intermediate Connectors			Termination Connectors		
							Description	Spacing (in)	Description	Spacing (in)	Lower Qty	Upper Qty
0.00	16.25	3	PLT C10x30(1.5" Hole)	65	80	0.00	AJM20&sleeve	20.00	AJM20&sleeve	3.00		
0.00	1.00	3	SOL 2 1/4" William R71	128	150	5.62	5/8" Hollo Bolt	12.00	5/8" Hollo Bolt	3.00		
1.00	18.88	3	LNP LP6X100-B1-20T	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00		9
16.25	31.00	3	PLT C10x15.3(1.5" Hole)	65	80	0.00	AJM20&sleeve	20.00	AJM20&sleeve	3.00		4
18.63	33.38	3	LNP LP6X100-G-20TT	65	80	0.00	5/8" Hollo Bolt	24.00	5/8" Hollo Bolt	3.00	10	10
30.00	46.00	3	PLT 6"X1-1/4"(1.25" Hole)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00	8	8
45.16	58.00	3	PLT 7" x 1.25"(1.25"Hole)	65	80	0.00	AJM20&sleeve	12.00	AJM20&sleeve	3.00	13	
58.00	78.00	3	PLT 5.5"x1 1/4"(1.25"hol)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00		
78.00	95.58	3	PLT 5.5"x1 1/4"(1.25"hol)	65	80	0.00	AJM20&sleeve	18.00	AJM20&sleeve	3.00		10

## Load Summary

Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	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	160.00	JAHH-65B-R3B	6	54.00	9.11	0.83	168.75	7.426	0.83	0.00	2.00
2	160.00	VZS01	3	87.10	4.30	0.69	161.90	5.322	0.69	0.00	2.00
3	160.00	CBC78T-DS-43-2X	3	20.70	0.37	0.67	38.29	0.546	0.67	0.00	2.00
4	160.00	DB222	1	16.00	2.25	1.00	62.50	6.317	1.00	0.00	5.00
5	160.00	DB846F65ZAXY	6	21.00	7.05	0.93	145.05	7.851	0.93	0.00	2.00
6	160.00	Low Profile Platform	1	1200.00	53.50	1.00	1902.61	82.319	1.00	0.00	2.00
7	160.00	B2/B66A RRH-BR049	3	70.00	1.87	0.67	112.71	2.243	0.67	0.00	2.00
8	160.00	B5/B13 RRH-BR04C (RFV01U-D2A)	3	84.40	1.87	0.67	131.77	2.243	0.67	0.00	2.00
9	160.00	Commscope FE-16148-OVP-B12 -	1	15.00	2.51	1.00	57.39	2.235	1.00	0.00	2.00
10	160.00	BSF0020F3V1-1	6	17.60	1.58	0.67	37.62	2.185	0.67	0.00	2.00
11	160.00	6' Lightning rod	1	6.50	0.38	1.00	30.86	1.110	1.00	0.00	3.00
12	152.00	MC-PK8-DSH	1	1727.00	37.59	1.00	2853.71	69.121	1.00	0.00	0.00
13	152.00	MX08FRO665-21	3	64.50	12.49	0.74	258.67	13.468	0.74	0.00	0.00
14	152.00	TA08025-B605	3	75.00	1.96	0.67	109.92	2.334	0.67	0.00	0.00
15	152.00	TA08025-B604	3	63.90	1.96	0.67	97.70	2.334	0.67	0.00	0.00
16	152.00	RDIDC-9181-OF-48	1	21.90	2.01	1.00	57.45	2.389	1.00	0.00	0.00
17	142.00	Ericsson Air 6419 B41	4	66.10	3.80	0.76	129.89	4.328	0.76	0.00	0.00
18	142.00	Ericsson 4460 B25 + B66 RRU	4	109.00	2.85	0.67	156.68	3.297	0.67	0.00	0.00
19	142.00	Platform w/ HR & Bracing	1	2246.00	52.00	1.00	4325.11	77.512	1.00	0.00	0.00
20	142.00	Mod	1	300.00	12.00	1.00	577.71	20.331	1.00	0.00	0.00
21	142.00	KRD 9011461-B66A-B2A	4	132.20	6.51	0.87	438.14	8.017	0.89	0.00	0.00
22	142.00	APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	424.22	24.924	0.72	0.00	0.00
23	142.00	APXVA18-43-C-A20	1	45.40	9.65	0.82	202.26	10.525	0.84	0.00	0.00
24	142.00	KRY 112 144/1	3	11.00	0.41	0.50	18.15	0.725	0.50	0.00	0.00
25	142.00	4449 B71 + B85	4	73.20	1.97	0.67	111.48	2.348	0.67	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	101.00	17.12	0.71	345.80	18.249	0.71	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	95.70	17.87	0.73	357.31	19.053	0.73	0.00	0.00
28	133.00	Kathrein 800-10965	3	108.60	13.81	0.71	295.10	14.836	0.71	0.00	0.00
29	133.00	(3) SitePro 1 P/N RMV12-NP W/3	2	1357.77	21.34	0.75	2231.84	39.003	0.75	0.00	0.00
30	133.00	Powerwave LGP21401 TMA	6	14.10	1.29	0.67	30.57	1.841	0.67	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	77.00	3.87	0.67	146.63	3.822	0.67	0.00	0.00
32	133.00	Ericsson B2/B66A 8843 RRU	3	72.00	1.64	0.67	102.86	1.967	0.67	0.00	0.00
33	133.00	Ericsson B5/B12 4449 RRU	3	71.00	1.97	0.67	106.16	2.330	0.67	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F Junction	2	31.80	0.92	0.67	72.52	1.208	0.67	0.00	0.00
35	133.00	4478 B14	3	59.90	1.84	0.67	90.86	2.187	0.67	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	26.20	1.14	1.00	96.02	2.185	1.00	0.00	0.00
37	131.75	AIR 6449 B77D	3	88.00	4.13	0.85	172.88	4.682	0.85	0.00	0.00
38	110.00	DB222	1	16.00	2.65	1.00	60.79	7.264	1.00	0.00	5.00
39	110.00	3 ft Standoff	1	40.00	2.63	1.00	91.89	6.488	1.00	0.00	0.00
40	40.00	GPS	1	10.00	1.00	1.00	27.13	1.416	1.00	0.00	0.00
<b>Totals:</b>			<b>105</b>	<b>14,152.34</b>			<b>28,443.22</b>				

### Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed
0.00	160.00	(17) 1 5/8" Coax	0.00	Inside

## Discrete Appurtenances

No.	Elev (ft)	Description	Qty	No Ice		Ice			Hor. Ecc. (ft)	Vert Ecc (ft)
				Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)		
0.00	160.00	(2) 1 5/8" Hybrid		2.00		Outside				
0.00	160.00	(1) 7/8" Coax		0.00		Outside				
0.00	152.00	(1) 1.75" Hybrid		0.00		Outside				
0.00	142.00	(7) 1 5/8" Coax		0.00		Inside				
0.00	142.00	(2) 1 5/8" Fiber		0.00		Outside				
0.00	142.00	(2) 1-1/4" Fiber		0.00		Outside				
0.00	142.00	(2) 1.9" Fiber		0.00		Inside				
0.00	133.00	(7) 0.92" DC Power		0.00		Inside				
0.00	133.00	(6) 1 1/4" Coax		0.00		Inside				
0.00	133.00	(6) 1 5/8" Coax		0.00		Inside				
0.00	133.00	(1) 1/2" Fiber		0.00		Inside				
0.00	133.00	(2) 3/8" Fiber		0.00		Inside				
0.00	110.00	(1) 7/8" Coax		0.00		Outside				
28.00	98.00	(3) 1.25" Reinforcing plate		1.25		Outside				
0.00	40.00	(1) 1/2" Coax		0.00		Inside				
0.00	32.00	(3) 1" Reinforcing plate		1.00		Outside				
0.00	32.00	(3) C10x15.3		2.60		Outside				



Increment Length: 2 (ft)

Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	Fy (ksi)	Fb (ksi)	Weight (lb)	Additional Reinforcing			
											Area (in^2)	Ixp (in^4)	Iyp (in^4)	Weight (lb)
84.00		0.3125	35.579	35.487	5633.5	28.36	113.85	65	74	242.8	20.63	3524.2	3524.2	140.4
86.00		0.3125	35.191	35.096	5449.6	28.03	112.61	65	74	240.2	20.63	3451.0	3451.0	140.4
88.00		0.3125	34.803	34.706	5269.8	27.70	111.37	65	75	237.5	20.63	3378.4	3378.4	140.4
90.00		0.3125	34.415	34.316	5093.9	27.37	110.13	65	75	234.9	20.63	3306.7	3306.7	140.4
92.00		0.3125	34.027	33.925	4922.0	27.03	108.89	65	75	232.2	20.63	3235.7	3235.7	140.4
94.00		0.3125	33.639	33.535	4754.0	26.70	107.64	65	76	229.6	20.63	3165.5	3165.5	140.4
95.00	Bot - Section 5	0.3125	33.445	33.340	4671.5	26.53	107.02	65	76	113.8	20.63	3130.7	3130.7	70.2
95.58	RT9	0.3125	33.332	33.226	4624.0	26.44	106.66	65	76	132.6	20.63	3223.1	3223.1	40.7
96.00		0.3125	33.251	33.144	4589.9	26.37	106.40	65	76	95.8				
98.00		0.3125	32.863	32.754	4429.6	26.03	105.16	65	76	452.8				
100.00	Top - Section 4	0.3125	33.100	32.992	4527.1	26.24	105.92	65	76	447.4				
102.00		0.3125	32.712	32.602	4368.2	25.90	104.68	65	76	223.2				
104.00		0.3125	32.324	32.212	4213.2	25.57	103.44	65	77	220.5				
106.00		0.3125	31.936	31.821	4061.8	25.24	102.20	65	77	217.9				
108.00		0.3125	31.548	31.431	3914.1	24.91	100.95	65	78	215.2				
110.00		0.3125	31.160	31.040	3770.1	24.57	99.71	65	78	212.6				
112.00		0.3125	30.772	30.650	3629.6	24.24	98.47	65	78	209.9				
114.00		0.3125	30.384	30.259	3492.7	23.91	97.23	65	79	207.3				
115.00	Top - Section 5	0.3125	30.190	30.064	3425.5	23.74	96.61	65	79	102.6				
115.00	Bot - Section 6	0.2500	30.190	24.102	2757.6	29.68	120.76	65	72					
116.00		0.2500	29.996	23.946	2704.4	30.01	119.98	65	72	81.7				
118.00		0.2500	29.608	23.633	2599.9	29.59	118.43	65	72	161.9				
120.00		0.2500	29.220	23.321	2498.2	29.17	116.88	65	73	159.8				
122.00		0.2500	28.832	23.009	2399.2	28.76	115.33	65	73	157.6				
124.00		0.2500	28.444	22.696	2302.8	28.34	113.78	65	74	155.5				
126.00		0.2500	28.056	22.384	2209.0	27.93	112.22	65	74	153.4				
128.00		0.2500	27.668	22.071	2117.8	27.51	110.67	65	75	151.3				
130.00		0.2500	27.280	21.759	2029.2	27.10	109.12	65	75	149.1				
131.75		0.2500	26.941	21.486	1953.7	26.73	107.76	65	76	128.8				
132.00		0.2500	26.892	21.447	1943.0	26.68	107.57	65	76	18.3				
133.00		0.2500	26.698	21.291	1900.9	26.47	106.79	65	76	72.7				
134.00		0.2500	26.504	21.134	1859.4	26.26	106.02	65	76	72.2				
136.00		0.2500	26.116	20.822	1778.2	25.85	104.46	65	77	142.8				
138.00		0.2500	25.728	20.510	1699.3	25.43	102.91	65	77	140.6				
140.00		0.2500	25.340	20.197	1622.9	25.02	101.36	65	77	138.5				
142.00		0.2500	24.952	19.885	1548.7	24.60	99.81	65	78	136.4				
144.00		0.2500	24.564	19.573	1476.9	24.18	98.26	65	78	134.3				
145.00	Top - Section 6	0.2500	24.370	19.417	1441.8	23.98	97.48	65	79	66.3				
145.00	Bot - Section 7	0.2500	24.375	18.948	1379.5	23.98	97.48	65	55					
146.00		0.2500	24.181	18.795	1346.5	0.00	96.72	65	55	64.2				
148.00		0.2500	23.793	18.491	1282.1	0.00	95.17	65	55	126.9				
150.00	Top - Section 7	0.2500	23.405	18.186	1219.7	0.00	93.62	65	55	124.8				
150.00	Bot - Section 8	0.2500	16.000	12.370	383.9	0.00	93.62	50	50					
152.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
154.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
156.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
158.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
160.00		0.2500	16.000	12.370	383.9	0.00	64.00	50	50	84.2				
<b>Total Weight</b>										<b>23786.1</b>	<b>9838.3</b>			

## Wind Loading - Shaft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

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**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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	RB1 RB2	1.00	0.70	23.174	25.49	424.24	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3	1.00	0.70	23.174	25.49	422.60	0.972 *	0.000	1.00	4.338	4.21	107.4	0.0	246.1
2.00		1.00	0.70	23.174	25.49	420.97	0.973 *	0.000	1.00	4.321	4.20	107.2	0.0	245.1
4.00		1.00	0.70	23.174	25.49	417.70	0.975 *	0.000	2.00	8.592	8.37	213.5	0.0	487.3
6.00		1.00	0.70	23.174	25.49	414.44	0.977 *	0.000	2.00	8.525	8.33	212.3	0.0	483.5
8.00		1.00	0.70	23.174	25.49	411.17	0.980 *	0.000	2.00	8.458	8.28	211.2	0.0	479.7
10.00		1.00	0.70	23.174	25.49	407.90	0.982 *	0.000	2.00	8.391	8.24	210.0	0.0	475.8
12.00		1.00	0.70	23.174	25.49	404.63	0.985 *	0.000	2.00	8.324	8.20	208.9	0.0	472.0
14.00		1.00	0.70	23.174	25.49	401.37	0.987 *	0.000	2.00	8.257	8.15	207.8	0.0	468.2
16.00	Bot - Section 2	1.00	0.70	23.174	25.49	398.10	0.990 *	0.000	2.00	8.190	8.11	206.6	0.0	464.4
16.25	RT1 RB4	1.00	0.70	23.174	25.49	397.69	0.991 *	0.000	0.25	1.035	1.03	26.2	0.0	116.5
18.00		1.00	0.70	23.174	25.49	394.83	0.993 *	0.000	1.75	7.217	7.16	182.6	0.0	812.0
18.63	RB5	1.00	0.70	23.174	25.49	393.80	0.994 *	0.000	0.63	2.586	2.57	65.5	0.0	290.9
18.88	RT3	1.00	0.70	23.174	25.49	393.39	0.995 *	0.000	0.25	1.024	1.02	26.0	0.0	115.2
20.00		1.00	0.70	23.174	25.49	391.56	0.996 *	0.000	1.12	4.576	4.56	116.1	0.0	514.7
22.00	Top - Section 1	1.00	0.70	23.174	25.49	388.30	0.998 *	0.000	2.00	8.118	8.10	206.5	0.0	913.2
24.00		1.00	0.70	23.174	25.49	391.34	0.995 *	0.000	2.00	8.052	8.01	204.3	0.0	456.5
26.00		1.00	0.70	23.174	25.49	388.08	0.998 *	0.000	2.00	7.985	7.97	203.2	0.0	452.6
28.00		1.00	0.70	23.174	25.49	384.81	1.001 *	0.000	2.00	7.918	7.93	202.0	0.0	448.8
30.00	RB6	1.00	0.70	23.194	25.51	381.70	1.079 *	0.000	2.00	7.851	8.47	216.2	0.0	445.0
31.00	RT4	1.00	0.71	23.412	25.75	381.85	1.082 *	0.000	1.00	3.900	4.22	108.7	0.0	221.1
32.00		1.00	0.71	23.625	25.99	381.94	1.084 *	0.000	1.00	3.883	4.21	109.4	0.0	220.1
33.38	RT5	1.00	0.72	23.912	26.30	381.96	0.950	0.000	1.38	5.332	5.07	133.2	0.0	302.2
34.00		1.00	0.73	24.038	26.44	381.93	0.950	0.000	0.62	2.385	2.27	59.9	0.0	135.2
36.00		1.00	0.74	24.434	26.88	381.71	0.950	0.000	2.00	7.650	7.27	195.3	0.0	433.5
38.00		1.00	0.75	24.814	27.30	381.29	0.950	0.000	2.00	7.583	7.20	196.6	0.0	429.7
40.00	Appurtenance(s)	1.00	0.76	25.181	27.70	380.69	0.950	0.000	2.00	7.516	7.14	197.8	0.0	425.8
42.00		1.00	0.77	25.534	28.09	379.92	0.950	0.000	2.00	7.449	7.08	198.8	0.0	422.0
44.00		1.00	0.78	25.876	28.46	379.00	0.950	0.000	2.00	7.382	7.01	199.6	0.0	418.2
45.16	RB7	1.00	0.79	26.069	28.68	378.40	0.950	0.000	1.16	4.251	4.04	115.8	0.0	240.8
46.00	RT6	1.00	0.79	26.207	28.83	377.94	0.950	0.000	0.84	3.064	2.91	83.9	0.0	173.6
48.00		1.00	0.80	26.527	29.18	376.75	0.950	0.000	2.00	7.248	6.89	200.9	0.0	410.5
50.00	Bot - Section 3	1.00	0.81	26.838	29.52	375.43	0.950	0.000	2.00	7.181	6.82	201.4	0.0	406.7
52.00		1.00	0.82	27.141	29.85	374.01	0.950	0.000	2.00	7.244	6.88	205.4	0.0	813.2
54.00		1.00	0.83	27.435	30.18	372.47	0.950	0.000	2.00	7.177	6.82	205.8	0.0	805.5
56.00	Top - Section 2	1.00	0.84	27.722	30.49	370.84	0.950	0.000	2.00	7.110	6.75	206.0	0.0	797.9
58.00	RT7 RB8	1.00	0.85	28.001	30.80	376.05	0.950	0.000	2.00	7.043	6.69	206.1	0.0	398.8
60.00		1.00	0.85	28.273	31.10	374.27	0.950	0.000	2.00	6.976	6.63	206.1	0.0	395.0
62.00		1.00	0.86	28.540	31.39	372.40	0.950	0.000	2.00	6.909	6.56	206.1	0.0	391.2
64.00		1.00	0.87	28.800	31.68	370.45	0.950	0.000	2.00	6.842	6.50	205.9	0.0	387.3
66.00		1.00	0.88	29.054	31.96	368.43	0.950	0.000	2.00	6.775	6.44	205.7	0.0	383.5
68.00		1.00	0.89	29.303	32.23	366.33	0.950	0.000	2.00	6.708	6.37	205.4	0.0	379.7
70.00		1.00	0.89	29.547	32.50	364.16	0.950	0.000	2.00	6.641	6.31	205.1	0.0	375.9
72.00		1.00	0.90	29.785	32.76	361.92	0.950	0.000	2.00	6.574	6.25	204.6	0.0	372.0
74.00		1.00	0.91	30.019	33.02	359.62	0.950	0.000	2.00	6.507	6.18	204.1	0.0	368.2
76.00		1.00	0.91	30.249	33.27	357.26	0.950	0.000	2.00	6.440	6.12	203.6	0.0	364.4
78.00	RT8 RB9	1.00	0.92	30.474	33.52	354.84	0.950	0.000	2.00	6.373	6.05	203.0	0.0	360.5

## Wind Loading - Shaft

**Structure:** CT02049-S-SBA

**Code:** TIA-222-H

8/17/2023

**Site Name:** Beacon Falls

**Exposure:** B

**Height:** 160.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 0.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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80.00 Top - Section 3	1.00	0.93	30.696	33.77	352.37	0.950	0.000	2.00	6.306	5.99	202.3	0.0	356.7		
82.00	1.00	0.93	30.913	34.00	349.84	0.950	0.000	2.00	6.239	5.93	201.6	0.0	294.6		
84.00	1.00	0.94	31.126	34.24	347.26	0.950	0.000	2.00	6.172	5.86	200.8	0.0	291.4		
86.00	1.00	0.95	31.336	34.47	344.63	0.950	0.000	2.00	6.106	5.80	199.9	0.0	288.2		
88.00	1.00	0.95	31.543	34.70	341.95	0.950	0.000	2.00	6.039	5.74	199.0	0.0	285.0		
90.00	1.00	0.96	31.746	34.92	339.22	0.950	0.000	2.00	5.972	5.67	198.1	0.0	281.8		
92.00	1.00	0.96	31.946	35.14	336.45	0.950	0.000	2.00	5.905	5.61	197.1	0.0	278.7		
94.00	1.00	0.97	32.143	35.36	333.64	0.950	0.000	2.00	5.838	5.55	196.1	0.0	275.5		
95.00 Bot - Section 5	1.00	0.97	32.240	35.46	332.22	0.950	0.000	1.00	2.894	2.75	97.5	0.0	136.5		
95.58 RT9	1.00	0.98	32.296	35.53	331.39	0.950	0.000	0.58	1.702	1.62	57.4	0.0	159.1		
96.00	1.00	0.98	32.337	35.57	330.79	0.950	0.000	0.42	1.229	1.17	41.5	0.0	114.9		
98.00	1.00	0.98	32.528	35.78	327.89	0.950	0.000	2.00	5.812	5.52	197.5	0.0	543.3		
100.00 Top - Section 4	1.00	0.99	32.716	35.99	324.96	0.950	0.000	2.00	5.745	5.46	196.4	0.0	536.9		
102.00	1.00	0.99	32.902	36.19	328.25	0.950	0.000	2.00	5.678	5.39	195.2	0.0	267.8		
104.00	1.00	1.00	33.085	36.39	325.26	0.950	0.000	2.00	5.611	5.33	194.0	0.0	264.7		
106.00	1.00	1.00	33.266	36.59	322.23	0.950	0.000	2.00	5.544	5.27	192.7	0.0	261.5		
108.00	1.00	1.01	33.444	36.79	319.17	0.950	0.000	2.00	5.477	5.20	191.4	0.0	258.3		
110.00 Appurtenance(s)	1.00	1.02	33.619	36.98	316.07	0.950	0.000	2.00	5.410	5.14	190.1	0.0	255.1		
112.00	1.00	1.02	33.793	37.17	312.94	0.950	0.000	2.00	5.343	5.08	188.7	0.0	251.9		
114.00	1.00	1.03	33.964	37.36	309.78	0.950	0.000	2.00	5.276	5.01	187.3	0.0	248.7		
115.00 Top - Section 5	1.00	1.03	34.049	37.45	308.18	0.950	0.000	1.00	2.613	2.48	93.0	0.0	123.2		
116.00	1.00	1.03	34.133	37.55	306.58	0.950	0.000	1.00	2.596	2.47	92.6	0.0	98.1		
118.00	1.00	1.04	34.301	37.73	303.36	0.950	0.000	2.00	5.142	4.89	184.3	0.0	194.3		
120.00	1.00	1.04	34.466	37.91	300.10	0.950	0.000	2.00	5.075	4.82	182.8	0.0	191.7		
122.00	1.00	1.05	34.629	38.09	296.82	0.950	0.000	2.00	5.008	4.76	181.2	0.0	189.2		
124.00	1.00	1.05	34.790	38.27	293.50	0.950	0.000	2.00	4.941	4.69	179.6	0.0	186.6		
126.00	1.00	1.06	34.950	38.44	290.16	0.950	0.000	2.00	4.874	4.63	178.0	0.0	184.1		
128.00	1.00	1.06	35.107	38.62	286.79	0.950	0.000	2.00	4.807	4.57	176.4	0.0	181.5		
130.00	1.00	1.07	35.263	38.79	283.40	0.950	0.000	2.00	4.741	4.50	174.7	0.0	179.0		
131.75 Appurtenance(s)	1.00	1.07	35.398	38.94	280.41	0.950	0.000	1.75	4.093	3.89	151.4	0.0	154.5		
132.00	1.00	1.07	35.417	38.96	279.98	0.950	0.000	0.25	0.581	0.55	21.5	0.0	21.9		
133.00 Appurtenance(s)	1.00	1.07	35.494	39.04	278.26	0.950	0.000	1.00	2.312	2.20	85.7	0.0	87.3		
134.00	1.00	1.07	35.570	39.13	276.53	0.950	0.000	1.00	2.295	2.18	85.3	0.0	86.6		
136.00	1.00	1.08	35.721	39.29	273.06	0.950	0.000	2.00	4.540	4.31	169.5	0.0	171.3		
138.00	1.00	1.08	35.870	39.46	269.57	0.950	0.000	2.00	4.473	4.25	167.7	0.0	168.8		
140.00	1.00	1.09	36.018	39.62	266.05	0.950	0.000	2.00	4.406	4.19	165.8	0.0	166.2		
142.00 Appurtenance(s)	1.00	1.09	36.164	39.78	262.50	0.950	0.000	2.00	4.339	4.12	164.0	0.0	163.7		
144.00	1.00	1.10	36.309	39.94	258.94	0.950	0.000	2.00	4.272	4.06	162.1	0.0	161.1		
145.00 Top - Section 6	1.00	1.10	36.381	40.02	257.15	0.950	0.000	1.00	2.111	2.01	80.2	0.0	79.6		
146.00	1.00	1.10	36.452	40.10	246.70	0.600	0.000	1.00	2.023	1.21	48.7	0.0	77.1		
148.00	1.00	1.11	36.594	40.25	243.22	0.600	0.000	2.00	3.998	2.40	96.6	0.0	152.3		
150.00 Top - Section 7	1.00	1.11	36.735	40.41	239.71	0.600	0.000	2.00	3.933	2.36	95.4	0.0	149.8		
152.00 Appurtenance(s)	1.00	1.11	36.874	40.56	164.18	0.645 *	0.000	2.00	2.667	1.72	69.8	0.0	101.0		
154.00	1.00	1.12	37.012	40.71	164.49	0.645 *	0.000	2.00	2.667	1.72	70.0	0.0	101.0		
156.00	1.00	1.12	37.149	40.86	164.79	0.645 *	0.000	2.00	2.667	1.72	70.3	0.0	101.0		
158.00	1.00	1.13	37.284	41.01	165.09	0.645 *	0.000	2.00	2.667	1.72	70.5	0.0	101.0		
160.00 Appurtenance(s)	1.00	1.13	37.418	41.16	165.39	0.645 *	0.000	2.00	2.667	1.72	70.8	0.0	101.0		
<b>Totals:</b>								<b>160.00</b>				<b>14,820.3</b>	<b>28,543.3</b>		

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 12
	<b>Struct Class:</b> II	



**Load Case:** 1.2D + 1.0W 118 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

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	160.00	DB846F65ZAXY	6	37.551	41.306	0.70	0.75	29.50	151.20	0.000	2.000	1218.72	0.00	2437.43
2	160.00	JAHH-65B-R3B	6	37.551	41.306	0.62	0.75	34.03	388.80	0.000	2.000	1405.49	0.00	2810.98
3	160.00	VZS01	3	37.551	41.306	0.52	0.75	6.68	313.56	0.000	2.000	275.75	0.00	551.50
4	160.00	CBC78T-DS-43-2X	3	37.551	41.306	0.50	0.75	0.56	74.52	0.000	2.000	23.04	0.00	46.08
5	160.00	DB222	1	37.749	41.524	1.00	1.00	2.25	19.20	0.000	5.000	93.43	0.00	467.14
6	160.00	6' Lightning rod	1	37.617	41.379	1.00	1.00	0.38	7.80	0.000	3.000	15.72	0.00	47.17
7	160.00	B2/B66A RRH-BR049	3	37.551	41.306	0.50	0.75	2.82	252.00	0.000	2.000	116.44	0.00	232.89
8	160.00	B5/B13 RRH-BR04C	3	37.551	41.306	0.50	0.75	2.82	303.84	0.000	2.000	116.44	0.00	232.89
9	160.00	Commscope	1	37.551	41.306	0.75	0.75	1.88	18.00	0.000	2.000	77.76	0.00	155.52
10	160.00	BSF0020F3V1-1	6	37.551	41.306	0.50	0.75	4.76	126.72	0.000	2.000	196.77	0.00	393.54
11	160.00	Low Profile Platform	1	37.551	41.306	1.00	1.00	53.50	1440.00	0.000	2.000	2209.90	0.00	4419.79
12	152.00	MX08FRO665-21	3	36.874	40.561	0.55	0.75	20.80	232.20	0.000	0.000	843.51	0.00	0.00
13	152.00	MC-PK8-DSH	1	36.874	40.561	1.00	1.00	37.59	2072.40	0.000	0.000	1524.70	0.00	0.00
14	152.00	TA08025-B604	3	36.874	40.561	0.50	0.75	2.95	230.04	0.000	0.000	119.85	0.00	0.00
15	152.00	TA08025-B605	3	36.874	40.561	0.50	0.75	2.95	270.00	0.000	0.000	119.85	0.00	0.00
16	152.00	RDIDC-9181-OF-48	1	36.874	40.561	0.75	0.75	1.51	26.28	0.000	0.000	61.15	0.00	0.00
17	142.00	4449 B71 + B85	4	36.164	39.780	0.50	0.75	3.96	351.36	0.000	0.000	157.52	0.00	0.00
18	142.00	KRY 112 144/1	3	36.164	39.780	0.38	0.75	0.46	39.60	0.000	0.000	18.35	0.00	0.00
19	142.00	APXVA18-43-C-A20	1	36.164	39.780	0.61	0.75	5.93	54.48	0.000	0.000	236.09	0.00	0.00
20	142.00	APXVAARR24_43-U-NA2	3	36.164	39.780	0.52	0.75	31.88	460.80	0.000	0.000	1268.12	0.00	0.00
21	142.00	KRD 9011461-B66A-B2A	4	36.164	39.780	0.65	0.75	16.99	634.56	0.000	0.000	675.91	0.00	0.00
22	142.00	Mod	1	36.164	39.780	1.00	1.00	12.00	360.00	0.000	0.000	477.36	0.00	0.00
23	142.00	Platform w/ HR & Bracing	1	36.164	39.780	1.00	1.00	52.00	2695.20	0.000	0.000	2068.57	0.00	0.00
24	142.00	Ericsson 4460 B25 + B66	4	36.164	39.780	0.50	0.75	5.73	523.20	0.000	0.000	227.88	0.00	0.00
25	142.00	Ericsson Air 6419 B41	4	36.164	39.780	0.57	0.75	8.66	317.28	0.000	0.000	344.66	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	35.494	39.043	0.57	0.80	19.45	242.40	0.000	0.000	759.32	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	35.494	39.043	0.58	0.80	10.44	114.84	0.000	0.000	407.46	0.00	0.00
28	133.00	Kathrein 800-10965	3	35.494	39.043	0.57	0.80	23.53	390.96	0.000	0.000	918.77	0.00	0.00
29	133.00	(3) SitePro 1 P/N	2	35.494	39.043	0.56	0.75	24.01	3258.65	0.000	0.000	937.32	0.00	0.00
30	133.00	Powerwave LGP21401	6	35.494	39.043	0.54	0.80	4.15	101.52	0.000	0.000	161.98	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	35.494	39.043	0.54	0.80	6.22	277.20	0.000	0.000	242.96	0.00	0.00
32	133.00	Ericsson B2/B66A 8843	3	35.494	39.043	0.54	0.80	2.64	259.20	0.000	0.000	102.96	0.00	0.00
33	133.00	Ericsson B5/B12 4449	3	35.494	39.043	0.54	0.80	3.17	255.60	0.000	0.000	123.68	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F	2	35.494	39.043	0.54	0.80	0.99	76.32	0.000	0.000	38.51	0.00	0.00
35	133.00	4478 B14	3	35.494	39.043	0.54	0.80	2.96	215.64	0.000	0.000	115.52	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	35.494	39.043	0.80	0.80	0.91	31.44	0.000	0.000	35.61	0.00	0.00
37	131.75	AIR 6449 B77D	3	35.398	38.938	0.68	0.80	8.43	316.80	0.000	0.000	328.06	0.00	0.00
38	110.00	3 ft Standoff	1	33.619	36.981	1.00	1.00	2.63	48.00	0.000	0.000	97.26	0.00	0.00
39	110.00	DB222	1	34.049	37.454	1.00	1.00	2.65	19.20	0.000	5.000	99.25	0.00	496.27
40	40.00	GPS	1	25.181	27.699	1.00	1.00	1.00	12.00	0.000	0.000	27.70	0.00	0.00
<b>Totals:</b>								<b>16,982.81</b>				<b>18,289.31</b>		



## Total Applied Force Summary

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

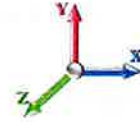


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**Load Case:** 1.2D + 1.0W 118 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

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
1.00		107.43	665.79	0.00	0.00
2.00		107.15	664.83	0.00	0.00
4.00		213.45	1326.79	0.00	0.00
6.00		212.32	1322.97	0.00	0.00
8.00		211.18	1319.14	0.00	0.00
10.00		210.05	1315.31	0.00	0.00
12.00		208.91	1311.49	0.00	0.00
14.00		207.78	1307.66	0.00	0.00
16.00		206.64	1303.84	0.00	0.00
16.25		26.16	221.41	0.00	0.00
18.00		182.62	1546.53	0.00	0.00
18.63		65.53	555.32	0.00	0.00
18.88		25.97	220.15	0.00	0.00
20.00		116.15	984.82	0.00	0.00
22.00		206.53	1752.64	0.00	0.00
24.00		204.30	1295.93	0.00	0.00
26.00		203.16	1292.10	0.00	0.00
28.00		202.03	1288.27	0.00	0.00
30.00		216.21	1644.45	0.00	0.00
31.00		108.69	820.79	0.00	0.00
32.00		109.39	819.83	0.00	0.00
33.38		133.23	633.00	0.00	0.00
34.00		59.91	283.80	0.00	0.00
36.00		195.33	912.97	0.00	0.00
38.00		196.63	909.14	0.00	0.00
40.00	(1) attachments	225.47	917.32	0.00	0.00
42.00		198.76	901.11	0.00	0.00
44.00		199.61	897.28	0.00	0.00
45.16		115.80	518.67	0.00	0.00
46.00		83.92	374.79	0.00	0.00
48.00		200.92	889.63	0.00	0.00
50.00		201.40	885.80	0.00	0.00
52.00		205.45	1292.26	0.00	0.00
54.00		205.75	1284.61	0.00	0.00
56.00		205.96	1276.96	0.00	0.00
58.00		206.08	877.89	0.00	0.00
60.00		206.11	874.07	0.00	0.00
62.00		206.05	870.24	0.00	0.00
64.00		205.91	866.42	0.00	0.00
66.00		205.70	862.59	0.00	0.00
68.00		205.41	858.76	0.00	0.00
70.00		205.05	854.94	0.00	0.00
72.00		204.63	851.11	0.00	0.00
74.00		204.13	847.28	0.00	0.00
76.00		203.58	843.46	0.00	0.00
78.00		202.96	839.63	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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80.00	202.29	835.81	0.00	0.00
82.00	201.56	773.68	0.00	0.00
84.00	200.77	770.49	0.00	0.00
86.00	199.94	767.30	0.00	0.00
88.00	199.05	764.11	0.00	0.00
90.00	198.11	760.92	0.00	0.00
92.00	197.12	757.74	0.00	0.00
94.00	196.09	754.55	0.00	0.00
95.00	97.49	376.08	0.00	0.00
95.58	57.44	298.07	0.00	0.00
96.00	41.53	215.51	0.00	0.00
98.00	197.55	1022.39	0.00	0.00
100.00	196.40	656.01	0.00	0.00
102.00	195.22	386.93	0.00	0.00
104.00	193.99	383.74	0.00	0.00
106.00	192.72	380.55	0.00	0.00
108.00	191.41	377.36	0.00	0.00
110.00	(2) attachments 386.58	441.38	0.00	496.27
112.00	188.68	369.74	0.00	0.00
114.00	187.26	366.55	0.00	0.00
115.00	92.97	182.08	0.00	0.00
116.00	92.61	157.02	0.00	0.00
118.00	184.32	312.12	0.00	0.00
120.00	182.79	309.57	0.00	0.00
122.00	181.24	307.02	0.00	0.00
124.00	179.65	304.47	0.00	0.00
126.00	178.03	301.91	0.00	0.00
128.00	176.37	299.36	0.00	0.00
130.00	174.69	296.81	0.00	0.00
131.75	(3) attachments 479.46	574.42	0.00	0.00
132.00	21.49	36.64	0.00	0.00
133.00	(29) attachments 3929.82	5369.94	0.00	0.00
134.00	85.30	129.55	0.00	0.00
136.00	169.46	257.19	0.00	0.00
138.00	167.66	254.64	0.00	0.00
140.00	165.83	252.09	0.00	0.00
142.00	(25) attachments 5638.42	5686.02	0.00	0.00
144.00	162.09	214.86	0.00	0.00
145.00	80.25	106.47	0.00	0.00
146.00	48.67	103.93	0.00	0.00
148.00	96.56	205.99	0.00	0.00
150.00	95.36	203.50	0.00	0.00
152.00	(11) attachments 2738.81	2985.68	0.00	0.00
154.00	70.03	149.98	0.00	0.00
156.00	70.29	149.98	0.00	0.00
158.00	70.54	149.98	0.00	0.00
160.00	(34) attachments 5820.26	3245.62	0.00	11794.94
	<b>Totals:</b> 33,109.57	<b>78,409.58</b>	<b>0.00</b>	<b>12,291.20</b>

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	23.174	0.00	2.64
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	0.62
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	2.39
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	2.64
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	2.29
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	0.62
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	23.174	0.00	144.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	23.174	0.00	216.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	23.174	0.00	2.64
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	0.62
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	2.39
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	2.64
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	2.29
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	0.62
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	23.174	0.00	144.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	23.174	0.00	216.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	23.174	0.00	5.28
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	1.25
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	4.78
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	5.28
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	4.58
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	1.25
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	23.174	0.00	288.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	23.174	0.00	432.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	23.174	0.00	5.28
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	1.25
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	4.78
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	5.28
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	4.58
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	1.25
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	23.174	0.00	288.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	23.174	0.00	432.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	23.174	0.00	5.28
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	1.25
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	4.78
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	5.28
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	4.58
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	1.25
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	23.174	0.00	288.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	23.174	0.00	432.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	23.174	0.00	5.28
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	1.25
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	4.78
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	5.28
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	4.58
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	1.25
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	23.174	0.00	288.00

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

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**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	23.174	0.00	432.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	23.174	0.00	5.28
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	1.25
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	4.78
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	5.28
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	4.58
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	1.25
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	23.174	0.00	288.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	23.174	0.00	432.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	23.174	0.00	5.28
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	1.25
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	4.78
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	5.28
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	4.58
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	1.25
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	23.174	0.00	288.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	23.174	0.00	432.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	23.174	0.00	5.28
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	1.25
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	4.78
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	5.28
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	4.58
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	1.25
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	23.174	0.00	288.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	23.174	0.00	432.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	23.174	0.00	0.66
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.16
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.60
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.66
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.57
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.16
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	23.174	0.00	36.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	23.174	0.00	54.00
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	23.174	0.00	4.62
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	1.09
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	4.18
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	4.62
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	4.01
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	1.09
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	23.174	0.00	252.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	23.174	0.00	378.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	23.174	0.00	1.66
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.39
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	1.51
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	1.66
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	1.44
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.39

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	23.174	0.00	90.72
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	23.174	0.00	136.08
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	23.174	0.00	0.66
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.16
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.60
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.66
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.57
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.16
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	23.174	0.00	36.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	23.174	0.00	54.00
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	23.174	0.00	2.96
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	0.70
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	2.68
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	2.96
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	2.56
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	0.70
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	23.174	0.00	161.28
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	23.174	0.00	241.92
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	23.174	0.00	5.28
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	1.25
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	4.78
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	5.28
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	4.58
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	1.25
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	23.174	0.00	288.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	23.174	0.00	432.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	23.174	0.00	5.28
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	1.25
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	4.78
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	5.28
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	4.58
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	1.25
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	23.174	0.00	288.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	23.174	0.00	432.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	23.174	0.00	5.28
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	1.25
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	4.78
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	5.28
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	4.58
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	1.25
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	23.174	0.00	288.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	23.174	0.00	432.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	23.174	0.00	5.28
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	1.25
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	4.78
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	5.28
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	4.58

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

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**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	1.25
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	23.174	0.00	288.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	23.174	0.00	432.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	23.194	0.00	5.28
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	1.25
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	4.78
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	5.28
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	4.58
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	1.25
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	23.194	0.00	360.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	23.194	0.00	288.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	23.194	0.00	432.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	23.412	0.00	2.64
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	0.62
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	2.39
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	2.64
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	2.29
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	0.62
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	23.412	0.00	180.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	23.412	0.00	144.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	23.412	0.00	216.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	23.625	0.00	2.64
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	0.62
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	2.39
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	2.64
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	2.29
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	0.62
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	23.625	0.00	180.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	23.625	0.00	144.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	23.625	0.00	216.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	23.912	0.00	3.64
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	0.86
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	3.30
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	3.64
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	3.16
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	0.86
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	23.912	0.00	248.40
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	24.038	0.00	1.64
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	0.39
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	1.48
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	1.64
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	1.42
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	0.39
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	24.038	0.00	111.60
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	24.434	0.00	5.28
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	1.25
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	4.78

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

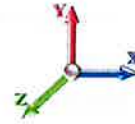


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**Load Case:** 1.2D + 1.0W 118 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

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)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	5.28
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	4.58
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	1.25
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	24.434	0.00	360.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	24.814	0.00	5.28
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	1.25
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	4.78
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	5.28
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	4.58
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	1.25
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	24.814	0.00	360.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	25.181	0.00	5.28
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	1.25
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	4.78
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	5.28
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	4.58
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	1.25
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	25.181	0.00	360.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	25.534	0.00	5.28
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	1.25
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	4.78
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	5.28
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	4.58
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	1.25
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	25.534	0.00	360.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	25.876	0.00	5.28
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	1.25
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	4.78
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	5.28
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	4.58
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	1.25
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	25.876	0.00	360.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	26.069	0.00	3.06
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	0.72
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	2.77
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	3.06
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	2.66
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	0.72
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	26.069	0.00	208.80
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	26.207	0.00	2.22
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	0.52
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	2.01
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	2.22
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	1.92
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	0.52
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	26.207	0.00	151.20
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	26.527	0.00	5.28

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

8/17/2023

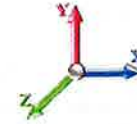
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**Load Case:** 1.2D + 1.0W 118 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

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)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	1.25
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	4.78
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	5.28
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	4.58
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	1.25
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	26.527	0.00	360.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	26.838	0.00	5.28
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	1.25
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	4.78
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	5.28
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	4.58
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	1.25
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	26.838	0.00	360.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	27.141	0.00	5.28
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	1.25
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	4.78
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	5.28
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	4.58
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	1.25
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	27.141	0.00	360.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	27.435	0.00	5.28
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	1.25
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	4.78
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	5.28
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	4.58
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	1.25
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	27.435	0.00	360.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	27.722	0.00	5.28
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	1.25
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	4.78
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	5.28
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	4.58
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	1.25
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	27.722	0.00	360.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	28.001	0.00	5.28
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	1.25
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	4.78
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	5.28
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	4.58
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	1.25
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.001	0.00	360.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	28.273	0.00	5.28
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	1.25
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	4.78
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	5.28
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	4.58
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	1.25



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	28.273	0.00	360.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	28.540	0.00	5.28
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	1.25
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	4.78
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	5.28
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	4.58
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	1.25
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	28.540	0.00	360.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	28.800	0.00	5.28
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	1.25
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	4.78
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	5.28
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	4.58
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	1.25
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	28.800	0.00	360.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	29.054	0.00	5.28
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	1.25
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	4.78
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	5.28
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	4.58
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	1.25
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	29.054	0.00	360.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	29.303	0.00	5.28
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	1.25
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	4.78
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	5.28
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	4.58
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	1.25
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	29.303	0.00	360.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	29.547	0.00	5.28
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	1.25
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	4.78
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	5.28
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	4.58
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	1.25
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	29.547	0.00	360.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	29.785	0.00	5.28
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	1.25
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	4.78
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	5.28
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	4.58
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	1.25
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	29.785	0.00	360.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	30.019	0.00	5.28
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	1.25
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	4.78
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	5.28

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

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**Load Case:** 1.2D + 1.0W 118 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

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)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	4.58
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	1.25
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	30.019	0.00	360.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	30.249	0.00	5.28
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	1.25
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	4.78
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	5.28
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	4.58
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	1.25
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	30.249	0.00	360.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	30.474	0.00	5.28
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	1.25
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	4.78
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	5.28
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	4.58
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	1.25
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	30.474	0.00	360.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	30.696	0.00	5.28
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	1.25
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	4.78
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	5.28
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	4.58
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	1.25
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	30.696	0.00	360.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	30.913	0.00	5.28
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	1.25
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	4.78
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	5.28
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	4.58
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	1.25
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	30.913	0.00	360.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	31.126	0.00	5.28
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	1.25
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	4.78
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	5.28
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	4.58
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	1.25
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	31.126	0.00	360.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	31.336	0.00	5.28
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	1.25
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	4.78
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	5.28
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	4.58
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	1.25
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	31.336	0.00	360.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	31.543	0.00	5.28
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	1.25

## Linear Appurtenance Segment Forces (Factored)

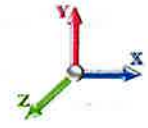
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 1.2D + 1.0W 118 mph Wind

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

**Iterations** 27



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)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	4.78
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	5.28
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	4.58
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	1.25
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	31.543	0.00	360.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	31.746	0.00	5.28
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	1.25
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	4.78
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	5.28
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	4.58
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	1.25
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	31.746	0.00	360.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	31.946	0.00	5.28
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	1.25
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	4.78
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	5.28
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	4.58
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	1.25
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	31.946	0.00	360.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	32.143	0.00	5.28
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	1.25
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	4.78
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	5.28
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	4.58
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	1.25
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	32.143	0.00	360.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	32.240	0.00	2.64
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	0.62
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	2.39
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	2.64
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	2.29
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	0.62
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	32.240	0.00	180.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	32.296	0.00	1.53
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	0.36
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	1.39
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	1.53
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	1.33
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	0.36
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	32.296	0.00	104.40
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	32.337	0.00	1.11
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.26
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	1.00
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	1.11
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.96
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.26
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	32.337	0.00	75.60

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

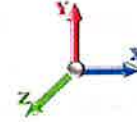
8/17/2023

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**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	32.528	0.00	5.28
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	1.25
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	4.78
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	5.28
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	4.58
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	1.25
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	32.528	0.00	360.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	32.716	0.00	5.28
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	1.25
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	4.78
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	5.28
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	4.58
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	1.25
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	32.902	0.00	5.28
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	1.25
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	4.78
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	5.28
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	4.58
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	1.25
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	33.085	0.00	5.28
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	1.25
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	4.78
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	5.28
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	4.58
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	1.25
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	33.266	0.00	5.28
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	1.25
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	4.78
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	5.28
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	4.58
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	1.25
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	33.444	0.00	5.28
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	1.25
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	4.78
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	5.28
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	4.58
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	1.25
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	33.619	0.00	5.28
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	1.25
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	4.78
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	5.28
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	4.58
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	1.25
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	33.793	0.00	5.28
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	1.25
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	4.78
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	5.28

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

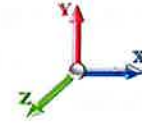
8/17/2023

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**Load Case:** 1.2D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	4.58
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	33.964	0.00	5.28
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	1.25
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	4.78
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	5.28
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	4.58
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	34.049	0.00	2.64
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	0.62
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	2.39
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	2.64
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	2.29
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	34.133	0.00	2.64
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	0.62
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	2.39
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	2.64
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	2.29
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	34.301	0.00	5.28
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	1.25
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	4.78
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	5.28
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	4.58
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	34.466	0.00	5.28
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	1.25
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	4.78
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	5.28
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	4.58
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	34.629	0.00	5.28
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	1.25
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	4.78
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	5.28
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	4.58
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	34.790	0.00	5.28
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	1.25
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	4.78
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	5.28
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	4.58
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	34.950	0.00	5.28
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	1.25
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	4.78
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	5.28
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	4.58
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	35.107	0.00	5.28
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	1.25
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	4.78
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	5.28
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	4.58
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	35.263	0.00	5.28

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

8/17/2023

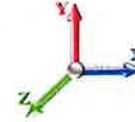
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**Load Case:** 1.2D + 1.0W 118 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 27

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)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	1.25
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	4.78
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	5.28
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	4.58
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	35.398	0.00	4.62
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	1.09
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	4.18
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	4.62
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	4.01
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	35.417	0.00	0.66
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.16
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.60
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.66
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.57
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	35.494	0.00	2.64
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	0.62
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	2.39
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	2.64
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	2.29
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	35.570	0.00	2.64
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	0.62
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	2.39
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	2.64
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	2.29
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	35.721	0.00	5.28
136.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	1.25
136.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	4.78
136.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	5.28
136.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	4.58
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	35.870	0.00	5.28
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	1.25
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	4.78
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	5.28
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	4.58
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	36.018	0.00	5.28
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	1.25
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	4.78
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	5.28
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	4.58
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	36.164	0.00	5.28
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	1.25
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	4.78
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	5.28
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	4.58
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	36.309	0.00	5.28
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	36.309	0.00	1.25
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	36.309	0.00	4.78

## Linear Appurtenance Segment Forces (Factored)

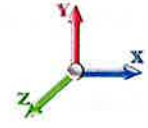
Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.2D + 1.0W 118 mph Wind

Dead Load Factor 1.20  
Wind Load Factor 1.00



Iterations 27

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)
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	36.381	0.00	2.64
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	36.381	0.00	0.62
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	36.381	0.00	2.39
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	36.452	0.00	2.64
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	36.452	0.00	0.62
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	36.452	0.00	2.39
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	36.594	0.00	5.28
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	36.594	0.00	1.25
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	36.594	0.00	4.78
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	36.735	0.00	5.28
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	36.735	0.00	1.25
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	36.735	0.00	4.78
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	36.874	0.00	5.28
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	36.874	0.00	1.25
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	36.874	0.00	4.78
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.012	0.00	5.28
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.012	0.00	1.25
154.00	1.75" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.012	0.00	4.78
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.149	0.00	5.28
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.149	0.00	1.25
156.00	1.75" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.149	0.00	4.78
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.284	0.00	5.28
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.284	0.00	1.25
158.00	1.75" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.284	0.00	4.78
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.418	0.00	5.28
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.418	0.00	1.25
160.00	1.75" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.418	0.00	4.78
<b>Totals:</b>											<b>0.0</b>	<b>25,774.0</b>







## Wind Loading - Shaft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

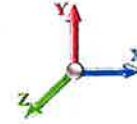
8/17/2023

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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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	RB1 RB2	1.00	0.70	23.174	25.49	424.24	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3	1.00	0.70	23.174	25.49	422.60	0.972 *	0.000	1.00	4.338	4.21	107.4	0.0	184.5
2.00		1.00	0.70	23.174	25.49	420.97	0.973 *	0.000	1.00	4.321	4.20	107.2	0.0	183.8
4.00		1.00	0.70	23.174	25.49	417.70	0.975 *	0.000	2.00	8.592	8.37	213.5	0.0	365.5
6.00		1.00	0.70	23.174	25.49	414.44	0.977 *	0.000	2.00	8.525	8.33	212.3	0.0	362.6
8.00		1.00	0.70	23.174	25.49	411.17	0.980 *	0.000	2.00	8.458	8.28	211.2	0.0	359.8
10.00		1.00	0.70	23.174	25.49	407.90	0.982 *	0.000	2.00	8.391	8.24	210.0	0.0	356.9
12.00		1.00	0.70	23.174	25.49	404.63	0.985 *	0.000	2.00	8.324	8.20	208.9	0.0	354.0
14.00		1.00	0.70	23.174	25.49	401.37	0.987 *	0.000	2.00	8.257	8.15	207.8	0.0	351.1
16.00	Bot - Section 2	1.00	0.70	23.174	25.49	398.10	0.990 *	0.000	2.00	8.190	8.11	206.6	0.0	348.3
16.25	RT1 RB4	1.00	0.70	23.174	25.49	397.69	0.991 *	0.000	0.25	1.035	1.03	26.2	0.0	87.4
18.00		1.00	0.70	23.174	25.49	394.83	0.993 *	0.000	1.75	7.217	7.16	182.6	0.0	609.0
18.63	RB5	1.00	0.70	23.174	25.49	393.80	0.994 *	0.000	0.63	2.586	2.57	65.5	0.0	218.2
18.88	RT3	1.00	0.70	23.174	25.49	393.39	0.995 *	0.000	0.25	1.024	1.02	26.0	0.0	86.4
20.00		1.00	0.70	23.174	25.49	391.56	0.996 *	0.000	1.12	4.576	4.56	116.1	0.0	386.0
22.00	Top - Section 1	1.00	0.70	23.174	25.49	388.30	0.998 *	0.000	2.00	8.118	8.10	206.5	0.0	684.9
24.00		1.00	0.70	23.174	25.49	391.34	0.995 *	0.000	2.00	8.052	8.01	204.3	0.0	342.3
26.00		1.00	0.70	23.174	25.49	388.08	0.998 *	0.000	2.00	7.985	7.97	203.2	0.0	339.5
28.00		1.00	0.70	23.174	25.49	384.81	1.001 *	0.000	2.00	7.918	7.93	202.0	0.0	336.6
30.00	RB6	1.00	0.70	23.194	25.51	381.70	1.079 *	0.000	2.00	7.851	8.47	216.2	0.0	333.7
31.00	RT4	1.00	0.71	23.412	25.75	381.85	1.082 *	0.000	1.00	3.900	4.22	108.7	0.0	165.8
32.00		1.00	0.71	23.625	25.99	381.94	1.084 *	0.000	1.00	3.883	4.21	109.4	0.0	165.1
33.38	RT5	1.00	0.72	23.912	26.30	381.96	0.950	0.000	1.38	5.332	5.07	133.2	0.0	226.6
34.00		1.00	0.73	24.038	26.44	381.93	0.950	0.000	0.62	2.385	2.27	59.9	0.0	101.4
36.00		1.00	0.74	24.434	26.88	381.71	0.950	0.000	2.00	7.650	7.27	195.3	0.0	325.1
38.00		1.00	0.75	24.814	27.30	381.29	0.950	0.000	2.00	7.583	7.20	196.6	0.0	322.3
40.00	Appurtenance(s)	1.00	0.76	25.181	27.70	380.69	0.950	0.000	2.00	7.516	7.14	197.8	0.0	319.4
42.00		1.00	0.77	25.534	28.09	379.92	0.950	0.000	2.00	7.449	7.08	198.8	0.0	316.5
44.00		1.00	0.78	25.876	28.46	379.00	0.950	0.000	2.00	7.382	7.01	199.6	0.0	313.6
45.16	RB7	1.00	0.79	26.069	28.68	378.40	0.950	0.000	1.16	4.251	4.04	115.8	0.0	180.6
46.00	RT6	1.00	0.79	26.207	28.83	377.94	0.950	0.000	0.84	3.064	2.91	83.9	0.0	130.2
48.00		1.00	0.80	26.527	29.18	376.75	0.950	0.000	2.00	7.248	6.89	200.9	0.0	307.9
50.00	Bot - Section 3	1.00	0.81	26.838	29.52	375.43	0.950	0.000	2.00	7.181	6.82	201.4	0.0	305.0
52.00		1.00	0.82	27.141	29.85	374.01	0.950	0.000	2.00	7.244	6.88	205.4	0.0	609.9
54.00		1.00	0.83	27.435	30.18	372.47	0.950	0.000	2.00	7.177	6.82	205.8	0.0	604.1
56.00	Top - Section 2	1.00	0.84	27.722	30.49	370.84	0.950	0.000	2.00	7.110	6.75	206.0	0.0	598.4
58.00	RT7 RB8	1.00	0.85	28.001	30.80	376.05	0.950	0.000	2.00	7.043	6.69	206.1	0.0	299.1
60.00		1.00	0.85	28.273	31.10	374.27	0.950	0.000	2.00	6.976	6.63	206.1	0.0	296.2
62.00		1.00	0.86	28.540	31.39	372.40	0.950	0.000	2.00	6.909	6.56	206.1	0.0	293.4
64.00		1.00	0.87	28.800	31.68	370.45	0.950	0.000	2.00	6.842	6.50	205.9	0.0	290.5
66.00		1.00	0.88	29.054	31.96	368.43	0.950	0.000	2.00	6.775	6.44	205.7	0.0	287.6
68.00		1.00	0.89	29.303	32.23	366.33	0.950	0.000	2.00	6.708	6.37	205.4	0.0	284.8
70.00		1.00	0.89	29.547	32.50	364.16	0.950	0.000	2.00	6.641	6.31	205.1	0.0	281.9
72.00		1.00	0.90	29.785	32.76	361.92	0.950	0.000	2.00	6.574	6.25	204.6	0.0	279.0
74.00		1.00	0.91	30.019	33.02	359.62	0.950	0.000	2.00	6.507	6.18	204.1	0.0	276.1
76.00		1.00	0.91	30.249	33.27	357.26	0.950	0.000	2.00	6.440	6.12	203.6	0.0	273.3
78.00	RT8 RB9	1.00	0.92	30.474	33.52	354.84	0.950	0.000	2.00	6.373	6.05	203.0	0.0	270.4

## Wind Loading - Shaft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

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80.00 Top - Section 3	1.00	0.93	30.696	33.77	352.37	0.950	0.000	2.00	6.306	5.99	202.3	0.0	267.5
82.00	1.00	0.93	30.913	34.00	349.84	0.950	0.000	2.00	6.239	5.93	201.6	0.0	220.9
84.00	1.00	0.94	31.126	34.24	347.26	0.950	0.000	2.00	6.172	5.86	200.8	0.0	218.6
86.00	1.00	0.95	31.336	34.47	344.63	0.950	0.000	2.00	6.106	5.80	199.9	0.0	216.2
88.00	1.00	0.95	31.543	34.70	341.95	0.950	0.000	2.00	6.039	5.74	199.0	0.0	213.8
90.00	1.00	0.96	31.746	34.92	339.22	0.950	0.000	2.00	5.972	5.67	198.1	0.0	211.4
92.00	1.00	0.96	31.946	35.14	336.45	0.950	0.000	2.00	5.905	5.61	197.1	0.0	209.0
94.00	1.00	0.97	32.143	35.36	333.64	0.950	0.000	2.00	5.838	5.55	196.1	0.0	206.6
95.00 Bot - Section 5	1.00	0.97	32.240	35.46	332.22	0.950	0.000	1.00	2.894	2.75	97.5	0.0	102.4
95.58 RT9	1.00	0.98	32.296	35.53	331.39	0.950	0.000	0.58	1.702	1.62	57.4	0.0	119.4
96.00	1.00	0.98	32.337	35.57	330.79	0.950	0.000	0.42	1.229	1.17	41.5	0.0	86.2
98.00	1.00	0.98	32.528	35.78	327.89	0.950	0.000	2.00	5.812	5.52	197.5	0.0	407.5
100.00 Top - Section 4	1.00	0.99	32.716	35.99	324.96	0.950	0.000	2.00	5.745	5.46	196.4	0.0	402.7
102.00	1.00	0.99	32.902	36.19	328.25	0.950	0.000	2.00	5.678	5.39	195.2	0.0	200.9
104.00	1.00	1.00	33.085	36.39	325.26	0.950	0.000	2.00	5.611	5.33	194.0	0.0	198.5
106.00	1.00	1.00	33.266	36.59	322.23	0.950	0.000	2.00	5.544	5.27	192.7	0.0	196.1
108.00	1.00	1.01	33.444	36.79	319.17	0.950	0.000	2.00	5.477	5.20	191.4	0.0	193.7
110.00 Appurtenance(s)	1.00	1.02	33.619	36.98	316.07	0.950	0.000	2.00	5.410	5.14	190.1	0.0	191.3
112.00	1.00	1.02	33.793	37.17	312.94	0.950	0.000	2.00	5.343	5.08	188.7	0.0	188.9
114.00	1.00	1.03	33.964	37.36	309.78	0.950	0.000	2.00	5.276	5.01	187.3	0.0	186.5
115.00 Top - Section 5	1.00	1.03	34.049	37.45	308.18	0.950	0.000	1.00	2.613	2.48	93.0	0.0	92.4
116.00	1.00	1.03	34.133	37.55	306.58	0.950	0.000	1.00	2.596	2.47	92.6	0.0	73.6
118.00	1.00	1.04	34.301	37.73	303.36	0.950	0.000	2.00	5.142	4.89	184.3	0.0	145.7
120.00	1.00	1.04	34.466	37.91	300.10	0.950	0.000	2.00	5.075	4.82	182.8	0.0	143.8
122.00	1.00	1.05	34.629	38.09	296.82	0.950	0.000	2.00	5.008	4.76	181.2	0.0	141.9
124.00	1.00	1.05	34.790	38.27	293.50	0.950	0.000	2.00	4.941	4.69	179.6	0.0	140.0
126.00	1.00	1.06	34.950	38.44	290.16	0.950	0.000	2.00	4.874	4.63	178.0	0.0	138.1
128.00	1.00	1.06	35.107	38.62	286.79	0.950	0.000	2.00	4.807	4.57	176.4	0.0	136.1
130.00	1.00	1.07	35.263	38.79	283.40	0.950	0.000	2.00	4.741	4.50	174.7	0.0	134.2
131.75 Appurtenance(s)	1.00	1.07	35.398	38.94	280.41	0.950	0.000	1.75	4.093	3.89	151.4	0.0	115.9
132.00	1.00	1.07	35.417	38.96	279.98	0.950	0.000	0.25	0.581	0.55	21.5	0.0	16.4
133.00 Appurtenance(s)	1.00	1.07	35.494	39.04	278.26	0.950	0.000	1.00	2.312	2.20	85.7	0.0	65.4
134.00	1.00	1.07	35.570	39.13	276.53	0.950	0.000	1.00	2.295	2.18	85.3	0.0	65.0
136.00	1.00	1.08	35.721	39.29	273.06	0.950	0.000	2.00	4.540	4.31	169.5	0.0	128.5
138.00	1.00	1.08	35.870	39.46	269.57	0.950	0.000	2.00	4.473	4.25	167.7	0.0	126.6
140.00	1.00	1.09	36.018	39.62	266.05	0.950	0.000	2.00	4.406	4.19	165.8	0.0	124.7
142.00 Appurtenance(s)	1.00	1.09	36.164	39.78	262.50	0.950	0.000	2.00	4.339	4.12	164.0	0.0	122.8
144.00	1.00	1.10	36.309	39.94	258.94	0.950	0.000	2.00	4.272	4.06	162.1	0.0	120.8
145.00 Top - Section 6	1.00	1.10	36.381	40.02	257.15	0.950	0.000	1.00	2.111	2.01	80.2	0.0	59.7
146.00	1.00	1.10	36.452	40.10	246.70	0.600	0.000	1.00	2.023	1.21	48.7	0.0	57.8
148.00	1.00	1.11	36.594	40.25	243.22	0.600	0.000	2.00	3.998	2.40	96.6	0.0	114.2
150.00 Top - Section 7	1.00	1.11	36.735	40.41	239.71	0.600	0.000	2.00	3.933	2.36	95.4	0.0	112.3
152.00 Appurtenance(s)	1.00	1.11	36.874	40.56	164.18	0.645 *	0.000	2.00	2.667	1.72	69.8	0.0	75.8
154.00	1.00	1.12	37.012	40.71	164.49	0.645 *	0.000	2.00	2.667	1.72	70.0	0.0	75.8
156.00	1.00	1.12	37.149	40.86	164.79	0.645 *	0.000	2.00	2.667	1.72	70.3	0.0	75.8
158.00	1.00	1.13	37.284	41.01	165.09	0.645 *	0.000	2.00	2.667	1.72	70.5	0.0	75.8
160.00 Appurtenance(s)	1.00	1.13	37.418	41.16	165.39	0.645 *	0.000	2.00	2.667	1.72	70.8	0.0	75.8
<b>Totals:</b>								<b>160.00</b>			<b>14,820.3</b>		<b>21,407.5</b>

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

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**Load Case:** 0.9D + 1.0W 118 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.00



**Iterations** 27

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	160.00	DB846F65ZAXY	6	37.551	41.306	0.70	0.75	29.50	113.40	0.000	2.000	1218.72	0.00	2437.43
2	160.00	JAHH-65B-R3B	6	37.551	41.306	0.62	0.75	34.03	291.60	0.000	2.000	1405.49	0.00	2810.98
3	160.00	VZS01	3	37.551	41.306	0.52	0.75	6.68	235.17	0.000	2.000	275.75	0.00	551.50
4	160.00	CBC78T-DS-43-2X	3	37.551	41.306	0.50	0.75	0.56	55.89	0.000	2.000	23.04	0.00	46.08
5	160.00	DB222	1	37.749	41.524	1.00	1.00	2.25	14.40	0.000	5.000	93.43	0.00	467.14
6	160.00	6' Lightning rod	1	37.617	41.379	1.00	1.00	0.38	5.85	0.000	3.000	15.72	0.00	47.17
7	160.00	B2/B66A RRH-BR049	3	37.551	41.306	0.50	0.75	2.82	189.00	0.000	2.000	116.44	0.00	232.89
8	160.00	B5/B13 RRH-BR04C	3	37.551	41.306	0.50	0.75	2.82	227.88	0.000	2.000	116.44	0.00	232.89
9	160.00	Commscope	1	37.551	41.306	0.75	0.75	1.88	13.50	0.000	2.000	77.76	0.00	155.52
10	160.00	BSF0020F3V1-1	6	37.551	41.306	0.50	0.75	4.76	95.04	0.000	2.000	196.77	0.00	393.54
11	160.00	Low Profile Platform	1	37.551	41.306	1.00	1.00	53.50	1080.00	0.000	2.000	2209.90	0.00	4419.79
12	152.00	MX08FRO665-21	3	36.874	40.561	0.55	0.75	20.80	174.15	0.000	0.000	843.51	0.00	0.00
13	152.00	MC-PK8-DSH	1	36.874	40.561	1.00	1.00	37.59	1554.30	0.000	0.000	1524.70	0.00	0.00
14	152.00	TA08025-B604	3	36.874	40.561	0.50	0.75	2.95	172.53	0.000	0.000	119.85	0.00	0.00
15	152.00	TA08025-B605	3	36.874	40.561	0.50	0.75	2.95	202.50	0.000	0.000	119.85	0.00	0.00
16	152.00	RDIDC-9181-OF-48	1	36.874	40.561	0.75	0.75	1.51	19.71	0.000	0.000	61.15	0.00	0.00
17	142.00	4449 B71 + B85	4	36.164	39.780	0.50	0.75	3.96	263.52	0.000	0.000	157.52	0.00	0.00
18	142.00	KRY 112 144/1	3	36.164	39.780	0.38	0.75	0.46	29.70	0.000	0.000	18.35	0.00	0.00
19	142.00	APXVA18-43-C-A20	1	36.164	39.780	0.61	0.75	5.93	40.86	0.000	0.000	236.09	0.00	0.00
20	142.00	APXVAARR24_43-U-NA2	3	36.164	39.780	0.52	0.75	31.88	345.60	0.000	0.000	1268.12	0.00	0.00
21	142.00	KRD 9011461-B66A-B2A	4	36.164	39.780	0.65	0.75	16.99	475.92	0.000	0.000	675.91	0.00	0.00
22	142.00	Mod	1	36.164	39.780	1.00	1.00	12.00	270.00	0.000	0.000	477.36	0.00	0.00
23	142.00	Platform w/ HR & Bracing	1	36.164	39.780	1.00	1.00	52.00	2021.40	0.000	0.000	2068.57	0.00	0.00
24	142.00	Ericsson 4460 B25 + B66	4	36.164	39.780	0.50	0.75	5.73	392.40	0.000	0.000	227.88	0.00	0.00
25	142.00	Ericsson Air 6419 B41	4	36.164	39.780	0.57	0.75	8.66	237.96	0.000	0.000	344.66	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	35.494	39.043	0.57	0.80	19.45	181.80	0.000	0.000	759.32	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	35.494	39.043	0.58	0.80	10.44	86.13	0.000	0.000	407.46	0.00	0.00
28	133.00	Kathrein 800-10965	3	35.494	39.043	0.57	0.80	23.53	293.22	0.000	0.000	918.77	0.00	0.00
29	133.00	(3) SitePro 1 P/N	2	35.494	39.043	0.56	0.75	24.01	2443.99	0.000	0.000	937.32	0.00	0.00
30	133.00	Powerwave LGP21401	6	35.494	39.043	0.54	0.80	4.15	76.14	0.000	0.000	161.98	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	35.494	39.043	0.54	0.80	6.22	207.90	0.000	0.000	242.96	0.00	0.00
32	133.00	Ericsson B2/B66A 8843	3	35.494	39.043	0.54	0.80	2.64	194.40	0.000	0.000	102.96	0.00	0.00
33	133.00	Ericsson B5/B12 4449	3	35.494	39.043	0.54	0.80	3.17	191.70	0.000	0.000	123.68	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F	2	35.494	39.043	0.54	0.80	0.99	57.24	0.000	0.000	38.51	0.00	0.00
35	133.00	4478 B14	3	35.494	39.043	0.54	0.80	2.96	161.73	0.000	0.000	115.52	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	35.494	39.043	0.80	0.80	0.91	23.58	0.000	0.000	35.61	0.00	0.00
37	131.75	AIR 6449 B77D	3	35.398	38.938	0.68	0.80	8.43	237.60	0.000	0.000	328.06	0.00	0.00
38	110.00	3 ft Standoff	1	33.619	36.981	1.00	1.00	2.63	36.00	0.000	0.000	97.26	0.00	0.00
39	110.00	DB222	1	34.049	37.454	1.00	1.00	2.65	14.40	0.000	5.000	99.25	0.00	496.27
40	40.00	GPS	1	25.181	27.699	1.00	1.00	1.00	9.00	0.000	0.000	27.70	0.00	0.00
<b>Totals:</b>									<b>12,737.11</b>			<b>18,289.31</b>		

## Total Applied Force Summary

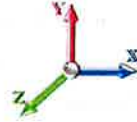
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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
1.00		107.43	499.34	0.00	0.00
2.00		107.15	498.62	0.00	0.00
4.00		213.45	995.09	0.00	0.00
6.00		212.32	992.23	0.00	0.00
8.00		211.18	989.36	0.00	0.00
10.00		210.05	986.49	0.00	0.00
12.00		208.91	983.62	0.00	0.00
14.00		207.78	980.75	0.00	0.00
16.00		206.64	977.88	0.00	0.00
16.25		26.16	166.06	0.00	0.00
18.00		182.62	1159.90	0.00	0.00
18.63		65.53	416.49	0.00	0.00
18.88		25.97	165.12	0.00	0.00
20.00		116.15	738.62	0.00	0.00
22.00		206.53	1314.48	0.00	0.00
24.00		204.30	971.95	0.00	0.00
26.00		203.16	969.08	0.00	0.00
28.00		202.03	966.21	0.00	0.00
30.00		216.21	1233.34	0.00	0.00
31.00		108.69	615.59	0.00	0.00
32.00		109.39	614.87	0.00	0.00
33.38		133.23	474.75	0.00	0.00
34.00		59.91	212.85	0.00	0.00
36.00		195.33	684.73	0.00	0.00
38.00		196.63	681.86	0.00	0.00
40.00	(1) attachments	225.47	687.99	0.00	0.00
42.00		198.76	675.83	0.00	0.00
44.00		199.61	672.96	0.00	0.00
45.16		115.80	389.00	0.00	0.00
46.00		83.92	281.09	0.00	0.00
48.00		200.92	667.22	0.00	0.00
50.00		201.40	664.35	0.00	0.00
52.00		205.45	969.20	0.00	0.00
54.00		205.75	963.46	0.00	0.00
56.00		205.96	957.72	0.00	0.00
58.00		206.08	658.42	0.00	0.00
60.00		206.11	655.55	0.00	0.00
62.00		206.05	652.68	0.00	0.00
64.00		205.91	649.81	0.00	0.00
66.00		205.70	646.94	0.00	0.00
68.00		205.41	644.07	0.00	0.00
70.00		205.05	641.20	0.00	0.00
72.00		204.63	638.33	0.00	0.00
74.00		204.13	635.46	0.00	0.00
76.00		203.58	632.59	0.00	0.00
78.00		202.96	629.72	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 34



80.00	202.29	626.85	0.00	0.00	
82.00	201.56	580.26	0.00	0.00	
84.00	200.77	577.87	0.00	0.00	
86.00	199.94	575.48	0.00	0.00	
88.00	199.05	573.08	0.00	0.00	
90.00	198.11	570.69	0.00	0.00	
92.00	197.12	568.30	0.00	0.00	
94.00	196.09	565.91	0.00	0.00	
95.00	97.49	282.06	0.00	0.00	
95.58	57.44	223.56	0.00	0.00	
96.00	41.53	161.63	0.00	0.00	
98.00	197.55	766.79	0.00	0.00	
100.00	196.40	492.01	0.00	0.00	
102.00	195.22	290.20	0.00	0.00	
104.00	193.99	287.81	0.00	0.00	
106.00	192.72	285.41	0.00	0.00	
108.00	191.41	283.02	0.00	0.00	
110.00	(2) attachments	386.58	331.03	0.00	496.27
112.00		188.68	277.30	0.00	0.00
114.00		187.26	274.91	0.00	0.00
115.00		92.97	136.56	0.00	0.00
116.00		92.61	117.76	0.00	0.00
118.00		184.32	234.09	0.00	0.00
120.00		182.79	232.17	0.00	0.00
122.00		181.24	230.26	0.00	0.00
124.00		179.65	228.35	0.00	0.00
126.00		178.03	226.44	0.00	0.00
128.00		176.37	224.52	0.00	0.00
130.00		174.69	222.61	0.00	0.00
131.75	(3) attachments	479.46	430.81	0.00	0.00
132.00		21.49	27.48	0.00	0.00
133.00	(29) attachments	3929.82	4027.46	0.00	0.00
134.00		85.30	97.16	0.00	0.00
136.00		169.46	192.89	0.00	0.00
138.00		167.66	190.98	0.00	0.00
140.00		165.83	189.07	0.00	0.00
142.00	(25) attachments	5638.42	4264.52	0.00	0.00
144.00		162.09	161.14	0.00	0.00
145.00		80.25	79.85	0.00	0.00
146.00		48.67	77.95	0.00	0.00
148.00		96.56	154.49	0.00	0.00
150.00		95.36	152.63	0.00	0.00
152.00	(11) attachments	2738.81	2239.26	0.00	0.00
154.00		70.03	112.49	0.00	0.00
156.00		70.29	112.49	0.00	0.00
158.00		70.54	112.49	0.00	0.00
160.00	(34) attachments	5820.26	2434.22	0.00	11794.94
	<b>Totals:</b>	<b>33,109.57</b>	<b>58,807.18</b>	<b>0.00</b>	<b>12,291.20</b>

## Linear Appurtenance Segment Forces (Factored)

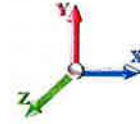
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	23.174	0.00	1.98
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	0.47
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	1.79
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	1.98
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	1.72
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	23.174	0.00	0.47
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	23.174	0.00	108.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	23.174	0.00	162.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	23.174	0.00	1.98
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	0.47
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	1.79
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	1.98
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	1.72
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	23.174	0.00	0.47
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	23.174	0.00	108.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	23.174	0.00	162.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	23.174	0.00	3.96
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	0.94
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	3.58
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	3.96
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	3.43
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	23.174	0.00	0.94
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	23.174	0.00	216.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	23.174	0.00	324.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	23.174	0.00	3.96
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	0.94
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	3.58
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	3.96
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	3.43
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	23.174	0.00	0.94
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	23.174	0.00	216.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	23.174	0.00	324.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	23.174	0.00	3.96
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	0.94
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	3.58
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	3.96
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	3.43
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	23.174	0.00	0.94
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	23.174	0.00	216.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	23.174	0.00	324.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	23.174	0.00	3.96
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	0.94
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	3.58
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	3.96
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	3.43
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	23.174	0.00	0.94
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	23.174	0.00	216.00

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	23.174	0.00	324.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	23.174	0.00	3.96
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	0.94
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	3.58
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	3.96
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	3.43
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	23.174	0.00	0.94
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	23.174	0.00	216.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	23.174	0.00	324.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	23.174	0.00	3.96
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	0.94
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	3.58
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	3.96
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	3.43
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	23.174	0.00	0.94
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	23.174	0.00	216.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	23.174	0.00	324.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	23.174	0.00	3.96
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	0.94
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	3.58
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	3.96
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	3.43
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	23.174	0.00	0.94
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	23.174	0.00	216.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	23.174	0.00	324.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	23.174	0.00	0.50
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.12
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.45
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.50
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.43
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	23.174	0.00	0.12
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	23.174	0.00	27.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	23.174	0.00	40.50
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	23.174	0.00	3.47
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	0.82
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	3.14
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	3.47
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	3.01
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	23.174	0.00	0.82
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	23.174	0.00	189.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	23.174	0.00	283.50
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	23.174	0.00	1.25
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.29
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	1.13
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	1.25
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	1.08
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.29



## Linear Appurtenance Segment Forces (Factored)

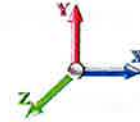
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	23.174	0.00	68.04
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	23.174	0.00	102.06
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	23.174	0.00	0.50
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.12
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.45
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.50
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.43
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	23.174	0.00	0.12
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	23.174	0.00	27.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	23.174	0.00	40.50
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	23.174	0.00	2.22
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	0.52
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	2.01
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	2.22
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	1.92
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	0.52
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	23.174	0.00	120.96
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	23.174	0.00	181.44
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	23.174	0.00	3.96
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	0.94
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	3.58
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	3.96
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	3.43
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	23.174	0.00	0.94
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	23.174	0.00	216.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	23.174	0.00	324.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	23.174	0.00	3.96
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	0.94
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	3.58
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	3.96
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	3.43
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	23.174	0.00	0.94
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	23.174	0.00	216.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	23.174	0.00	324.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	23.174	0.00	3.96
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	0.94
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	3.58
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	3.96
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	3.43
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	23.174	0.00	0.94
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	23.174	0.00	216.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	23.174	0.00	324.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	23.174	0.00	3.96
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	0.94
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	3.58
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	3.96
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	3.43

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	23.174	0.00	0.94
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	23.174	0.00	216.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	23.174	0.00	324.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	23.194	0.00	3.96
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	0.94
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	3.58
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	3.96
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	3.43
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	23.194	0.00	0.94
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	23.194	0.00	270.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	23.194	0.00	216.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	23.194	0.00	324.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	23.412	0.00	1.98
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	0.47
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	1.79
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	1.98
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	1.72
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	23.412	0.00	0.47
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	23.412	0.00	135.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	23.412	0.00	108.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	23.412	0.00	162.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	23.625	0.00	1.98
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	0.47
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	1.79
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	1.98
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	1.72
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	23.625	0.00	0.47
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	23.625	0.00	135.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	23.625	0.00	108.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	23.625	0.00	162.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	23.912	0.00	2.73
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	0.65
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	2.47
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	2.73
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	2.37
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	23.912	0.00	0.65
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	23.912	0.00	186.30
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	24.038	0.00	1.23
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	0.29
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	1.11
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	1.23
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	1.06
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	24.038	0.00	0.29
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	24.038	0.00	83.70
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	24.434	0.00	3.96
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	0.94
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	3.58

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	3.96
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	3.43
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.434	0.00	0.94
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	24.434	0.00	270.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	24.814	0.00	3.96
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	0.94
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	3.58
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	3.96
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	3.43
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	24.814	0.00	0.94
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	24.814	0.00	270.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	25.181	0.00	3.96
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	0.94
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	3.58
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	3.96
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	3.43
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	25.181	0.00	0.94
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	25.181	0.00	270.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	25.534	0.00	3.96
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	0.94
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	3.58
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	3.96
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	3.43
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.534	0.00	0.94
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	25.534	0.00	270.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	25.876	0.00	3.96
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	0.94
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	3.58
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	3.96
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	3.43
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	25.876	0.00	0.94
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	25.876	0.00	270.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	26.069	0.00	2.30
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	0.54
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	2.08
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	2.30
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	1.99
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	26.069	0.00	0.54
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	26.069	0.00	156.60
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	26.207	0.00	1.66
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	0.39
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	1.51
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	1.66
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	1.44
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	26.207	0.00	0.39
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	26.207	0.00	113.40
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	26.527	0.00	3.96

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

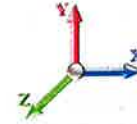


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**Load Case:** 0.9D + 1.0W 118 mph Wind

**Dead Load Factor** 0.90

**Wind Load Factor** 1.00



**Iterations** 27

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)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	0.94
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	3.58
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	3.96
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	0.94
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.527	0.00	0.94
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	26.527	0.00	270.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	26.838	0.00	3.96
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	0.94
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	3.58
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	3.96
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	3.43
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	26.838	0.00	0.94
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	26.838	0.00	270.00
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	26.838	0.00	270.00
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	27.141	0.00	3.96
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	0.94
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	3.58
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	3.96
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	3.43
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	27.141	0.00	0.94
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	27.141	0.00	270.00
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	27.141	0.00	270.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	27.435	0.00	3.96
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	0.94
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	3.58
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	3.96
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	3.43
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	27.435	0.00	0.94
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	27.435	0.00	270.00
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	27.435	0.00	270.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	27.722	0.00	3.96
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	0.94
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	3.58
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	3.96
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	3.43
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	27.722	0.00	0.94
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	27.722	0.00	270.00
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	27.722	0.00	270.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	28.001	0.00	3.96
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	0.94
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	3.58
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	3.96
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	3.43
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	28.001	0.00	0.94
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.001	0.00	270.00
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	28.001	0.00	270.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	28.273	0.00	3.96
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	0.94
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	3.58
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	3.96
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	3.43
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.273	0.00	0.94

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	28.273	0.00	270.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	28.540	0.00	3.96
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	0.94
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	3.58
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	3.96
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	3.43
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	28.540	0.00	0.94
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	28.540	0.00	270.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	28.800	0.00	3.96
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	0.94
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	3.58
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	3.96
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	3.43
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	28.800	0.00	0.94
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	28.800	0.00	270.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	29.054	0.00	3.96
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	0.94
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	3.58
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	3.96
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	3.43
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	29.054	0.00	0.94
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	29.054	0.00	270.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	29.303	0.00	3.96
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	0.94
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	3.58
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	3.96
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	3.43
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	29.303	0.00	0.94
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	29.303	0.00	270.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	29.547	0.00	3.96
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	0.94
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	3.58
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	3.96
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	3.43
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.547	0.00	0.94
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	29.547	0.00	270.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	29.785	0.00	3.96
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	0.94
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	3.58
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	3.96
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	3.43
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	29.785	0.00	0.94
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	29.785	0.00	270.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	30.019	0.00	3.96
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	0.94
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	3.58
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	3.96

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	3.43
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	30.019	0.00	0.94
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	30.019	0.00	270.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	30.249	0.00	3.96
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	0.94
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	3.58
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	3.96
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	3.43
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	30.249	0.00	0.94
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	30.249	0.00	270.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	30.474	0.00	3.96
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	0.94
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	3.58
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	3.96
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	3.43
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	30.474	0.00	0.94
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	30.474	0.00	270.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	30.696	0.00	3.96
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	0.94
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	3.58
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	3.96
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	3.43
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	30.696	0.00	0.94
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	30.696	0.00	270.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	30.913	0.00	3.96
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	0.94
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	3.58
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	3.96
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	3.43
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	30.913	0.00	0.94
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	30.913	0.00	270.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	31.126	0.00	3.96
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	0.94
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	3.58
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	3.96
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	3.43
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	31.126	0.00	0.94
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	31.126	0.00	270.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	31.336	0.00	3.96
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	0.94
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	3.58
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	3.96
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	3.43
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	31.336	0.00	0.94
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	31.336	0.00	270.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	31.543	0.00	3.96
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	0.94

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

8/17/2023

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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	3.58
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	3.96
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	3.43
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	31.543	0.00	0.94
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	31.543	0.00	270.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	31.746	0.00	3.96
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	0.94
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	3.58
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	3.96
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	3.43
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	31.746	0.00	0.94
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	31.746	0.00	270.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	31.946	0.00	3.96
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	0.94
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	3.58
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	3.96
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	3.43
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	31.946	0.00	0.94
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	31.946	0.00	270.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	32.143	0.00	3.96
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	0.94
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	3.58
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	3.96
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	3.43
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	32.143	0.00	0.94
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	32.143	0.00	270.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	32.240	0.00	1.98
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	0.47
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	1.79
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	1.98
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	1.72
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	32.240	0.00	0.47
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	32.240	0.00	135.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	32.296	0.00	1.15
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	0.27
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	1.04
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	1.15
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	1.00
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	32.296	0.00	0.27
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	32.296	0.00	78.30
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	32.337	0.00	0.83
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.20
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.75
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.83
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.72
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	32.337	0.00	0.20
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	32.337	0.00	56.70

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA      **Code:** TIA-222-H      **8/17/2023**  
**Site Name:** Beacon Falls      **Exposure:** B  
**Height:** 160.00 (ft)      **Crest Height:** 0.00  
**Base Elev:** 0.000 (ft)      **Site Class:** D - Stiff Soil  
**Gh:** 1.1      **Topography:** 1      **Struct Class:** II      **Page:** 44



**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations**    27

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	32.528	0.00	3.96
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	0.94
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	3.58
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	3.96
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	3.43
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	32.528	0.00	0.94
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	32.528	0.00	270.00
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	32.716	0.00	3.96
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	0.94
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	3.58
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	3.96
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	3.43
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.716	0.00	0.94
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	32.902	0.00	3.96
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	0.94
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	3.58
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	3.96
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	3.43
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	32.902	0.00	0.94
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	33.085	0.00	3.96
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	0.94
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	3.58
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	3.96
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	3.43
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	33.085	0.00	0.94
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	33.266	0.00	3.96
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	0.94
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	3.58
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	3.96
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	3.43
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	33.266	0.00	0.94
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	33.444	0.00	3.96
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	0.94
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	3.58
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	3.96
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	3.43
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	33.444	0.00	0.94
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	33.619	0.00	3.96
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	0.94
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	3.58
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	3.96
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	3.43
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.619	0.00	0.94
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	33.793	0.00	3.96
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	0.94
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	3.58
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	3.96



## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

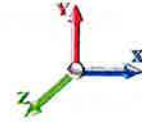
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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	33.793	0.00	3.43
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	33.964	0.00	3.96
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	0.94
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	3.58
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	3.96
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	33.964	0.00	3.43
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	34.049	0.00	1.98
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	0.47
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	1.79
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	1.98
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.049	0.00	1.72
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	34.133	0.00	1.98
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	0.47
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	1.79
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	1.98
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	34.133	0.00	1.72
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	34.301	0.00	3.96
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	0.94
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	3.58
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	3.96
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	34.301	0.00	3.43
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	34.466	0.00	3.96
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	0.94
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	3.58
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	3.96
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	34.466	0.00	3.43
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	34.629	0.00	3.96
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	0.94
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	3.58
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	3.96
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.629	0.00	3.43
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	34.790	0.00	3.96
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	0.94
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	3.58
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	3.96
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	34.790	0.00	3.43
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	34.950	0.00	3.96
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	0.94
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	3.58
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	3.96
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	34.950	0.00	3.43
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	35.107	0.00	3.96
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	0.94
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	3.58
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	3.96
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	35.107	0.00	3.43
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	35.263	0.00	3.96

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA      **Code:** TIA-222-H      8/17/2023  
**Site Name:** Beacon Falls      **Exposure:** B  
**Height:** 160.00 (ft)      **Crest Height:** 0.00  
**Base Elev:** 0.000 (ft)      **Site Class:** D - Stiff Soil  
**Gh:** 1.1      **Topography:** 1      **Struct Class:** II      Page: 46



**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	0.94
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	3.58
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	3.96
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	35.263	0.00	3.43
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	35.398	0.00	3.47
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	0.82
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	3.14
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	3.47
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	35.398	0.00	3.01
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	35.417	0.00	0.50
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.12
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.45
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.50
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	35.417	0.00	0.43
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	35.494	0.00	1.98
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	0.47
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	1.79
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	1.98
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	35.494	0.00	1.72
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	35.570	0.00	1.98
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	0.47
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	1.79
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	1.98
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	35.570	0.00	1.72
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	35.721	0.00	3.96
136.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	0.94
136.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	3.58
136.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	3.96
136.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	35.721	0.00	3.43
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	35.870	0.00	3.96
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	0.94
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	3.58
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	3.96
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	35.870	0.00	3.43
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	36.018	0.00	3.96
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	0.94
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	3.58
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	3.96
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	36.018	0.00	3.43
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	36.164	0.00	3.96
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	0.94
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	3.58
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	3.96
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	36.164	0.00	3.43
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	36.309	0.00	3.96
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	36.309	0.00	0.94
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	36.309	0.00	3.58

## Linear Appurtenance Segment Forces (Factored)

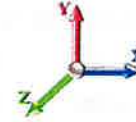
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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**Load Case:** 0.9D + 1.0W 118 mph Wind

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



**Iterations** 27

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)
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	36.381	0.00	1.98
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	36.381	0.00	0.47
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	36.381	0.00	1.79
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	36.452	0.00	1.98
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	36.452	0.00	0.47
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	36.452	0.00	1.79
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	36.594	0.00	3.96
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	36.594	0.00	0.94
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	36.594	0.00	3.58
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	36.735	0.00	3.96
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	36.735	0.00	0.94
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	36.735	0.00	3.58
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	36.874	0.00	3.96
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	36.874	0.00	0.94
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	36.874	0.00	3.58
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.012	0.00	3.96
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.012	0.00	0.94
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.149	0.00	3.96
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.149	0.00	0.94
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.284	0.00	3.96
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.284	0.00	0.94
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	37.418	0.00	3.96
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	37.418	0.00	0.94
<b>Totals:</b>											<b>0.0</b>	<b>19,330.5</b>

Calculated Forces

Structure: CT02049-S-SBA  
Site Name: Beacon Falls  
Height: 160.00 (ft)  
Base Elev: 0.000 (ft)  
Gh: 1.1

Topography: 1

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

8/17/2023

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Load Case: 0.9D + 1.0W 118 mph Wind

Dead Load Factor 0.90

Wind Load Factor 1.00



Iterations 27

Table with 15 columns: 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. Rows range from 0.00 to 80.00.



## Wind Loading - Shaft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

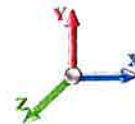
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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



**Iterations** 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	RB1 RB2	1.00	0.70	4.161	4.58	0.00	1.200	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3	1.00	0.70	4.161	4.58	0.00	1.227 *	0.705	1.00	4.455	5.47	25.0	45.3	291.4
2.00		1.00	0.70	4.161	4.58	0.00	1.229 *	0.756	1.00	4.447	5.46	25.0	48.5	293.6
4.00		1.00	0.70	4.161	4.58	0.00	1.231 *	0.810	2.00	8.862	10.91	49.9	103.2	590.5
6.00		1.00	0.70	4.161	4.58	0.00	1.234 *	0.843	2.00	8.806	10.87	49.7	106.7	590.2
8.00		1.00	0.70	4.161	4.58	0.00	1.237 *	0.868	2.00	8.747	10.82	49.5	109.0	588.7
10.00		1.00	0.70	4.161	4.58	0.00	1.240 *	0.887	2.00	8.687	10.78	49.3	110.7	586.5
12.00		1.00	0.70	4.161	4.58	0.00	1.244 *	0.904	2.00	8.625	10.73	49.1	111.8	583.9
14.00		1.00	0.70	4.161	4.58	0.00	1.247 *	0.918	2.00	8.563	10.68	48.9	112.7	580.9
16.00	Bot - Section 2	1.00	0.70	4.161	4.58	0.00	1.250 *	0.930	2.00	8.500	10.63	48.6	113.3	577.7
16.25	RT1 RB4	1.00	0.70	4.161	4.58	0.00	1.252 *	0.932	0.25	1.074	1.34	6.2	14.4	130.9
18.00		1.00	0.70	4.161	4.58	0.00	1.254 *	0.941	1.75	7.492	9.39	43.0	101.1	913.1
18.63	RB5	1.00	0.70	4.161	4.58	0.00	1.256 *	0.944	0.63	2.685	3.37	15.4	36.4	327.3
18.88	RT3	1.00	0.70	4.161	4.58	0.00	1.257 *	0.946	0.25	1.064	1.34	6.1	14.5	129.7
20.00		1.00	0.70	4.161	4.58	0.00	1.258 *	0.951	1.12	4.753	5.98	27.4	64.9	579.6
22.00	Top - Section 1	1.00	0.70	4.161	4.58	0.00	1.261 *	0.960	2.00	8.439	10.64	48.7	116.1	1029.2
24.00		1.00	0.70	4.161	4.58	0.00	1.257 *	0.969	2.00	8.374	10.53	48.2	116.2	572.6
26.00		1.00	0.70	4.161	4.58	0.00	1.261 *	0.976	2.00	8.310	10.48	48.0	116.2	568.8
28.00		1.00	0.70	4.161	4.58	0.00	1.264 *	0.984	2.00	8.246	10.43	47.7	116.1	564.9
30.00	RB6	1.00	0.70	4.164	4.58	0.00	1.364 *	0.991	2.00	8.181	11.15	51.1	115.9	560.9
31.00	RT4	1.00	0.71	4.204	4.62	0.00	1.367 *	0.994	1.00	4.066	5.56	25.7	57.9	279.0
32.00		1.00	0.71	4.242	4.67	0.00	1.369 *	0.997	1.00	4.050	5.54	25.9	57.9	278.0
33.38	RT5	1.00	0.72	4.293	4.72	0.00	1.200	1.001	1.38	5.562	6.67	31.5	79.7	381.9
34.00		1.00	0.73	4.316	4.75	0.00	1.200	1.003	0.62	2.489	2.99	14.2	35.8	170.9
36.00		1.00	0.74	4.387	4.83	0.00	1.200	1.009	2.00	7.986	9.58	46.2	115.1	548.6
38.00		1.00	0.75	4.455	4.90	0.00	1.200	1.014	2.00	7.921	9.51	46.6	114.8	544.4
40.00	Appurtenance(s)	1.00	0.76	4.521	4.97	0.00	1.200	1.019	2.00	7.856	9.43	46.9	114.4	540.2
42.00		1.00	0.77	4.585	5.04	0.00	1.200	1.024	2.00	7.790	9.35	47.1	113.9	536.0
44.00		1.00	0.78	4.646	5.11	0.00	1.200	1.029	2.00	7.725	9.27	47.4	113.5	531.7
45.16	RB7	1.00	0.79	4.681	5.15	0.00	1.200	1.032	1.16	4.450	5.34	27.5	65.6	306.4
46.00	RT6	1.00	0.79	4.705	5.18	0.00	1.200	1.034	0.84	3.209	3.85	19.9	47.4	221.0
48.00		1.00	0.80	4.763	5.24	0.00	1.200	1.038	2.00	7.594	9.11	47.7	112.4	523.0
50.00	Bot - Section 3	1.00	0.81	4.819	5.30	0.00	1.200	1.042	2.00	7.529	9.03	47.9	111.9	518.6
52.00		1.00	0.82	4.873	5.36	0.00	1.200	1.047	2.00	7.592	9.11	48.8	113.3	926.5
54.00		1.00	0.83	4.926	5.42	0.00	1.200	1.050	2.00	7.527	9.03	48.9	112.7	918.2
56.00	Top - Section 2	1.00	0.84	4.977	5.48	0.00	1.200	1.054	2.00	7.461	8.95	49.0	112.1	910.0
58.00	RT7 RB8	1.00	0.85	5.027	5.53	0.00	1.200	1.058	2.00	7.395	8.87	49.1	111.5	510.3
60.00		1.00	0.85	5.076	5.58	0.00	1.200	1.062	2.00	7.330	8.80	49.1	110.8	505.8
62.00		1.00	0.86	5.124	5.64	0.00	1.200	1.065	2.00	7.264	8.72	49.1	110.1	501.3
64.00		1.00	0.87	5.171	5.69	0.00	1.200	1.068	2.00	7.198	8.64	49.1	109.4	496.8
66.00		1.00	0.88	5.217	5.74	0.00	1.200	1.072	2.00	7.132	8.56	49.1	108.7	492.2
68.00		1.00	0.89	5.261	5.79	0.00	1.200	1.075	2.00	7.066	8.48	49.1	108.0	487.7
70.00		1.00	0.89	5.305	5.84	0.00	1.200	1.078	2.00	7.000	8.40	49.0	107.3	483.1
72.00		1.00	0.90	5.348	5.88	0.00	1.200	1.081	2.00	6.935	8.32	49.0	106.5	478.6
74.00		1.00	0.91	5.390	5.93	0.00	1.200	1.084	2.00	6.869	8.24	48.9	105.8	474.0
76.00		1.00	0.91	5.431	5.97	0.00	1.200	1.087	2.00	6.803	8.16	48.8	105.0	469.4
78.00	RT8 RB9	1.00	0.92	5.472	6.02	0.00	1.200	1.090	2.00	6.737	8.08	48.7	104.2	464.7

## Wind Loading - Shaft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

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80.00 Top - Section 3	1.00	0.93	5.511	6.06	0.00	1.200	1.093	2.00	6.671	8.00	48.5	103.4	460.1
82.00	1.00	0.93	5.550	6.11	0.00	1.200	1.095	2.00	6.605	7.93	48.4	102.6	397.2
84.00	1.00	0.94	5.589	6.15	0.00	1.200	1.098	2.00	6.538	7.85	48.2	101.8	393.2
86.00	1.00	0.95	5.626	6.19	0.00	1.200	1.101	2.00	6.472	7.77	48.1	100.9	389.1
88.00	1.00	0.95	5.663	6.23	0.00	1.200	1.103	2.00	6.406	7.69	47.9	100.1	385.1
90.00	1.00	0.96	5.700	6.27	0.00	1.200	1.106	2.00	6.340	7.61	47.7	99.2	381.1
92.00	1.00	0.96	5.736	6.31	0.00	1.200	1.108	2.00	6.274	7.53	47.5	98.4	377.0
94.00	1.00	0.97	5.771	6.35	0.00	1.200	1.110	2.00	6.208	7.45	47.3	97.5	373.0
95.00 Bot - Section 5	1.00	0.97	5.789	6.37	0.00	1.200	1.112	1.00	3.079	3.69	23.5	48.5	185.1
95.58 RT9	1.00	0.98	5.799	6.38	0.00	1.200	1.112	0.58	1.810	2.17	13.9	28.6	187.7
96.00	1.00	0.98	5.806	6.39	0.00	1.200	1.113	0.42	1.307	1.57	10.0	20.7	135.6
98.00	1.00	0.98	5.840	6.42	0.00	1.200	1.115	2.00	6.183	7.42	47.7	97.5	640.8
100.00 Top - Section 4	1.00	0.99	5.874	6.46	0.00	1.200	1.117	2.00	6.117	7.34	47.4	96.6	633.5
102.00	1.00	0.99	5.907	6.50	0.00	1.200	1.119	2.00	6.051	7.26	47.2	95.7	363.5
104.00	1.00	1.00	5.940	6.53	0.00	1.200	1.122	2.00	5.985	7.18	46.9	94.8	359.4
106.00	1.00	1.00	5.973	6.57	0.00	1.200	1.124	2.00	5.918	7.10	46.7	93.9	355.3
108.00	1.00	1.01	6.005	6.61	0.00	1.200	1.126	2.00	5.852	7.02	46.4	92.9	351.2
110.00 Appurtenance(s)	1.00	1.02	6.036	6.64	0.00	1.200	1.128	2.00	5.786	6.94	46.1	92.0	347.1
112.00	1.00	1.02	6.067	6.67	0.00	1.200	1.130	2.00	5.720	6.86	45.8	91.1	343.0
114.00	1.00	1.03	6.098	6.71	0.00	1.200	1.132	2.00	5.653	6.78	45.5	90.1	338.8
115.00 Top - Section 5	1.00	1.03	6.113	6.72	0.00	1.200	1.133	1.00	2.802	3.36	22.6	44.8	168.0
116.00	1.00	1.03	6.129	6.74	0.00	1.200	1.134	1.00	2.785	3.34	22.5	44.6	142.7
118.00	1.00	1.04	6.159	6.77	0.00	1.200	1.136	2.00	5.521	6.63	44.9	88.2	282.5
120.00	1.00	1.04	6.188	6.81	0.00	1.200	1.138	2.00	5.455	6.55	44.6	87.3	279.0
122.00	1.00	1.05	6.217	6.84	0.00	1.200	1.140	2.00	5.388	6.47	44.2	86.3	275.5
124.00	1.00	1.05	6.246	6.87	0.00	1.200	1.142	2.00	5.322	6.39	43.9	85.3	271.9
126.00	1.00	1.06	6.275	6.90	0.00	1.200	1.143	2.00	5.256	6.31	43.5	84.3	268.4
128.00	1.00	1.06	6.303	6.93	0.00	1.200	1.145	2.00	5.189	6.23	43.2	83.4	264.9
130.00	1.00	1.07	6.331	6.96	0.00	1.200	1.147	2.00	5.123	6.15	42.8	82.4	261.3
131.75 Appurtenance(s)	1.00	1.07	6.356	6.99	0.00	1.200	1.148	1.75	4.428	5.31	37.1	71.3	225.8
132.00	1.00	1.07	6.359	6.99	0.00	1.200	1.149	0.25	0.628	0.75	5.3	10.2	32.1
133.00 Appurtenance(s)	1.00	1.07	6.373	7.01	0.00	1.200	1.150	1.00	2.503	3.00	21.1	40.4	127.7
134.00	1.00	1.07	6.386	7.03	0.00	1.200	1.150	1.00	2.487	2.98	21.0	40.2	126.8
136.00	1.00	1.08	6.413	7.05	0.00	1.200	1.152	2.00	4.924	5.91	41.7	79.4	250.7
138.00	1.00	1.08	6.440	7.08	0.00	1.200	1.154	2.00	4.857	5.83	41.3	78.3	247.1
140.00	1.00	1.09	6.467	7.11	0.00	1.200	1.155	2.00	4.791	5.75	40.9	77.3	243.6
142.00 Appurtenance(s)	1.00	1.09	6.493	7.14	0.00	1.200	1.157	2.00	4.725	5.67	40.5	76.3	240.0
144.00	1.00	1.10	6.519	7.17	0.00	1.200	1.159	2.00	4.658	5.59	40.1	75.3	236.4
145.00 Top - Section 6	1.00	1.10	6.532	7.19	0.00	1.200	1.160	1.00	2.304	2.76	19.9	37.4	117.0
146.00	1.00	1.10	6.545	7.20	0.00	1.200	1.160	1.00	2.217	2.66	19.1	35.9	113.0
148.00	1.00	1.11	6.570	7.23	0.00	1.200	1.162	2.00	4.385	5.26	38.0	70.8	223.1
150.00 Top - Section 7	1.00	1.11	6.596	7.26	0.00	1.200	1.163	2.00	4.321	5.19	37.6	69.8	219.6
152.00 Appurtenance(s)	1.00	1.11	6.621	7.28	0.00	1.290 *	1.165	2.00	3.055	3.94	28.7	48.9	149.9
154.00	1.00	1.12	6.645	7.31	0.00	1.290 *	1.167	2.00	3.056	3.94	28.8	48.9	150.0
156.00	1.00	1.12	6.670	7.34	0.00	1.290 *	1.168	2.00	3.056	3.94	28.9	49.0	150.0
158.00	1.00	1.13	6.694	7.36	0.00	1.290 *	1.170	2.00	3.057	3.94	29.0	49.1	150.1
160.00 Appurtenance(s)	1.00	1.13	6.718	7.39	0.00	1.290 *	1.171	2.00	3.057	3.94	29.1	49.1	150.2
								<b>Totals:</b>	<b>160.00</b>		<b>3,648.2</b>		<b>36,322.7</b>

\* Cf Adjusted by Linear Load Ra Effect

## Discrete Appurtenance Forces

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

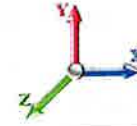
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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



**Iterations** 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	160.00	DB846F65ZAXY	6	6.742	7.416	0.70	0.75	32.85	895.51	0.000	2.000	243.67	0.00	487.33
2	160.00	JAHH-65B-R3B	6	6.742	7.416	0.62	0.75	27.74	1077.31	0.000	2.000	205.71	0.00	411.42
3	160.00	VZS01	3	6.742	7.416	0.52	0.75	8.26	537.95	0.000	2.000	61.27	0.00	122.55
4	160.00	CBC78T-DS-43-2X	3	6.742	7.416	0.50	0.75	0.82	127.29	0.000	2.000	6.11	0.00	12.21
5	160.00	DB222	1	6.778	7.455	1.00	1.00	6.32	45.80	0.000	5.000	47.10	0.00	235.48
6	160.00	6' Lightning rod	1	6.754	7.429	1.00	1.00	1.11	26.86	0.000	3.000	8.25	0.00	24.74
7	160.00	B2/B66A RRH-BR049	3	6.742	7.416	0.50	0.75	3.38	380.13	0.000	2.000	25.08	0.00	50.16
8	160.00	B5/B13 RRH-BR04C	3	6.742	7.416	0.50	0.75	3.38	445.96	0.000	2.000	25.08	0.00	50.16
9	160.00	Commscope	1	6.742	7.416	0.75	0.75	1.68	60.39	0.000	2.000	12.43	0.00	24.86
10	160.00	BSF0020F3V1-1	6	6.742	7.416	0.50	0.75	6.59	155.67	0.000	2.000	48.85	0.00	97.70
11	160.00	Low Profile Platform	1	6.742	7.416	1.00	1.00	82.32	1542.61	0.000	2.000	610.51	0.00	1221.02
12	152.00	MX08FRO665-21	3	6.621	7.283	0.55	0.75	22.42	613.11	0.000	0.000	163.31	0.00	0.00
13	152.00	MC-PK8-DSH	1	6.621	7.283	1.00	1.00	69.12	2826.11	0.000	0.000	503.38	0.00	0.00
14	152.00	TA08025-B604	3	6.621	7.283	0.50	0.75	3.52	295.13	0.000	0.000	25.63	0.00	0.00
15	152.00	TA08025-B605	3	6.621	7.283	0.50	0.75	3.52	336.95	0.000	0.000	25.63	0.00	0.00
16	152.00	RDIDC-9181-OF-48	1	6.621	7.283	0.75	0.75	1.79	49.13	0.000	0.000	13.05	0.00	0.00
17	142.00	4449 B71 + B85	4	6.493	7.142	0.50	0.75	4.72	270.90	0.000	0.000	33.70	0.00	0.00
18	142.00	KRY 112 144/1	3	6.493	7.142	0.38	0.75	0.82	51.74	0.000	0.000	5.83	0.00	0.00
19	142.00	APXVA18-43-C-A20	1	6.493	7.142	0.63	0.75	6.63	154.54	0.000	0.000	47.36	0.00	0.00
20	142.00	APXVAARR24_43-U-NA2	3	6.493	7.142	0.54	0.75	40.38	1045.57	0.000	0.000	288.39	0.00	0.00
21	142.00	KRD 9011461-B66A-B2A	4	6.493	7.142	0.67	0.75	21.40	1693.93	0.000	0.000	152.88	0.00	0.00
22	142.00	Mod	1	6.493	7.142	1.00	1.00	20.33	727.71	0.000	0.000	145.21	0.00	0.00
23	142.00	Platform w/ HR & Bracing	1	6.493	7.142	1.00	1.00	77.51	3770.31	0.000	0.000	553.62	0.00	0.00
24	142.00	Ericsson 4460 B25 + B66	4	6.493	7.142	0.50	0.75	6.63	645.90	0.000	0.000	47.33	0.00	0.00
25	142.00	Ericsson Air 6419 B41	4	6.493	7.142	0.57	0.75	9.87	481.64	0.000	0.000	70.47	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	6.373	7.010	0.57	0.80	20.73	732.00	0.000	0.000	145.32	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	6.373	7.010	0.58	0.80	11.13	472.15	0.000	0.000	78.00	0.00	0.00
28	133.00	Kathrein 800-10965	3	6.373	7.010	0.57	0.80	25.28	950.47	0.000	0.000	177.22	0.00	0.00
29	133.00	(3) SitePro 1 P/N	2	6.373	7.010	0.56	0.75	43.88	4522.34	0.000	0.000	307.59	0.00	0.00
30	133.00	Powerwave LGP21401	6	6.373	7.010	0.54	0.80	5.92	157.73	0.000	0.000	41.49	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	6.373	7.010	0.54	0.80	6.15	486.09	0.000	0.000	43.09	0.00	0.00
32	133.00	Ericsson B2/B66A 8843	3	6.373	7.010	0.54	0.80	3.16	315.77	0.000	0.000	22.18	0.00	0.00
33	133.00	Ericsson B5/B12 4449	3	6.373	7.010	0.54	0.80	3.75	320.28	0.000	0.000	26.27	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F	2	6.373	7.010	0.54	0.80	1.30	122.37	0.000	0.000	9.08	0.00	0.00
35	133.00	4478 B14	3	6.373	7.010	0.54	0.80	3.52	273.42	0.000	0.000	24.65	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	6.373	7.010	0.80	0.80	1.75	84.15	0.000	0.000	12.25	0.00	0.00
37	131.75	AIR 6449 B77D	3	6.356	6.991	0.68	0.80	9.55	571.43	0.000	0.000	66.77	0.00	0.00
38	110.00	3 ft Standoff	1	6.036	6.640	1.00	1.00	6.49	76.89	0.000	0.000	43.08	0.00	0.00
39	110.00	DB222	1	6.113	6.725	1.00	1.00	7.26	44.09	0.000	5.000	48.85	0.00	244.24
40	40.00	GPS	1	4.521	4.973	1.00	1.00	1.42	21.13	0.000	0.000	7.04	0.00	0.00
<b>Totals:</b>									<b>27,408.43</b>			<b>4,422.72</b>		



## Total Applied Force Summary

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 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
1.00		25.03	730.33	0.00	0.00
2.00		25.01	734.04	0.00	0.00
4.00		49.93	1474.94	0.00	0.00
6.00		49.74	1476.81	0.00	0.00
8.00		49.53	1476.94	0.00	0.00
10.00		49.32	1476.06	0.00	0.00
12.00		49.09	1474.53	0.00	0.00
14.00		48.87	1472.54	0.00	0.00
16.00		48.64	1470.19	0.00	0.00
16.25		6.16	242.45	0.00	0.00
18.00		42.99	1694.72	0.00	0.00
18.63		15.43	608.77	0.00	0.00
18.88		6.12	241.38	0.00	0.00
20.00		27.36	1080.23	0.00	0.00
22.00		48.69	1923.84	0.00	0.00
24.00		48.19	1467.80	0.00	0.00
26.00		47.95	1464.52	0.00	0.00
28.00		47.72	1461.13	0.00	0.00
30.00		51.10	1826.59	0.00	0.00
31.00		25.70	911.95	0.00	0.00
32.00		25.87	911.06	0.00	0.00
33.38		31.52	747.50	0.00	0.00
34.00		14.18	335.25	0.00	0.00
36.00		46.25	1078.99	0.00	0.00
38.00		46.58	1075.15	0.00	0.00
40.00	(1) attachments	53.92	1092.38	0.00	0.00
42.00		47.14	1066.92	0.00	0.00
44.00		47.37	1062.93	0.00	0.00
45.16		27.50	614.68	0.00	0.00
46.00		19.93	444.27	0.00	0.00
48.00		47.74	1054.83	0.00	0.00
50.00		47.89	1050.72	0.00	0.00
52.00		48.84	1458.86	0.00	0.00
54.00		48.94	1450.86	0.00	0.00
56.00		49.02	1442.84	0.00	0.00
58.00		49.08	1043.38	0.00	0.00
60.00		49.12	1039.14	0.00	0.00
62.00		49.13	1034.86	0.00	0.00
64.00		49.13	1030.57	0.00	0.00
66.00		49.11	1026.25	0.00	0.00
68.00		49.07	1021.91	0.00	0.00
70.00		49.02	1017.55	0.00	0.00
72.00		48.95	1013.17	0.00	0.00
74.00		48.87	1008.77	0.00	0.00
76.00		48.77	1004.36	0.00	0.00
78.00		48.65	999.93	0.00	0.00

## Total Applied Force Summary

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

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80.00		48.53	995.49	0.00	0.00
82.00		48.39	932.72	0.00	0.00
84.00		48.23	928.89	0.00	0.00
86.00		48.07	925.03	0.00	0.00
88.00		47.89	921.17	0.00	0.00
90.00		47.70	917.29	0.00	0.00
92.00		47.50	913.40	0.00	0.00
94.00		47.29	909.50	0.00	0.00
95.00		23.53	453.37	0.00	0.00
95.58		13.85	343.36	0.00	0.00
96.00		10.02	248.27	0.00	0.00
98.00		47.67	1177.65	0.00	0.00
100.00		47.43	800.18	0.00	0.00
102.00		47.18	530.31	0.00	0.00
104.00		46.93	526.34	0.00	0.00
106.00		46.66	522.35	0.00	0.00
108.00		46.39	518.35	0.00	0.00
110.00	(2) attachments	138.03	635.33	0.00	244.24
112.00		45.81	503.81	0.00	0.00
114.00		45.51	499.78	0.00	0.00
115.00		22.61	248.48	0.00	0.00
116.00		22.53	223.20	0.00	0.00
118.00		44.88	443.62	0.00	0.00
120.00		44.55	440.20	0.00	0.00
122.00		44.22	436.78	0.00	0.00
124.00		43.88	433.34	0.00	0.00
126.00		43.53	429.90	0.00	0.00
128.00		43.18	426.45	0.00	0.00
130.00		42.81	422.99	0.00	0.00
131.75	(3) attachments	103.92	938.76	0.00	0.00
132.00		5.27	52.30	0.00	0.00
133.00	(29) attachments	908.20	8645.35	0.00	0.00
134.00		20.96	191.73	0.00	0.00
136.00		41.68	380.62	0.00	0.00
138.00		41.29	377.14	0.00	0.00
140.00		40.90	373.66	0.00	0.00
142.00	(25) attachments	1385.29	9212.40	0.00	0.00
144.00		40.08	314.40	0.00	0.00
145.00		19.87	156.00	0.00	0.00
146.00		19.15	152.00	0.00	0.00
148.00		38.03	301.19	0.00	0.00
150.00		37.62	297.74	0.00	0.00
152.00	(11) attachments	759.70	4348.49	0.00	0.00
154.00		28.81	216.38	0.00	0.00
156.00		28.92	216.47	0.00	0.00
158.00		29.03	216.57	0.00	0.00
160.00	(34) attachments	1323.19	5512.13	0.00	2737.62
	<b>Totals:</b>	<b>8,070.89</b>	<b>100,447.75</b>	<b>0.00</b>	<b>2,981.86</b>

## Linear Appurtenance Segment Forces (Factored)

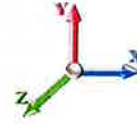
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

**Iterations** 26

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



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.28	0.00	0.108	1.023	4.161	0.00	6.11
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	1.94
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	4.21
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	6.11
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	4.53
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	4.161	0.00	1.94
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.20	0.00	0.108	1.023	4.161	0.00	146.50
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.33	0.00	0.108	1.023	4.161	0.00	219.05
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.29	0.00	0.108	1.024	4.161	0.00	6.36
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	2.08
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	4.37
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	6.36
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	4.72
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	4.161	0.00	2.08
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.21	0.00	0.108	1.024	4.161	0.00	146.71
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.34	0.00	0.108	1.024	4.161	0.00	219.29
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.60	0.00	0.109	1.026	4.161	0.00	13.26
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	4.45
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	9.10
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	13.26
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	9.85
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	4.161	0.00	4.45
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.44	0.00	0.109	1.026	4.161	0.00	293.88
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.70	0.00	0.109	1.026	4.161	0.00	439.11
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.61	0.00	0.109	1.028	4.161	0.00	13.60
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	4.65
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	9.32
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	13.60
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	10.12
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	4.161	0.00	4.65
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.45	0.00	0.109	1.028	4.161	0.00	294.17
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.71	0.00	0.109	1.028	4.161	0.00	439.44
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.62	0.00	0.110	1.031	4.161	0.00	13.86
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	4.79
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	9.49
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	13.86
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	10.32
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	4.161	0.00	4.79
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.46	0.00	0.110	1.031	4.161	0.00	294.39
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.72	0.00	0.110	1.031	4.161	0.00	439.69
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.63	0.00	0.111	1.034	4.161	0.00	14.06
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	4.91
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	9.63
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	14.06
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	10.48
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	4.161	0.00	4.91
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.46	0.00	0.111	1.034	4.161	0.00	294.57

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

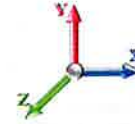
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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



**Iterations** 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)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.73	0.00	0.111	1.034	4.161	0.00	439.88
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.63	0.00	0.112	1.036	4.161	0.00	14.23
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	5.01
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	9.75
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	14.23
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	10.61
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	4.161	0.00	5.01
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.47	0.00	0.112	1.036	4.161	0.00	294.71
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.73	0.00	0.112	1.036	4.161	0.00	440.05
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.64	0.00	0.113	1.039	4.161	0.00	14.38
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	5.10
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	9.85
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	14.38
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	10.73
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	4.161	0.00	5.10
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.47	0.00	0.113	1.039	4.161	0.00	294.84
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.113	1.039	4.161	0.00	440.19
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.114	1.042	4.161	0.00	14.52
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.64	0.00	0.114	1.042	4.161	0.00	5.17
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	9.94
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	14.52
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	14.52
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	10.83
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	4.161	0.00	5.17
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.48	0.00	0.114	1.042	4.161	0.00	294.96
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.114	1.042	4.161	0.00	440.32
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.74	0.00	0.114	1.042	4.161	0.00	440.32
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.08	0.00	0.114	1.043	4.161	0.00	1.82
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	0.65
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.24
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.82
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	1.36
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	4.161	0.00	0.65
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.06	0.00	0.114	1.043	4.161	0.00	36.87
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.114	1.043	4.161	0.00	55.04
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.114	1.043	4.161	0.00	55.04
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.57	0.00	0.115	1.045	4.161	0.00	12.81
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	4.59
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	8.76
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	12.81
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	9.56
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	4.161	0.00	4.59
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.42	0.00	0.115	1.045	4.161	0.00	258.18
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.65	0.00	0.115	1.045	4.161	0.00	385.38
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.65	0.00	0.115	1.045	4.161	0.00	385.38
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.20	0.00	0.116	1.047	4.161	0.00	4.62
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.66
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	3.16
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	4.62
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	3.45
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.66

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

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



**Iterations** 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)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.15	0.00	0.116	1.047	4.161	0.00	92.95
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.24	0.00	0.116	1.047	4.161	0.00	138.75
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.08	0.00	0.116	1.047	4.161	0.00	1.84
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	0.66
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.26
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.84
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	1.37
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	4.161	0.00	0.66
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.06	0.00	0.116	1.047	4.161	0.00	36.89
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.09	0.00	0.116	1.047	4.161	0.00	55.06
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.36	0.00	0.116	1.048	4.161	0.00	8.26
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	2.97
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.65
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	8.26
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	6.17
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	2.97
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.27	0.00	0.116	1.048	4.161	0.00	165.28
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.42	0.00	0.116	1.048	4.161	0.00	246.70
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.65	0.00	0.117	1.050	4.161	0.00	14.84
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	5.36
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	10.16
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	14.84
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	11.09
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	4.161	0.00	5.36
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.117	1.050	4.161	0.00	295.24
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.75	0.00	0.117	1.050	4.161	0.00	440.64
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.116	1.048	4.161	0.00	14.94
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.42
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	10.22
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	14.94
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	11.16
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	4.161	0.00	5.42
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.116	1.048	4.161	0.00	295.31
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.116	1.048	4.161	0.00	440.73
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.117	1.051	4.161	0.00	15.02
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	5.47
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	10.28
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	15.02
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	11.23
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	4.161	0.00	5.47
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.117	1.051	4.161	0.00	295.39
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.117	1.051	4.161	0.00	440.81
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.118	1.054	4.161	0.00	15.10
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	5.52
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	10.33
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	15.10
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	11.29

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA      **Code:** TIA-222-H      8/17/2023  
**Site Name:** Beacon Falls      **Exposure:** B  
**Height:** 160.00 (ft)      **Crest Height:** 0.00  
**Base Elev:** 0.000 (ft)      **Site Class:** D - Stiff Soil  
**Gh:** 1.1      **Topography:** 1      **Struct Class:** II      Page: 58



**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 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)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	4.161	0.00	5.52
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.49	0.00	0.118	1.054	4.161	0.00	295.46
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.118	1.054	4.161	0.00	440.89
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.66	0.00	0.145	1.136	4.164	0.00	15.18
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	5.56
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	10.38
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	15.18
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	11.35
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	4.164	0.00	5.56
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.54	0.00	0.145	1.136	4.164	0.00	368.96
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.50	0.00	0.145	1.136	4.164	0.00	295.52
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.76	0.00	0.145	1.136	4.164	0.00	440.96
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.33	0.00	0.146	1.139	4.204	0.00	7.61
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.204	0.00	2.79
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.204	0.00	5.20
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.204	0.00	7.61
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.204	0.00	5.69
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	4.204	0.00	2.79
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.27	0.00	0.146	1.139	4.204	0.00	184.50
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.25	0.00	0.146	1.139	4.204	0.00	147.78
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.38	0.00	0.146	1.139	4.204	0.00	220.50
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.33	0.00	0.147	1.141	4.242	0.00	7.62
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	2.80
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	5.22
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	7.62
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	5.70
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	4.242	0.00	2.80
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.27	0.00	0.147	1.141	4.242	0.00	184.51
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.25	0.00	0.147	1.141	4.242	0.00	147.79
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.38	0.00	0.147	1.141	4.242	0.00	220.51
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.46	0.00	0.070	0.000	4.293	0.00	10.55
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	3.89
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	7.22
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	10.55
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	7.90
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	4.293	0.00	3.89
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.37	0.00	0.070	0.000	4.293	0.00	254.66
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.21	0.00	0.070	0.000	4.316	0.00	4.75
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	1.75
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	3.25
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	4.75
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	3.55
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	4.316	0.00	1.75
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.17	0.00	0.070	0.000	4.316	0.00	114.42
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.071	0.000	4.387	0.00	15.38
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	5.68
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	10.52

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

8/17/2023

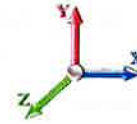
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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

**Iterations** 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)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	15.38
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	11.51
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.387	0.00	5.68
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.54	0.00	0.071	0.000	4.387	0.00	369.15
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.071	0.000	4.455	0.00	15.44
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	5.72
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	10.56
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	15.44
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	11.56
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	4.455	0.00	5.72
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.071	0.000	4.455	0.00	369.21
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.072	0.000	4.521	0.00	15.50
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	5.75
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	10.60
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	15.50
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	11.60
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	4.521	0.00	5.75
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.072	0.000	4.521	0.00	369.27
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.67	0.00	0.073	0.000	4.585	0.00	15.55
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.585	0.00	5.79
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.585	0.00	10.64
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.585	0.00	15.55
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.585	0.00	11.65
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.585	0.00	5.79
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.073	0.000	4.585	0.00	369.32
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.073	0.000	4.646	0.00	15.61
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	5.82
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	10.68
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	15.61
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	11.69
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	4.646	0.00	5.82
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.073	0.000	4.646	0.00	369.37
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.39	0.00	0.074	0.000	4.681	0.00	9.07
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.681	0.00	3.39
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.681	0.00	6.21
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.681	0.00	9.07
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.681	0.00	6.79
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	4.681	0.00	3.39
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.32	0.00	0.074	0.000	4.681	0.00	214.25
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.28	0.00	0.074	0.000	4.705	0.00	6.58
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	2.46
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	4.50
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	6.58
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	4.93
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	4.705	0.00	2.46
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.23	0.00	0.074	0.000	4.705	0.00	155.16
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.075	0.000	4.763	0.00	15.71

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

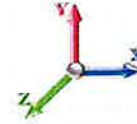
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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

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



**Iterations** 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)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	5.88
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	10.75
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	15.71
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	11.77
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.763	0.00	5.88
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.55	0.00	0.075	0.000	4.763	0.00	369.47
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.075	0.000	4.819	0.00	15.76
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	5.91
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	10.78
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	15.76
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	11.81
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	4.819	0.00	5.91
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.075	0.000	4.819	0.00	369.52
52.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.076	0.000	4.873	0.00	15.80
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	5.94
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	10.81
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	15.80
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	11.85
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	4.873	0.00	5.94
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.076	0.000	4.873	0.00	369.56
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.077	0.000	4.926	0.00	15.85
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	5.96
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	10.85
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	15.85
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	11.88
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	4.926	0.00	5.96
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.077	0.000	4.926	0.00	369.61
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.68	0.00	0.078	0.000	4.977	0.00	15.89
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	5.99
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	10.88
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	15.89
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	11.92
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	4.977	0.00	5.99
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	4.977	0.00	369.65
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.077	0.000	5.027	0.00	15.93
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	6.02
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	10.90
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	15.93
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	11.95
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	5.027	0.00	6.02
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.077	0.000	5.027	0.00	369.69
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.078	0.000	5.076	0.00	15.97
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	6.04
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	10.93
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	15.97
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	11.98
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.076	0.00	6.04



## Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	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**    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)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	5.076	0.00	369.73
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.078	0.000	5.124	0.00	16.01
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	6.06
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	10.96
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	16.01
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	12.01
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	5.124	0.00	6.06
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.078	0.000	5.124	0.00	369.77
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.079	0.000	5.171	0.00	16.05
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	6.09
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	10.99
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	16.05
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	12.05
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	5.171	0.00	6.09
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.56	0.00	0.079	0.000	5.171	0.00	369.80
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.080	0.000	5.217	0.00	16.09
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.217	0.00	6.11
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.217	0.00	11.01
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.217	0.00	16.09
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.217	0.00	12.08
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	5.217	0.00	6.11
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.080	0.000	5.217	0.00	369.84
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.081	0.000	5.261	0.00	16.13
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	6.13
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	11.04
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	16.13
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	12.10
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	5.261	0.00	6.13
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.081	0.000	5.261	0.00	369.88
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.082	0.000	5.305	0.00	16.16
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	6.16
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	11.06
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	16.16
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	12.13
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.305	0.00	6.16
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.082	0.000	5.305	0.00	369.91
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.082	0.000	5.348	0.00	16.20
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	6.18
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	11.09
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	16.20
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	12.16
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	5.348	0.00	6.18
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.082	0.000	5.348	0.00	369.95
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.69	0.00	0.083	0.000	5.390	0.00	16.23
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	6.20
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	11.11
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	16.23

## Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023	
Site Name: Beacon Falls	Exposure: B		
Height: 160.00 (ft)	Crest Height: 0.00		
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil		
Gh: 1.1	Topography: 1	Struct Class: II	Page: 62

Load Case: 1.2D + 1.0Di + 1.0Wi 50 mph Wind		<b>Iterations 26</b>
Dead Load Factor 1.20		
Wind Load Factor 1.00		

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	12.19
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	5.390	0.00	6.20
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.083	0.000	5.390	0.00	369.98
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.084	0.000	5.431	0.00	16.27
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	6.22
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	11.14
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	16.27
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	12.22
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	6.22
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	5.431	0.00	370.01
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.084	0.000	5.431	0.00	16.30
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.085	0.000	5.472	0.00	16.30
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	6.24
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	11.16
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	16.30
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	16.30
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	12.24
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	6.24
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	5.472	0.00	370.04
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.085	0.000	5.472	0.00	16.33
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.086	0.000	5.511	0.00	16.33
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	6.26
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	11.18
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	16.33
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	16.33
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	12.27
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	6.26
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	5.511	0.00	370.07
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.086	0.000	5.511	0.00	16.36
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.087	0.000	5.550	0.00	16.36
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	6.28
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	11.20
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	16.36
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	16.36
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	12.29
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	6.28
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	5.550	0.00	370.10
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.087	0.000	5.550	0.00	16.39
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.088	0.000	5.589	0.00	16.39
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	6.29
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	11.22
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	16.39
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	16.39
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	12.32
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	6.29
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	5.589	0.00	370.13
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.57	0.00	0.088	0.000	5.589	0.00	16.42
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.089	0.000	5.626	0.00	16.42
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	6.31
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	11.24
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	16.42
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	16.42
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	12.34
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	6.31
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	5.626	0.00	370.16
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.089	0.000	5.626	0.00	16.45
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.090	0.000	5.663	0.00	16.45
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	6.33

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

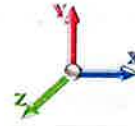


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20

**Wind Load Factor** 1.00



**Iterations** 26

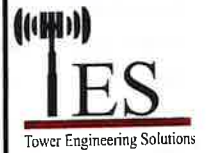
Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	11.27
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	16.45
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	12.36
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	5.663	0.00	6.33
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.090	0.000	5.663	0.00	370.19
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.091	0.000	5.700	0.00	16.48
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	6.35
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	11.29
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	16.48
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	12.39
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	5.700	0.00	6.35
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.091	0.000	5.700	0.00	370.22
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.092	0.000	5.736	0.00	16.51
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	6.37
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	11.31
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	16.51
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	12.41
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	5.736	0.00	6.37
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.092	0.000	5.736	0.00	370.25
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.093	0.000	5.771	0.00	16.54
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	6.38
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	11.32
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	16.54
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	12.43
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	5.771	0.00	6.38
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.093	0.000	5.771	0.00	370.27
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.35	0.00	0.094	0.000	5.789	0.00	8.28
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	3.20
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	5.67
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	8.28
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	6.22
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	5.789	0.00	3.20
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.29	0.00	0.094	0.000	5.789	0.00	185.14
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.20	0.00	0.094	0.000	5.799	0.00	4.80
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	1.86
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	3.29
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	4.80
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	3.61
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	5.799	0.00	1.86
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.17	0.00	0.094	0.000	5.799	0.00	107.38
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.15	0.00	0.094	0.000	5.806	0.00	3.48
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	1.34
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	2.38
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	3.48
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	2.62
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	5.806	0.00	1.34
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.12	0.00	0.094	0.000	5.806	0.00	77.76

# Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** B  
**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

Iterations 26



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

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.70	0.00	0.095	0.000	5.840	0.00	16.59
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	11.36
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	16.59
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	5.840	0.00	6.42
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.58	0.00	0.095	0.000	5.840	0.00	370.32
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.874	0.00	16.62
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	11.38
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	16.62
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	12.50
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.874	0.00	6.43
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.907	0.00	16.64
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	11.40
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	16.64
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.907	0.00	6.45
102.00	7/8" Coax	Yes	2.00	0.000	2.00	0.71	0.00	0.059	0.000	5.940	0.00	16.67
104.00	1 5/8" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	11.42
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	16.67
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	12.54
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	5.940	0.00	6.46
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.060	0.000	5.973	0.00	16.69
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	11.43
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	16.69
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	12.56
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	5.973	0.00	6.48
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.061	0.000	6.005	0.00	16.72
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	11.45
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	16.72
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	12.58
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.005	0.00	6.49
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	6.036	0.00	16.74
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.062	0.000	6.036	0.00	6.51
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	11.47
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	16.74
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	12.60
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	6.51
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.036	0.00	6.51
110.00	7/8" Coax	Yes	2.00	0.000	2.00	0.71	0.00	0.062	0.000	6.067	0.00	16.77
112.00	1 5/8" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	6.52
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	11.49
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	16.77
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	12.62

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA      **Code:** TIA-222-H      8/17/2023  
**Site Name:** Beacon Falls      **Exposure:** B  
**Height:** 160.00 (ft)      **Crest Height:** 0.00  
**Base Elev:** 0.000 (ft)      **Site Class:** D - Stiff Soil  
**Gh:** 1.1      **Topography:** 1      **Struct Class:** II

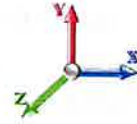


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**Load Case:** 1.2D + 1.0Di + 1.0Wi 50 mph Wind

**Dead Load Factor** 1.20


**Wind Load Factor** 1.00



**Iterations** 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)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	6.067	0.00	12.62
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.063	0.000	6.098	0.00	16.79
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	6.54
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	11.50
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	16.79
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	6.098	0.00	12.63
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.064	0.000	6.113	0.00	8.40
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	3.27
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	5.76
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	8.40
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.113	0.00	6.32
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.064	0.000	6.129	0.00	8.41
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.129	0.00	3.28
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.129	0.00	5.76
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.129	0.00	8.41
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	6.129	0.00	6.33
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.065	0.000	6.159	0.00	16.84
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.159	0.00	6.57
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.159	0.00	11.53
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.159	0.00	16.84
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	6.159	0.00	12.67
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.066	0.000	6.188	0.00	16.86
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	6.58
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	11.55
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	16.86
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	6.188	0.00	12.69
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.067	0.000	6.217	0.00	16.88
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	6.60
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	11.57
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	16.88
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.217	0.00	12.71
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.067	0.000	6.246	0.00	16.90
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	6.61
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	11.58
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	16.90
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	6.246	0.00	12.72
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.71	0.00	0.068	0.000	6.275	0.00	16.92
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	6.62
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	11.60
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	16.92
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	6.275	0.00	12.74
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.069	0.000	6.303	0.00	16.95
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	6.64
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	11.61
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	16.95
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	6.303	0.00	12.76
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.070	0.000	6.331	0.00	16.97

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023	
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B		
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00		
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil		
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 66	
<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**     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)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	6.65
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	11.63
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	16.97
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	6.331	0.00	12.78
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.63	0.00	0.071	0.000	6.356	0.00	14.86
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.356	0.00	5.83
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.356	0.00	10.18
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.356	0.00	14.86
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.356	0.00	11.19
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	6.356	0.00	11.19
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.09	0.00	0.072	0.000	6.359	0.00	2.12
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	0.83
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.46
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	2.12
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.60
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	6.359	0.00	1.60
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.072	0.000	6.373	0.00	8.50
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	3.33
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	5.82
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	8.50
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	6.40
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	6.373	0.00	6.40
133.00	1-1/4" Fiber	Yes	1.00	0.000	2.00	0.36	0.00	0.073	0.000	6.386	0.00	8.50
134.00	1 5/8" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	3.34
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	5.83
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	5.83
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	8.50
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	6.40
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	6.386	0.00	6.40
134.00	1-1/4" Fiber	Yes	1.00	0.000	2.00	0.72	0.00	0.073	0.000	6.413	0.00	17.03
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.073	0.000	6.413	0.00	17.03
136.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	6.413	0.00	6.69
136.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	6.413	0.00	11.67
136.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	6.413	0.00	17.03
136.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	6.413	0.00	17.03
136.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	6.413	0.00	12.82
136.00	1-1/4" Fiber	Yes	2.00	0.000	2.00	0.72	0.00	0.075	0.000	6.440	0.00	17.05
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.075	0.000	6.440	0.00	6.70
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	11.68
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	17.05
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	17.05
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	12.84
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.440	0.00	12.84
138.00	1-1/4" Fiber	Yes	2.00	0.000	2.00	0.72	0.00	0.076	0.000	6.467	0.00	17.07
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.076	0.000	6.467	0.00	6.71
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	11.70
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	17.07
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	17.07
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	12.86
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.467	0.00	12.86
140.00	1-1/4" Fiber	Yes	2.00	0.000	2.00	0.72	0.00	0.077	0.000	6.493	0.00	17.09
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.077	0.000	6.493	0.00	6.72
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	11.71
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	17.09
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	17.09
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	12.87
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.493	0.00	12.87
142.00	1-1/4" Fiber	Yes	2.00	0.000	2.00	0.72	0.00	0.078	0.000	6.519	0.00	17.11
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.078	0.000	6.519	0.00	6.74
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.519	0.00	11.72
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.519	0.00	17.11

## Linear Appurtenance Segment Forces (Factored)

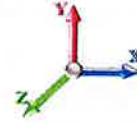
Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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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 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)
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.079	0.000	6.532	0.00	8.56
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	6.532	0.00	3.37
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	6.532	0.00	5.87
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.36	0.00	0.082	0.000	6.545	0.00	8.56
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	6.545	0.00	3.37
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	6.545	0.00	5.87
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.083	0.000	6.570	0.00	17.14
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.570	0.00	6.76
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.570	0.00	11.75
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.085	0.000	6.596	0.00	17.16
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	6.596	0.00	6.77
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	6.596	0.00	11.76
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.621	0.00	17.18
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.621	0.00	6.78
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.621	0.00	11.78
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.645	0.00	17.20
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.645	0.00	6.79
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.670	0.00	17.22
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.670	0.00	6.80
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.694	0.00	17.23
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.694	0.00	6.82
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.72	0.00	0.125	1.075	6.718	0.00	17.25
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	6.718	0.00	6.83
<b>Totals:</b>											<b>0.0</b>	<b>29,607.2</b>

## Calculated Forces

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

**Iterations**     26

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



Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-100.4	-8.08	0.00	-1013.4	0.00	1013.44	3683.82	1059.58	4414.92	3756.66	0.00	0.000	0.000	0.176
1.00	-99.72	-8.07	0.00	-1005.3	0.00	1005.36	3677.71	1055.47	4380.73	3735.77	0.00	-0.009	0.000	0.175
2.00	-98.98	-8.06	0.00	-997.29	0.00	997.29	3671.54	1051.36	4346.67	3714.86	0.00	-0.017	0.000	0.175
4.00	-97.50	-8.04	0.00	-981.17	0.00	981.17	3659.00	1043.14	4278.95	3673.00	0.01	-0.034	0.000	0.173
6.00	-96.02	-8.02	0.00	-965.08	0.00	965.08	3646.20	1034.91	4211.76	3631.09	0.03	-0.052	0.000	0.172
8.00	-94.54	-8.00	0.00	-949.04	0.00	949.04	3633.16	1026.69	4145.10	3589.13	0.06	-0.070	0.000	0.170
10.00	-93.07	-7.98	0.00	-933.04	0.00	933.04	3619.85	1018.47	4078.97	3547.13	0.09	-0.088	0.000	0.168
12.00	-91.59	-7.96	0.00	-917.08	0.00	917.08	3606.29	1010.25	4013.38	3505.10	0.13	-0.106	0.000	0.167
14.00	-90.11	-7.93	0.00	-901.17	0.00	901.17	3592.48	1002.02	3948.31	3463.03	0.18	-0.124	0.000	0.165
16.00	-88.64	-7.90	0.00	-885.31	0.00	885.31	3578.41	993.80	3883.78	3420.94	0.24	-0.142	0.000	0.164
16.25	-88.40	-7.90	0.00	-883.33	0.00	883.33	3576.63	992.77	3875.75	3415.68	0.24	-0.144	0.000	0.161
18.00	-86.70	-7.87	0.00	-869.50	0.00	869.50	3564.09	985.58	3819.78	3378.83	0.30	-0.158	0.000	0.186
18.63	-86.09	-7.86	0.00	-864.55	0.00	864.55	3559.52	982.99	3799.73	3365.57	0.32	-0.165	0.000	0.185
18.88	-85.85	-7.86	0.00	-862.58	0.00	862.58	3557.70	981.96	3791.79	3360.30	0.33	-0.167	0.000	0.151
20.00	-84.77	-7.85	0.00	-853.78	0.00	853.78	3549.51	977.36	3756.31	3336.71	0.37	-0.176	0.000	0.172
22.00	-82.84	-7.82	0.00	-838.08	0.00	838.08	3563.12	985.03	3815.51	3376.01	0.45	-0.196	0.000	0.174
24.00	-81.37	-7.80	0.00	-822.43	0.00	822.43	3548.52	976.81	3752.08	3333.89	0.53	-0.215	0.000	0.167
26.00	-79.91	-7.77	0.00	-806.83	0.00	806.83	3533.67	968.58	3689.18	3291.77	0.63	-0.234	0.000	0.166
28.00	-78.44	-7.74	0.00	-791.29	0.00	791.29	3518.56	960.36	3626.81	3249.64	0.73	-0.253	0.000	0.164
30.00	-76.61	-7.70	0.00	-775.80	0.00	775.80	3503.20	952.14	3564.97	3207.53	0.84	-0.272	0.000	0.162
31.00	-75.70	-7.68	0.00	-768.10	0.00	768.10	3495.43	948.03	3534.25	3186.48	0.90	-0.280	0.000	0.127
32.00	-74.79	-7.66	0.00	-760.42	0.00	760.42	3487.59	943.92	3503.66	3165.43	0.96	-0.288	0.000	0.146
33.38	-74.04	-7.64	0.00	-749.84	0.00	749.84	3476.66	938.24	3461.67	3136.39	1.04	-0.300	0.000	0.145
34.00	-73.70	-7.64	0.00	-745.10	0.00	745.10	3471.72	935.70	3442.89	3123.35	1.08	-0.305	0.000	0.180
36.00	-72.62	-7.62	0.00	-729.82	0.00	729.82	3455.59	927.47	3382.65	3081.29	1.22	-0.327	0.000	0.178
38.00	-71.54	-7.59	0.00	-714.59	0.00	714.59	3439.21	919.25	3322.94	3039.26	1.36	-0.349	0.000	0.176
40.00	-70.45	-7.56	0.00	-699.40	0.00	699.40	3422.57	911.03	3263.76	2997.28	1.51	-0.371	0.000	0.174
42.00	-69.38	-7.53	0.00	-684.29	0.00	684.29	3405.68	902.81	3205.11	2955.34	1.67	-0.393	0.000	0.172
44.00	-68.31	-7.50	0.00	-669.22	0.00	669.22	3388.54	894.58	3146.99	2913.44	1.84	-0.415	0.000	0.170
45.16	-67.70	-7.48	0.00	-660.53	0.00	660.53	3378.48	889.81	3113.53	2889.17	1.94	-0.428	0.000	0.169
46.00	-67.25	-7.47	0.00	-654.25	0.00	654.25	3371.14	886.36	3089.41	2871.61	2.02	-0.435	0.000	0.123
48.00	-66.20	-7.43	0.00	-639.32	0.00	639.32	3353.48	878.14	3032.36	2829.83	2.20	-0.451	0.000	0.158
50.00	-65.14	-7.40	0.00	-624.45	0.00	624.45	3335.57	869.92	2975.84	2788.13	2.40	-0.472	0.000	0.156
52.00	-63.68	-7.36	0.00	-609.65	0.00	609.65	3317.41	861.69	2919.85	2746.50	2.60	-0.493	0.000	0.152
54.00	-62.23	-7.32	0.00	-594.93	0.00	594.93	3298.98	853.47	2864.39	2704.94	2.81	-0.514	0.000	0.150
56.00	-60.78	-7.28	0.00	-580.29	0.00	580.29	3316.18	861.14	2916.12	2743.71	3.03	-0.534	0.000	0.152
58.00	-59.74	-7.24	0.00	-565.72	0.00	565.72	3297.74	852.92	2860.70	2702.16	3.26	-0.555	0.000	0.145
60.00	-58.70	-7.20	0.00	-551.24	0.00	551.24	3279.05	844.70	2805.81	2660.71	3.49	-0.571	0.000	0.155
62.00	-57.66	-7.16	0.00	-536.83	0.00	536.83	3260.10	836.48	2751.45	2619.34	3.74	-0.593	0.000	0.153
64.00	-56.63	-7.13	0.00	-522.50	0.00	522.50	3240.90	828.25	2697.62	2578.08	3.99	-0.614	0.000	0.150
66.00	-55.60	-7.09	0.00	-508.25	0.00	508.25	3221.44	820.03	2644.33	2536.92	4.25	-0.636	0.000	0.148
68.00	-54.58	-7.05	0.00	-494.08	0.00	494.08	3201.73	811.81	2591.56	2495.87	4.52	-0.658	0.000	0.146
70.00	-53.56	-7.01	0.00	-479.99	0.00	479.99	3181.76	803.59	2539.33	2454.94	4.80	-0.679	0.000	0.144
72.00	-52.54	-6.96	0.00	-465.97	0.00	465.97	3161.54	795.36	2487.63	2414.13	5.09	-0.701	0.000	0.141
74.00	-51.53	-6.92	0.00	-452.04	0.00	452.04	3141.06	787.14	2436.47	2373.45	5.39	-0.722	0.000	0.139
76.00	-50.52	-6.88	0.00	-438.20	0.00	438.20	3120.33	778.92	2385.83	2332.91	5.70	-0.744	0.000	0.136
78.00	-49.52	-6.83	0.00	-424.44	0.00	424.44	3099.34	770.70	2335.73	2292.51	6.01	-0.765	0.000	0.134
80.00	-48.53	-6.79	0.00	-410.77	0.00	410.77	3078.09	762.47	2286.15	2252.26	6.34	-0.781	0.000	0.131



## Calculated Forces

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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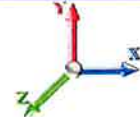
80.00	-48.53	-6.79	0.00	-410.77	0.00	410.77	2384.58	636.50	1911.75	1750.88	6.34	-0.781	0.000	0.142
82.00	-47.59	-6.75	0.00	-397.20	0.00	397.20	2370.62	629.65	1870.81	1721.73	6.67	-0.802	0.000	0.155
84.00	-46.66	-6.70	0.00	-383.70	0.00	383.70	2356.42	622.80	1830.32	1692.63	7.01	-0.826	0.000	0.152
86.00	-45.73	-6.66	0.00	-370.30	0.00	370.30	2341.95	615.94	1790.27	1663.57	7.36	-0.849	0.000	0.149
88.00	-44.81	-6.62	0.00	-356.98	0.00	356.98	2327.23	609.09	1750.66	1634.56	7.72	-0.873	0.000	0.145
90.00	-43.89	-6.57	0.00	-343.75	0.00	343.75	2312.26	602.24	1711.49	1605.61	8.09	-0.896	0.000	0.142
92.00	-42.98	-6.53	0.00	-330.60	0.00	330.60	2297.03	595.39	1672.77	1576.72	8.47	-0.919	0.000	0.138
94.00	-42.07	-6.48	0.00	-317.55	0.00	317.55	2281.55	588.54	1634.49	1547.90	8.86	-0.941	0.000	0.135
95.00	-41.61	-6.45	0.00	-311.07	0.00	311.07	2273.71	585.11	1615.51	1533.52	9.06	-0.952	0.000	0.133
95.58	-41.27	-6.44	0.00	-307.33	0.00	307.33	2269.13	583.12	1604.56	1525.19	9.18	-0.959	0.000	0.130
95.58	-41.27	-6.44	0.00	-307.33	0.00	307.33	2269.13	583.12	1604.56	1525.19	9.18	-0.959	0.000	0.211
96.00	-41.02	-6.44	0.00	-304.62	0.00	304.62	2265.81	581.68	1596.65	1519.16	9.26	-0.964	0.000	0.219
98.00	-39.84	-6.40	0.00	-291.75	0.00	291.75	2249.81	574.83	1559.25	1490.50	9.67	-1.001	0.000	0.214
100.00	-39.03	-6.36	0.00	-278.95	0.00	278.95	2259.61	579.02	1582.04	1508.00	10.10	-1.037	0.000	0.202
102.00	-38.50	-6.33	0.00	-266.23	0.00	266.23	2243.52	572.17	1544.82	1479.37	10.54	-1.074	0.000	0.197
104.00	-37.97	-6.29	0.00	-253.58	0.00	253.58	2227.17	565.31	1508.04	1450.84	11.00	-1.107	0.000	0.192
106.00	-37.45	-6.26	0.00	-241.00	0.00	241.00	2210.57	558.46	1471.71	1422.40	11.47	-1.141	0.000	0.186
108.00	-36.93	-6.22	0.00	-228.49	0.00	228.49	2193.71	551.61	1435.82	1394.06	11.96	-1.174	0.000	0.181
110.00	-36.29	-6.09	0.00	-215.80	0.00	215.80	2176.60	544.76	1400.37	1365.84	12.46	-1.206	0.000	0.175
112.00	-35.78	-6.05	0.00	-203.62	0.00	203.62	2159.23	537.91	1365.36	1337.73	12.97	-1.238	0.000	0.169
114.00	-35.28	-6.01	0.00	-191.52	0.00	191.52	2141.61	531.05	1330.80	1309.73	13.49	-1.269	0.000	0.163
115.00	-35.03	-5.99	0.00	-185.50	0.00	185.50	2132.70	527.63	1313.68	1295.79	13.76	-1.284	0.000	0.160
115.00	-35.03	-5.99	0.00	-185.50	0.00	185.50	2132.70	527.63	1313.68	1295.79	13.76	-1.284	0.000	0.218
116.00	-34.81	-5.98	0.00	-179.51	0.00	179.51	2151.43	420.24	1041.71	940.38	14.03	-1.299	0.000	0.214
118.00	-34.36	-5.95	0.00	-167.55	0.00	167.55	2150.84	414.76	1014.72	921.68	14.58	-1.336	0.000	0.204
120.00	-33.92	-5.91	0.00	-155.66	0.00	155.66	2129.99	409.28	988.07	902.99	15.15	-1.371	0.000	0.195
122.00	-33.48	-5.88	0.00	-143.84	0.00	143.84	2151.89	403.80	961.78	884.33	15.73	-1.405	0.000	0.185
124.00	-33.05	-5.84	0.00	-132.08	0.00	132.08	2150.54	398.32	935.85	865.70	16.33	-1.438	0.000	0.175
126.00	-32.61	-5.80	0.00	-120.40	0.00	120.40	2149.93	392.84	910.27	847.11	16.94	-1.469	0.000	0.164
128.00	-32.19	-5.77	0.00	-108.79	0.00	108.79	2148.06	387.35	885.04	828.56	17.56	-1.499	0.000	0.153
130.00	-31.76	-5.73	0.00	-97.26	0.00	97.26	2147.95	381.87	860.17	810.06	18.19	-1.526	0.000	0.142
131.75	-30.82	-5.60	0.00	-87.24	0.00	87.24	2146.13	377.08	838.70	793.92	18.76	-1.549	0.000	0.131
132.00	-30.77	-5.60	0.00	-85.84	0.00	85.84	2145.97	376.39	835.65	791.62	18.84	-1.552	0.000	0.130
133.00	-22.15	-4.46	0.00	-80.24	0.00	80.24	2145.29	373.65	823.53	782.42	19.17	-1.564	0.000	0.118
134.00	-21.96	-4.44	0.00	-75.78	0.00	75.78	2144.94	370.91	811.49	773.23	19.49	-1.576	0.000	0.113
136.00	-21.58	-4.40	0.00	-66.89	0.00	66.89	2143.06	365.43	787.68	754.91	20.16	-1.598	0.000	0.104
138.00	-21.20	-4.35	0.00	-58.09	0.00	58.09	2142.92	359.95	764.23	736.67	20.83	-1.618	0.000	0.094
140.00	-20.83	-4.31	0.00	-49.39	0.00	49.39	2140.52	354.47	741.13	718.50	21.52	-1.636	0.000	0.084
142.00	-11.66	-2.66	0.00	-40.77	0.00	40.77	2139.87	348.98	718.38	700.42	22.20	-1.652	0.000	0.067
144.00	-11.35	-2.62	0.00	-35.44	0.00	35.44	2137.97	343.50	695.99	682.44	22.90	-1.666	0.000	0.060
145.00	-11.19	-2.59	0.00	-32.83	0.00	32.83	2137.29	340.76	684.93	673.48	23.25	-1.672	0.000	0.057
145.00	-11.19	-2.59	0.00	-32.83	0.00	32.83	931.20	332.53	24157.3	604.09	23.25	-1.672	0.000	0.066
146.00	-11.04	-2.57	0.00	-30.24	0.00	30.24	925.24	329.86	23770.3	594.77	23.60	-1.678	0.000	0.063
148.00	-10.74	-2.53	0.00	-25.10	0.00	25.10	913.32	324.51	23005.8	576.36	24.31	-1.690	0.000	0.055
150.00	-10.44	-2.48	0.00	-20.04	0.00	20.04	901.40	319.16	22253.7	558.24	25.02	-1.700	0.000	0.048
150.00	-10.44	-2.48	0.00	-20.04	0.00	20.04	556.65	167.00	10296.1	213.69	25.02	-1.700	0.000	0.113
152.00	-6.12	-1.59	0.00	-15.08	0.00	15.08	556.65	167.00	10296.1	213.69	25.73	-1.708	0.000	0.082
154.00	-5.90	-1.56	0.00	-11.89	0.00	11.89	556.65	167.00	10296.1	213.69	26.45	-1.728	0.000	0.066
156.00	-5.68	-1.53	0.00	-8.77	0.00	8.77	556.65	167.00	10296.1	213.69	27.18	-1.744	0.000	0.051
158.00	-5.47	-1.49	0.00	-5.72	0.00	5.72	556.65	167.00	10296.1	213.69	27.91	-1.754	0.000	0.037
160.00	0.00	-1.32	0.00	-2.74	0.00	2.74	556.65	167.00	10296.1	213.69	28.65	-1.761	0.000	0.013

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 70
	<b>Struct Class:</b> II	



<b>Load Case:</b> 1.2D + 1.0Ev + 1.0Eh				<b>Iterations</b> 23
<b>Gust Response Factor</b>	1.10	<b>Sds</b>	0.21	<b>Ss</b> 0.20
<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>	0.24	<b>SA</b> 0.02
		<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	RB1 RB2	0.00	0.00	0.00	0.00	
1.00	RT2 RB3	624.78	0.50	26.39	0.00	
2.00		623.98	1.50	26.36	0.00	
4.00		1245.5	3.00	52.61	0.01	
6.00		1242.3	5.00	52.48	0.02	
8.00		1239.2	7.00	52.34	0.03	
10.00		1236.0	9.00	52.21	0.05	
12.00		1232.8	11.00	52.07	0.08	
14.00		1229.6	13.00	51.94	0.11	
16.00	Bot - Section 2	1226.4	15.00	51.80	0.14	
16.25	RT1 RB4	202.00	16.13	8.53	0.00	
18.00		1411.2	17.13	59.61	0.25	
18.63	RB5	506.84	18.31	21.41	0.04	
18.88	RT3	200.95	18.75	8.49	0.01	
20.00		899.04	19.44	37.98	0.13	
22.00	Top - Section 1	1600.4	21.00	67.60	0.48	
24.00		1219.8	23.00	51.53	0.33	
26.00		1216.6	25.00	51.39	0.39	
28.00		1213.4	27.00	51.26	0.45	
30.00	RB6	1570.2	29.00	66.33	0.88	
31.00	RT4	783.95	30.50	33.11	0.24	
32.00		783.15	31.50	33.08	0.26	
33.38	RT5	582.64	32.69	24.61	0.15	
34.00		261.27	33.69	11.04	0.03	
36.00		840.72	35.00	35.51	0.37	
38.00		837.53	37.00	35.38	0.41	
40.00	Appurtenance(s)	844.34	39.00	35.67	0.46	
42.00		830.77	41.00	35.09	0.49	
44.00		827.58	43.00	34.96	0.53	
45.16	RB7	478.54	44.58	20.21	0.19	
46.00	RT6	345.86	45.58	14.61	0.10	
48.00		821.21	47.00	34.69	0.63	
50.00	Bot - Section 3	818.02	49.00	34.55	0.68	
52.00		1156.7	51.00	48.86	1.47	
54.00		1150.3	53.00	48.59	1.57	
56.00	Top - Section 2	1143.9	55.00	48.32	1.67	
58.00	RT7 RB8	811.43	57.00	34.27	0.90	
60.00		808.24	59.00	34.14	0.96	
62.00		805.05	61.00	34.01	1.02	
64.00		801.86	63.00	33.87	1.08	
66.00		798.67	65.00	33.74	1.14	
68.00		795.48	67.00	33.60	1.20	
70.00		792.30	69.00	33.47	1.26	
72.00		789.11	71.00	33.33	1.33	
74.00		785.92	73.00	33.20	1.39	
76.00		782.73	75.00	33.06	1.46	

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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78.00	RT8 RB9	779.54	77.00	32.93	1.52
80.00	Top - Section 3	776.35	79.00	32.79	1.59
82.00		724.58	81.00	30.61	1.45
84.00		721.92	83.00	30.49	1.52
86.00		719.27	85.00	30.38	1.58
88.00		716.61	87.00	30.27	1.64
90.00		713.95	89.00	30.16	1.70
92.00		711.29	91.00	30.05	1.77
94.00		708.64	93.00	29.93	1.83
95.00	Bot - Section 5	353.32	94.50	14.92	0.47
95.58	RT9	271.55	95.29	11.47	0.28
96.00		196.36	95.79	8.29	0.15
98.00		931.84	97.00	39.36	3.45
100.00	Top - Section 4	566.53	99.00	23.93	1.33
102.00		342.29	101.00	14.46	0.50
104.00		339.63	103.00	14.35	0.52
106.00		336.97	105.00	14.23	0.53
108.00		334.32	107.00	14.12	0.54
110.00	Appurtenance(s)	387.66	109.00	16.37	0.75
112.00		327.76	111.00	13.84	0.56
114.00		325.10	113.00	13.73	0.57
115.00	Top - Section 5	161.55	114.50	6.82	0.14
116.00		140.67	115.50	5.94	0.11
118.00		279.74	117.00	11.82	0.45
120.00		277.61	119.00	11.73	0.46
122.00		275.49	121.00	11.64	0.47
124.00		273.36	123.00	11.55	0.48
126.00		271.23	125.00	11.46	0.49
128.00		269.11	127.00	11.37	0.49
130.00		266.98	129.00	11.28	0.50
131.75	Appurtenance(s)	495.87	130.88	20.95	1.78
132.00		32.99	131.88	1.39	0.01
133.00	Appurtenance(s)	4484.7	132.50	189.44	149.11
134.00		115.12	133.50	4.86	0.10
136.00		228.64	135.00	9.66	0.40
138.00		226.51	137.00	9.57	0.41
140.00		224.39	139.00	9.48	0.41
142.00	Appurtenance(s)	4752.6	141.00	200.75	189.63
144.00		188.00	143.00	7.94	0.31
145.00	Top - Section 6	93.21	144.50	3.94	0.08
146.00		91.08	145.50	3.85	0.07
148.00		180.61	147.00	7.63	0.30
150.00	Top - Section 7	178.54	149.00	7.54	0.30
152.00	Appurtenance(s)	2497.0	151.00	105.47	60.03
154.00		133.14	153.00	5.62	0.18
156.00		133.14	155.00	5.62	0.18
158.00		133.14	157.00	5.62	0.18
160.00	Appurtenance(s)	2712.8	159.00	114.59	78.57
<b>Totals:</b>		<b>70,821.9</b>		<b>2,991.5</b>	<b>534.3</b>

**Total Wind: 33,109.6**

## Calculated Forces

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

8/17/2023

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<b>Load Case:</b> 1.2D + 1.0Ev + 1.0Eh						<b>Iterations</b> 23
<b>Gust Response Factor</b> 1.10				<b>Sds</b> 0.21	<b>Ss</b> 0.20	
<b>Dead Load Factor</b> 1.20		<b>Seismic Load Factor</b> 1.00		<b>Sd1</b> 0.09	<b>S1</b> 0.05	
<b>Wind Load Factor</b> 0.00		<b>Structure Frequency (f1)</b> 0.24		<b>SA</b> 0.02	<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	-81.40	-0.53	0.00	-77.51	0.00	77.51	3683.82	1059.58	4414.92	3756.66	0.00	0.00	0.00	0.026
1.00	-80.71	-0.53	0.00	-76.98	0.00	76.98	3677.71	1055.47	4380.73	3735.77	0.00	0.00	0.00	0.026
2.00	-80.02	-0.53	0.00	-76.44	0.00	76.44	3671.54	1051.36	4346.67	3714.86	0.00	0.00	0.00	0.025
4.00	-78.64	-0.54	0.00	-75.37	0.00	75.37	3659.00	1043.14	4278.95	3673.00	0.00	0.00	0.00	0.024
6.00	-77.26	-0.54	0.00	-74.30	0.00	74.30	3646.20	1034.91	4211.76	3631.09	0.00	0.00	0.00	0.024
8.00	-75.89	-0.54	0.00	-73.22	0.00	73.22	3633.16	1026.69	4145.10	3589.13	0.00	0.00	-0.01	0.024
10.00	-74.52	-0.54	0.00	-72.14	0.00	72.14	3619.85	1018.47	4078.97	3547.13	0.01	0.01	-0.01	0.024
12.00	-73.16	-0.54	0.00	-71.06	0.00	71.06	3606.29	1010.25	4013.38	3505.10	0.01	0.01	-0.01	0.023
14.00	-71.80	-0.54	0.00	-69.97	0.00	69.97	3592.48	1002.02	3948.31	3463.03	0.01	0.01	-0.01	0.023
16.00	-70.44	-0.55	0.00	-68.88	0.00	68.88	3578.41	993.80	3883.78	3420.94	0.02	0.02	-0.01	0.023
16.25	-70.21	-0.55	0.00	-68.75	0.00	68.75	3576.63	992.77	3875.75	3415.68	0.02	0.02	-0.01	0.022
18.00	-68.61	-0.55	0.00	-67.79	0.00	67.79	3564.09	985.58	3819.78	3378.83	0.02	0.02	-0.01	0.026
18.63	-68.03	-0.55	0.00	-67.45	0.00	67.45	3559.52	982.99	3799.73	3365.57	0.02	0.02	-0.01	0.025
18.88	-67.80	-0.55	0.00	-67.31	0.00	67.31	3557.70	981.96	3791.79	3360.30	0.03	0.03	-0.01	0.021
20.00	-66.78	-0.55	0.00	-66.70	0.00	66.70	3549.51	977.36	3756.31	3336.71	0.03	0.03	-0.01	0.024
22.00	-64.96	-0.55	0.00	-65.60	0.00	65.60	3563.12	985.03	3815.51	3376.01	0.03	0.03	-0.02	0.024
24.00	-63.61	-0.55	0.00	-64.51	0.00	64.51	3548.52	976.81	3752.08	3333.89	0.04	0.04	-0.02	0.023
26.00	-62.27	-0.55	0.00	-63.41	0.00	63.41	3533.67	968.58	3689.18	3291.77	0.05	0.05	-0.02	0.023
28.00	-60.93	-0.55	0.00	-62.31	0.00	62.31	3518.56	960.36	3626.81	3249.64	0.06	0.06	-0.02	0.023
30.00	-59.22	-0.55	0.00	-61.20	0.00	61.20	3503.20	952.14	3564.97	3207.53	0.07	0.07	-0.02	0.022
31.00	-58.37	-0.55	0.00	-60.65	0.00	60.65	3495.43	948.03	3534.25	3186.48	0.07	0.07	-0.02	0.018
32.00	-57.51	-0.55	0.00	-60.10	0.00	60.10	3487.59	943.92	3503.66	3165.43	0.07	0.07	-0.02	0.020
33.38	-56.85	-0.55	0.00	-59.34	0.00	59.34	3476.66	938.24	3461.67	3136.39	0.08	0.08	-0.02	0.020
34.00	-56.56	-0.55	0.00	-59.00	0.00	59.00	3471.72	935.70	3442.89	3123.35	0.08	0.08	-0.02	0.025
36.00	-55.61	-0.55	0.00	-57.89	0.00	57.89	3455.59	927.47	3382.65	3081.29	0.09	0.09	-0.03	0.024
38.00	-54.67	-0.55	0.00	-56.79	0.00	56.79	3439.21	919.25	3322.94	3039.26	0.11	0.11	-0.03	0.024
40.00	-53.71	-0.55	0.00	-55.68	0.00	55.68	3422.57	911.03	3263.76	2997.28	0.12	0.12	-0.03	0.024
42.00	-52.78	-0.56	0.00	-54.57	0.00	54.57	3405.68	902.81	3205.11	2955.34	0.13	0.13	-0.03	0.023
44.00	-51.85	-0.56	0.00	-53.46	0.00	53.46	3388.54	894.58	3146.99	2913.44	0.14	0.14	-0.03	0.023
45.16	-51.31	-0.56	0.00	-52.81	0.00	52.81	3378.48	889.81	3113.53	2889.17	0.15	0.15	-0.03	0.023
46.00	-50.92	-0.56	0.00	-52.35	0.00	52.35	3371.14	886.36	3089.41	2871.61	0.16	0.16	-0.03	0.017
48.00	-49.99	-0.56	0.00	-51.24	0.00	51.24	3353.48	878.14	3032.36	2829.83	0.17	0.17	-0.04	0.021
50.00	-49.07	-0.56	0.00	-50.12	0.00	50.12	3335.57	869.92	2975.84	2788.13	0.19	0.19	-0.04	0.021
52.00	-47.73	-0.56	0.00	-49.01	0.00	49.01	3317.41	861.69	2919.85	2746.50	0.20	0.20	-0.04	0.021
54.00	-46.40	-0.55	0.00	-47.90	0.00	47.90	3298.98	853.47	2864.39	2704.94	0.22	0.22	-0.04	0.020
56.00	-45.07	-0.55	0.00	-46.79	0.00	46.79	3316.18	861.14	2916.12	2743.71	0.24	0.24	-0.04	0.020
58.00	-44.16	-0.55	0.00	-45.68	0.00	45.68	3297.74	852.92	2860.70	2702.16	0.25	0.25	-0.04	0.019
60.00	-43.25	-0.55	0.00	-44.58	0.00	44.58	3279.05	844.70	2805.81	2660.71	0.27	0.27	-0.05	0.021
62.00	-42.35	-0.55	0.00	-43.47	0.00	43.47	3260.10	836.48	2751.45	2619.34	0.29	0.29	-0.05	0.020
64.00	-41.45	-0.55	0.00	-42.37	0.00	42.37	3240.90	828.25	2697.62	2578.08	0.31	0.31	-0.05	0.020
66.00	-40.55	-0.55	0.00	-41.27	0.00	41.27	3221.44	820.03	2644.33	2536.92	0.33	0.33	-0.05	0.020
68.00	-39.66	-0.55	0.00	-40.16	0.00	40.16	3201.73	811.81	2591.56	2495.87	0.35	0.35	-0.05	0.019
70.00	-38.77	-0.55	0.00	-39.06	0.00	39.06	3181.76	803.59	2539.33	2454.94	0.38	0.38	-0.05	0.019
72.00	-37.89	-0.55	0.00	-37.97	0.00	37.97	3161.54	795.36	2487.63	2414.13	0.40	0.40	-0.06	0.019
74.00	-37.01	-0.55	0.00	-36.87	0.00	36.87	3141.06	787.14	2436.47	2373.45	0.42	0.42	-0.06	0.018
76.00	-36.13	-0.55	0.00	-35.78	0.00	35.78	3120.33	778.92	2385.83	2332.91	0.45	0.45	-0.06	0.018
78.00	-35.26	-0.54	0.00	-34.69	0.00	34.69	3099.34	770.70	2335.73	2292.51	0.47	0.47	-0.06	0.018

## Calculated Forces

**Structure:** CT02049-S-SBA

**Code:** TIA-222-H

8/17/2023

**Site Name:** Beacon Falls

**Exposure:** B



**Height:** 160.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 0.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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Tower Engineering Solutions

80.00	-34.39	-0.54	0.00	-33.60	0.00	33.60	3078.09	762.47	2286.15	2252.26	0.50	-0.06	0.017
80.00	-34.39	-0.54	0.00	-33.60	0.00	33.60	2384.58	636.50	1911.75	1750.88	0.50	-0.06	0.019
82.00	-33.58	-0.54	0.00	-32.51	0.00	32.51	2370.62	629.65	1870.81	1721.73	0.52	-0.06	0.021
84.00	-32.78	-0.54	0.00	-31.43	0.00	31.43	2356.42	622.80	1830.32	1692.63	0.55	-0.07	0.020
86.00	-31.98	-0.54	0.00	-30.35	0.00	30.35	2341.95	615.94	1790.27	1663.57	0.58	-0.07	0.020
88.00	-31.19	-0.54	0.00	-29.27	0.00	29.27	2327.23	609.09	1750.66	1634.56	0.61	-0.07	0.019
90.00	-30.40	-0.54	0.00	-28.20	0.00	28.20	2312.26	602.24	1711.49	1605.61	0.64	-0.07	0.019
92.00	-29.61	-0.53	0.00	-27.13	0.00	27.13	2297.03	595.39	1672.77	1576.72	0.67	-0.07	0.018
94.00	-28.83	-0.53	0.00	-26.06	0.00	26.06	2281.55	588.54	1634.49	1547.90	0.70	-0.08	0.018
95.00	-28.44	-0.53	0.00	-25.53	0.00	25.53	2273.71	585.11	1615.51	1533.52	0.72	-0.08	0.018
95.58	-28.13	-0.53	0.00	-25.22	0.00	25.22	2269.13	583.12	1604.56	1525.19	0.73	-0.08	0.017
95.58	-28.13	-0.53	0.00	-25.22	0.00	25.22	2269.13	583.12	1604.56	1525.19	0.73	-0.08	0.024
96.00	-27.90	-0.53	0.00	-25.00	0.00	25.00	2265.81	581.68	1596.65	1519.16	0.73	-0.08	0.029
98.00	-26.84	-0.53	0.00	-23.93	0.00	23.93	2249.81	574.83	1559.25	1490.50	0.76	-0.08	0.028
100.00	-26.16	-0.53	0.00	-22.88	0.00	22.88	2259.61	579.02	1582.04	1508.00	0.80	-0.08	0.027
102.00	-25.76	-0.53	0.00	-21.83	0.00	21.83	2243.52	572.17	1544.82	1479.37	0.83	-0.09	0.026
104.00	-25.36	-0.53	0.00	-20.77	0.00	20.77	2227.17	565.31	1508.04	1450.84	0.87	-0.09	0.026
106.00	-24.97	-0.53	0.00	-19.72	0.00	19.72	2210.57	558.46	1471.71	1422.40	0.91	-0.09	0.025
108.00	-24.58	-0.53	0.00	-18.67	0.00	18.67	2193.71	551.61	1435.82	1394.06	0.95	-0.09	0.025
110.00	-24.12	-0.53	0.00	-17.61	0.00	17.61	2176.60	544.76	1400.37	1365.84	0.99	-0.10	0.024
112.00	-23.73	-0.53	0.00	-16.56	0.00	16.56	2159.23	537.91	1365.36	1337.73	1.03	-0.10	0.023
114.00	-23.35	-0.53	0.00	-15.51	0.00	15.51	2141.61	531.05	1330.80	1309.73	1.07	-0.10	0.023
115.00	-23.16	-0.53	0.00	-14.98	0.00	14.98	2132.70	527.63	1313.68	1295.79	1.09	-0.10	0.022
115.00	-23.16	-0.53	0.00	-14.98	0.00	14.98	1556.62	422.98	1055.35	949.74	1.09	-0.10	0.031
116.00	-23.00	-0.53	0.00	-14.45	0.00	14.45	1551.43	420.24	1041.71	940.38	1.11	-0.10	0.030
118.00	-22.68	-0.53	0.00	-13.40	0.00	13.40	1540.84	414.76	1014.72	921.68	1.16	-0.11	0.029
120.00	-22.36	-0.53	0.00	-12.35	0.00	12.35	1529.99	409.28	988.07	902.99	1.20	-0.11	0.028
122.00	-22.04	-0.53	0.00	-11.29	0.00	11.29	1518.89	403.80	961.78	884.33	1.25	-0.11	0.027
124.00	-21.72	-0.53	0.00	-10.24	0.00	10.24	1507.54	398.32	935.85	865.70	1.30	-0.12	0.026
126.00	-21.41	-0.53	0.00	-9.19	0.00	9.19	1495.93	392.84	910.27	847.11	1.35	-0.12	0.025
128.00	-21.10	-0.53	0.00	-8.13	0.00	8.13	1484.06	387.35	885.04	828.56	1.40	-0.12	0.024
130.00	-20.79	-0.53	0.00	-7.08	0.00	7.08	1471.95	381.87	860.17	810.06	1.45	-0.12	0.023
131.75	-20.19	-0.52	0.00	-6.16	0.00	6.16	1461.13	377.08	838.70	793.92	1.49	-0.12	0.022
132.00	-20.16	-0.52	0.00	-6.03	0.00	6.03	1459.57	376.39	835.65	791.62	1.50	-0.12	0.021
133.00	-14.60	-0.36	0.00	-5.51	0.00	5.51	1453.29	373.65	823.53	782.42	1.53	-0.12	0.017
134.00	-14.46	-0.36	0.00	-5.15	0.00	5.15	1446.94	370.91	811.49	773.23	1.55	-0.13	0.017
136.00	-14.20	-0.36	0.00	-4.42	0.00	4.42	1434.06	365.43	787.68	754.91	1.61	-0.13	0.016
138.00	-13.93	-0.36	0.00	-3.70	0.00	3.70	1420.92	359.95	764.23	736.67	1.66	-0.13	0.015
140.00	-13.67	-0.36	0.00	-2.98	0.00	2.98	1407.52	354.47	741.13	718.50	1.71	-0.13	0.014
142.00	-7.78	-0.16	0.00	-2.26	0.00	2.26	1393.87	348.98	718.38	700.42	1.77	-0.13	0.009
144.00	-7.56	-0.16	0.00	-1.94	0.00	1.94	1379.97	343.50	695.99	682.44	1.82	-0.13	0.008
145.00	-7.45	-0.16	0.00	-1.79	0.00	1.79	1372.92	340.76	684.93	673.48	1.85	-0.13	0.008
145.00	-7.45	-0.16	0.00	-1.79	0.00	1.79	931.20	332.53	24157.3	604.09	1.85	-0.13	0.011
146.00	-7.34	-0.16	0.00	-1.63	0.00	1.63	925.24	329.86	23770.3	594.77	1.88	-0.13	0.011
148.00	-7.13	-0.16	0.00	-1.32	0.00	1.32	913.32	324.51	23005.8	576.36	1.93	-0.13	0.010
150.00	-6.92	-0.15	0.00	-1.01	0.00	1.01	901.40	319.16	22253.7	558.24	1.99	-0.13	0.009
150.00	-6.92	-0.15	0.00	-1.01	0.00	1.01	556.65	167.00	10296.1	213.69	1.99	-0.13	0.017
152.00	-3.83	-0.09	0.00	-0.70	0.00	0.70	556.65	167.00	10296.1	213.69	2.05	-0.13	0.010
154.00	-3.67	-0.09	0.00	-0.52	0.00	0.52	556.65	167.00	10296.1	213.69	2.10	-0.13	0.009
156.00	-3.52	-0.09	0.00	-0.35	0.00	0.35	556.65	167.00	10296.1	213.69	2.16	-0.14	0.008
158.00	-3.36	-0.09	0.00	-0.17	0.00	0.17	556.65	167.00	10296.1	213.69	2.21	-0.14	0.007
160.00	0.00	-0.08	0.00	0.00	0.00	0.00	556.65	167.00	10296.1	213.69	2.27	-0.14	0.000

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

**Gust Response Factor** 1.10

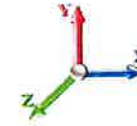
**Dead Load Factor** 0.90 **Seismic Load Factor** 1.00

**Wind Load Factor** 0.00 **Structure Frequency (f1)** 0.24

**Sds** 0.21

**Sd1** 0.09

**SA** 0.02



**Iterations** 23

**Ss** 0.20

**S1** 0.05

**Seismic Importance Factor** 1.00

Top Elev (ft)	Description	Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)	R: 1.50
0.00	RB1 RB2	0.00	0.00	0.00	0.00	
1.00	RT2 RB3	519.85	0.50	21.96	0.00	
2.00		519.05	1.50	21.92	0.00	
4.00		1035.7	3.00	43.75	0.00	
6.00		1032.5	5.00	43.61	0.01	
8.00		1029.3	7.00	43.48	0.02	
10.00		1026.1	9.00	43.34	0.04	
12.00		1022.9	11.00	43.21	0.06	
14.00		1019.7	13.00	43.07	0.08	
16.00	Bot - Section 2	1016.5	15.00	42.94	0.10	
16.25	RT1 RB4	175.77	16.13	7.42	0.00	
18.00		1227.5	17.13	51.85	0.19	
18.63	RB5	440.73	18.31	18.62	0.03	
18.88	RT3	174.72	18.75	7.38	0.00	
20.00		781.51	19.44	33.01	0.10	
22.00	Top - Section 1	1390.5	21.00	58.74	0.37	
24.00		1009.9	23.00	42.66	0.24	
26.00		1006.8	25.00	42.53	0.28	
28.00		1003.6	27.00	42.39	0.32	
30.00	RB6	1270.4	29.00	53.66	0.59	
31.00	RT4	634.01	30.50	26.78	0.16	
32.00		633.22	31.50	26.75	0.17	
33.38	RT5	499.93	32.69	21.12	0.12	
34.00		224.11	33.69	9.47	0.02	
36.00		720.85	35.00	30.45	0.28	
38.00		717.66	37.00	30.31	0.31	
40.00	Appurtenance(s)	724.48	39.00	30.60	0.35	
42.00		711.00	41.00	30.03	0.37	
44.00		707.81	43.00	29.90	0.40	
45.16	RB7	409.07	44.58	17.28	0.15	
46.00	RT6	295.55	45.58	12.48	0.08	
48.00		701.43	47.00	29.63	0.48	
50.00	Bot - Section 3	698.25	49.00	29.49	0.51	
52.00		1036.9	51.00	43.80	1.22	
54.00		1030.5	53.00	43.53	1.30	
56.00	Top - Section 2	1024.2	55.00	43.26	1.39	
58.00	RT7 RB8	691.65	57.00	29.22	0.68	
60.00		688.47	59.00	29.08	0.72	
62.00		685.28	61.00	28.95	0.76	
64.00		682.09	63.00	28.81	0.81	
66.00		678.90	65.00	28.68	0.85	
68.00		675.71	67.00	28.54	0.90	
70.00		672.52	69.00	28.41	0.94	
72.00		669.34	71.00	28.27	0.99	
74.00		666.15	73.00	28.14	1.03	
76.00		662.96	75.00	28.00	1.08	

## Seismic Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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78.00	RT8 RB9	659.77	77.00	27.87	1.13
80.00	Top - Section 3	656.58	79.00	27.73	1.18
82.00		604.81	81.00	25.55	1.05
84.00		602.15	83.00	25.43	1.09
86.00		599.49	85.00	25.32	1.14
88.00		596.84	87.00	25.21	1.18
90.00		594.18	89.00	25.10	1.22
92.00		591.52	91.00	24.99	1.27
94.00		588.87	93.00	24.87	1.31
95.00	Bot - Section 5	293.44	94.50	12.39	0.34
95.58	RT9	236.82	95.29	10.00	0.22
96.00		171.21	95.79	7.23	0.12
98.00		812.07	97.00	34.30	2.71
100.00	Top - Section 4	536.75	99.00	22.67	1.23
102.00		312.52	101.00	13.20	0.44
104.00		309.86	103.00	13.09	0.45
106.00		307.20	105.00	12.98	0.45
108.00		304.55	107.00	12.86	0.46
110.00	Appurtenance(s)	357.89	109.00	15.12	0.67
112.00		298.30	111.00	12.60	0.48
114.00		295.64	113.00	12.49	0.49
115.00	Top - Section 5	146.82	114.50	6.20	0.12
116.00		125.94	115.50	5.32	0.09
118.00		250.28	117.00	10.57	0.37
120.00		248.15	119.00	10.48	0.38
122.00		246.03	121.00	10.39	0.39
124.00		243.90	123.00	10.30	0.39
126.00		241.78	125.00	10.21	0.40
128.00		239.65	127.00	10.12	0.40
130.00		237.52	129.00	10.03	0.41
131.75	Appurtenance(s)	470.09	130.88	19.86	1.65
132.00		29.31	131.88	1.24	0.01
133.00	Appurtenance(s)	4470.0	132.50	188.81	153.36
134.00		104.38	133.50	4.41	0.08
136.00		207.17	135.00	8.75	0.34
138.00		205.05	137.00	8.66	0.34
140.00		202.92	139.00	8.57	0.35
142.00	Appurtenance(s)	4731.1	141.00	199.85	194.55
144.00		174.57	143.00	7.37	0.27
145.00	Top - Section 6	86.49	144.50	3.65	0.07
146.00		84.37	145.50	3.56	0.07
148.00		167.18	147.00	7.06	0.26
150.00	Top - Section 7	165.11	149.00	6.97	0.26
152.00	Appurtenance(s)	2483.5	151.00	104.91	61.48
154.00		120.90	153.00	5.11	0.15
156.00		120.90	155.00	5.11	0.15
158.00		120.90	157.00	5.11	0.16
160.00	Appurtenance(s)	2700.6	159.00	114.07	80.60
<b>Totals:</b>		<b>62,601.0</b>		<b>2,644.3</b>	<b>534.3</b>

**Total Wind: 33,109.6**

## Calculated Forces

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** B  
**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

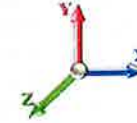
**Dead Load Factor:** 0.90    **Seismic Load Factor:** 1.00

**Wind Load Factor:** 0.00    **Structure Frequency (f1):** 0.24

**Sds:** 0.21

**Sd1:** 0.09

**SA:** 0.02



**Iterations:** 23

**Ss:** 0.20

**S1:** 0.05

**Seismic Importance Factor:** 1.00

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (-) (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	phi Pn (kips)	phi Vn (kips)	phi Tn (ft-kips)	phi Mn (ft-kips)	Total Deflect (in)	Rotation Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-61.45	-0.53	0.00	-77.21	0.00	77.21	3683.82	1059.58	4414.92	3756.66		0.00	0.00	0.022
1.00	-60.93	-0.53	0.00	-76.68	0.00	76.68	3677.71	1055.47	4380.73	3735.77		0.00	0.00	0.022
2.00	-60.41	-0.53	0.00	-76.15	0.00	76.15	3671.54	1051.36	4346.67	3714.86		0.00	0.00	0.021
4.00	-59.37	-0.54	0.00	-75.08	0.00	75.08	3659.00	1043.14	4278.95	3673.00		0.00	0.00	0.021
6.00	-58.33	-0.54	0.00	-74.01	0.00	74.01	3646.20	1034.91	4211.76	3631.09		0.00	0.00	0.021
8.00	-57.30	-0.54	0.00	-72.93	0.00	72.93	3633.16	1026.69	4145.10	3589.13		0.00	-0.01	0.021
10.00	-56.27	-0.54	0.00	-71.86	0.00	71.86	3619.85	1018.47	4078.97	3547.13		0.01	-0.01	0.021
12.00	-55.25	-0.54	0.00	-70.78	0.00	70.78	3606.29	1010.25	4013.38	3505.10		0.01	-0.01	0.020
14.00	-54.22	-0.54	0.00	-69.70	0.00	69.70	3592.48	1002.02	3948.31	3463.03		0.01	-0.01	0.020
16.00	-53.20	-0.54	0.00	-68.62	0.00	68.62	3578.41	993.80	3883.78	3420.94		0.02	-0.01	0.020
16.25	-53.03	-0.54	0.00	-68.48	0.00	68.48	3576.63	992.77	3875.75	3415.68		0.02	-0.01	0.020
18.00	-51.82	-0.54	0.00	-67.53	0.00	67.53	3564.09	985.58	3819.78	3378.83		0.02	-0.01	0.023
18.63	-51.38	-0.54	0.00	-67.19	0.00	67.19	3559.52	982.99	3799.73	3365.57		0.02	-0.01	0.022
18.88	-51.21	-0.54	0.00	-67.05	0.00	67.05	3557.70	981.96	3791.79	3360.30		0.03	-0.01	0.018
20.00	-50.44	-0.54	0.00	-66.44	0.00	66.44	3549.51	977.36	3756.31	3336.71		0.03	-0.01	0.021
22.00	-49.06	-0.54	0.00	-65.36	0.00	65.36	3563.12	985.03	3815.51	3376.01		0.03	-0.02	0.021
24.00	-48.05	-0.55	0.00	-64.27	0.00	64.27	3548.52	976.81	3752.08	3333.89		0.04	-0.02	0.021
26.00	-47.04	-0.55	0.00	-63.18	0.00	63.18	3533.67	968.58	3689.18	3291.77		0.05	-0.02	0.020
28.00	-46.03	-0.55	0.00	-62.08	0.00	62.08	3518.56	960.36	3626.81	3249.64		0.06	-0.02	0.020
30.00	-44.74	-0.55	0.00	-60.99	0.00	60.99	3503.20	952.14	3564.97	3207.53		0.06	-0.02	0.020
31.00	-44.10	-0.55	0.00	-60.44	0.00	60.44	3495.43	948.03	3534.25	3186.48		0.07	-0.02	0.015
32.00	-43.46	-0.55	0.00	-59.90	0.00	59.90	3487.59	943.92	3503.66	3165.43		0.07	-0.02	0.018
33.38	-42.96	-0.55	0.00	-59.14	0.00	59.14	3476.66	938.24	3461.67	3136.39		0.08	-0.02	0.018
34.00	-42.74	-0.55	0.00	-58.80	0.00	58.80	3471.72	935.70	3442.89	3123.35		0.08	-0.02	0.022
36.00	-42.02	-0.55	0.00	-57.71	0.00	57.71	3455.59	927.47	3382.65	3081.29		0.09	-0.03	0.021
38.00	-41.31	-0.55	0.00	-56.61	0.00	56.61	3439.21	919.25	3322.94	3039.26		0.10	-0.03	0.021
40.00	-40.59	-0.55	0.00	-55.51	0.00	55.51	3422.57	911.03	3263.76	2997.28		0.12	-0.03	0.021
42.00	-39.89	-0.55	0.00	-54.42	0.00	54.42	3405.68	902.81	3205.11	2955.34		0.13	-0.03	0.021
44.00	-39.18	-0.55	0.00	-53.32	0.00	53.32	3388.54	894.58	3146.99	2913.44		0.14	-0.03	0.020
45.16	-38.78	-0.55	0.00	-52.68	0.00	52.68	3378.48	889.81	3113.53	2889.17		0.15	-0.03	0.020
46.00	-38.48	-0.55	0.00	-52.22	0.00	52.22	3371.14	886.36	3089.41	2871.61		0.16	-0.03	0.015
48.00	-37.79	-0.55	0.00	-51.11	0.00	51.11	3353.48	878.14	3032.36	2829.83		0.17	-0.04	0.019
50.00	-37.09	-0.55	0.00	-50.01	0.00	50.01	3335.57	869.92	2975.84	2788.13		0.19	-0.04	0.019
52.00	-36.08	-0.55	0.00	-48.91	0.00	48.91	3317.41	861.69	2919.85	2746.50		0.20	-0.04	0.018
54.00	-35.07	-0.55	0.00	-47.81	0.00	47.81	3298.98	853.47	2864.39	2704.94		0.22	-0.04	0.018
56.00	-34.07	-0.55	0.00	-46.71	0.00	46.71	3316.18	861.14	2916.12	2743.71		0.24	-0.04	0.018
58.00	-33.38	-0.55	0.00	-45.62	0.00	45.62	3297.74	852.92	2860.70	2702.16		0.25	-0.04	0.017
60.00	-32.70	-0.55	0.00	-44.52	0.00	44.52	3279.05	844.70	2805.81	2660.71		0.27	-0.04	0.018
62.00	-32.02	-0.55	0.00	-43.43	0.00	43.43	3260.10	836.48	2751.45	2619.34		0.29	-0.05	0.018
64.00	-31.34	-0.55	0.00	-42.33	0.00	42.33	3240.90	828.25	2697.62	2578.08		0.31	-0.05	0.018
66.00	-30.66	-0.55	0.00	-41.24	0.00	41.24	3221.44	820.03	2644.33	2536.92		0.33	-0.05	0.018
68.00	-29.99	-0.55	0.00	-40.15	0.00	40.15	3201.73	811.81	2591.56	2495.87		0.35	-0.05	0.017
70.00	-29.32	-0.54	0.00	-39.06	0.00	39.06	3181.76	803.59	2539.33	2454.94		0.38	-0.05	0.017
72.00	-28.66	-0.54	0.00	-37.97	0.00	37.97	3161.54	795.36	2487.63	2414.13		0.40	-0.06	0.017
74.00	-27.99	-0.54	0.00	-36.88	0.00	36.88	3141.06	787.14	2436.47	2373.45		0.42	-0.06	0.017
76.00	-27.33	-0.54	0.00	-35.79	0.00	35.79	3120.33	778.92	2385.83	2332.91		0.45	-0.06	0.016
78.00	-26.67	-0.54	0.00	-34.71	0.00	34.71	3099.34	770.70	2335.73	2292.51		0.47	-0.06	0.016



## Calculated Forces

**Structure:** CT02049-S-SBA

**Code:** TIA-222-H

8/17/2023

**Site Name:** Beacon Falls

**Exposure:** B



**Height:** 160.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 0.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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80.00	-26.02	-0.54	0.00	-33.63	0.00	33.63	3078.09	762.47	2286.15	2252.26	0.50	-0.06	0.016
80.00	-26.02	-0.54	0.00	-33.63	0.00	33.63	2384.58	636.50	1911.75	1750.88	0.50	-0.06	0.017
82.00	-25.41	-0.54	0.00	-32.55	0.00	32.55	2370.62	629.65	1870.81	1721.73	0.52	-0.06	0.018
84.00	-24.81	-0.54	0.00	-31.47	0.00	31.47	2356.42	622.80	1830.32	1692.63	0.55	-0.07	0.018
86.00	-24.21	-0.54	0.00	-30.39	0.00	30.39	2341.95	615.94	1790.27	1663.57	0.58	-0.07	0.018
88.00	-23.61	-0.54	0.00	-29.32	0.00	29.32	2327.23	609.09	1750.66	1634.56	0.61	-0.07	0.017
90.00	-23.01	-0.54	0.00	-28.24	0.00	28.24	2312.26	602.24	1711.49	1605.61	0.64	-0.07	0.017
92.00	-22.42	-0.53	0.00	-27.17	0.00	27.17	2297.03	595.39	1672.77	1576.72	0.67	-0.07	0.016
94.00	-21.83	-0.53	0.00	-26.11	0.00	26.11	2281.55	588.54	1634.49	1547.90	0.70	-0.08	0.016
95.00	-21.54	-0.53	0.00	-25.57	0.00	25.57	2273.71	585.11	1615.51	1533.52	0.71	-0.08	0.016
95.58	-21.30	-0.53	0.00	-25.27	0.00	25.27	2269.13	583.12	1604.56	1525.19	0.72	-0.08	0.016
95.58	-21.30	-0.53	0.00	-25.27	0.00	25.27	2269.13	583.12	1604.56	1525.19	0.72	-0.08	0.022
96.00	-21.13	-0.53	0.00	-25.04	0.00	25.04	2265.81	581.68	1596.65	1519.16	0.73	-0.08	0.026
98.00	-20.33	-0.53	0.00	-23.98	0.00	23.98	2249.81	574.83	1559.25	1490.50	0.76	-0.08	0.025
100.00	-19.82	-0.53	0.00	-22.92	0.00	22.92	2259.61	579.02	1582.04	1508.00	0.80	-0.08	0.024
102.00	-19.51	-0.53	0.00	-21.86	0.00	21.86	2243.52	572.17	1544.82	1479.37	0.83	-0.09	0.023
104.00	-19.21	-0.53	0.00	-20.81	0.00	20.81	2227.17	565.31	1508.04	1450.84	0.87	-0.09	0.023
106.00	-18.92	-0.53	0.00	-19.75	0.00	19.75	2210.57	558.46	1471.71	1422.40	0.91	-0.09	0.022
108.00	-18.62	-0.53	0.00	-18.69	0.00	18.69	2193.71	551.61	1435.82	1394.06	0.95	-0.09	0.022
110.00	-18.27	-0.53	0.00	-17.64	0.00	17.64	2176.60	544.76	1400.37	1365.84	0.99	-0.10	0.021
112.00	-17.98	-0.53	0.00	-16.58	0.00	16.58	2159.23	537.91	1365.36	1337.73	1.03	-0.10	0.021
114.00	-17.70	-0.53	0.00	-15.53	0.00	15.53	2141.61	531.05	1330.80	1309.73	1.07	-0.10	0.020
115.00	-17.55	-0.53	0.00	-15.00	0.00	15.00	2132.70	527.63	1313.68	1295.79	1.09	-0.10	0.020
115.00	-17.55	-0.53	0.00	-15.00	0.00	15.00	1556.62	422.98	1055.35	949.74	1.09	-0.10	0.027
116.00	-17.43	-0.53	0.00	-14.47	0.00	14.47	1551.43	420.24	1041.71	940.38	1.11	-0.10	0.027
118.00	-17.19	-0.53	0.00	-13.42	0.00	13.42	1540.84	414.76	1014.72	921.68	1.16	-0.11	0.026
120.00	-16.94	-0.53	0.00	-12.36	0.00	12.36	1529.99	409.28	988.07	902.99	1.20	-0.11	0.025
122.00	-16.70	-0.53	0.00	-11.30	0.00	11.30	1518.89	403.80	961.78	884.33	1.25	-0.11	0.024
124.00	-16.46	-0.53	0.00	-10.25	0.00	10.25	1507.54	398.32	935.85	865.70	1.30	-0.12	0.023
126.00	-16.23	-0.53	0.00	-9.19	0.00	9.19	1495.93	392.84	910.27	847.11	1.35	-0.12	0.022
128.00	-15.99	-0.53	0.00	-8.14	0.00	8.14	1484.06	387.35	885.04	828.56	1.40	-0.12	0.021
130.00	-15.76	-0.53	0.00	-7.08	0.00	7.08	1471.95	381.87	860.17	810.06	1.45	-0.12	0.019
131.75	-15.31	-0.52	0.00	-6.16	0.00	6.16	1461.13	377.08	838.70	793.92	1.49	-0.12	0.018
132.00	-15.28	-0.52	0.00	-6.03	0.00	6.03	1459.57	376.39	835.65	791.62	1.50	-0.12	0.018
133.00	-11.06	-0.36	0.00	-5.51	0.00	5.51	1453.29	373.65	823.53	782.42	1.52	-0.12	0.015
134.00	-10.96	-0.36	0.00	-5.14	0.00	5.14	1446.94	370.91	811.49	773.23	1.55	-0.13	0.014
136.00	-10.76	-0.36	0.00	-4.42	0.00	4.42	1434.06	365.43	787.68	754.91	1.60	-0.13	0.013
138.00	-10.56	-0.36	0.00	-3.69	0.00	3.69	1420.92	359.95	764.23	736.67	1.66	-0.13	0.012
140.00	-10.36	-0.36	0.00	-2.97	0.00	2.97	1407.52	354.47	741.13	718.50	1.71	-0.13	0.011
142.00	-5.90	-0.16	0.00	-2.25	0.00	2.25	1393.87	348.98	718.38	700.42	1.77	-0.13	0.007
144.00	-5.73	-0.16	0.00	-1.94	0.00	1.94	1379.97	343.50	695.99	682.44	1.82	-0.13	0.007
145.00	-5.65	-0.16	0.00	-1.78	0.00	1.78	1372.92	340.76	684.93	673.48	1.85	-0.13	0.007
145.00	-5.65	-0.16	0.00	-1.78	0.00	1.78	931.20	332.53	24157.3	604.09	1.85	-0.13	0.009
146.00	-5.57	-0.16	0.00	-1.63	0.00	1.63	925.24	329.86	23770.3	594.77	1.88	-0.13	0.009
148.00	-5.40	-0.15	0.00	-1.32	0.00	1.32	913.32	324.51	23005.8	576.36	1.93	-0.13	0.008
150.00	-5.24	-0.15	0.00	-1.01	0.00	1.01	901.40	319.16	22253.7	558.24	1.99	-0.13	0.008
150.00	-5.24	-0.15	0.00	-1.01	0.00	1.01	556.65	167.00	10296.1	213.69	1.99	-0.13	0.014
152.00	-2.90	-0.09	0.00	-0.70	0.00	0.70	556.65	167.00	10296.1	213.69	2.04	-0.13	0.008
154.00	-2.78	-0.09	0.00	-0.52	0.00	0.52	556.65	167.00	10296.1	213.69	2.10	-0.13	0.007
156.00	-2.67	-0.09	0.00	-0.35	0.00	0.35	556.65	167.00	10296.1	213.69	2.15	-0.13	0.006
158.00	-2.55	-0.09	0.00	-0.17	0.00	0.17	556.65	167.00	10296.1	213.69	2.21	-0.14	0.005
160.00	0.00	-0.08	0.00	0.00	0.00	0.00	556.65	167.00	10296.1	213.69	2.27	-0.14	0.000

## Wind Loading - Shaft

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

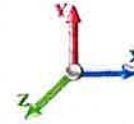
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 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	RB1 RB2	1.00	0.70	5.361	5.90	215.71	0.950	0.000	0.00	0.000	0.00	0.0	0.0	0.0
1.00	RT2 RB3	1.00	0.70	5.361	5.90	214.88	0.972 *	0.000	1.00	4.338	4.21	24.9	0.0	205.0
2.00		1.00	0.70	5.361	5.90	214.05	0.973 *	0.000	1.00	4.321	4.20	24.8	0.0	204.2
4.00		1.00	0.70	5.361	5.90	212.39	0.975 *	0.000	2.00	8.592	8.37	49.4	0.0	406.1
6.00		1.00	0.70	5.361	5.90	210.73	0.977 *	0.000	2.00	8.525	8.33	49.1	0.0	402.9
8.00		1.00	0.70	5.361	5.90	209.07	0.980 *	0.000	2.00	8.458	8.28	48.9	0.0	399.7
10.00		1.00	0.70	5.361	5.90	207.41	0.982 *	0.000	2.00	8.391	8.24	48.6	0.0	396.5
12.00		1.00	0.70	5.361	5.90	205.75	0.985 *	0.000	2.00	8.324	8.20	48.3	0.0	393.3
14.00		1.00	0.70	5.361	5.90	204.08	0.987 *	0.000	2.00	8.257	8.15	48.1	0.0	390.2
16.00	Bot - Section 2	1.00	0.70	5.361	5.90	202.42	0.990 *	0.000	2.00	8.190	8.11	47.8	0.0	387.0
16.25	RT1 RB4	1.00	0.70	5.361	5.90	202.21	0.991 *	0.000	0.25	1.035	1.03	6.1	0.0	97.1
18.00		1.00	0.70	5.361	5.90	200.76	0.993 *	0.000	1.75	7.217	7.16	42.2	0.0	676.7
18.63	RB5	1.00	0.70	5.361	5.90	200.24	0.994 *	0.000	0.63	2.586	2.57	15.2	0.0	242.4
18.88	RT3	1.00	0.70	5.361	5.90	200.03	0.995 *	0.000	0.25	1.024	1.02	6.0	0.0	96.0
20.00		1.00	0.70	5.361	5.90	199.10	0.996 *	0.000	1.12	4.576	4.56	26.9	0.0	428.9
22.00	Top - Section 1	1.00	0.70	5.361	5.90	197.44	0.998 *	0.000	2.00	8.118	8.10	47.8	0.0	761.0
24.00		1.00	0.70	5.361	5.90	198.99	0.995 *	0.000	2.00	8.052	8.01	47.3	0.0	380.4
26.00		1.00	0.70	5.361	5.90	197.33	0.998 *	0.000	2.00	7.985	7.97	47.0	0.0	377.2
28.00		1.00	0.70	5.361	5.90	195.67	1.001 *	0.000	2.00	7.918	7.93	46.7	0.0	374.0
30.00	RB6	1.00	0.70	5.365	5.90	194.09	1.079 *	0.000	2.00	7.851	8.47	50.0	0.0	370.8
31.00	RT4	1.00	0.71	5.416	5.96	194.16	1.082 *	0.000	1.00	3.900	4.22	25.1	0.0	184.2
32.00		1.00	0.71	5.465	6.01	194.21	1.084 *	0.000	1.00	3.883	4.21	25.3	0.0	183.4
33.38	RT5	1.00	0.72	5.532	6.08	194.22	0.950	0.000	1.38	5.332	5.07	30.8	0.0	251.8
34.00		1.00	0.73	5.561	6.12	194.20	0.950	0.000	0.62	2.385	2.27	13.9	0.0	112.6
36.00		1.00	0.74	5.652	6.22	194.09	0.950	0.000	2.00	7.650	7.27	45.2	0.0	361.3
38.00		1.00	0.75	5.740	6.31	193.87	0.950	0.000	2.00	7.583	7.20	45.5	0.0	358.1
40.00	Appurtenance(s)	1.00	0.76	5.825	6.41	193.57	0.950	0.000	2.00	7.516	7.14	45.8	0.0	354.9
42.00		1.00	0.77	5.907	6.50	193.18	0.950	0.000	2.00	7.449	7.08	46.0	0.0	351.7
44.00		1.00	0.78	5.986	6.58	192.71	0.950	0.000	2.00	7.382	7.01	46.2	0.0	348.5
45.16	RB7	1.00	0.79	6.031	6.63	192.41	0.950	0.000	1.16	4.251	4.04	26.8	0.0	200.7
46.00	RT6	1.00	0.79	6.062	6.67	192.17	0.950	0.000	0.84	3.064	2.91	19.4	0.0	144.6
48.00		1.00	0.80	6.137	6.75	191.57	0.950	0.000	2.00	7.248	6.89	46.5	0.0	342.1
50.00	Bot - Section 3	1.00	0.81	6.209	6.83	190.90	0.950	0.000	2.00	7.181	6.82	46.6	0.0	338.9
52.00		1.00	0.82	6.279	6.91	190.17	0.950	0.000	2.00	7.244	6.88	47.5	0.0	677.6
54.00		1.00	0.83	6.347	6.98	189.39	0.950	0.000	2.00	7.177	6.82	47.6	0.0	671.3
56.00	Top - Section 2	1.00	0.84	6.413	7.05	188.56	0.950	0.000	2.00	7.110	6.75	47.6	0.0	664.9
58.00	RT7 RB8	1.00	0.85	6.477	7.13	191.21	0.950	0.000	2.00	7.043	6.69	47.7	0.0	332.3
60.00		1.00	0.85	6.541	7.19	190.31	0.950	0.000	2.00	6.976	6.63	47.7	0.0	329.2
62.00		1.00	0.86	6.602	7.26	189.36	0.950	0.000	2.00	6.909	6.56	47.7	0.0	326.0
64.00		1.00	0.87	6.662	7.33	188.37	0.950	0.000	2.00	6.842	6.50	47.6	0.0	322.8
66.00		1.00	0.88	6.721	7.39	187.34	0.950	0.000	2.00	6.775	6.44	47.6	0.0	319.6
68.00		1.00	0.89	6.779	7.46	186.27	0.950	0.000	2.00	6.708	6.37	47.5	0.0	316.4
70.00		1.00	0.89	6.835	7.52	185.16	0.950	0.000	2.00	6.641	6.31	47.4	0.0	313.2
72.00		1.00	0.90	6.890	7.58	184.03	0.950	0.000	2.00	6.574	6.25	47.3	0.0	310.0
74.00		1.00	0.91	6.944	7.64	182.86	0.950	0.000	2.00	6.507	6.18	47.2	0.0	306.8
76.00		1.00	0.91	6.998	7.70	181.66	0.950	0.000	2.00	6.440	6.12	47.1	0.0	303.6
78.00	RT8 RB9	1.00	0.92	7.050	7.75	180.43	0.950	0.000	2.00	6.373	6.05	47.0	0.0	300.5

## Wind Loading - Shaft

**Structure:** CT02049-S-SBA

**Code:** TIA-222-H

8/17/2023

**Site Name:** Beacon Falls

**Exposure:** B



**Height:** 160.00 (ft)

**Crest Height:** 0.00

**Base Elev:** 0.000 (ft)

**Site Class:** D - Stiff Soil

**Gh:** 1.1

**Topography:** 1

**Struct Class:** II

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Tower Engineering Solutions

80.00 Top - Section 3	1.00	0.93	7.101	7.81	179.17	0.950	0.000	2.00	6.306	5.99	46.8	0.0	297.3
82.00	1.00	0.93	7.151	7.87	177.88	0.950	0.000	2.00	6.239	5.93	46.6	0.0	245.5
84.00	1.00	0.94	7.201	7.92	176.57	0.950	0.000	2.00	6.172	5.86	46.4	0.0	242.8
86.00	1.00	0.95	7.249	7.97	175.23	0.950	0.000	2.00	6.106	5.80	46.3	0.0	240.2
88.00	1.00	0.95	7.297	8.03	173.87	0.950	0.000	2.00	6.039	5.74	46.0	0.0	237.5
90.00	1.00	0.96	7.344	8.08	172.49	0.950	0.000	2.00	5.972	5.67	45.8	0.0	234.9
92.00	1.00	0.96	7.390	8.13	171.08	0.950	0.000	2.00	5.905	5.61	45.6	0.0	232.2
94.00	1.00	0.97	7.436	8.18	169.65	0.950	0.000	2.00	5.838	5.55	45.4	0.0	229.6
95.00 Bot - Section 5	1.00	0.97	7.458	8.20	168.92	0.950	0.000	1.00	2.894	2.75	22.6	0.0	113.8
95.58 RT9	1.00	0.98	7.471	8.22	168.50	0.950	0.000	0.58	1.702	1.62	13.3	0.0	132.6
96.00	1.00	0.98	7.481	8.23	168.20	0.950	0.000	0.42	1.229	1.17	9.6	0.0	95.8
98.00	1.00	0.98	7.525	8.28	166.72	0.950	0.000	2.00	5.812	5.52	45.7	0.0	452.8
100.00 Top - Section 4	1.00	0.99	7.568	8.33	165.23	0.950	0.000	2.00	5.745	5.46	45.4	0.0	447.4
102.00	1.00	0.99	7.611	8.37	166.91	0.950	0.000	2.00	5.678	5.39	45.2	0.0	223.2
104.00	1.00	1.00	7.654	8.42	165.39	0.950	0.000	2.00	5.611	5.33	44.9	0.0	220.5
106.00	1.00	1.00	7.695	8.46	163.85	0.950	0.000	2.00	5.544	5.27	44.6	0.0	217.9
108.00	1.00	1.01	7.737	8.51	162.29	0.950	0.000	2.00	5.477	5.20	44.3	0.0	215.2
110.00 Appurtenance(s)	1.00	1.02	7.777	8.55	160.71	0.950	0.000	2.00	5.410	5.14	44.0	0.0	212.6
112.00	1.00	1.02	7.817	8.60	159.12	0.950	0.000	2.00	5.343	5.08	43.6	0.0	209.9
114.00	1.00	1.03	7.857	8.64	157.51	0.950	0.000	2.00	5.276	5.01	43.3	0.0	207.3
115.00 Top - Section 5	1.00	1.03	7.877	8.66	156.70	0.950	0.000	1.00	2.613	2.48	21.5	0.0	102.6
116.00	1.00	1.03	7.896	8.69	155.89	0.950	0.000	1.00	2.596	2.47	21.4	0.0	81.7
118.00	1.00	1.04	7.935	8.73	154.25	0.950	0.000	2.00	5.142	4.89	42.6	0.0	161.9
120.00	1.00	1.04	7.973	8.77	152.59	0.950	0.000	2.00	5.075	4.82	42.3	0.0	159.8
122.00	1.00	1.05	8.011	8.81	150.92	0.950	0.000	2.00	5.008	4.76	41.9	0.0	157.6
124.00	1.00	1.05	8.048	8.85	149.24	0.950	0.000	2.00	4.941	4.69	41.6	0.0	155.5
126.00	1.00	1.06	8.085	8.89	147.54	0.950	0.000	2.00	4.874	4.63	41.2	0.0	153.4
128.00	1.00	1.06	8.121	8.93	145.83	0.950	0.000	2.00	4.807	4.57	40.8	0.0	151.3
130.00	1.00	1.07	8.157	8.97	144.10	0.950	0.000	2.00	4.741	4.50	40.4	0.0	149.1
131.75 Appurtenance(s)	1.00	1.07	8.189	9.01	142.58	0.950	0.000	1.75	4.093	3.89	35.0	0.0	128.8
132.00	1.00	1.07	8.193	9.01	142.36	0.950	0.000	0.25	0.581	0.55	5.0	0.0	18.3
133.00 Appurtenance(s)	1.00	1.07	8.211	9.03	141.49	0.950	0.000	1.00	2.312	2.20	19.8	0.0	72.7
134.00	1.00	1.07	8.228	9.05	140.61	0.950	0.000	1.00	2.295	2.18	19.7	0.0	72.2
136.00	1.00	1.08	8.263	9.09	138.84	0.950	0.000	2.00	4.540	4.31	39.2	0.0	142.8
138.00	1.00	1.08	8.298	9.13	137.07	0.950	0.000	2.00	4.473	4.25	38.8	0.0	140.6
140.00	1.00	1.09	8.332	9.17	135.28	0.950	0.000	2.00	4.406	4.19	38.4	0.0	138.5
142.00 Appurtenance(s)	1.00	1.09	8.366	9.20	133.48	0.950	0.000	2.00	4.339	4.12	37.9	0.0	136.4
144.00	1.00	1.10	8.399	9.24	131.66	0.950	0.000	2.00	4.272	4.06	37.5	0.0	134.3
145.00 Top - Section 6	1.00	1.10	8.416	9.26	130.75	0.950	0.000	1.00	2.111	2.01	18.6	0.0	66.3
146.00	1.00	1.10	8.432	9.28	125.44	0.600	0.000	1.00	2.023	1.21	11.3	0.0	64.2
148.00	1.00	1.11	8.465	9.31	123.67	0.600	0.000	2.00	3.998	2.40	22.3	0.0	126.9
150.00 Top - Section 7	1.00	1.11	8.498	9.35	121.89	0.600	0.000	2.00	3.933	2.36	22.1	0.0	124.8
152.00 Appurtenance(s)	1.00	1.11	8.530	9.38	83.48	0.645 *	0.000	2.00	2.667	1.72	16.1	0.0	84.2
154.00	1.00	1.12	8.562	9.42	83.64	0.645 *	0.000	2.00	2.667	1.72	16.2	0.0	84.2
156.00	1.00	1.12	8.594	9.45	83.79	0.645 *	0.000	2.00	2.667	1.72	16.3	0.0	84.2
158.00	1.00	1.13	8.625	9.49	83.94	0.645 *	0.000	2.00	2.667	1.72	16.3	0.0	84.2
160.00 Appurtenance(s)	1.00	1.13	8.656	9.52	84.09	0.645 *	0.000	2.00	2.667	1.72	16.4	0.0	84.2
								<b>Totals:</b>	<b>160.00</b>		<b>3,428.4</b>		<b>23,786.1</b>

\* Cf Adjusted by Linear Load Ra Effect

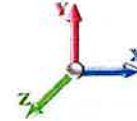
## Discrete Appurtenance Forces

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 80
	<b>Struct Class:</b> II	



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

**Dead Load Factor** 1.00  
**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	160.00	DB846F65ZAXY	6	8.687	9.555	0.70	0.75	29.50	126.00	0.000	2.000	281.93	0.00	563.85
2	160.00	JAHH-65B-R3B	6	8.687	9.555	0.62	0.75	34.03	324.00	0.000	2.000	325.13	0.00	650.27
3	160.00	VZS01	3	8.687	9.555	0.52	0.75	6.68	261.30	0.000	2.000	63.79	0.00	127.58
4	160.00	CBC78T-DS-43-2X	3	8.687	9.555	0.50	0.75	0.56	62.10	0.000	2.000	5.33	0.00	10.66
5	160.00	DB222	1	8.732	9.606	1.00	1.00	2.25	16.00	0.000	5.000	21.61	0.00	108.06
6	160.00	6' Lightning rod	1	8.702	9.572	1.00	1.00	0.38	6.50	0.000	3.000	3.64	0.00	10.91
7	160.00	B2/B66A RRH-BR049	3	8.687	9.555	0.50	0.75	2.82	210.00	0.000	2.000	26.94	0.00	53.87
8	160.00	B5/B13 RRH-BR04C	3	8.687	9.555	0.50	0.75	2.82	253.20	0.000	2.000	26.94	0.00	53.87
9	160.00	Commscope	1	8.687	9.555	0.75	0.75	1.88	15.00	0.000	2.000	17.99	0.00	35.98
10	160.00	BSF0020F3V1-1	6	8.687	9.555	0.50	0.75	4.76	105.60	0.000	2.000	45.52	0.00	91.04
11	160.00	Low Profile Platform	1	8.687	9.555	1.00	1.00	53.50	1200.00	0.000	2.000	511.22	0.00	1022.44
12	152.00	MX08FRO665-21	3	8.530	9.383	0.55	0.75	20.80	193.50	0.000	0.000	195.13	0.00	0.00
13	152.00	MC-PK8-DSH	1	8.530	9.383	1.00	1.00	37.59	1727.00	0.000	0.000	352.71	0.00	0.00
14	152.00	TA08025-B604	3	8.530	9.383	0.50	0.75	2.95	191.70	0.000	0.000	27.72	0.00	0.00
15	152.00	TA08025-B605	3	8.530	9.383	0.50	0.75	2.95	225.00	0.000	0.000	27.72	0.00	0.00
16	152.00	RDIDC-9181-OF-48	1	8.530	9.383	0.75	0.75	1.51	21.90	0.000	0.000	14.15	0.00	0.00
17	142.00	4449 B71 + B85	4	8.366	9.202	0.50	0.75	3.96	292.80	0.000	0.000	36.44	0.00	0.00
18	142.00	KRY 112 144/1	3	8.366	9.202	0.38	0.75	0.46	33.00	0.000	0.000	4.24	0.00	0.00
19	142.00	APXVA18-43-C-A20	1	8.366	9.202	0.61	0.75	5.93	45.40	0.000	0.000	54.61	0.00	0.00
20	142.00	APXVAARR24_43-U-NA2	3	8.366	9.202	0.52	0.75	31.88	384.00	0.000	0.000	293.35	0.00	0.00
21	142.00	KRD 9011461-B66A-B2A	4	8.366	9.202	0.65	0.75	16.99	528.80	0.000	0.000	156.36	0.00	0.00
22	142.00	Mod	1	8.366	9.202	1.00	1.00	12.00	300.00	0.000	0.000	110.43	0.00	0.00
23	142.00	Platform w/ HR & Bracing	1	8.366	9.202	1.00	1.00	52.00	2246.00	0.000	0.000	478.53	0.00	0.00
24	142.00	Ericsson 4460 B25 + B66	4	8.366	9.202	0.50	0.75	5.73	436.00	0.000	0.000	52.72	0.00	0.00
25	142.00	Ericsson Air 6419 B41	4	8.366	9.202	0.57	0.75	8.66	264.40	0.000	0.000	79.73	0.00	0.00
26	133.00	DMP65R-BU6EA-K	2	8.211	9.032	0.57	0.80	19.45	202.00	0.000	0.000	175.65	0.00	0.00
27	133.00	DMP65R-BU8EA-K	1	8.211	9.032	0.58	0.80	10.44	95.70	0.000	0.000	94.26	0.00	0.00
28	133.00	Kathrein 800-10965	3	8.211	9.032	0.57	0.80	23.53	325.80	0.000	0.000	212.54	0.00	0.00
29	133.00	(3) SitePro 1 P/N	2	8.211	9.032	0.56	0.75	24.01	2715.54	0.000	0.000	216.83	0.00	0.00
30	133.00	Powerwave LGP21401	6	8.211	9.032	0.54	0.80	4.15	84.60	0.000	0.000	37.47	0.00	0.00
31	133.00	Ericsson RRUS-32 RRU	3	8.211	9.032	0.54	0.80	6.22	231.00	0.000	0.000	56.20	0.00	0.00
32	133.00	Ericsson B2/B66A 8843	3	8.211	9.032	0.54	0.80	2.64	216.00	0.000	0.000	23.82	0.00	0.00
33	133.00	Ericsson B5/B12 4449	3	8.211	9.032	0.54	0.80	3.17	213.00	0.000	0.000	28.61	0.00	0.00
34	133.00	Raycap DC6-48-60-18-8F	2	8.211	9.032	0.54	0.80	0.99	63.60	0.000	0.000	8.91	0.00	0.00
35	133.00	4478 B14	3	8.211	9.032	0.54	0.80	2.96	179.70	0.000	0.000	26.72	0.00	0.00
36	133.00	DC9-48-60-24-8C-EV	1	8.211	9.032	0.80	0.80	0.91	26.20	0.000	0.000	8.24	0.00	0.00
37	131.75	AIR 6449 B77D	3	8.189	9.008	0.68	0.80	8.43	264.00	0.000	0.000	75.89	0.00	0.00
38	110.00	3 ft Standoff	1	7.777	8.555	1.00	1.00	2.63	40.00	0.000	0.000	22.50	0.00	0.00
39	110.00	DB222	1	7.877	8.664	1.00	1.00	2.65	16.00	0.000	5.000	22.96	0.00	114.80
40	40.00	GPS	1	5.825	6.408	1.00	1.00	1.00	10.00	0.000	0.000	6.41	0.00	0.00
<b>Totals:</b>								<b>14,152.34</b>				<b>4,230.88</b>		

## Total Applied Force Summary

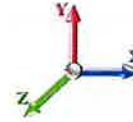
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 81
	<b>Struct Class:</b> II	



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

**Dead Load Factor** 1.00

**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
1.00		24.85	554.82	0.00	0.00
2.00		24.79	554.03	0.00	0.00
4.00		49.38	1105.66	0.00	0.00
6.00		49.12	1102.47	0.00	0.00
8.00		48.85	1099.28	0.00	0.00
10.00		48.59	1096.10	0.00	0.00
12.00		48.33	1092.91	0.00	0.00
14.00		48.07	1089.72	0.00	0.00
16.00		47.80	1086.53	0.00	0.00
16.25		6.05	184.51	0.00	0.00
18.00		42.25	1288.78	0.00	0.00
18.63		15.16	462.77	0.00	0.00
18.88		6.01	183.46	0.00	0.00
20.00		26.87	820.68	0.00	0.00
22.00		47.78	1460.53	0.00	0.00
24.00		47.26	1079.94	0.00	0.00
26.00		47.00	1076.75	0.00	0.00
28.00		46.73	1073.56	0.00	0.00
30.00		50.02	1370.37	0.00	0.00
31.00		25.14	683.99	0.00	0.00
32.00		25.31	683.19	0.00	0.00
33.38		30.82	527.50	0.00	0.00
34.00		13.86	236.50	0.00	0.00
36.00		45.19	760.81	0.00	0.00
38.00		45.49	757.62	0.00	0.00
40.00	(1) attachments	52.16	764.43	0.00	0.00
42.00		45.98	750.92	0.00	0.00
44.00		46.18	747.73	0.00	0.00
45.16		26.79	432.23	0.00	0.00
46.00		19.41	312.32	0.00	0.00
48.00		46.48	741.36	0.00	0.00
50.00		46.59	738.17	0.00	0.00
52.00		47.53	1076.89	0.00	0.00
54.00		47.60	1070.51	0.00	0.00
56.00		47.65	1064.13	0.00	0.00
58.00		47.67	731.58	0.00	0.00
60.00		47.68	728.39	0.00	0.00
62.00		47.67	725.20	0.00	0.00
64.00		47.63	722.01	0.00	0.00
66.00		47.58	718.82	0.00	0.00
68.00		47.52	715.64	0.00	0.00
70.00		47.43	712.45	0.00	0.00
72.00		47.34	709.26	0.00	0.00
74.00		47.22	706.07	0.00	0.00
76.00		47.09	702.88	0.00	0.00
78.00		46.95	699.69	0.00	0.00

## Total Applied Force Summary

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



80.00	46.80	696.51	0.00	0.00	
82.00	46.63	644.73	0.00	0.00	
84.00	46.45	642.07	0.00	0.00	
86.00	46.25	639.42	0.00	0.00	
88.00	46.05	636.76	0.00	0.00	
90.00	45.83	634.10	0.00	0.00	
92.00	45.60	631.45	0.00	0.00	
94.00	45.36	628.79	0.00	0.00	
95.00	22.55	313.40	0.00	0.00	
95.58	13.29	248.40	0.00	0.00	
96.00	9.61	179.59	0.00	0.00	
98.00	45.70	851.99	0.00	0.00	
100.00	45.43	546.68	0.00	0.00	
102.00	45.16	322.44	0.00	0.00	
104.00	44.88	319.78	0.00	0.00	
106.00	44.58	317.13	0.00	0.00	
108.00	44.28	314.47	0.00	0.00	
110.00	(2) attachments	89.43	367.81	0.00	114.80
112.00		43.65	308.12	0.00	0.00
114.00		43.32	305.46	0.00	0.00
115.00		21.51	151.73	0.00	0.00
116.00		21.42	130.85	0.00	0.00
118.00		42.64	260.10	0.00	0.00
120.00		42.29	257.97	0.00	0.00
122.00		41.93	255.85	0.00	0.00
124.00		41.56	253.72	0.00	0.00
126.00		41.18	251.60	0.00	0.00
128.00		40.80	249.47	0.00	0.00
130.00		40.41	247.34	0.00	0.00
131.75	(3) attachments	110.91	478.68	0.00	0.00
132.00		4.97	30.54	0.00	0.00
133.00	(29) attachments	909.09	4474.95	0.00	0.00
134.00		19.73	107.96	0.00	0.00
136.00		39.20	214.33	0.00	0.00
138.00		38.78	212.20	0.00	0.00
140.00		38.36	210.08	0.00	0.00
142.00	(25) attachments	1304.34	4738.35	0.00	0.00
144.00		37.50	179.05	0.00	0.00
145.00		18.56	88.73	0.00	0.00
146.00		11.26	86.61	0.00	0.00
148.00		22.34	171.66	0.00	0.00
150.00		22.06	169.58	0.00	0.00
152.00	(11) attachments	633.57	2488.07	0.00	0.00
154.00		16.20	124.98	0.00	0.00
156.00		16.26	124.98	0.00	0.00
158.00		16.32	124.98	0.00	0.00
160.00	(34) attachments	1346.41	2704.68	0.00	2728.53
<b>Totals:</b>		<b>7,659.27</b>	<b>65,341.32</b>	<b>0.00</b>	<b>2,843.34</b>

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

8/17/2023

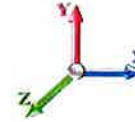
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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

**Iterations** 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)
1.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.023	5.361	0.00	2.20
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	0.52
1.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	1.99
1.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	2.20
1.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	1.91
1.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.023	5.361	0.00	0.52
1.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.023	5.361	0.00	120.00
1.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.023	5.361	0.00	180.00
2.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.108	1.024	5.361	0.00	2.20
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	0.52
2.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	1.99
2.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	2.20
2.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	1.91
2.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.108	1.024	5.361	0.00	0.52
2.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.108	1.024	5.361	0.00	120.00
2.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.108	1.024	5.361	0.00	180.00
4.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.026	5.361	0.00	4.40
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	1.04
4.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	3.98
4.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	4.40
4.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	3.82
4.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.026	5.361	0.00	1.04
4.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.026	5.361	0.00	240.00
4.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.026	5.361	0.00	360.00
6.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.109	1.028	5.361	0.00	4.40
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	1.04
6.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	3.98
6.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	4.40
6.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	3.82
6.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.109	1.028	5.361	0.00	1.04
6.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.109	1.028	5.361	0.00	240.00
6.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.109	1.028	5.361	0.00	360.00
8.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.110	1.031	5.361	0.00	4.40
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	1.04
8.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	3.98
8.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	4.40
8.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	3.82
8.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.110	1.031	5.361	0.00	1.04
8.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.110	1.031	5.361	0.00	240.00
8.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.110	1.031	5.361	0.00	360.00
10.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.111	1.034	5.361	0.00	4.40
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	1.04
10.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	3.98
10.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	4.40
10.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	3.82
10.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.111	1.034	5.361	0.00	1.04
10.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.111	1.034	5.361	0.00	240.00

## Linear Appurtenance Segment Forces (Factored)

Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II

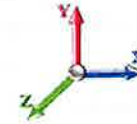


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 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)
10.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.111	1.034	5.361	0.00	360.00
12.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.112	1.036	5.361	0.00	4.40
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	1.04
12.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	3.98
12.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	4.40
12.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	3.82
12.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.112	1.036	5.361	0.00	1.04
12.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.112	1.036	5.361	0.00	240.00
12.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.112	1.036	5.361	0.00	360.00
14.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.113	1.039	5.361	0.00	4.40
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	1.04
14.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	3.98
14.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	4.40
14.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	3.82
14.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.113	1.039	5.361	0.00	1.04
14.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.113	1.039	5.361	0.00	240.00
14.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.113	1.039	5.361	0.00	360.00
16.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.114	1.042	5.361	0.00	4.40
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	1.04
16.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	3.98
16.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	4.40
16.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	3.82
16.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.114	1.042	5.361	0.00	1.04
16.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.114	1.042	5.361	0.00	240.00
16.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.114	1.042	5.361	0.00	360.00
16.25	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.114	1.043	5.361	0.00	0.55
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.13
16.25	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.50
16.25	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.55
16.25	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.48
16.25	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.114	1.043	5.361	0.00	0.13
16.25	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.114	1.043	5.361	0.00	30.00
16.25	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.114	1.043	5.361	0.00	45.00
18.00	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.115	1.045	5.361	0.00	3.85
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	0.91
18.00	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.48
18.00	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.85
18.00	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	3.34
18.00	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.115	1.045	5.361	0.00	0.91
18.00	1" Reinforcing plate	Yes	1.75	0.000	1.00	0.15	0.00	0.115	1.045	5.361	0.00	210.00
18.00	C10x15.3	Yes	1.75	0.000	2.60	0.38	0.00	0.115	1.045	5.361	0.00	315.00
18.63	1 5/8" Hybrid	Yes	0.63	0.000	2.00	0.10	0.00	0.116	1.047	5.361	0.00	1.39
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.33
18.63	1.75" Hybrid	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.25
18.63	1 5/8" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.39
18.63	1-1/4" Fiber	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	1.20
18.63	7/8" Coax	Yes	0.63	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.33



## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



<b>Load Case:</b> 1.0D + 1.0W 60 mph Wind	<b>Iterations</b> 26
<b>Dead Load Factor</b> 1.00	
<b>Wind Load Factor</b> 1.00	



Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
18.63	1" Reinforcing plate	Yes	0.63	0.000	1.00	0.05	0.00	0.116	1.047	5.361	0.00	75.60
18.63	C10x15.3	Yes	0.63	0.000	2.60	0.14	0.00	0.116	1.047	5.361	0.00	113.40
18.88	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.116	1.047	5.361	0.00	0.55
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.13
18.88	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.50
18.88	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.55
18.88	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.48
18.88	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.116	1.047	5.361	0.00	0.13
18.88	1" Reinforcing plate	Yes	0.25	0.000	1.00	0.02	0.00	0.116	1.047	5.361	0.00	30.00
18.88	C10x15.3	Yes	0.25	0.000	2.60	0.05	0.00	0.116	1.047	5.361	0.00	45.00
20.00	1 5/8" Hybrid	Yes	1.12	0.000	2.00	0.19	0.00	0.116	1.048	5.361	0.00	2.46
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	0.58
20.00	1.75" Hybrid	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.23
20.00	1 5/8" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.46
20.00	1-1/4" Fiber	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	2.14
20.00	7/8" Coax	Yes	1.12	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	0.58
20.00	1" Reinforcing plate	Yes	1.12	0.000	1.00	0.09	0.00	0.116	1.048	5.361	0.00	134.40
20.00	C10x15.3	Yes	1.12	0.000	2.60	0.24	0.00	0.116	1.048	5.361	0.00	201.60
22.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.050	5.361	0.00	4.40
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	1.04
22.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	3.98
22.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	4.40
22.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	3.82
22.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.050	5.361	0.00	1.04
22.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.050	5.361	0.00	240.00
22.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.050	5.361	0.00	360.00
24.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.116	1.048	5.361	0.00	4.40
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	1.04
24.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	3.98
24.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	4.40
24.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	3.82
24.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.116	1.048	5.361	0.00	1.04
24.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.116	1.048	5.361	0.00	240.00
24.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.116	1.048	5.361	0.00	360.00
26.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.117	1.051	5.361	0.00	4.40
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	1.04
26.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	3.98
26.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	4.40
26.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	3.82
26.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.117	1.051	5.361	0.00	1.04
26.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.117	1.051	5.361	0.00	240.00
26.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.117	1.051	5.361	0.00	360.00
28.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.118	1.054	5.361	0.00	4.40
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	1.04
28.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	3.98
28.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	4.40
28.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	3.82

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** B  
**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** 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)
28.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.118	1.054	5.361	0.00	1.04
28.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.118	1.054	5.361	0.00	240.00
28.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.118	1.054	5.361	0.00	360.00
30.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.145	1.136	5.365	0.00	4.40
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	1.04
30.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	3.98
30.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	4.40
30.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	3.82
30.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.145	1.136	5.365	0.00	1.04
30.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.145	1.136	5.365	0.00	300.00
30.00	1" Reinforcing plate	Yes	2.00	0.000	1.00	0.17	0.00	0.145	1.136	5.365	0.00	240.00
30.00	C10x15.3	Yes	2.00	0.000	2.60	0.43	0.00	0.145	1.136	5.365	0.00	360.00
31.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.146	1.139	5.416	0.00	2.20
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	0.52
31.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	1.99
31.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	2.20
31.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	1.91
31.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.146	1.139	5.416	0.00	0.52
31.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.146	1.139	5.416	0.00	150.00
31.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.146	1.139	5.416	0.00	120.00
31.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.146	1.139	5.416	0.00	180.00
32.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.147	1.141	5.465	0.00	2.20
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	0.52
32.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	1.99
32.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	2.20
32.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	1.91
32.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.147	1.141	5.465	0.00	0.52
32.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.147	1.141	5.465	0.00	150.00
32.00	1" Reinforcing plate	Yes	1.00	0.000	1.00	0.08	0.00	0.147	1.141	5.465	0.00	120.00
32.00	C10x15.3	Yes	1.00	0.000	2.60	0.22	0.00	0.147	1.141	5.465	0.00	180.00
33.38	1 5/8" Hybrid	Yes	1.38	0.000	2.00	0.23	0.00	0.070	0.000	5.532	0.00	3.04
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	0.72
33.38	1.75" Hybrid	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	2.75
33.38	1 5/8" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	3.04
33.38	1-1/4" Fiber	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	2.63
33.38	7/8" Coax	Yes	1.38	0.000	0.00	0.00	0.00	0.070	0.000	5.532	0.00	0.72
33.38	1.25" Reinforcing	Yes	1.38	0.000	1.25	0.14	0.00	0.070	0.000	5.532	0.00	207.00
34.00	1 5/8" Hybrid	Yes	0.62	0.000	2.00	0.10	0.00	0.070	0.000	5.561	0.00	1.36
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	0.32
34.00	1.75" Hybrid	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.23
34.00	1 5/8" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.36
34.00	1-1/4" Fiber	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	1.18
34.00	7/8" Coax	Yes	0.62	0.000	0.00	0.00	0.00	0.070	0.000	5.561	0.00	0.32
34.00	1.25" Reinforcing	Yes	0.62	0.000	1.25	0.06	0.00	0.070	0.000	5.561	0.00	93.00
36.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	5.652	0.00	4.40
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	1.04
36.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	3.98

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II



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

**Dead Load Factor** 1.00  
**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)
36.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	4.40
36.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	3.82
36.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.652	0.00	1.04
36.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	5.652	0.00	300.00
38.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.071	0.000	5.740	0.00	4.40
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	1.04
38.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	3.98
38.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	4.40
38.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	3.82
38.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.071	0.000	5.740	0.00	1.04
38.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.071	0.000	5.740	0.00	300.00
40.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.072	0.000	5.825	0.00	4.40
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	1.04
40.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	3.98
40.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	4.40
40.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	3.82
40.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.072	0.000	5.825	0.00	1.04
40.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.072	0.000	5.825	0.00	300.00
42.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	5.907	0.00	4.40
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	1.04
42.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	3.98
42.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	4.40
42.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	3.82
42.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.907	0.00	1.04
42.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	5.907	0.00	300.00
44.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	5.986	0.00	4.40
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	1.04
44.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	3.98
44.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	4.40
44.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	3.82
44.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	5.986	0.00	1.04
44.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.073	0.000	5.986	0.00	300.00
45.16	1 5/8" Hybrid	Yes	1.16	0.000	2.00	0.19	0.00	0.074	0.000	6.031	0.00	2.55
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.031	0.00	0.60
45.16	1.75" Hybrid	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.031	0.00	2.31
45.16	1 5/8" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.031	0.00	2.55
45.16	1-1/4" Fiber	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.031	0.00	2.21
45.16	7/8" Coax	Yes	1.16	0.000	0.00	0.00	0.00	0.074	0.000	6.031	0.00	0.60
45.16	1.25" Reinforcing	Yes	1.16	0.000	1.25	0.12	0.00	0.074	0.000	6.031	0.00	174.00
46.00	1 5/8" Hybrid	Yes	0.84	0.000	2.00	0.14	0.00	0.074	0.000	6.062	0.00	1.85
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	0.44
46.00	1.75" Hybrid	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.67
46.00	1 5/8" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.85
46.00	1-1/4" Fiber	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	1.60
46.00	7/8" Coax	Yes	0.84	0.000	0.00	0.00	0.00	0.074	0.000	6.062	0.00	0.44
46.00	1.25" Reinforcing	Yes	0.84	0.000	1.25	0.09	0.00	0.074	0.000	6.062	0.00	126.00
48.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	6.137	0.00	4.40

## Linear Appurtenance Segment Forces (Factored)

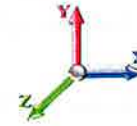
<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 88
	<b>Struct Class:</b> II	



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

**Dead Load Factor** 1.00

**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)
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.137	0.00	1.04
48.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.137	0.00	3.98
48.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.137	0.00	4.40
48.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.137	0.00	3.82
48.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.137	0.00	1.04
48.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	6.137	0.00	300.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	6.209	0.00	4.40
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.209	0.00	1.04
50.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.209	0.00	3.98
50.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.209	0.00	4.40
50.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.209	0.00	3.82
50.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	6.209	0.00	1.04
50.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.075	0.000	6.209	0.00	300.00
50.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	6.279	0.00	4.40
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.279	0.00	1.04
52.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.279	0.00	3.98
52.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.279	0.00	4.40
52.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.279	0.00	3.82
52.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	6.279	0.00	1.04
52.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.076	0.000	6.279	0.00	300.00
54.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	6.347	0.00	4.40
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.347	0.00	1.04
54.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.347	0.00	3.98
54.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.347	0.00	4.40
54.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.347	0.00	3.82
54.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.347	0.00	1.04
54.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	6.347	0.00	300.00
56.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.413	0.00	4.40
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	1.04
56.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	3.98
56.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	4.40
56.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	3.82
56.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.413	0.00	1.04
56.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.413	0.00	300.00
58.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	6.477	0.00	4.40
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	1.04
58.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	3.98
58.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	4.40
58.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	3.82
58.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	6.477	0.00	1.04
58.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.077	0.000	6.477	0.00	300.00
60.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.541	0.00	4.40
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.541	0.00	1.04
60.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.541	0.00	3.98
60.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.541	0.00	4.40
60.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.541	0.00	3.82
60.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.541	0.00	1.04

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

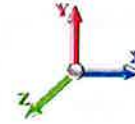
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 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)
60.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.541	0.00	300.00
62.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	6.602	0.00	4.40
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	1.04
62.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	3.98
62.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	4.40
62.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	3.82
62.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	6.602	0.00	1.04
62.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.078	0.000	6.602	0.00	300.00
64.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.079	0.000	6.662	0.00	4.40
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	1.04
64.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	3.98
64.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	4.40
64.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	3.82
64.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.079	0.000	6.662	0.00	1.04
64.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.079	0.000	6.662	0.00	300.00
66.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.080	0.000	6.721	0.00	4.40
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	1.04
66.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	3.98
66.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	4.40
66.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	3.82
66.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.080	0.000	6.721	0.00	1.04
66.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.080	0.000	6.721	0.00	300.00
68.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.081	0.000	6.779	0.00	4.40
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	1.04
68.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	3.98
68.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	4.40
68.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	3.82
68.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.081	0.000	6.779	0.00	1.04
68.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.081	0.000	6.779	0.00	300.00
70.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	6.835	0.00	4.40
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	1.04
70.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	3.98
70.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	4.40
70.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	3.82
70.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.835	0.00	1.04
70.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	6.835	0.00	300.00
72.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.082	0.000	6.890	0.00	4.40
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	1.04
72.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	3.98
72.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	4.40
72.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	3.82
72.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.082	0.000	6.890	0.00	1.04
72.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.082	0.000	6.890	0.00	300.00
74.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	6.944	0.00	4.40
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	1.04
74.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	3.98
74.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	4.40

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

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

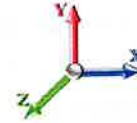
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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



**Iterations** 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)
74.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	3.82
74.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	6.944	0.00	1.04
74.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.083	0.000	6.944	0.00	300.00
76.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.084	0.000	6.998	0.00	4.40
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.998	0.00	1.04
76.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.998	0.00	3.98
76.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.998	0.00	4.40
76.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.998	0.00	3.82
76.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.084	0.000	6.998	0.00	1.04
76.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.084	0.000	6.998	0.00	300.00
78.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	7.050	0.00	4.40
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	1.04
78.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	3.98
78.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	4.40
78.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	3.82
78.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	7.050	0.00	1.04
78.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.085	0.000	7.050	0.00	300.00
80.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.086	0.000	7.101	0.00	4.40
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	1.04
80.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	3.98
80.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	4.40
80.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	3.82
80.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.086	0.000	7.101	0.00	1.04
80.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.086	0.000	7.101	0.00	300.00
82.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.087	0.000	7.151	0.00	4.40
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	1.04
82.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	3.98
82.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	4.40
82.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	3.82
82.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.087	0.000	7.151	0.00	1.04
82.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.087	0.000	7.151	0.00	300.00
84.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.088	0.000	7.201	0.00	4.40
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.201	0.00	1.04
84.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.201	0.00	3.98
84.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.201	0.00	4.40
84.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.201	0.00	3.82
84.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.088	0.000	7.201	0.00	1.04
84.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.088	0.000	7.201	0.00	300.00
86.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.089	0.000	7.249	0.00	4.40
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	1.04
86.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	3.98
86.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	4.40
86.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	3.82
86.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.089	0.000	7.249	0.00	1.04
86.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.089	0.000	7.249	0.00	300.00
88.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.090	0.000	7.297	0.00	4.40
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	1.04

## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Code:** TIA-222-H  
**Exposure:** B  
**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** 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)
88.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	3.98
88.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	4.40
88.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	3.82
88.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.090	0.000	7.297	0.00	1.04
88.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.090	0.000	7.297	0.00	300.00
90.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.091	0.000	7.344	0.00	4.40
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	1.04
90.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	3.98
90.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	4.40
90.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	3.82
90.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.091	0.000	7.344	0.00	1.04
90.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.091	0.000	7.344	0.00	300.00
92.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.092	0.000	7.390	0.00	4.40
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	1.04
92.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	3.98
92.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	4.40
92.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	3.82
92.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.092	0.000	7.390	0.00	1.04
92.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.092	0.000	7.390	0.00	300.00
94.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.093	0.000	7.436	0.00	4.40
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	1.04
94.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	3.98
94.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	4.40
94.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	3.82
94.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.093	0.000	7.436	0.00	1.04
94.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.093	0.000	7.436	0.00	300.00
95.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.094	0.000	7.458	0.00	2.20
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	0.52
95.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	1.99
95.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	2.20
95.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	1.91
95.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.094	0.000	7.458	0.00	0.52
95.00	1.25" Reinforcing	Yes	1.00	0.000	1.25	0.10	0.00	0.094	0.000	7.458	0.00	150.00
95.58	1 5/8" Hybrid	Yes	0.58	0.000	2.00	0.10	0.00	0.094	0.000	7.471	0.00	1.28
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	0.30
95.58	1.75" Hybrid	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.15
95.58	1 5/8" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.28
95.58	1-1/4" Fiber	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	1.11
95.58	7/8" Coax	Yes	0.58	0.000	0.00	0.00	0.00	0.094	0.000	7.471	0.00	0.30
95.58	1.25" Reinforcing	Yes	0.58	0.000	1.25	0.06	0.00	0.094	0.000	7.471	0.00	87.00
96.00	1 5/8" Hybrid	Yes	0.42	0.000	2.00	0.07	0.00	0.094	0.000	7.481	0.00	0.92
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.481	0.00	0.22
96.00	1.75" Hybrid	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.481	0.00	0.84
96.00	1 5/8" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.481	0.00	0.92
96.00	1-1/4" Fiber	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.481	0.00	0.80
96.00	7/8" Coax	Yes	0.42	0.000	0.00	0.00	0.00	0.094	0.000	7.481	0.00	0.22
96.00	1.25" Reinforcing	Yes	0.42	0.000	1.25	0.04	0.00	0.094	0.000	7.481	0.00	63.00

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Page:</b> 92
	<b>Struct Class:</b> II	



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

**Dead Load Factor** 1.00  
**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)
98.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.095	0.000	7.525	0.00	4.40
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	1.04
98.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	3.98
98.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	3.82
98.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	1.04
98.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.095	0.000	7.525	0.00	300.00
98.00	1.25" Reinforcing	Yes	2.00	0.000	1.25	0.21	0.00	0.095	0.000	7.525	0.00	4.40
100.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.568	0.00	1.04
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	3.98
100.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	4.40
100.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	3.82
100.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	1.04
100.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.568	0.00	4.40
102.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.611	0.00	1.04
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	3.98
102.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	4.40
102.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	3.82
102.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	1.04
102.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.611	0.00	4.40
104.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.059	0.000	7.654	0.00	1.04
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.654	0.00	3.98
104.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.654	0.00	4.40
104.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.654	0.00	3.82
104.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.654	0.00	1.04
104.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.059	0.000	7.654	0.00	4.40
106.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.060	0.000	7.695	0.00	1.04
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	3.98
106.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	4.40
106.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	3.82
106.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	1.04
106.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.060	0.000	7.695	0.00	4.40
108.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.061	0.000	7.737	0.00	1.04
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.737	0.00	3.98
108.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.737	0.00	4.40
108.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.737	0.00	3.82
108.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.737	0.00	1.04
108.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.061	0.000	7.737	0.00	4.40
110.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	7.777	0.00	1.04
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	3.98
110.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	4.40
110.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	3.82
110.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	1.04
110.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.777	0.00	4.40
112.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.062	0.000	7.817	0.00	1.04
112.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.98
112.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	4.40
112.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.82



## Linear Appurtenance Segment Forces (Factored)

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

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

8/17/2023

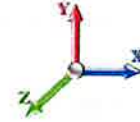
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**Load Case:** 1.0D + 1.0W 60 mph Wind

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

**Iterations** 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)
112.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.062	0.000	7.817	0.00	3.82
114.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.063	0.000	7.857	0.00	4.40
114.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	1.04
114.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	3.98
114.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	4.40
114.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.063	0.000	7.857	0.00	3.82
115.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	7.877	0.00	2.20
115.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.877	0.00	0.52
115.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.877	0.00	1.99
115.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.877	0.00	2.20
115.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.877	0.00	1.91
116.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.064	0.000	7.896	0.00	2.20
116.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	0.52
116.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	1.99
116.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	2.20
116.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.064	0.000	7.896	0.00	1.91
118.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.065	0.000	7.935	0.00	4.40
118.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	1.04
118.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	3.98
118.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	4.40
118.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.065	0.000	7.935	0.00	3.82
120.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.066	0.000	7.973	0.00	4.40
120.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	1.04
120.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	3.98
120.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	4.40
120.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.066	0.000	7.973	0.00	3.82
122.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	8.011	0.00	4.40
122.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	1.04
122.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	3.98
122.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	4.40
122.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.011	0.00	3.82
124.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.067	0.000	8.048	0.00	4.40
124.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	1.04
124.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	3.98
124.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	4.40
124.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.067	0.000	8.048	0.00	3.82
126.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.068	0.000	8.085	0.00	4.40
126.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	1.04
126.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	3.98
126.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	4.40
126.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.068	0.000	8.085	0.00	3.82
128.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.069	0.000	8.121	0.00	4.40
128.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	1.04
128.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	3.98
128.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	4.40
128.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.069	0.000	8.121	0.00	3.82
130.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.070	0.000	8.157	0.00	4.40

## Linear Appurtenance Segment Forces (Factored)

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	8/17/2023
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B	
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00	
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil	
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II

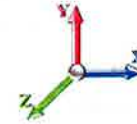


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**Load Case:** 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 1.00

**Wind Load Factor** 1.00



**Iterations** 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)
130.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	1.04
130.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	3.98
130.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	4.40
130.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.070	0.000	8.157	0.00	3.82
131.75	1 5/8" Hybrid	Yes	1.75	0.000	2.00	0.29	0.00	0.071	0.000	8.189	0.00	3.85
131.75	7/8" Coax	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	0.91
131.75	1.75" Hybrid	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.48
131.75	1 5/8" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.85
131.75	1-1/4" Fiber	Yes	1.75	0.000	0.00	0.00	0.00	0.071	0.000	8.189	0.00	3.34
132.00	1 5/8" Hybrid	Yes	0.25	0.000	2.00	0.04	0.00	0.072	0.000	8.193	0.00	0.55
132.00	7/8" Coax	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.13
132.00	1.75" Hybrid	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.50
132.00	1 5/8" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.55
132.00	1-1/4" Fiber	Yes	0.25	0.000	0.00	0.00	0.00	0.072	0.000	8.193	0.00	0.48
133.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.072	0.000	8.211	0.00	2.20
133.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	0.52
133.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	1.99
133.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	2.20
133.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.072	0.000	8.211	0.00	1.91
134.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.073	0.000	8.228	0.00	2.20
134.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	0.52
134.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	1.99
134.00	1 5/8" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	2.20
134.00	1-1/4" Fiber	Yes	1.00	0.000	0.00	0.00	0.00	0.073	0.000	8.228	0.00	1.91
136.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.073	0.000	8.263	0.00	4.40
136.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	8.263	0.00	1.04
136.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	8.263	0.00	3.98
136.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	8.263	0.00	4.40
136.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.073	0.000	8.263	0.00	3.82
138.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.075	0.000	8.298	0.00	4.40
138.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	1.04
138.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	3.98
138.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	4.40
138.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.075	0.000	8.298	0.00	3.82
140.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.076	0.000	8.332	0.00	4.40
140.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	1.04
140.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	3.98
140.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	4.40
140.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.076	0.000	8.332	0.00	3.82
142.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.077	0.000	8.366	0.00	4.40
142.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	1.04
142.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	3.98
142.00	1 5/8" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	4.40
142.00	1-1/4" Fiber	Yes	2.00	0.000	0.00	0.00	0.00	0.077	0.000	8.366	0.00	3.82
144.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.078	0.000	8.399	0.00	4.40
144.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	8.399	0.00	1.04
144.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.078	0.000	8.399	0.00	3.98

## Linear Appurtenance Segment Forces (Factored)

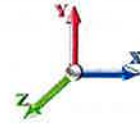
Structure: CT02049-S-SBA	Code: TIA-222-H	8/17/2023
Site Name: Beacon Falls	Exposure: B	
Height: 160.00 (ft)	Crest Height: 0.00	
Base Elev: 0.000 (ft)	Site Class: D - Stiff Soil	
Gh: 1.1	Topography: 1	Struct Class: II



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Load Case: 1.0D + 1.0W 60 mph Wind


Dead Load Factor 1.00  
Wind Load Factor 1.00



Iterations 26

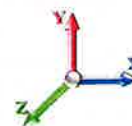
Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
145.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.079	0.000	8.416	0.00	2.20
145.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	8.416	0.00	0.52
145.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.079	0.000	8.416	0.00	1.99
146.00	1 5/8" Hybrid	Yes	1.00	0.000	2.00	0.17	0.00	0.082	0.000	8.432	0.00	2.20
146.00	7/8" Coax	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	8.432	0.00	0.52
146.00	1.75" Hybrid	Yes	1.00	0.000	0.00	0.00	0.00	0.082	0.000	8.432	0.00	1.99
148.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.083	0.000	8.465	0.00	4.40
148.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	8.465	0.00	1.04
148.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.083	0.000	8.465	0.00	3.98
150.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.085	0.000	8.498	0.00	4.40
150.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	8.498	0.00	1.04
150.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.085	0.000	8.498	0.00	3.98
152.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.530	0.00	4.40
152.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.530	0.00	1.04
152.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.530	0.00	3.98
154.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.562	0.00	4.40
154.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.562	0.00	1.04
154.00	1.75" Hybrid	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.562	0.00	3.98
156.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.594	0.00	4.40
156.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.594	0.00	1.04
158.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.625	0.00	4.40
158.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.625	0.00	1.04
160.00	1 5/8" Hybrid	Yes	2.00	0.000	2.00	0.33	0.00	0.125	1.075	8.656	0.00	4.40
160.00	7/8" Coax	Yes	2.00	0.000	0.00	0.00	0.00	0.125	1.075	8.656	0.00	1.04
<b>Totals:</b>											<b>0.0</b>	<b>21,478.4</b>

## Calculated Forces

<b>Structure:</b> CT02049-S-SBA	<b>Code:</b> TIA-222-H	<b>8/17/2023</b>	
<b>Site Name:</b> Beacon Falls	<b>Exposure:</b> B		
<b>Height:</b> 160.00 (ft)	<b>Crest Height:</b> 0.00		
<b>Base Elev:</b> 0.000 (ft)	<b>Site Class:</b> D - Stiff Soil		
<b>Gh:</b> 1.1	<b>Topography:</b> 1	<b>Struct Class:</b> II	
		<b>Page:</b> 96	

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

**Dead Load Factor** 1.00  
**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	-65.34	-7.66	0.00	-919.28	0.00	919.28	3683.82	1059.58	4414.92	3756.66	0.00	0.000	0.000	0.156
1.00	-64.78	-7.65	0.00	-911.62	0.00	911.62	3677.71	1055.47	4380.73	3735.77	0.00	-0.008	0.000	0.155
2.00	-64.23	-7.63	0.00	-903.97	0.00	903.97	3671.54	1051.36	4346.67	3714.86	0.00	-0.015	0.000	0.154
4.00	-63.12	-7.60	0.00	-888.70	0.00	888.70	3659.00	1043.14	4278.95	3673.00	0.01	-0.031	0.000	0.153
6.00	-62.02	-7.57	0.00	-873.50	0.00	873.50	3646.20	1034.91	4211.76	3631.09	0.03	-0.047	0.000	0.151
8.00	-60.92	-7.54	0.00	-858.36	0.00	858.36	3633.16	1026.69	4145.10	3589.13	0.05	-0.063	0.000	0.150
10.00	-59.82	-7.50	0.00	-843.28	0.00	843.28	3619.85	1018.47	4078.97	3547.13	0.08	-0.080	0.000	0.148
12.00	-58.72	-7.47	0.00	-828.28	0.00	828.28	3606.29	1010.25	4013.38	3505.10	0.12	-0.096	0.000	0.147
14.00	-57.63	-7.44	0.00	-813.33	0.00	813.33	3592.48	1002.02	3948.31	3463.03	0.16	-0.112	0.000	0.145
16.00	-56.54	-7.40	0.00	-798.46	0.00	798.46	3578.41	993.80	3883.78	3420.94	0.21	-0.129	0.000	0.144
16.25	-56.36	-7.40	0.00	-796.61	0.00	796.61	3576.63	992.77	3875.75	3415.68	0.22	-0.131	0.000	0.142
18.00	-55.07	-7.36	0.00	-783.67	0.00	783.67	3564.09	985.58	3819.78	3378.83	0.27	-0.143	0.000	0.163
18.63	-54.60	-7.35	0.00	-779.03	0.00	779.03	3559.52	982.99	3799.73	3365.57	0.29	-0.149	0.000	0.163
18.88	-54.42	-7.35	0.00	-777.19	0.00	777.19	3557.70	981.96	3791.79	3360.30	0.30	-0.151	0.000	0.132
20.00	-53.60	-7.33	0.00	-768.96	0.00	768.96	3549.51	977.36	3756.31	3336.71	0.34	-0.159	0.000	0.151
22.00	-52.14	-7.29	0.00	-754.30	0.00	754.30	3563.12	985.03	3815.51	3376.01	0.41	-0.177	0.000	0.152
24.00	-51.05	-7.26	0.00	-739.72	0.00	739.72	3548.52	976.81	3752.08	3333.89	0.48	-0.194	0.000	0.147
26.00	-49.97	-7.22	0.00	-725.20	0.00	725.20	3533.67	968.58	3689.18	3291.77	0.57	-0.212	0.000	0.145
28.00	-48.90	-7.19	0.00	-710.76	0.00	710.76	3518.56	960.36	3626.81	3249.64	0.66	-0.229	0.000	0.143
30.00	-47.53	-7.14	0.00	-696.39	0.00	696.39	3503.20	952.14	3564.97	3207.53	0.76	-0.246	0.000	0.142
31.00	-46.84	-7.12	0.00	-689.25	0.00	689.25	3495.43	948.03	3534.25	3186.48	0.81	-0.253	0.000	0.111
32.00	-46.16	-7.10	0.00	-682.13	0.00	682.13	3487.59	943.92	3503.66	3165.43	0.87	-0.259	0.000	0.128
33.38	-45.63	-7.07	0.00	-672.34	0.00	672.34	3476.66	938.24	3461.67	3136.39	0.94	-0.270	0.000	0.127
34.00	-45.39	-7.06	0.00	-667.95	0.00	667.95	3471.72	935.70	3442.89	3123.35	0.98	-0.275	0.000	0.157
36.00	-44.63	-7.03	0.00	-653.83	0.00	653.83	3455.59	927.47	3382.65	3081.29	1.10	-0.295	0.000	0.155
38.00	-43.87	-7.00	0.00	-639.77	0.00	639.77	3439.21	919.25	3322.94	3039.26	1.23	-0.314	0.000	0.154
40.00	-43.10	-6.95	0.00	-625.77	0.00	625.77	3422.57	911.03	3263.76	2997.28	1.36	-0.334	0.000	0.152
42.00	-42.35	-6.92	0.00	-611.87	0.00	611.87	3405.68	902.81	3205.11	2955.34	1.51	-0.354	0.000	0.150
44.00	-41.60	-6.88	0.00	-598.03	0.00	598.03	3388.54	894.58	3146.99	2913.44	1.66	-0.373	0.000	0.148
45.16	-41.17	-6.86	0.00	-590.05	0.00	590.05	3378.48	889.81	3113.53	2889.17	1.75	-0.385	0.000	0.147
46.00	-40.85	-6.84	0.00	-584.29	0.00	584.29	3371.14	886.36	3089.41	2871.61	1.82	-0.391	0.000	0.107
48.00	-40.11	-6.80	0.00	-570.61	0.00	570.61	3353.48	878.14	3032.36	2829.83	1.99	-0.405	0.000	0.137
50.00	-39.37	-6.76	0.00	-557.01	0.00	557.01	3335.57	869.92	2975.84	2788.13	2.16	-0.424	0.000	0.135
52.00	-38.29	-6.72	0.00	-543.48	0.00	543.48	3317.41	861.69	2919.85	2746.50	2.34	-0.443	0.000	0.132
54.00	-37.22	-6.67	0.00	-530.05	0.00	530.05	3298.98	853.47	2864.39	2704.94	2.53	-0.461	0.000	0.130
56.00	-36.15	-6.63	0.00	-516.70	0.00	516.70	3316.18	861.14	2916.12	2743.71	2.73	-0.480	0.000	0.131
58.00	-35.42	-6.59	0.00	-503.44	0.00	503.44	3297.74	852.92	2860.70	2702.16	2.93	-0.498	0.000	0.125
60.00	-34.69	-6.54	0.00	-490.26	0.00	490.26	3279.05	844.70	2805.81	2660.71	3.15	-0.512	0.000	0.134
62.00	-33.97	-6.50	0.00	-477.18	0.00	477.18	3260.10	836.48	2751.45	2619.34	3.36	-0.532	0.000	0.132
64.00	-33.24	-6.46	0.00	-464.18	0.00	464.18	3240.90	828.25	2697.62	2578.08	3.59	-0.551	0.000	0.130
66.00	-32.52	-6.41	0.00	-451.27	0.00	451.27	3221.44	820.03	2644.33	2536.92	3.83	-0.570	0.000	0.128
68.00	-31.80	-6.37	0.00	-438.44	0.00	438.44	3201.73	811.81	2591.56	2495.87	4.07	-0.590	0.000	0.126
70.00	-31.09	-6.32	0.00	-425.71	0.00	425.71	3181.76	803.59	2539.33	2454.94	4.32	-0.609	0.000	0.124
72.00	-30.38	-6.28	0.00	-413.06	0.00	413.06	3161.54	795.36	2487.63	2414.13	4.58	-0.628	0.000	0.122
74.00	-29.67	-6.23	0.00	-400.50	0.00	400.50	3141.06	787.14	2436.47	2373.45	4.85	-0.647	0.000	0.119
76.00	-28.97	-6.19	0.00	-388.03	0.00	388.03	3120.33	778.92	2385.83	2332.91	5.12	-0.666	0.000	0.117
78.00	-28.27	-6.14	0.00	-375.66	0.00	375.66	3099.34	770.70	2335.73	2292.51	5.40	-0.685	0.000	0.115
80.00	-27.57	-6.09	0.00	-363.38	0.00	363.38	3078.09	762.47	2286.15	2252.26	5.69	-0.699	0.000	0.113

## Calculated Forces

**Structure:** CT02049-S-SBA **Code:** TIA-222-H **8/17/2023**  
**Site Name:** Beacon Falls **Exposure:** B  
**Height:** 160.00 (ft) **Crest Height:** 0.00  
**Base Elev:** 0.000 (ft) **Site Class:** D - Stiff Soil  
**Gh:** 1.1 **Topography:** 1 **Struct Class:** II **Page:** 97



80.00	-27.57	-6.09	0.00	-363.38	0.00	363.38	2384.58	636.50	1911.75	1750.88	5.69	-0.699	0.000	0.122
82.00	-26.92	-6.05	0.00	-351.19	0.00	351.19	2370.62	629.65	1870.81	1721.73	5.99	-0.718	0.000	0.133
84.00	-26.28	-6.00	0.00	-339.09	0.00	339.09	2356.42	622.80	1830.32	1692.63	6.30	-0.739	0.000	0.130
86.00	-25.64	-5.96	0.00	-327.08	0.00	327.08	2341.95	615.94	1790.27	1663.57	6.61	-0.759	0.000	0.127
88.00	-25.00	-5.91	0.00	-315.17	0.00	315.17	2327.23	609.09	1750.66	1634.56	6.93	-0.780	0.000	0.124
90.00	-24.36	-5.87	0.00	-303.34	0.00	303.34	2312.26	602.24	1711.49	1605.61	7.26	-0.800	0.000	0.121
92.00	-23.73	-5.82	0.00	-291.61	0.00	291.61	2297.03	595.39	1672.77	1576.72	7.60	-0.820	0.000	0.118
94.00	-23.10	-5.77	0.00	-279.97	0.00	279.97	2281.55	588.54	1634.49	1547.90	7.95	-0.840	0.000	0.115
95.00	-22.79	-5.75	0.00	-274.20	0.00	274.20	2273.71	585.11	1615.51	1533.52	8.13	-0.850	0.000	0.113
95.58	-22.54	-5.73	0.00	-270.86	0.00	270.86	2269.13	583.12	1604.56	1525.19	8.23	-0.856	0.000	0.111
96.00	-22.36	-5.73	0.00	-268.45	0.00	268.45	2269.13	583.12	1604.56	1525.19	8.23	-0.856	0.000	0.111
96.58	-22.54	-5.73	0.00	-270.86	0.00	270.86	2269.13	583.12	1604.56	1525.19	8.23	-0.856	0.000	0.111
98.00	-21.50	-5.68	0.00	-257.00	0.00	257.00	2249.81	574.83	1559.25	1490.50	8.88	-0.893	0.000	0.182
100.00	-20.95	-5.64	0.00	-245.64	0.00	245.64	2259.61	579.02	1582.04	1508.00	9.06	-0.925	0.000	0.172
102.00	-20.63	-5.60	0.00	-234.36	0.00	234.36	2243.52	572.17	1544.82	1479.37	9.45	-0.957	0.000	0.168
104.00	-20.31	-5.56	0.00	-223.16	0.00	223.16	2227.17	565.31	1508.04	1450.84	9.86	-0.987	0.000	0.163
106.00	-19.99	-5.52	0.00	-212.04	0.00	212.04	2210.57	558.46	1471.71	1422.40	10.28	-1.016	0.000	0.158
108.00	-19.67	-5.48	0.00	-201.00	0.00	201.00	2193.71	551.61	1435.82	1394.06	10.71	-1.045	0.000	0.153
110.00	-19.30	-5.39	0.00	-189.93	0.00	189.93	2176.60	544.76	1400.37	1365.84	11.15	-1.073	0.000	0.148
112.00	-18.99	-5.35	0.00	-179.14	0.00	179.14	2159.23	537.91	1365.36	1337.73	11.61	-1.101	0.000	0.143
114.00	-18.69	-5.31	0.00	-168.43	0.00	168.43	2141.61	531.05	1330.80	1309.73	12.08	-1.129	0.000	0.137
115.00	-18.53	-5.29	0.00	-163.12	0.00	163.12	2132.70	527.63	1313.68	1295.79	12.32	-1.142	0.000	0.135
115.00	-18.53	-5.29	0.00	-163.12	0.00	163.12	2132.70	527.63	1313.68	1295.79	12.32	-1.142	0.000	0.135
116.00	-18.40	-5.27	0.00	-157.83	0.00	157.83	2151.43	520.24	1041.71	940.38	12.56	-1.155	0.000	0.180
118.00	-18.14	-5.24	0.00	-147.29	0.00	147.29	2150.84	514.76	1014.72	921.68	13.05	-1.187	0.000	0.172
120.00	-17.88	-5.20	0.00	-136.82	0.00	136.82	2129.99	509.28	988.07	902.99	13.55	-1.219	0.000	0.163
122.00	-17.62	-5.16	0.00	-126.42	0.00	126.42	2158.89	503.80	961.78	884.33	14.07	-1.249	0.000	0.155
124.00	-17.37	-5.12	0.00	-116.10	0.00	116.10	2157.54	498.32	935.85	865.70	14.60	-1.277	0.000	0.146
126.00	-17.11	-5.08	0.00	-105.86	0.00	105.86	2149.93	492.84	910.27	847.11	15.14	-1.305	0.000	0.137
128.00	-16.86	-5.04	0.00	-95.70	0.00	95.70	2148.06	487.35	885.04	828.56	15.69	-1.331	0.000	0.127
130.00	-16.62	-5.00	0.00	-85.62	0.00	85.62	2171.95	481.87	860.17	810.06	16.25	-1.355	0.000	0.117
131.75	-16.14	-4.88	0.00	-76.86	0.00	76.86	2146.13	476.38	838.70	793.92	16.75	-1.375	0.000	0.108
132.00	-16.11	-4.88	0.00	-75.64	0.00	75.64	2145.97	476.39	835.65	791.62	16.83	-1.378	0.000	0.107
133.00	-11.66	-3.87	0.00	-70.76	0.00	70.76	2145.29	473.65	823.53	782.42	17.12	-1.388	0.000	0.099
134.00	-11.55	-3.85	0.00	-66.90	0.00	66.90	2146.94	470.91	811.49	773.23	17.41	-1.399	0.000	0.095
136.00	-11.33	-3.81	0.00	-59.20	0.00	59.20	2143.06	465.43	787.68	754.91	18.00	-1.418	0.000	0.086
138.00	-11.12	-3.76	0.00	-51.59	0.00	51.59	2142.92	465.95	764.23	736.67	18.60	-1.436	0.000	0.078
140.00	-10.91	-3.72	0.00	-44.07	0.00	44.07	2140.52	464.47	741.13	718.50	19.20	-1.452	0.000	0.069
142.00	-6.21	-2.30	0.00	-36.62	0.00	36.62	2139.87	464.98	718.38	700.42	19.81	-1.466	0.000	0.057
144.00	-6.03	-2.26	0.00	-32.02	0.00	32.02	2139.97	463.50	695.99	682.44	20.43	-1.479	0.000	0.051
145.00	-5.94	-2.24	0.00	-29.76	0.00	29.76	2137.92	460.76	684.93	673.48	20.74	-1.484	0.000	0.049
145.00	-5.94	-2.24	0.00	-29.76	0.00	29.76	2137.92	460.76	684.93	673.48	20.74	-1.484	0.000	0.049
146.00	-5.85	-2.23	0.00	-27.52	0.00	27.52	2131.20	455.53	664.17	654.09	21.05	-1.490	0.000	0.056
148.00	-5.68	-2.20	0.00	-23.07	0.00	23.07	2133.32	451.51	645.88	636.36	21.68	-1.501	0.000	0.053
150.00	-5.51	-2.18	0.00	-18.67	0.00	18.67	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.046
150.00	-5.51	-2.18	0.00	-18.67	0.00	18.67	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.046
152.00	-3.04	-1.48	0.00	-14.32	0.00	14.32	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.040
154.00	-2.92	-1.46	0.00	-11.36	0.00	11.36	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.097
154.00	-2.92	-1.46	0.00	-11.36	0.00	11.36	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.073
156.00	-2.79	-1.44	0.00	-8.45	0.00	8.45	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.058
158.00	-2.67	-1.42	0.00	-5.57	0.00	5.57	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.045
160.00	0.00	-1.35	0.00	-2.73	0.00	2.73	2131.40	447.16	628.57	619.24	22.31	-1.510	0.000	0.031
														0.013

## Final Analysis Summary

**Structure:** CT02049-S-SBA  
**Site Name:** Beacon Falls  
**Height:** 160.00 (ft)  
**Base Elev:** 0.000 (ft)  
**Gh:** 1.1

**Topography:** 1

**Code:** TIA-222-H  
**Exposure:** B  
**Crest Height:** 0.00  
**Site Class:** D - Stiff Soil  
**Struct Class:** 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 118 mph Wind	33.1	0.00	78.40	0.00	0.00	4006.75
0.9D + 1.0W 118 mph Wind	33.1	0.00	58.80	0.00	0.00	3948.75
1.2D + 1.0Di + 1.0Wi 50 mph Wind	8.1	0.00	100.45	0.00	0.00	1013.44
1.2D + 1.0Ev + 1.0Eh	0.5	0.00	81.40	0.00	0.00	77.51
0.9D + 1.0Ev + 1.0Eh	0.5	0.00	61.45	0.00	0.00	77.21
1.0D + 1.0W 60 mph Wind	7.7	0.00	65.34	0.00	0.00	919.28

### 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 118 mph Wind	-25.32	-25.03	0.00	-1172.9	0.00	-1172.9	2265.81	581.68	1596.65	1519.16	96.00	0.785
0.9D + 1.0W 118 mph Wind	-18.63	-24.56	0.00	-1147.5	0.00	-1147.5	2265.81	581.68	1596.65	1519.16	96.00	0.765
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-41.02	-6.44	0.00	-304.62	0.00	-304.62	2265.81	581.68	1596.65	1519.16	96.00	0.219
1.2D + 1.0Ev + 1.0Eh	-23.16	-0.53	0.00	-14.98	0.00	-14.98	2132.70	527.63	1313.68	1295.79	115.00	0.031
0.9D + 1.0Ev + 1.0Eh	-17.55	-0.53	0.00	-15.00	0.00	-15.00	2132.70	527.63	1313.68	1295.79	115.00	0.027
1.0D + 1.0W 60 mph Wind	-22.36	-5.73	0.00	-268.45	0.00	-268.45	2265.81	581.68	1596.65	1519.16	96.00	0.187

### Additional Steel Summary

Elev From (ft)	Elev To (ft)	Member	Intermediate Connectors			Lower Termination			Upper Termination			Max Member					
			VQ/I (lb/in)	Vu (kips)	phi Vn (kips)	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	MQ/I (kips)	phi Vn (kips)	Num Reqd	Num Actual	Pu (kips)	phi Pn (kips)	phi Tn (kips)	Ratio
0.0	16.3	(3) PLT-C10x30(1.5" Hole)	-255.7	-5.11	37.1	341.2	37.1	9	0	332.2	37.1			343.11	505.1	468.64	0.732
0.0	1.0	(3) SOL-2 1/4" William R71	128.7	1.54	25.3	183.5	25.3	7	0	185.5	25.3			183.49	459.1	468.91	0.400
1.0	18.9	(3) LNP-LP6X100-B1-20T	186.8	4.48	25.3	185.5	25.3			196.3	22.7	9	9	239.31	297.8	288.75	0.829
16.3	31.0	(3) PLT-C10x15.3(1.5" Hole)	-255.7	-5.11	37.1	286.2	37.1			137.4	37.1	4	4	200.82	257.8	247.80	0.810
18.6	33.4	(3) LNP-LP6X100-G-20TT	188.8	4.53	25.3	211.8	22.7	9	10	200.6	22.7	9	10	235.74	297.8	288.75	0.816
30.0	46.0	(3) PLT-6"X1-1/4"(1.25" Hole)	291.0	5.24	37.1	219.8	33.4	7	8	218.2	33.4	7	8	312.96	413.6	351.56	0.890
45.2	58.0	(3) PLT-7" x 1.25"(1.25"Hole)	-340.8	-4.09	37.1	255.5	33.4	8	13	304.9	37.1			329.39	498.6	426.56	0.772
58.0	78.0	(3) PLT-5.5"x1 1/4"(1.25"hol)	-332.0	-5.98	37.1	236.9	37.1			230.5	37.1			257.66	379.1	314.06	0.820
78.0	95.6	(3) PLT-5.5"x1 1/4"(1.25"hol)	-386.3	-6.95	37.1	230.5	37.1			219.0	33.4	7	10	250.08	379.1	314.06	0.796

	<b>Monopole Mat Foundation Design</b>		Date	
			8/17/2023	
	Customer Name:	Verizon	TIA Standard:	TIA-222-H
	Site Name:		Structure Height (Ft.):	160
	Site Number:	CT02049-S-SBA	Engineer Name:	J. Tibbetts
Engr. Number:	142115	Engineer Login ID:		

**Foundation Info Obtained from:**

**Structure Type:**

Drawings/Calculations

Monopole

**Analysis or Design?**

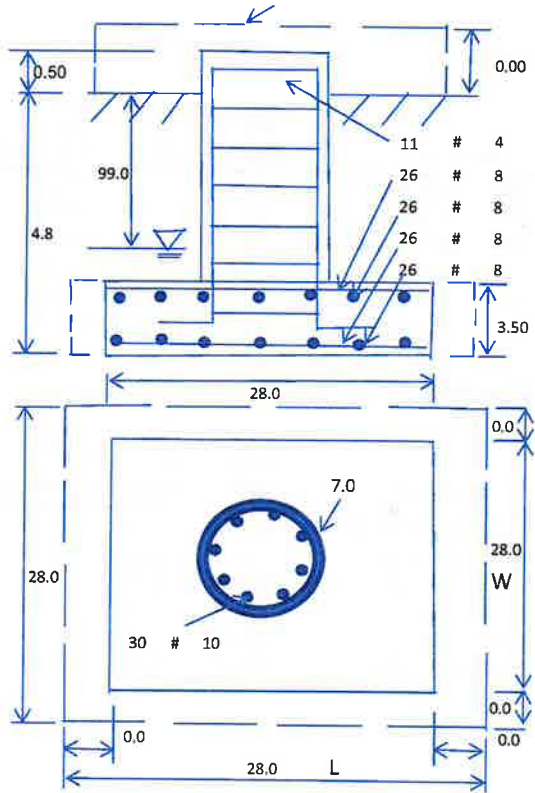
Analysis

**Base Reactions (Factored):**

Axial Load (Kips):	78.4	Shear Force (Kips):	33.1
Uplift Force (Kips):	0.0	Moment (Kips-ft):	4006.8

**Foundation Geometries:**

		Mods required -Yes/No ?:	No
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	4.8
Pier Height A. G. (ft.):	0.50	Thickness of Pad (ft):	3.50
Length of Pad (ft.):	28	Width of Pad (ft.):	28
Final Length of pad (ft)	28.0	Final width of pad (ft):	28.0



**Material Properties and Reabr Info:**

Concrete Strength (psi):	3000	Steel Elastic Modulus:	29000	ksi
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60	
Vertical Rebar Size #:	10	Tie / Stirrup Size #:	4	
Qty. of Vertical Rebars:	30	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):	26	Qty. of Rebar in Pad (W):	26	
Rebar at the top of the concrete pad:				
Qty. of Rebar in Pad (L):	26	Qty. of Rebar in Pad (W):	26	

**Soil Design Parameters:**

Soil Unit Weight (pcf):	115.0	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):	6000	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.:	No	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.):	969.17	Total Dry Soil Weight (Kips):	111.45
Total Buoyant Soil Volume (cu. Ft.):	0.00	Total Buoyant Soil Weight (Kips):	0.00
Total Effective Soil Weight (Kips):	111.45	Weight from the Concrete Block at Top (K):	0.00
Total Dry Concrete Volume (cu. Ft.):	2813.27	Total Dry Concrete Weight (Kips):	421.99
Total Buoyant Concrete Volume (cu. Ft.):	0.00	Total Buoyant Concrete Weight (Kips):	0.00
Total Effective Concrete Weight (Kips):	421.99	Total Vertical Load on Base (Kips):	611.85

**Check Soil Capacities:**

Calculated Maxium Net Soil Pressure under the base (psf):	2140	<	Allowable Factored Soil Bearing (psf):	4500	0.48	OK!
Allowable Foundation Overturning Resistance (kips-ft.):	7819.0	>	Design Factored Momont (kips-ft):	4182	0.53	OK!
Factor of Safety Against Overturning (O. R. Moment/Design Moment):	1.87					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	
<b>(1) Concrete Pier:</b>					
Vertical Steel Rebar Area (sq. in./each):	1.27	Tie / Stirrup Area (sq. in./each):	0.20		
Calculated Moment Capacity (Mn,Kips-Ft):	6154.8	> Design Factored Moment (Mu, Kips-F	4066.4	0.66	OK!
Calculated Shear Capacity (Kips):	724.1	> Design Factored Shear (Kips):	33.1	0.05	OK!
Calculated Tension Capacity (Tn, Kips):	2057.4	> Design Factored Tension (Tu Kips):	0.0	0.00	OK!
Calculated Compression Capacity (Pn, Kips):	7297.9	> Design Factored Axial Load (Pu Kips):	78.4	0.01	OK!
Moment & Axial Strength Combination:	0.66	OK! Check Tie Spacing (Design/Required):	0.5	0.5	OK!
Pier Reinforcement Ratio:	0.007	Reinforcement Ratio is satisfied per ACI			
<b>(2).Concrete Pad:</b>					
One-Way Design Shear Capacity (L-Direction, Kips):	1062.8	> One-Way Factored Shear (L-D. Kips):	253.6	0.24	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	1062.8	> One-Way Factored Shear (W-D., Kips)	253.6	0.24	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	993.8	> One-Way Factored Shear (C-C, Kips):	241.8	0.24	OK!
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0016	OK! Lower Steel Pad Reinf. Ratio (W-Direc	0.0016		
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	3492.1	> Moment at Bottom ( L-Dir. K-Ft):	1644.0	0.47	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	3492.1	> Moment at Bottom ( W-Dir. K-Ft):	1644.0	0.47	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	4918.4	> Moment at Bottom ( C-C Dir. K-Ft):	2325.0	0.47	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0016	OK! Upper Steel Reinf. Ratio (W-Dir. ):	0.0016		
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	3492.1	> Moment at the top (L-Dir K-Ft):	668.2	0.19	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	3492.1	> Moment at the top (W-Dir K-Ft):	668.2	0.19	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	4918.4	> Moment at the top (C-C Dir. K-Ft):	624.9	0.13	OK!
<b>(3).Check Punching Shear Capacity due to Moment in the Pier:</b>					
Moment transferred by punching shear:	1602.7	k-ft. Max. factored shear stress $v_{u,CD}$ :		2.6	Psi
Max. factored shear stress $v_{u,AB}$ :	10.6	Psi Factored shear Strength $\phi v_n$ :		164.3	Psi
Max. factored shear stress $v_u$ :	10.6	Psi Check Usage of Punching Shear Capacity:		0.06	OK!
<b>(4).Check Bending Capacity of the Pad Within the Effective Slab Width:</b>					
Overtuning moment to be transferred by flexure:	1202.0	k-ft. Effective Width for resisting OT moment:		17.5	ft.
Calculated number of Rebar in Effective width:	17	Actual number of Rebar in Effective width:		17	
Steel Pad Moment Capacity ( L-Direc. Kips-ft):	2281.3	k-ft. Check Usage of the Flexure Capacity:		0.53	OK!





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## Antenna Mount Analysis Report and PMI Requirements

### Mount ReAnalysis

SMART Tool Project #: 10206285  
 Colliers Engineering & Design CT, P.C. Project #: 23777050 (Rev. 1)

July 10, 2023

#### Site Information

Site ID: 5000385010-VZW / BETHANY WEST CT  
 Site Name: BETHANY WEST CT  
 Carrier Name: Verizon Wireless  
 Address: 60 Rice Lane  
 Beacon Falls, Connecticut 06403  
 New Haven County  
 Latitude: 41.455689°  
 Longitude: -73.039731°

#### Structure Information

Tower Type: 161-Ft Self Support  
 Mount Type: 14.50-Ft Platform

FUZE ID # 17123995

#### Analysis Results

Platform: 62.2% 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: Frank Centone



**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: 600876, dated February 3, 2021
Mount Mapping Report	Level-Up Towers, Site ID: 469129, dated February 21, 2021
Previous Mount Fix	Maser Consulting Connecticut, Project #: 21777109, Dated April 15, 2021
Passing PMI Report	Colliers Engineering & Design, Project #: 21777109, dated February 6, 2023
PMI Photos	Photos dated January 18, 2023
Filter Add	Guidance Provided by Verizon

**Analysis Criteria:**

Codes and Standards:	ANSI/TIA-222-H Connecticut Building Code, Effective October 1, 2022	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), $V_{ULT}$ : Ice Wind Speed (3-sec. Gust): Design Ice Thickness: Risk Category: Exposure Category: Topographic Category: Topographic Feature Considered: Topographic Method: Ground Elevation Factor, $K_e$ :	120 mph 50 mph 1.00 in II B 1 N/A N/A 0.978
Seismic Parameters:	$S_s$ : $S_1$ :	0.199 g 0.054 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): Maintenance Load, $L_v$ : Maintenance Load, $L_m$ :	30 mph 250 lbs. 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
161.00	162.00	6	Commscope	JAHH-65B-R3B	Retained
		3	Samsung	MT6407-77A	
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH-BR04C	
		1	Raycap	RVZDC-6627-PF-48	
		1	-	Omni-Antenna	
		6	KAelus	BSF0020F3V1-1	Added

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, P.C. 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, P.C. 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 CT, P.C. 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, P.C.**

**Analysis Results:**

Component	Utilization %	Pass/Fail
Standoff Arm	58.1 %	Pass
Face Horizontal	43.7 %	Pass
Grate Angle	30.0 %	Pass
Sector Connection Angle	4.0 %	Pass
Antenna Pipe	62.2 %	Pass
Dual Mount Pipe	34.8 %	Pass
Kicker	12.9 %	Pass
Support Rail	19.1 %	Pass
Support Rail Bracket	30.0 %	Pass
Mount Connection	41.3 %	Pass

<b>Structure Rating – (Controlling Utilization of all Components)</b>	<b>62.2%</b>
---	--------------

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

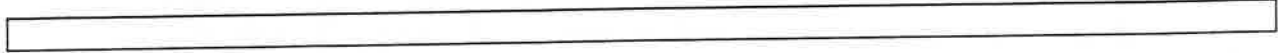
Ice Thickness (In)	Mount Pipes Excluded		Mount Pipes Included	
	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	36.3	36.3	53.5	53.5
0.5	47.9	47.9	72.1	72.1
1	56.7	56.7	87.9	87.9

**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. 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)

---

MDG #: 5000385010

SMART Project #: 10206285

Fuze Project ID: 17123995

**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:	



Structure: 5000385010-VZW - BETHANY WEST CT

7/10/2023

Sector: A

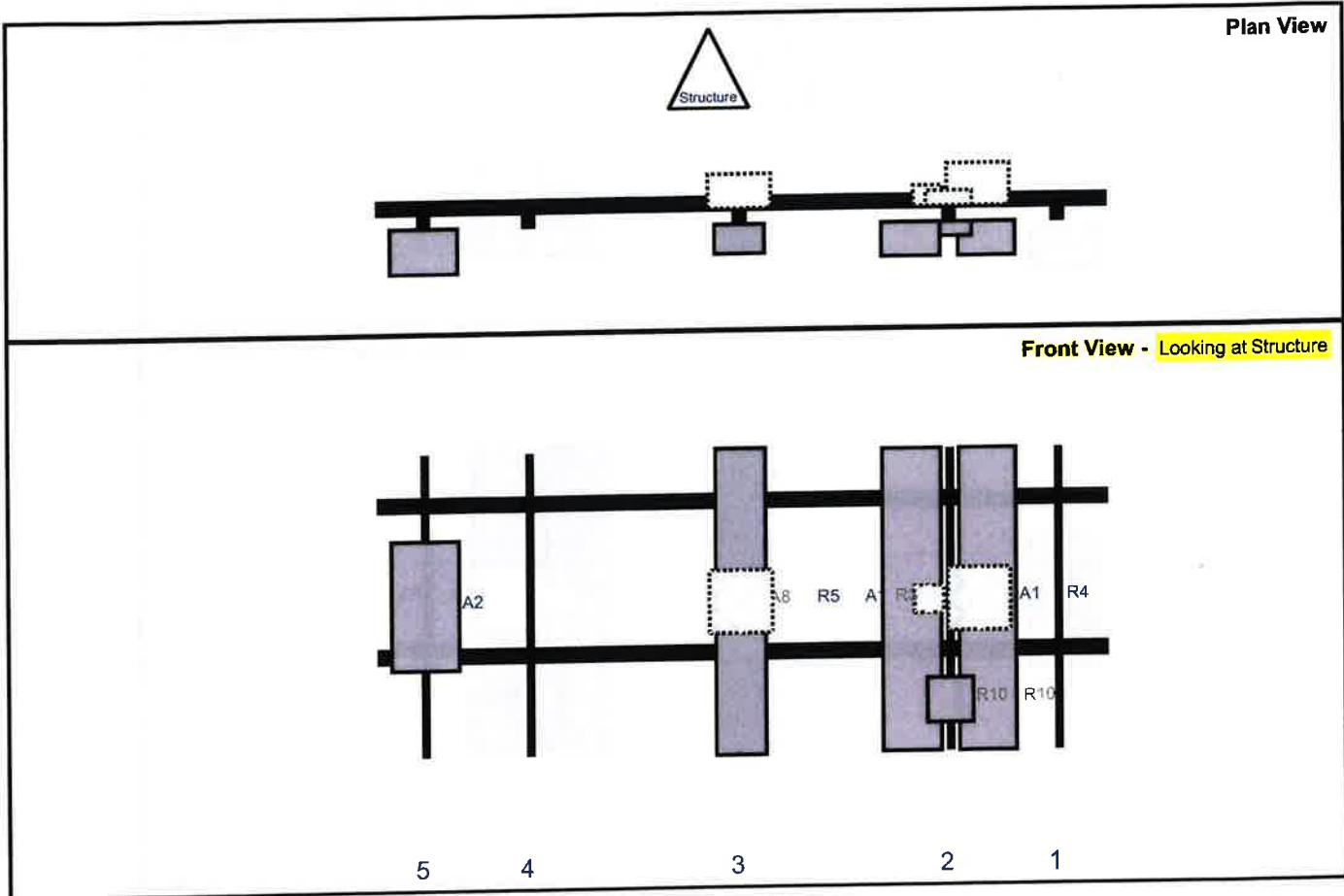
Structure Type: Self Support

10206285



Mount Elev: 161.00

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
A1	JAHH-65B-R3B	72	13.8	136	2	a	Front	36	-9	Retained	01/18/2023
A1	JAHH-65B-R3B	72	13.8	136	2	b	Front	36	9	Retained	01/18/2023
R3	CBC78T-DS-43	6.4	6.9	136	2	a	Behind	36	-5	Retained	01/18/2023
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	136	2	a	Behind	36	7	Retained	01/18/2023
R10	BSF0020F3V1-1	10.6	10.9	136	2	a	Behind	60	0	Added	
R10	BSF0020F3V1-1	10.6	10.9	136	2	b	Front	60	0	Added	
A8	SBNHH-1D65B	72.9	11.9	86.5	3	a	Front	36	0	Retained	01/18/2023
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	86.5	3	a	Behind	36	0	Retained	01/18/2023
A2	MT6407-77A	30.8	16.1	11.5	5	a	Front	36	0	Retained	01/18/2023
OVP2	RVZDC-6627-PF-48	28.9	15.7			Member				Retained	01/18/2023
LR1	4168.21.33.00	124	3			Member				Retained	01/18/2023

Structure: 5000385010-VZW - BETHANY WEST CT

Sector: B

7/10/2023

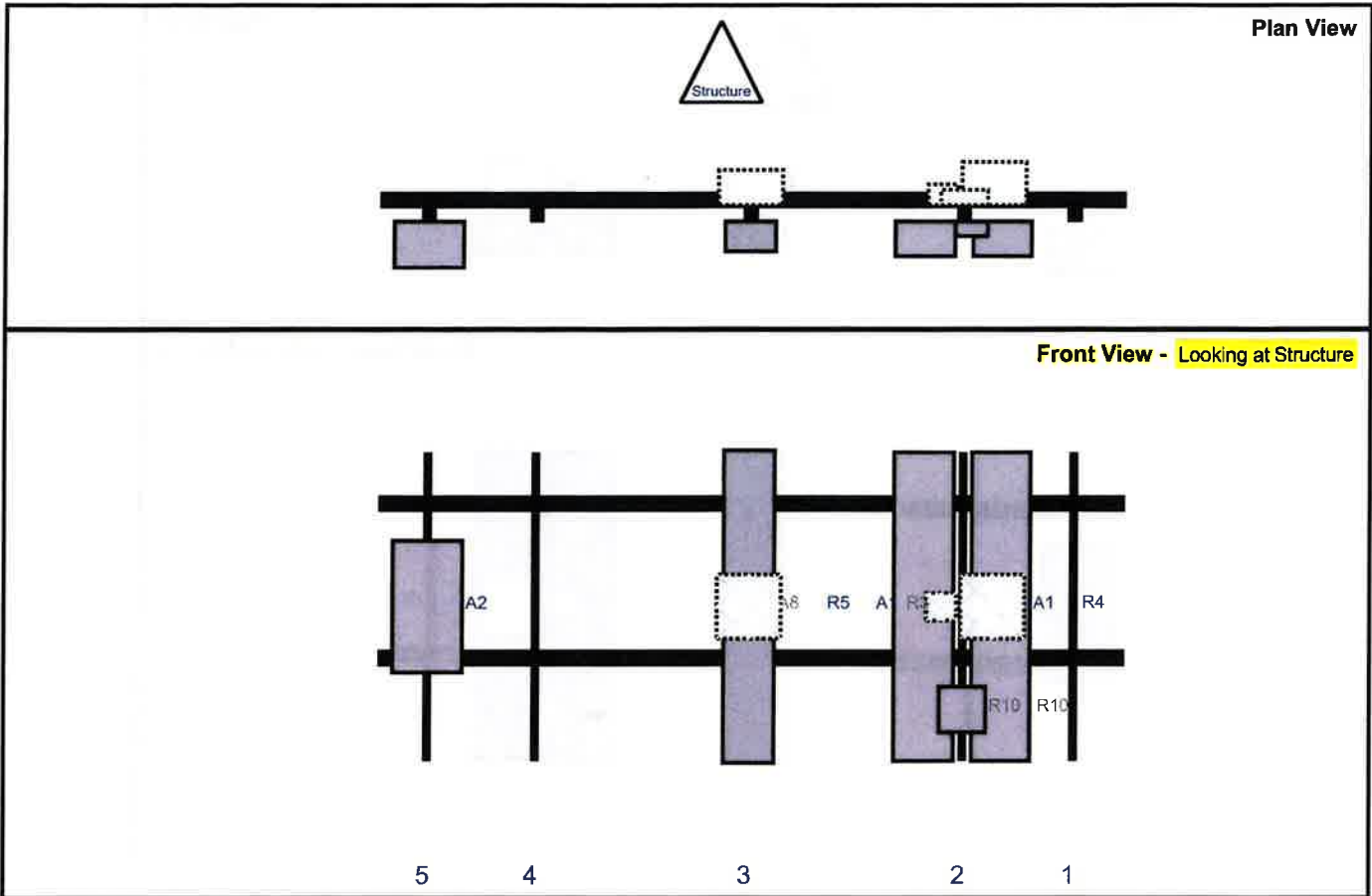
Structure Type: Self Support

10206285



Mount Elev: 161.00

Page: 2



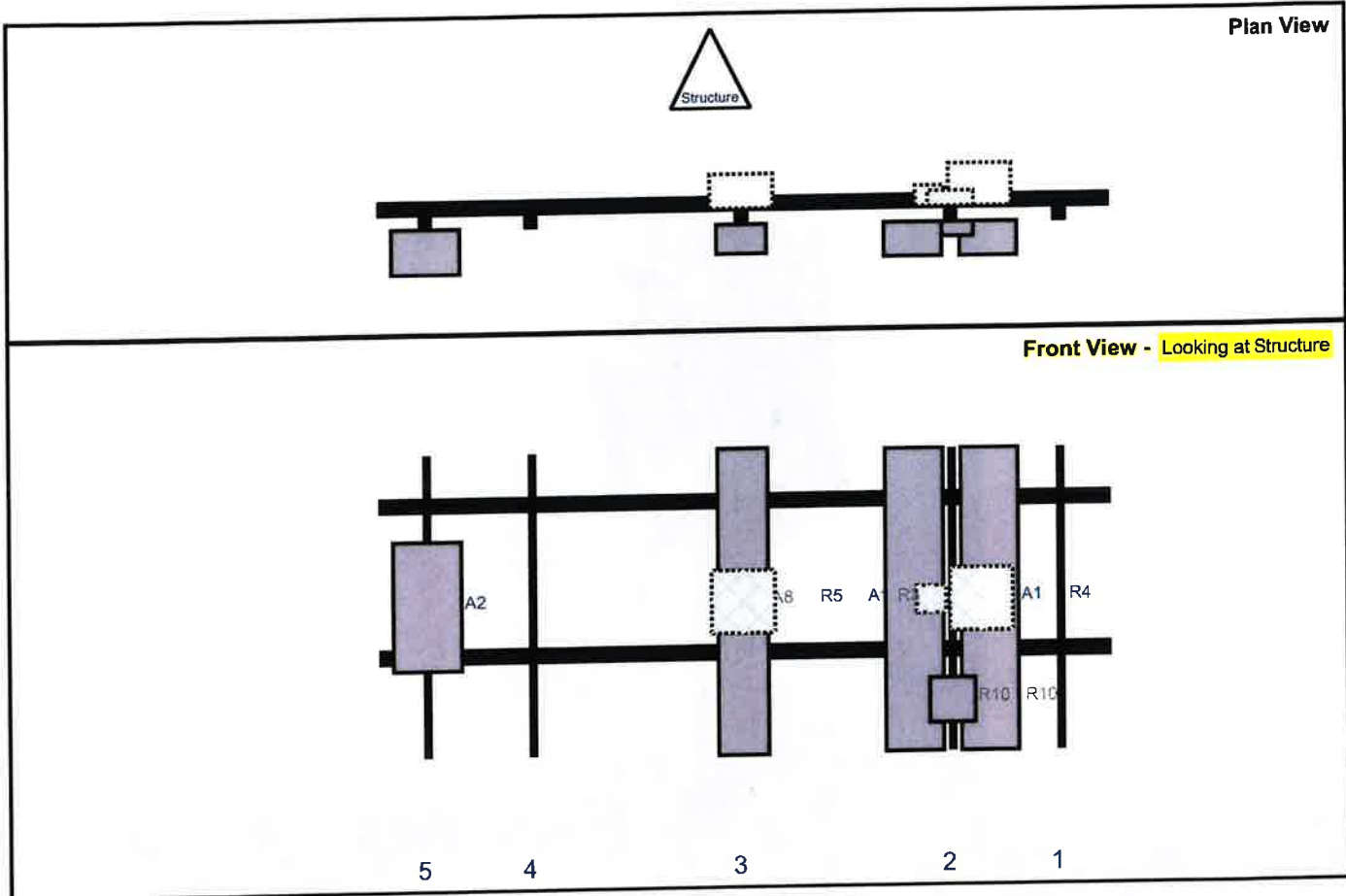
Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C, Ant Frm T.	Ant H Off	Status	Validation
A1	JAHH-65B-R3B	72	13.8	136	2	a	Front	36	-9	Retained	01/18/2023
A1	JAHH-65B-R3B	72	13.8	136	2	b	Front	36	9	Retained	01/18/2023
R3	CBC78T-DS-43	6.4	6.9	136	2	a	Behind	36	-5	Retained	01/18/2023
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	136	2	a	Behind	36	7	Retained	01/18/2023
R10	BSF0020F3V1-1	10.6	10.9	136	2	a	Behind	60	0	Added	
R10	BSF0020F3V1-1	10.6	10.9	136	2	b	Front	60	0	Added	
A8	SBNHH-1D65B	72.9	11.9	86.5	3	a	Front	36	0	Retained	01/18/2023
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	86.5	3	a	Behind	36	0	Retained	01/18/2023
A2	MT6407-77A	30.8	16.1	11.5	5	a	Front	36	0	Retained	01/18/2023

Sector: C

Structure Type: Self Support

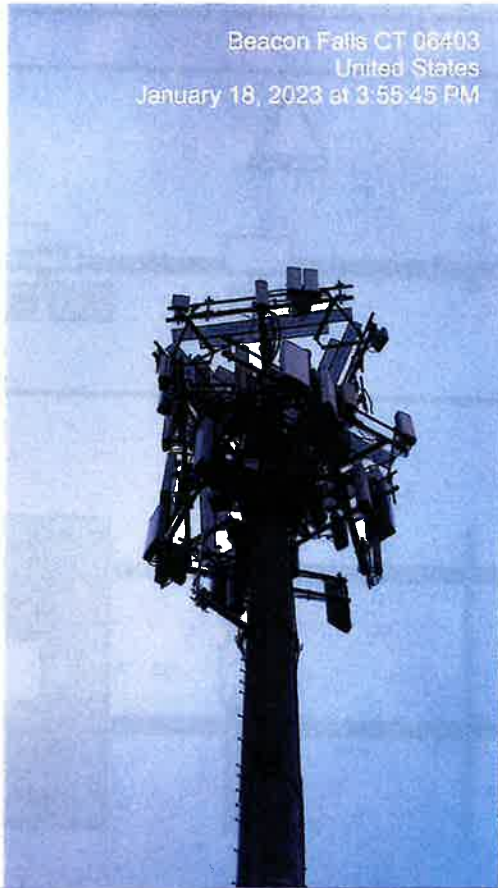
10206285

Mount Elev: 161.00



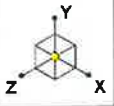
Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Fm T.	Ant H Off	Status	Validation
A1	JAHH-65B-R3B	72	13.8	136	2	a	Front	36	-9	Retained	01/18/2023
A1	JAHH-65B-R3B	72	13.8	136	2	b	Front	36	9	Retained	01/18/2023
R3	CBC78T-DS-43	6.4	6.9	136	2	a	Behind	36	-5	Retained	01/18/2023
R4	B2/B66A RRH-BR049 (RFV01U-D1A)	15	15	136	2	a	Behind	36	7	Retained	01/18/2023
R10	BSF0020F3V1-1	10.6	10.9	136	2	a	Behind	60	0	Added	
R10	BSF0020F3V1-1	10.6	10.9	136	2	b	Front	60	0	Added	
A8	SBNHH-1D65B	72.9	11.9	86.5	3	a	Front	36	0	Retained	01/18/2023
R5	B5/B13 RRH-BR04C (RFV01U-D2A)	15	15	86.5	3	a	Behind	36	0	Retained	01/18/2023
A2	MT6407-77A	30.8	16.1	11.5	5	a	Front	36	0	Retained	01/18/2023

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United States  
January 18, 2023 at 3:55:45 PM



Beacon Falls CT 06403  
United States  
January 18, 2023 at 3:55:45 PM





Envelope Only Solution

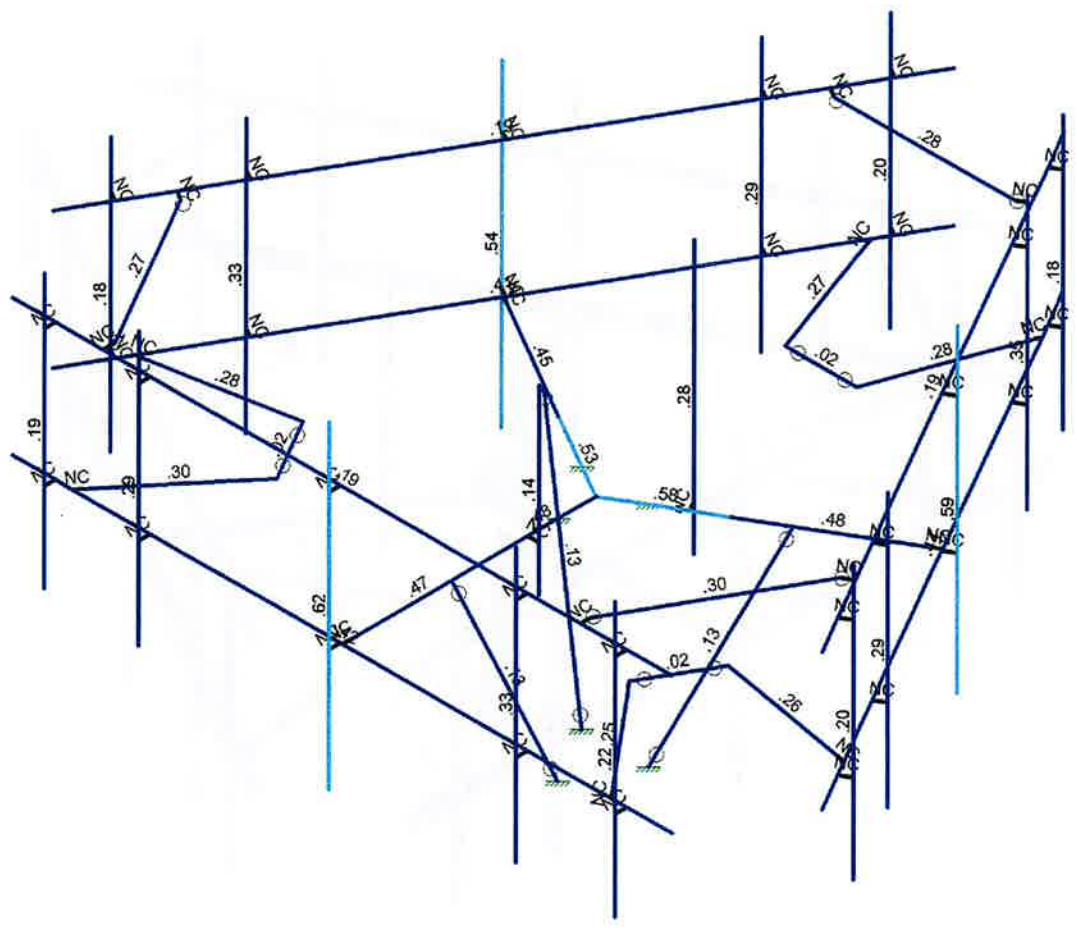
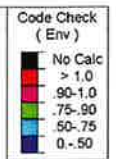
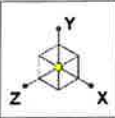
Colliers Engineering & Des..

5000385010-VZW\_MT\_LO\_H

SK - 1

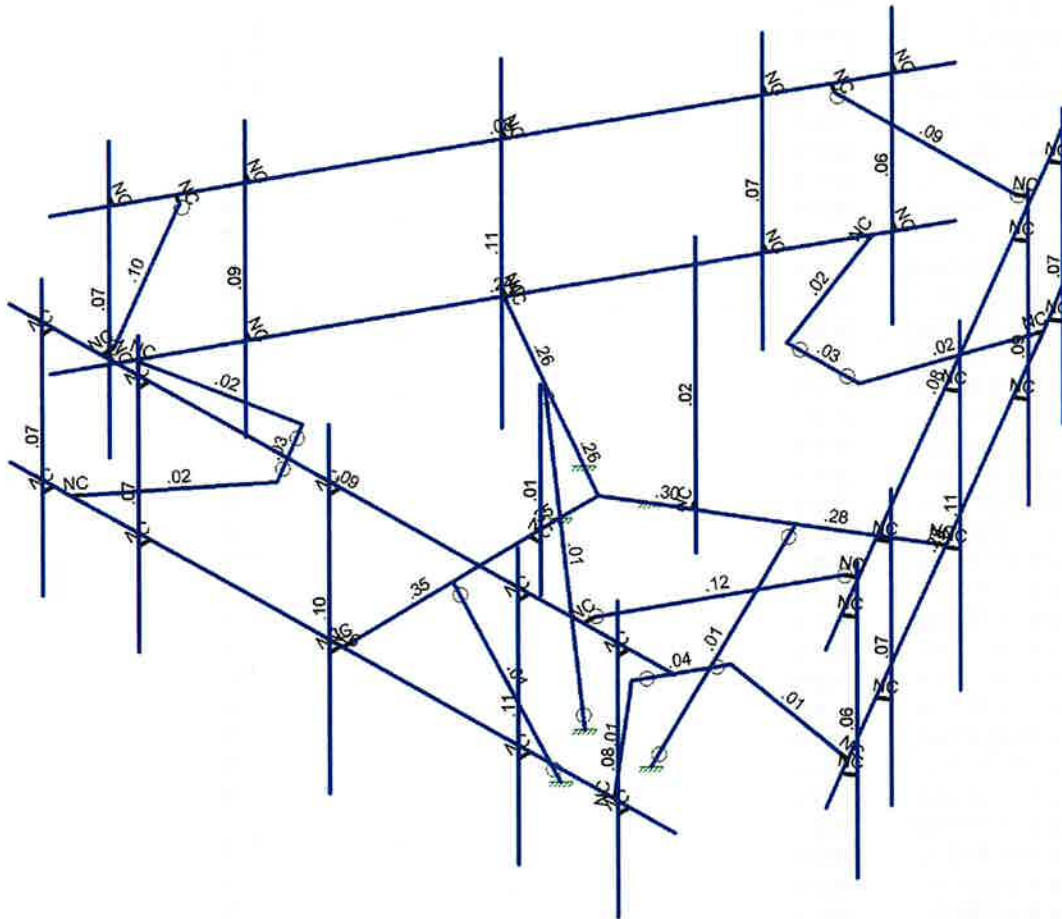
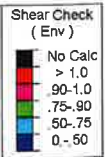
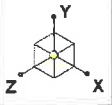
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5000385010-VZW\_MT\_LO\_H

SK - 5

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Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000385010-VZW\_MT\_LO\_H

July 6, 2023  
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 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					114		
2	Antenna Di	None					114		
3	Antenna Wo (0 Deg)	None					114		
4	Antenna Wo (30 Deg)	None					114		
5	Antenna Wo (60 Deg)	None					114		
6	Antenna Wo (90 Deg)	None					114		
7	Antenna Wo (120 Deg)	None					114		
8	Antenna Wo (150 Deg)	None					114		
9	Antenna Wo (180 Deg)	None					114		
10	Antenna Wo (210 Deg)	None					114		
11	Antenna Wo (240 Deg)	None					114		
12	Antenna Wo (270 Deg)	None					114		
13	Antenna Wo (300 Deg)	None					114		
14	Antenna Wo (330 Deg)	None					114		
15	Antenna Wi (0 Deg)	None					114		
16	Antenna Wi (30 Deg)	None					114		
17	Antenna Wi (60 Deg)	None					114		
18	Antenna Wi (90 Deg)	None					114		
19	Antenna Wi (120 Deg)	None					114		
20	Antenna Wi (150 Deg)	None					114		
21	Antenna Wi (180 Deg)	None					114		
22	Antenna Wi (210 Deg)	None					114		
23	Antenna Wi (240 Deg)	None					114		
24	Antenna Wi (270 Deg)	None					114		
25	Antenna Wi (300 Deg)	None					114		
26	Antenna Wi (330 Deg)	None					114		
27	Antenna W m (0 Deg)	None					114		
28	Antenna W m (30 Deg)	None					114		
29	Antenna W m (60 Deg)	None					114		
30	Antenna W m (90 Deg)	None					114		
31	Antenna W m (120 De..	None					114		
32	Antenna W m (150 De..	None					114		
33	Antenna W m (180 De..	None					114		
34	Antenna W m (210 De..	None					114		
35	Antenna W m (240 De..	None					114		
36	Antenna W m (270 De..	None					114		
37	Antenna W m (300 De..	None					114		
38	Antenna W m (330 De..	None					114		
39	Structure D	None		-1					3
40	Structure Di	None						44	3
41	Structure Wo (0 Deg)	None						88	
42	Structure Wo (30 Deg)	None						88	
43	Structure Wo (60 Deg)	None						88	
44	Structure Wo (90 Deg)	None						88	
45	Structure Wo (120 D..	None						88	
46	Structure Wo (150 D..	None						88	
47	Structure Wo (180 D..	None						88	
48	Structure Wo (210 D..	None						88	





**Basic Load Cases (Continued)**

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed Area(Me...)	Surface(P...
49	Structure Wo (240 D...	None						88	
50	Structure Wo (270 D...	None						88	
51	Structure Wo (300 D...	None						88	
52	Structure Wo (330 D...	None						88	
53	Structure Wi (0 Deg)	None						88	
54	Structure Wi (30 Deg)	None						88	
55	Structure Wi (60 Deg)	None						88	
56	Structure Wi (90 Deg)	None						88	
57	Structure Wi (120 De...	None						88	
58	Structure Wi (150 De...	None						88	
59	Structure Wi (180 De...	None						88	
60	Structure Wi (210 De...	None						88	
61	Structure Wi (240 De...	None						88	
62	Structure Wi (270 De...	None						88	
63	Structure Wi (300 De...	None						88	
64	Structure Wi (330 De...	None						88	
65	Structure Wm (0 Deg)	None						88	
66	Structure Wm (30 D...	None						88	
67	Structure Wm (60 D...	None						88	
68	Structure Wm (90 D...	None						88	
69	Structure Wm (120 ...	None						88	
70	Structure Wm (150 ...	None						88	
71	Structure Wm (180 ...	None						88	
72	Structure Wm (210 ...	None						88	
73	Structure Wm (240 ...	None						88	
74	Structure Wm (270 ...	None						88	
75	Structure Wm (300 ...	None						88	
76	Structure Wm (330 ...	None						88	
77	Lm1	None					1		
78	Lm2	None					1		
79	Lv1	None					1		
80	Lv2	None					1		
81	Antenna Ev	None					114		
82	Antenna Eh (0 Deg)	None					76		
83	Antenna Eh (90 Deg)	None					76		
84	Structure Ev	ELY		- .042					3
85	Structure Eh (0 Deg)	ELZ			- .106				3
86	Structure Eh (90 Deg)	ELX	.106						3
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	SolveP...	SR...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...
1	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	3	1	41	1
2	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	4	1	42	1
3	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	5	1	43	1
4	1.2D+1.0...	Yes	Y	1	1.2	39	1.2	6	1	44	1



Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000385010-VZW\_MT\_LO\_H

July 6, 2023  
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**Load Combinations (Continued)**

	Description	Solve	P...	SR...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...	BLC Fact...		
5	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	7	1	45	1				
6	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	8	1	46	1				
7	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	9	1	47	1				
8	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	10	1	48	1				
9	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	11	1	49	1				
10	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	12	1	50	1				
11	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	13	1	51	1				
12	1.2D+1.0...	Yes	Y		1	1.2	39	1.2	14	1	52	1				
13	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1
14	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1
15	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1
16	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1
17	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1
18	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1
19	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1
20	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1
21	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1
22	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1
23	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1
24	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1
25	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1		
26	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1		
27	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	29	1	67	1		
28	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	30	1	68	1		
29	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	31	1	69	1		
30	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	32	1	70	1		
31	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	33	1	71	1		
32	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	34	1	72	1		
33	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	35	1	73	1		
34	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	36	1	74	1		
35	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	37	1	75	1		
36	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	77	1.5	38	1	76	1		
37	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	27	1	65	1		
38	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	28	1	66	1		
39	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	29	1	67	1		
40	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	30	1	68	1		
41	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	31	1	69	1		
42	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	32	1	70	1		
43	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	33	1	71	1		
44	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	34	1	72	1		
45	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	35	1	73	1		
46	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	36	1	74	1		
47	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	37	1	75	1		
48	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	78	1.5	38	1	76	1		
49	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	79	1.5						
50	1.2D + 1.5...	Yes	Y		1	1.2	39	1.2	80	1.5						
51	1.4D	Yes	Y		1	1.4	39	1.4								
52	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	1	83	ELZ 1 ELX
53	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.866	83 .5	ELZ .866 ELX .5
54	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	.5	83 .866	ELZ .5 ELX .866
55	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82		83 1	ELZ ELX 1
56	1.2D + 1.0...	Yes	Y		1	1.2	39	1.2	81	1	ELY	1	82	-.5	83 .866	ELZ -.5 ELX .866



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**Load Combinations (Continued)**

Description	Solve	P	SR	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact	BLC Fact		
57	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-866	83	.5	ELZ	-866	ELX	.5
58	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-1	83		ELZ	-1	ELX	
59	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-866	83	-.5	ELZ	-866	ELX	-.5
60	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
61	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82		83	-1	ELZ		ELX	-1
62	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.5	83	-.866	ELZ	.5	ELX	-.866
63	1.2D + 1.0	Yes	Y	1	1.2	39	1.2	81	1	ELY	1	82	.866	83	-.5	ELZ	.866	ELX	-.5
64	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	1	83		ELZ	1	ELX	
65	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	.5	ELZ	.866	ELX	.5
66	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	.866	ELZ	.5	ELX	.866
67	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	1	ELZ		ELX	1
68	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	.866	ELZ	-.5	ELX	.866
69	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	.5	ELZ	-.866	ELX	.5
70	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-1	83		ELZ	-1	ELX	
71	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.866	83	-.5	ELZ	-.866	ELX	-.5
72	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	-.5	83	-.866	ELZ	-.5	ELX	-.866
73	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82		83	-1	ELZ		ELX	-1
74	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.5	83	-.866	ELZ	.5	ELX	-.866
75	0.9D - 1.0	Yes	Y	1	.9	39	.9	81	-1	ELY	-1	82	.866	83	-.5	ELZ	.866	ELX	-.5

**Joint Coordinates and Temperatures**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N1	0	0	0	0	
2	N2	-1.876388	0	-1.083333	0	
3	N3	-4.690971	0	-2.708333	0	
4	N7	0.	0	2.166667	0	
5	N8	0.	0	5.416667	0	
6	N9	-7.25	0	5.583333	0	
7	N10	7.25	0	5.583333	0	
8	N12	1.876388	0	-1.083333	0	
9	N13	4.690971	0	-2.708333	0	
10	N14A	-5.916667	0	5.583333	0	
11	N15A	5.916667	0	5.583333	0	
12	N12A	0.	0	5.583333	0	
13	N13A	-5.809535	0	5.455659	0	
14	N14	5.809535	0	5.455659	0	
15	N18	8.460309	0	3.487018	0	
16	N19	1.210309	0	-9.070351	0	
17	N20	4.835309	0	-2.791667	0	
18	N22	-1.210309	0	-9.070351	0	
19	N23	-8.460309	0	3.487018	0	
20	N24	-4.835309	0	-2.791667	0	
21	N21	-3.881173	0	3.157526	0	
22	N22A	3.881173	0	3.157526	0	
23	N23A	7.793642	0	2.332317	0	
24	N24A	1.876975	0	-7.91565	0	
25	N25	7.629507	0	2.303376	0	
26	N26	1.819972	0	-7.759035	0	
27	N27	4.675084	0	1.782431	0	
28	N28	0.793911	0	-4.939957	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
29	N29	-1.876975	0	-7.91565	0	
30	N30	-7.793642	0	2.332317	0	
31	N31	-1.819972	0	-7.759035	0	
32	N32	-7.629507	0	2.303376	0	
33	N33	-0.793911	0	-4.939957	0	
34	N34	-4.675084	0	1.782431	0	
35	N35	0	0	0.833333	0	
36	N37	0.721688	0	-0.416667	0	
37	N39	-0.721688	0	-0.416667	0	
38	N38	6.25	0	5.583333	0	
39	N39A	4.083333	0	5.583333	0	
40	N40	-0.041667	0	5.583333	0	
41	N41	-4.208333	0	5.583333	0	
42	N42	-6.291667	0	5.583333	0	
43	N43	6.25	0	5.833333	0	
44	N44	4.083333	0	5.833333	0	
45	N45	-0.041667	0	5.833333	0	
46	N46	-4.208333	0	5.833333	0	
47	N47	-6.291667	0	5.833333	0	
48	N48	4.083333	4	5.833333	0	
49	N49	-4.208333	4	5.833333	0	
50	N50	4.083333	-2	5.833333	0	
51	N51	-4.208333	-2	5.833333	0	
52	N52	-0.041667	4.333333	5.833333	0	
53	N53	-0.041667	-2.666667	5.833333	0	
54	N54	-6.291667	4.0625	5.833333	0	
55	N55	-6.291667	-1.9375	5.833333	0	
56	N56	6.25	4.041667	5.833333	0	
57	N57	6.25	-1.958333	5.833333	0	
58	N58	1.710309	0	-8.204325	0	
59	N59	2.793642	0	-6.327937	0	
60	N60	4.856142	0	-2.755582	0	
61	N61	6.939475	0	0.852857	0	
62	N62	7.981142	0	2.657076	0	
63	N63	1.926815	0	-8.329325	0	
64	N64	3.010148	0	-6.452937	0	
65	N65	5.072648	0	-2.880582	0	
66	N66	7.155982	0	0.727857	0	
67	N67	8.197648	0	2.532076	0	
68	N68	3.010148	4	-6.452937	0	
69	N69	7.155982	4	0.727857	0	
70	N70	3.010148	-2	-6.452937	0	
71	N71	7.155982	-2	0.727857	0	
72	N72	5.072648	4.333333	-2.880582	0	
73	N73	5.072648	-2.666667	-2.880582	0	
74	N74	8.197648	4.0625	2.532076	0	
75	N75	8.197648	-1.9375	2.532076	0	
76	N76	1.926815	4.041667	-8.329325	0	
77	N77	1.926815	-1.958333	-8.329325	0	
78	N78	-7.960309	0	2.620992	0	
79	N79	-6.876975	0	0.744604	0	
80	N80	-4.814475	0	-2.827751	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
81	N81	-2.731142	0	-6.43619	0	
82	N82	-1.689475	0	-8.24041	0	
83	N83	-8.176815	0	2.495992	0	
84	N84	-7.093482	0	0.619604	0	
85	N85	-5.030982	0	-2.952751	0	
86	N86	-2.947648	0	-6.56119	0	
87	N87	-1.905982	0	-8.36541	0	
88	N88	-7.093482	4	0.619604	0	
89	N89	-2.947648	4	-6.56119	0	
90	N90	-7.093482	-2	0.619604	0	
91	N91	-2.947648	-2	-6.56119	0	
92	N92	-5.030982	4.333333	-2.952751	0	
93	N93	-5.030982	-2.666667	-2.952751	0	
94	N94	-1.905982	4.0625	-8.36541	0	
95	N95	-1.905982	-1.9375	-8.36541	0	
96	N96	-8.176815	4.041667	2.495992	0	
97	N97	-8.176815	-1.958333	2.495992	0	
98	N101	0.	0	1.5	0	
99	N102	1.299038	0	-.75	0	
100	N103	-1.299038	0	-.75	0	
101	N104	.25	0	1.5	0	
102	N105	.25	-1	1.5	0	
103	N106	.25	3	1.5	0	
104	N108	1.174038	0	-0.966506	0	
105	N108A	1.174038	5	-0.966506	0	
106	N109	1.174038	-1	-0.966506	0	
107	N107	-5.488142	0	5.072637	0	
108	N108B	5.488142	0	5.072637	0	
109	N109A	7.137103	0	2.216552	0	
110	N110	1.648962	0	-7.289189	0	
111	N111	-1.648962	0	-7.289189	0	
112	N112	-7.137103	0	2.216552	0	
113	N113	-4.202566	0	3.540548	0	
114	N114	4.202566	0	3.540548	0	
115	N115	5.167488	0	1.869255	0	
116	N116	0.964921	0	-5.409803	0	
117	N117	-0.964921	0	-5.409803	0	
118	N118	-5.167488	0	1.869255	0	
119	N119	1.563457	0	-7.054265	0	
120	N120	0.	0	3.166667	0	
121	N121	0	-5	0.833333	0	
122	N122	0.721688	-5	-0.416667	0	
123	N123	-0.721688	-5	-0.416667	0	
124	N124	2.742414	0	-1.583333	0	
125	N128	-2.742414	0	-1.583333	0	
126	N126	-7.25	3	5.583333	0	
127	N127	7.25	3	5.583333	0	
128	N128A	6.25	3	5.583333	0	
129	N129	4.083333	3	5.583333	0	
130	N130	-0.041667	3	5.583333	0	
131	N131	-4.208333	3	5.583333	0	
132	N132	-6.291667	3	5.583333	0	



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**Joint Coordinates and Temperatures (Continued)**

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
133	N133	6.25	3	5.833333	0	
134	N134	4.083333	3	5.833333	0	
135	N135	-0.041667	3	5.833333	0	
136	N136	-4.208333	3	5.833333	0	
137	N137	-6.291667	3	5.833333	0	
138	N138	-5.25	3	5.583333	0	
139	N139	5.25	3	5.583333	0	
140	N140	-5.25	3	5.333333	0	
141	N141	5.25	3	5.333333	0	
142	N142	8.460309	3	3.487018	0	
143	N143	1.210309	3	-9.070351	0	
144	N144	1.710309	3	-8.204325	0	
145	N145	2.793642	3	-6.327937	0	
146	N146	4.856142	3	-2.755582	0	
147	N147	6.939475	3	0.852857	0	
148	N148	7.981142	3	2.657076	0	
149	N149	1.926815	3	-8.329325	0	
150	N150	3.010148	3	-6.452937	0	
151	N151	5.072648	3	-2.880582	0	
152	N152	7.155982	3	0.727857	0	
153	N153	8.197648	3	2.532076	0	
154	N154	7.460309	3	1.754967	0	
155	N155	2.210309	3	-7.3383	0	
156	N156	7.243802	3	1.879967	0	
157	N157	1.993802	3	-7.2133	0	
158	N158	-1.210309	3	-9.070351	0	
159	N159	-8.460309	3	3.487018	0	
160	N160	-7.960309	3	2.620992	0	
161	N161	-6.876975	3	0.744604	0	
162	N162	-4.814475	3	-2.827751	0	
163	N163	-2.731142	3	-6.43619	0	
164	N164	-1.689475	3	-8.24041	0	
165	N165	-8.176815	3	2.495992	0	
166	N166	-7.093482	3	0.619604	0	
167	N167	-5.030982	3	-2.952751	0	
168	N168	-2.947648	3	-6.56119	0	
169	N169	-1.905982	3	-8.36541	0	
170	N170	-2.210309	3	-7.3383	0	
171	N171	-7.460309	3	1.754967	0	
172	N172	-1.993802	3	-7.2133	0	
173	N173	-7.243802	3	1.879967	0	

**Hot Rolled Steel Section Sets**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 2.0	Column	Pipe	A53 Gr. B	Typical	1.02	.627	.627	1.25
2	Standoff Arm	HSS4X4X4	Column	Pipe	A53 Gr. B	Typical	3.37	7.8	7.8	12.8
3	Face Horizontal	PIPE 3.5	Column	Pipe	A53 Gr. B	Typical	2.5	4.52	4.52	9.04
4	Grate Angle	L4X4X3	Column	Pipe	A36 Gr.36	Typical	1.465	2.332	2.332	.017
5	Sector Connection A...	L2x2x2	Column	Pipe	A36 Gr.36	Typical	.491	.189	.189	.003
6	MOD Kicker	LL3x3x3x6	Column	Pipe	A36 Gr.36	Typical	2.18	4.97	1.9	.027



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**Hot Rolled Steel Section Sets (Continued)**

	Label	Shape	Type	Design List	Material	Design R...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
7	MOD Supprt Rail	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
8	MOD Bracket	L3X3X4	Column	Pipe	A36 Gr.36	Typical	1.44	1.23	1.23	.031
9	MOD PIPE	PIPE 2.5	Column	Pipe	A53 Gr. B	Typical	1.61	1.45	1.45	2.89
10	TES Grate Angle	L4X4X4	Column	Pipe	A53 Gr. B	Typical	1.93	3	3	.044

**Hot Rolled Steel Properties**

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

**Member Primary Data**

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M1	N1	N2			Standoff Arm	Column	Pipe	A53 Gr. B	Typical
2	M2	N2	N3			Standoff Arm	Column	Pipe	A53 Gr. B	Typical
3	M4	N1	N7			Standoff Arm	Column	Pipe	A53 Gr. B	Typical
4	M5	N7	N8			Standoff Arm	Column	Pipe	A53 Gr. B	Typical
5	LV	N10	N9			Face Horizontal	Column	Pipe	A53 Gr. B	Typical
6	M7	N1	N12			Standoff Arm	Column	Pipe	A53 Gr. B	Typical
7	M8	N12	N13			Standoff Arm	Column	Pipe	A53 Gr. B	Typical
8	M8A	N8	N12A			RIGID	None	None	RIGID	Typical
9	M9	N19	N18			Face Horizontal	Column	Pipe	A53 Gr. B	Typical
10	M10	N13	N20			RIGID	None	None	RIGID	Typical
11	M11	N23	N22			Face Horizontal	Column	Pipe	A53 Gr. B	Typical
12	M12	N3	N24			RIGID	None	None	RIGID	Typical
13	M13	N15A	N14			RIGID	None	None	RIGID	Typical
14	M14	N14A	N13A			RIGID	None	None	RIGID	Typical
15	M15	N13A	N21		180	Grate Angle	Column	Pipe	A36 Gr.36	Typical
16	M16	N14	N22A		90	Grate Angle	Column	Pipe	A36 Gr.36	Typical
17	M17	N24A	N26			RIGID	None	None	RIGID	Typical
18	M18	N25	N27		180	Grate Angle	Column	Pipe	A36 Gr.36	Typical
19	M19	N26	N28		90	Grate Angle	Column	Pipe	A36 Gr.36	Typical
20	M20	N30	N32			RIGID	None	None	RIGID	Typical
21	M21	N31	N33		180	Grate Angle	Column	Pipe	A36 Gr.36	Typical
22	M22	N32	N34		90	Grate Angle	Column	Pipe	A36 Gr.36	Typical
23	M23	N21	N34		270	Sector Connec...	Column	Pipe	A36 Gr.36	Typical
24	M24	N27	N22A		270	Sector Connec...	Column	Pipe	A36 Gr.36	Typical
25	M25	N33	N28		270	Sector Connec...	Column	Pipe	A36 Gr.36	Typical
26	MP1A	N56	N57			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
27	MP2A	N48	N50			MOD PIPE	Column	Pipe	A53 Gr. B	Typical
28	MP3A	N52	N53			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
29	MP4A	N49	N51			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
30	MP5A	N54	N55			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
31	M31	N42	N47			RIGID	None	None	RIGID	Typical
32	M32	N41	N46			RIGID	None	None	RIGID	Typical
33	LM2	N40	N45			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
34	LM1	N39A	N44			RIGID	None	None	RIGID	Typical
35	M35	N38	N43			RIGID	None	None	RIGID	Typical
36	MP1C	N76	N77			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
37	MP2C	N68	N70			MOD PIPE	Column	Pipe	A53 Gr. B	Typical
38	MP3C	N72	N73			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
39	MP4C	N69	N71			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
40	MP5C	N74	N75			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
41	M41	N62	N67			RIGID	None	None	RIGID	Typical
42	M42	N61	N66			RIGID	None	None	RIGID	Typical
43	M43	N60	N65			RIGID	None	None	RIGID	Typical
44	M44	N59	N64			RIGID	None	None	RIGID	Typical
45	M45	N58	N63			RIGID	None	None	RIGID	Typical
46	MP1B	N96	N97			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
47	MP2B	N88	N90			MOD PIPE	Column	Pipe	A53 Gr. B	Typical
48	MP3B	N92	N93			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
49	MP4B	N89	N91			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
50	MP5B	N94	N95			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
51	M51	N82	N87			RIGID	None	None	RIGID	Typical
52	M52	N81	N86			RIGID	None	None	RIGID	Typical
53	M53	N80	N85			RIGID	None	None	RIGID	Typical
54	M54	N79	N84			RIGID	None	None	RIGID	Typical
55	M55	N78	N83			RIGID	None	None	RIGID	Typical
56	M58	N101	N104			RIGID	None	None	RIGID	Typical
57	OVP2	N106	N105			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
58	M60	N102	N108			RIGID	None	None	RIGID	Typical
59	LR1	N108A	N109			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
60	M60A	N23A	N25			RIGID	None	None	RIGID	Typical
61	M61	N29	N31			RIGID	None	None	RIGID	Typical
62	M62	N121	N120			MOD Kicker	Column	Pipe	A36 Gr.36	Typical
63	M63	N122	N124			MOD Kicker	Column	Pipe	A36 Gr.36	Typical
64	M64	N123	N128			MOD Kicker	Column	Pipe	A36 Gr.36	Typical
65	M65	N132	N137			RIGID	None	None	RIGID	Typical
66	M66	N131	N136			RIGID	None	None	RIGID	Typical
67	M67	N130	N135			RIGID	None	None	RIGID	Typical
68	M68	N129	N134			RIGID	None	None	RIGID	Typical
69	M69	N128A	N133			RIGID	None	None	RIGID	Typical
70	M70	N126	N127			MOD Supprt R.	Column	Pipe	A53 Gr. B	Typical
71	M71	N148	N153			RIGID	None	None	RIGID	Typical
72	M72	N147	N152			RIGID	None	None	RIGID	Typical
73	M73	N146	N151			RIGID	None	None	RIGID	Typical
74	M74	N145	N150			RIGID	None	None	RIGID	Typical
75	M75	N144	N149			RIGID	None	None	RIGID	Typical
76	M76	N142	N143			MOD Supprt R.	Column	Pipe	A53 Gr. B	Typical
77	M77	N164	N169			RIGID	None	None	RIGID	Typical
78	M78	N163	N168			RIGID	None	None	RIGID	Typical
79	M79	N162	N167			RIGID	None	None	RIGID	Typical
80	M80	N161	N166			RIGID	None	None	RIGID	Typical
81	M81	N160	N165			RIGID	None	None	RIGID	Typical
82	M82	N158	N159			MOD Supprt R.	Column	Pipe	A53 Gr. B	Typical
83	M83	N138	N140			RIGID	None	None	RIGID	Typical
84	M84	N171	N173			RIGID	None	None	RIGID	Typical
85	M85	N173	N140		180	MOD Bracket	Column	Pipe	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
86	M86	N154	N156			RIGID	None	None	RIGID	Typical
87	M87	N139	N141			RIGID	None	None	RIGID	Typical
88	M88	N141	N156		180	MOD Bracket	Column	Pipe	A36 Gr.36	Typical
89	M89	N170	N172			RIGID	None	None	RIGID	Typical
90	M90	N155	N157			RIGID	None	None	RIGID	Typical
91	M91	N157	N172		180	MOD Bracket	Column	Pipe	A36 Gr.36	Typical

**Member Advanced Data**

	Label	I Release	J Release	I Offset(in)	J Offset(in)	T/C Only	Physical	Defl Rat...	Analysis ...	Inactive	Seismic...
1	M1						Yes	** NA **			None
2	M2						Yes	** NA **			None
3	M4						Yes	** NA **			None
4	M5						Yes	** NA **			None
5	LV						Yes	** NA **			None
6	M7						Yes	** NA **			None
7	M8						Yes	** NA **			None
8	M8A						Yes	** NA **			None
9	M9						Yes	** NA **			None
10	M10						Yes	** NA **			None
11	M11						Yes	** NA **			None
12	M12						Yes	** NA **			None
13	M13						Yes	** NA **			None
14	M14						Yes	** NA **			None
15	M15						Yes	** NA **			None
16	M16						Yes	** NA **			None
17	M17						Yes	** NA **			None
18	M18						Yes	** NA **			None
19	M19						Yes	** NA **			None
20	M20						Yes	** NA **			None
21	M21						Yes	** NA **			None
22	M22						Yes	** NA **			None
23	M23	BenPIN	BenPIN				Yes	** NA **			None
24	M24	BenPIN	BenPIN				Yes	** NA **			None
25	M25	BenPIN	BenPIN				Yes	** NA **			None
26	MP1A						Yes	** NA **			None
27	MP2A						Yes	** NA **			None
28	MP3A						Yes	** NA **			None
29	MP4A						Yes	** NA **			None
30	MP5A						Yes	** NA **			None
31	M31						Yes	** NA **			None
32	M32						Yes	** NA **			None
33	LM2						Yes	** NA **			None
34	LM1						Yes	** NA **			None
35	M35						Yes	** NA **			None
36	MP1C						Yes	** NA **			None
37	MP2C						Yes	** NA **			None
38	MP3C						Yes	** NA **			None
39	MP4C						Yes	** NA **			None
40	MP5C						Yes	** NA **			None
41	M41						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...
42	M42						Yes	** NA **			None
43	M43						Yes	** NA **			None
44	M44						Yes	** NA **			None
45	M45						Yes	** NA **			None
46	MP1B						Yes	** NA **			None
47	MP2B						Yes	** NA **			None
48	MP3B						Yes	** NA **			None
49	MP4B						Yes	** NA **			None
50	MP5B						Yes	** NA **			None
51	M51						Yes	** NA **			None
52	M52						Yes	** NA **			None
53	M53						Yes	** NA **			None
54	M54						Yes	** NA **			None
55	M55						Yes	** NA **			None
56	M58						Yes	** NA **			None
57	OVP2						Yes	** NA **			None
58	M60						Yes	** NA **			None
59	LR1						Yes	** NA **			None
60	M60A						Yes	** NA **			None
61	M61						Yes	** NA **			None
62	M62	BenPIN	BenPIN				Yes	** NA **			None
63	M63	BenPIN	BenPIN				Yes	** NA **			None
64	M64	BenPIN	BenPIN				Yes	** NA **			None
65	M65						Yes	** NA **			None
66	M66						Yes	** NA **			None
67	M67						Yes	** NA **			None
68	M68						Yes	** NA **			None
69	M69						Yes	** NA **			None
70	M70						Yes	** NA **			None
71	M71						Yes	** NA **			None
72	M72						Yes	** NA **			None
73	M73						Yes	** NA **			None
74	M74						Yes	** NA **			None
75	M75						Yes	** NA **			None
76	M76						Yes	** NA **			None
77	M77						Yes	** NA **			None
78	M78						Yes	** NA **			None
79	M79						Yes	** NA **			None
80	M80						Yes	** NA **			None
81	M81						Yes	** NA **			None
82	M82						Yes	** NA **			None
83	M83	OOOOOX					Yes	** NA **			None
84	M84	OOOOOX					Yes	** NA **			None
85	M85						Yes	** NA **			None
86	M86	OOOOOX					Yes	** NA **			None
87	M87	OOOOOX					Yes	** NA **			None
88	M88						Yes	** NA **			None
89	M89	OOOOOX					Yes	** NA **			None
90	M90	OOOOOX					Yes	** NA **			None
91	M91						Yes	** NA **			None



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-31.65	.5
2	MP2A	My	-.016	.5
3	MP2A	Mz	-.024	.5
4	MP2A	Y	-31.65	5.5
5	MP2A	My	-.016	5.5
6	MP2A	Mz	-.024	5.5
7	MP2B	Y	-31.65	.5
8	MP2B	My	.017	.5
9	MP2B	Mz	-.023	.5
10	MP2B	Y	-31.65	5.5
11	MP2B	My	.017	5.5
12	MP2B	Mz	-.023	5.5
13	MP2C	Y	-31.65	.5
14	MP2C	My	.011	.5
15	MP2C	Mz	.026	.5
16	MP2C	Y	-31.65	5.5
17	MP2C	My	.011	5.5
18	MP2C	Mz	.026	5.5
19	MP2A	Y	-31.65	.5
20	MP2A	My	-.016	.5
21	MP2A	Mz	.024	.5
22	MP2A	Y	-31.65	5.5
23	MP2A	My	-.016	5.5
24	MP2A	Mz	.024	5.5
25	MP2B	Y	-31.65	.5
26	MP2B	My	-.028	.5
27	MP2B	Mz	-.007	.5
28	MP2B	Y	-31.65	5.5
29	MP2B	My	-.028	5.5
30	MP2B	Mz	-.007	5.5
31	MP2C	Y	-31.65	.5
32	MP2C	My	.02	.5
33	MP2C	Mz	-.021	.5
34	MP2C	Y	-31.65	5.5
35	MP2C	My	.02	5.5
36	MP2C	Mz	-.021	5.5
37	MP5A	Y	-44	2
38	MP5A	My	-.022	2
39	MP5A	Mz	0	2
40	MP5A	Y	-44	4
41	MP5A	My	-.022	4
42	MP5A	Mz	0	4
43	MP5B	Y	-44	2
44	MP5B	My	-.008	2
45	MP5B	Mz	-.021	2
46	MP5B	Y	-44	4
47	MP5B	My	-.008	4
48	MP5B	Mz	-.021	4
49	MP5C	Y	-44	2
50	MP5C	My	.022	2
51	MP5C	Mz	.004	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP5C	Y	-44	4
53	MP5C	My	.022	4
54	MP5C	Mz	.004	4
55	MP2A	Y	-10.4	3
56	MP2A	My	.005	3
57	MP2A	Mz	-.004	3
58	MP2B	Y	-10.4	3
59	MP2B	My	.006	3
60	MP2B	Mz	.003	3
61	MP2C	Y	-10.4	3
62	MP2C	My	-.006	3
63	MP2C	Mz	.003	3
64	MP2A	Y	-84.4	3
65	MP2A	My	.042	3
66	MP2A	Mz	.049	3
67	MP2B	Y	-84.4	3
68	MP2B	My	-.032	3
69	MP2B	Mz	.056	3
70	MP2C	Y	-84.4	3
71	MP2C	My	-.033	3
72	MP2C	Mz	-.056	3
73	MP3A	Y	-70.3	3
74	MP3A	My	.035	3
75	MP3A	Mz	0	3
76	MP3B	Y	-70.3	3
77	MP3B	My	.012	3
78	MP3B	Mz	.033	3
79	MP3C	Y	-70.3	3
80	MP3C	My	-.035	3
81	MP3C	Mz	-.006	3
82	OVP2	Y	-32	1
83	OVP2	My	0	1
84	OVP2	Mz	0	1
85	MP2A	Y	-17.6	.25
86	MP2A	My	.009	.25
87	MP2A	Mz	0	.25
88	MP2B	Y	-17.6	.25
89	MP2B	My	.003	.25
90	MP2B	Mz	.008	.25
91	MP2C	Y	-17.6	.25
92	MP2C	My	-.009	.25
93	MP2C	Mz	-.002	.25
94	MP3A	Y	-20.3	.5
95	MP3A	My	-.01	.5
96	MP3A	Mz	0	.5
97	MP3A	Y	-20.3	5.5
98	MP3A	My	-.01	5.5
99	MP3A	Mz	0	5.5
100	MP3B	Y	-20.3	.5
101	MP3B	My	-.003	.5
102	MP3B	Mz	-.01	.5
103	MP3B	Y	-20.3	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	MP3B	My	-.003	5.5
105	MP3B	Mz	-.01	5.5
106	MP3C	Y	-20.3	.5
107	MP3C	My	.01	.5
108	MP3C	Mz	.002	.5
109	MP3C	Y	-20.3	5.5
110	MP3C	My	.01	5.5
111	MP3C	Mz	.002	5.5
112	LR1	Y	-24	1
113	LR1	My	0	1
114	LR1	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-71.125	.5
2	MP2A	My	-.036	.5
3	MP2A	Mz	-.053	.5
4	MP2A	Y	-71.125	5.5
5	MP2A	My	-.036	5.5
6	MP2A	Mz	-.053	5.5
7	MP2B	Y	-71.125	.5
8	MP2B	My	.038	.5
9	MP2B	Mz	-.052	.5
10	MP2B	Y	-71.125	5.5
11	MP2B	My	.038	5.5
12	MP2B	Mz	-.052	5.5
13	MP2C	Y	-71.125	.5
14	MP2C	My	.026	.5
15	MP2C	Mz	.059	.5
16	MP2C	Y	-71.125	5.5
17	MP2C	My	.026	5.5
18	MP2C	Mz	.059	5.5
19	MP2A	Y	-71.125	.5
20	MP2A	My	-.036	.5
21	MP2A	Mz	.053	.5
22	MP2A	Y	-71.125	5.5
23	MP2A	My	-.036	5.5
24	MP2A	Mz	.053	5.5
25	MP2B	Y	-71.125	.5
26	MP2B	My	-.062	.5
27	MP2B	Mz	-.015	.5
28	MP2B	Y	-71.125	5.5
29	MP2B	My	-.062	5.5
30	MP2B	Mz	-.015	5.5
31	MP2C	Y	-71.125	.5
32	MP2C	My	.044	.5
33	MP2C	Mz	-.046	.5
34	MP2C	Y	-71.125	5.5
35	MP2C	My	.044	5.5
36	MP2C	Mz	-.046	5.5
37	MP5A	Y	-42.206	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
38	MP5A	My	-.021	2
39	MP5A	Mz	0	2
40	MP5A	Y	-42.206	4
41	MP5A	My	-.021	4
42	MP5A	Mz	0	4
43	MP5B	Y	-42.206	2
44	MP5B	My	-.007	2
45	MP5B	Mz	-.02	2
46	MP5B	Y	-42.206	4
47	MP5B	My	-.007	4
48	MP5B	Mz	-.02	4
49	MP5C	Y	-42.206	2
50	MP5C	My	.021	2
51	MP5C	Mz	.004	2
52	MP5C	Y	-42.206	4
53	MP5C	My	.021	4
54	MP5C	Mz	.004	4
55	MP2A	Y	-10.951	3
56	MP2A	My	.005	3
57	MP2A	Mz	-.005	3
58	MP2B	Y	-10.951	3
59	MP2B	My	.006	3
60	MP2B	Mz	.004	3
61	MP2C	Y	-10.951	3
62	MP2C	My	-.006	3
63	MP2C	Mz	.004	3
64	MP2A	Y	-45.681	3
65	MP2A	My	.023	3
66	MP2A	Mz	.027	3
67	MP2B	Y	-45.681	3
68	MP2B	My	-.017	3
69	MP2B	Mz	.031	3
70	MP2C	Y	-45.681	3
71	MP2C	My	-.018	3
72	MP2C	Mz	-.03	3
73	MP3A	Y	-41.087	3
74	MP3A	My	.021	3
75	MP3A	Mz	0	3
76	MP3B	Y	-41.087	3
77	MP3B	My	.007	3
78	MP3B	Mz	.019	3
79	MP3C	Y	-41.087	3
80	MP3C	My	-.02	3
81	MP3C	Mz	-.004	3
82	OVP2	Y	-77.24	1
83	OVP2	My	0	1
84	OVP2	Mz	0	1
85	MP2A	Y	-18.203	.25
86	MP2A	My	.009	.25
87	MP2A	Mz	0	.25
88	MP2B	Y	-18.203	.25
89	MP2B	My	.003	.25



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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
90	MP2B	Mz	.009	.25
91	MP2C	Y	-18.203	.25
92	MP2C	My	-.009	.25
93	MP2C	Mz	-.002	.25
94	MP3A	Y	-62.337	.5
95	MP3A	My	-.031	.5
96	MP3A	Mz	0	.5
97	MP3A	Y	-62.337	5.5
98	MP3A	My	-.031	5.5
99	MP3A	Mz	0	5.5
100	MP3B	Y	-62.337	.5
101	MP3B	My	-.011	.5
102	MP3B	Mz	-.029	.5
103	MP3B	Y	-62.337	5.5
104	MP3B	My	-.011	5.5
105	MP3B	Mz	-.029	5.5
106	MP3C	Y	-62.337	.5
107	MP3C	My	.031	.5
108	MP3C	Mz	.005	.5
109	MP3C	Y	-62.337	5.5
110	MP3C	My	.031	5.5
111	MP3C	Mz	.005	5.5
112	LR1	Y	-24	1
113	LR1	My	0	1
114	LR1	Mz	0	1

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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
1	MP2A	X	0	.5
2	MP2A	Z	-158.92	.5
3	MP2A	Mx	.119	.5
4	MP2A	X	0	5.5
5	MP2A	Z	-158.92	5.5
6	MP2A	Mx	.119	5.5
7	MP2B	X	0	.5
8	MP2B	Z	-110.757	.5
9	MP2B	Mx	.08	.5
10	MP2B	X	0	5.5
11	MP2B	Z	-110.757	5.5
12	MP2B	Mx	.08	5.5
13	MP2C	X	0	.5
14	MP2C	Z	-157.275	.5
15	MP2C	Mx	-.13	.5
16	MP2C	X	0	5.5
17	MP2C	Z	-157.275	5.5
18	MP2C	Mx	-.13	5.5
19	MP2A	X	0	.5
20	MP2A	Z	-158.92	.5
21	MP2A	Mx	-.119	.5
22	MP2A	X	0	5.5
23	MP2A	Z	-158.92	5.5



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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
24	MP2A	Mx	-.119	5.5
25	MP2B	X	0	.5
26	MP2B	Z	-110.757	.5
27	MP2B	Mx	.024	.5
28	MP2B	X	0	5.5
29	MP2B	Z	-110.757	5.5
30	MP2B	Mx	.024	5.5
31	MP2C	X	0	.5
32	MP2C	Z	-157.275	.5
33	MP2C	Mx	.103	.5
34	MP2C	X	0	5.5
35	MP2C	Z	-157.275	5.5
36	MP2C	Mx	.103	5.5
37	MP5A	X	0	2
38	MP5A	Z	-72.046	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	-72.046	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	-51.684	2
45	MP5B	Mx	.024	2
46	MP5B	X	0	4
47	MP5B	Z	-51.684	4
48	MP5B	Mx	.024	4
49	MP5C	X	0	2
50	MP5C	Z	-71.351	2
51	MP5C	Mx	-.006	2
52	MP5C	X	0	4
53	MP5C	Z	-71.351	4
54	MP5C	Mx	-.006	4
55	MP2A	X	0	3
56	MP2A	Z	-12.909	3
57	MP2A	Mx	.005	3
58	MP2B	X	0	3
59	MP2B	Z	-9.397	3
60	MP2B	Mx	-.003	3
61	MP2C	X	0	3
62	MP2C	Z	-12.789	3
63	MP2C	Mx	-.004	3
64	MP2A	X	0	3
65	MP2A	Z	-54.078	3
66	MP2A	Mx	-.032	3
67	MP2B	X	0	3
68	MP2B	Z	-38.366	3
69	MP2B	Mx	-.026	3
70	MP2C	X	0	3
71	MP2C	Z	-53.542	3
72	MP2C	Mx	.035	3
73	MP3A	X	0	3
74	MP3A	Z	-54.078	3
75	MP3A	Mx	0	3





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft. %]
76	MP3B	X	0	3
77	MP3B	Z	-32.513	3
78	MP3B	Mx	-.015	3
79	MP3C	X	0	3
80	MP3C	Z	-53.342	3
81	MP3C	Mx	.005	3
82	OVP2	X	0	1
83	OVP2	Z	-99.643	1
84	OVP2	Mx	0	1
85	MP2A	X	0	.25
86	MP2A	Z	-33.494	.25
87	MP2A	Mx	0	.25
88	MP2B	X	0	.25
89	MP2B	Z	-13.629	.25
90	MP2B	Mx	-.006	.25
91	MP2C	X	0	.25
92	MP2C	Z	-32.815	.25
93	MP2C	Mx	.003	.25
94	MP3A	X	0	.5
95	MP3A	Z	-96.12	.5
96	MP3A	Mx	0	.5
97	MP3A	X	0	5.5
98	MP3A	Z	-96.12	5.5
99	MP3A	Mx	0	5.5
100	MP3B	X	0	.5
101	MP3B	Z	-47.751	.5
102	MP3B	Mx	.022	.5
103	MP3B	X	0	5.5
104	MP3B	Z	-47.751	5.5
105	MP3B	Mx	.022	5.5
106	MP3C	X	0	.5
107	MP3C	Z	-94.468	.5
108	MP3C	Mx	-.008	.5
109	MP3C	X	0	5.5
110	MP3C	Z	-94.468	5.5
111	MP3C	Mx	-.008	5.5
112	LR1	X	0	1
113	LR1	Z	-63.469	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft. %]
1	MP2A	X	72.642	.5
2	MP2A	Z	-125.82	.5
3	MP2A	Mx	.058	.5
4	MP2A	X	72.642	5.5
5	MP2A	Z	-125.82	5.5
6	MP2A	Mx	.058	5.5
7	MP2B	X	68.192	.5
8	MP2B	Z	-118.112	.5
9	MP2B	Mx	.122	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
10	MP2B	X	68.192	5.5
11	MP2B	Z	-118.112	5.5
12	MP2B	Mx	.122	5.5
13	MP2C	X	76.27	.5
14	MP2C	Z	-132.103	.5
15	MP2C	Mx	-.081	.5
16	MP2C	X	76.27	5.5
17	MP2C	Z	-132.103	5.5
18	MP2C	Mx	-.081	5.5
19	MP2A	X	72.642	.5
20	MP2A	Z	-125.82	.5
21	MP2A	Mx	-.131	.5
22	MP2A	X	72.642	5.5
23	MP2A	Z	-125.82	5.5
24	MP2A	Mx	-.131	5.5
25	MP2B	X	68.192	.5
26	MP2B	Z	-118.112	.5
27	MP2B	Mx	-.035	.5
28	MP2B	X	68.192	5.5
29	MP2B	Z	-118.112	5.5
30	MP2B	Mx	-.035	5.5
31	MP2C	X	76.27	.5
32	MP2C	Z	-132.103	.5
33	MP2C	Mx	.134	.5
34	MP2C	X	76.27	5.5
35	MP2C	Z	-132.103	5.5
36	MP2C	Mx	.134	5.5
37	MP5A	X	33.141	2
38	MP5A	Z	-57.401	2
39	MP5A	Mx	-.017	2
40	MP5A	X	33.141	4
41	MP5A	Z	-57.401	4
42	MP5A	Mx	-.017	4
43	MP5B	X	31.259	2
44	MP5B	Z	-54.143	2
45	MP5B	Mx	.02	2
46	MP5B	X	31.259	4
47	MP5B	Z	-54.143	4
48	MP5B	Mx	.02	4
49	MP5C	X	34.674	2
50	MP5C	Z	-60.058	2
51	MP5C	Mx	.012	2
52	MP5C	X	34.674	4
53	MP5C	Z	-60.058	4
54	MP5C	Mx	.012	4
55	MP2A	X	5.957	3
56	MP2A	Z	-10.318	3
57	MP2A	Mx	.007	3
58	MP2B	X	5.633	3
59	MP2B	Z	-9.756	3
60	MP2B	Mx	-2.5e-5	3
61	MP2C	X	6.222	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
62	MP2C	Z	-10.777	3
63	MP2C	Mx	-.007	3
64	MP2A	X	24.815	3
65	MP2A	Z	-42.981	3
66	MP2A	Mx	-.013	3
67	MP2B	X	23.363	3
68	MP2B	Z	-40.466	3
69	MP2B	Mx	-.036	3
70	MP2C	X	25.998	3
71	MP2C	Z	-45.03	3
72	MP2C	Mx	.02	3
73	MP3A	X	23.986	3
74	MP3A	Z	-41.545	3
75	MP3A	Mx	.012	3
76	MP3B	X	21.994	3
77	MP3B	Z	-38.094	3
78	MP3B	Mx	-.014	3
79	MP3C	X	25.611	3
80	MP3C	Z	-44.359	3
81	MP3C	Mx	-.009	3
82	OVP2	X	43.592	1
83	OVP2	Z	-75.504	1
84	OVP2	Mx	0	1
85	MP2A	X	13.935	.25
86	MP2A	Z	-24.136	.25
87	MP2A	Mx	.007	.25
88	MP2B	X	12.099	.25
89	MP2B	Z	-20.957	.25
90	MP2B	Mx	-.008	.25
91	MP2C	X	15.431	.25
92	MP2C	Z	-26.727	.25
93	MP2C	Mx	-.005	.25
94	MP3A	X	41.213	.5
95	MP3A	Z	-71.383	.5
96	MP3A	Mx	-.021	.5
97	MP3A	X	41.213	5.5
98	MP3A	Z	-71.383	5.5
99	MP3A	Mx	-.021	5.5
100	MP3B	X	36.744	.5
101	MP3B	Z	-63.642	.5
102	MP3B	Mx	.024	.5
103	MP3B	X	36.744	5.5
104	MP3B	Z	-63.642	5.5
105	MP3B	Mx	.024	5.5
106	MP3C	X	44.856	.5
107	MP3C	Z	-77.693	.5
108	MP3C	Mx	.015	.5
109	MP3C	X	44.856	5.5
110	MP3C	Z	-77.693	5.5
111	MP3C	Mx	.015	5.5
112	LR1	X	6.326	1
113	LR1	Z	-10.957	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	102.202	.5
2	MP2A	Z	-59.006	.5
3	MP2A	Mx	-.007	.5
4	MP2A	X	102.202	5.5
5	MP2A	Z	-59.006	5.5
6	MP2A	Mx	-.007	5.5
7	MP2B	X	136.204	.5
8	MP2B	Z	-78.638	.5
9	MP2B	Mx	.13	.5
10	MP2B	X	136.204	5.5
11	MP2B	Z	-78.638	5.5
12	MP2B	Mx	.13	5.5
13	MP2C	X	109.91	.5
14	MP2C	Z	-63.456	.5
15	MP2C	Mx	-.013	.5
16	MP2C	X	109.91	5.5
17	MP2C	Z	-63.456	5.5
18	MP2C	Mx	-.013	5.5
19	MP2A	X	102.202	.5
20	MP2A	Z	-59.006	.5
21	MP2A	Mx	-.095	.5
22	MP2A	X	102.202	5.5
23	MP2A	Z	-59.006	5.5
24	MP2A	Mx	-.095	5.5
25	MP2B	X	136.204	.5
26	MP2B	Z	-78.638	.5
27	MP2B	Mx	-.103	.5
28	MP2B	X	136.204	5.5
29	MP2B	Z	-78.638	5.5
30	MP2B	Mx	-.103	5.5
31	MP2C	X	109.91	.5
32	MP2C	Z	-63.456	.5
33	MP2C	Mx	.11	.5
34	MP2C	X	109.91	5.5
35	MP2C	Z	-63.456	5.5
36	MP2C	Mx	.11	5.5
37	MP5A	X	47.416	2
38	MP5A	Z	-27.376	2
39	MP5A	Mx	-.024	2
40	MP5A	X	47.416	4
41	MP5A	Z	-27.376	4
42	MP5A	Mx	-.024	4
43	MP5B	X	61.792	2
44	MP5B	Z	-35.675	2
45	MP5B	Mx	.006	2
46	MP5B	X	61.792	4
47	MP5B	Z	-35.675	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
48	MP5B	Mx	.006	4
49	MP5C	X	50.675	2
50	MP5C	Z	-29.257	2
51	MP5C	Mx	.022	2
52	MP5C	X	50.675	4
53	MP5C	Z	-29.257	4
54	MP5C	Mx	.022	4
55	MP2A	X	8.596	3
56	MP2A	Z	-4.963	3
57	MP2A	Mx	.006	3
58	MP2B	X	11.076	3
59	MP2B	Z	-6.395	3
60	MP2B	Mx	.004	3
61	MP2C	X	9.158	3
62	MP2C	Z	-5.287	3
63	MP2C	Mx	-.007	3
64	MP2A	X	35.276	3
65	MP2A	Z	-20.367	3
66	MP2A	Mx	.006	3
67	MP2B	X	46.368	3
68	MP2B	Z	-26.771	3
69	MP2B	Mx	-.035	3
70	MP2C	X	37.79	3
71	MP2C	Z	-21.818	3
72	MP2C	Mx	-.000352	3
73	MP3A	X	30.97	3
74	MP3A	Z	-17.881	3
75	MP3A	Mx	.015	3
76	MP3B	X	46.195	3
77	MP3B	Z	-26.671	3
78	MP3B	Mx	-.005	3
79	MP3C	X	34.421	3
80	MP3C	Z	-19.873	3
81	MP3C	Mx	-.015	3
82	OVP2	X	73.51	1
83	OVP2	Z	-42.441	1
84	OVP2	Mx	0	1
85	MP2A	X	14.395	.25
86	MP2A	Z	-8.311	.25
87	MP2A	Mx	.007	.25
88	MP2B	X	28.419	.25
89	MP2B	Z	-16.408	.25
90	MP2B	Mx	-.003	.25
91	MP2C	X	17.574	.25
92	MP2C	Z	-10.146	.25
93	MP2C	Mx	-.008	.25
94	MP3A	X	47.664	.5
95	MP3A	Z	-27.519	.5
96	MP3A	Mx	-.024	.5
97	MP3A	X	47.664	5.5
98	MP3A	Z	-27.519	5.5
99	MP3A	Mx	-.024	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP3B	X	81.812	.5
101	MP3B	Z	-47.234	.5
102	MP3B	Mx	.008	.5
103	MP3B	X	81.812	5.5
104	MP3B	Z	-47.234	5.5
105	MP3B	Mx	.008	5.5
106	MP3C	X	55.405	.5
107	MP3C	Z	-31.988	.5
108	MP3C	Mx	.025	.5
109	MP3C	X	55.405	5.5
110	MP3C	Z	-31.988	5.5
111	MP3C	Mx	.025	5.5
112	LR1	X	2.824	1
113	LR1	Z	-1.631	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	104.377	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.052	.5
4	MP2A	X	104.377	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.052	5.5
7	MP2B	X	152.54	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.081	.5
10	MP2B	X	152.54	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.081	5.5
13	MP2C	X	106.021	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.038	.5
16	MP2C	X	106.021	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.038	5.5
19	MP2A	X	104.377	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.052	.5
22	MP2A	X	104.377	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.052	5.5
25	MP2B	X	152.54	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.134	.5
28	MP2B	X	152.54	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.134	5.5
31	MP2C	X	106.021	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.066	.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	MP2C	X	106.021	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.066	5.5
37	MP5A	X	48.986	2
38	MP5A	Z	0	2
39	MP5A	Mx	-.024	2
40	MP5A	X	48.986	4
41	MP5A	Z	0	4
42	MP5A	Mx	-.024	4
43	MP5B	X	69.349	2
44	MP5B	Z	0	2
45	MP5B	Mx	-.012	2
46	MP5B	X	69.349	4
47	MP5B	Z	0	4
48	MP5B	Mx	-.012	4
49	MP5C	X	49.682	2
50	MP5C	Z	0	2
51	MP5C	Mx	.024	2
52	MP5C	X	49.682	4
53	MP5C	Z	0	4
54	MP5C	Mx	.024	4
55	MP2A	X	8.932	3
56	MP2A	Z	0	3
57	MP2A	Mx	.004	3
58	MP2B	X	12.444	3
59	MP2B	Z	0	3
60	MP2B	Mx	.007	3
61	MP2C	X	9.052	3
62	MP2C	Z	0	3
63	MP2C	Mx	-.005	3
64	MP2A	X	36.285	3
65	MP2A	Z	0	3
66	MP2A	Mx	.018	3
67	MP2B	X	51.997	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.02	3
70	MP2C	X	36.821	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.014	3
73	MP3A	X	29.656	3
74	MP3A	Z	0	3
75	MP3A	Mx	.015	3
76	MP3B	X	51.221	3
77	MP3B	Z	0	3
78	MP3B	Mx	.009	3
79	MP3C	X	30.392	3
80	MP3C	Z	0	3
81	MP3C	Mx	-.015	3
82	OVP2	X	95.038	1
83	OVP2	Z	0	1
84	OVP2	Mx	0	1
85	MP2A	X	10.998	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
86	MP2A	Z	0	.25
87	MP2A	Mx	.005	.25
88	MP2B	X	30.862	.25
89	MP2B	Z	0	.25
90	MP2B	Mx	.005	.25
91	MP2C	X	11.676	.25
92	MP2C	Z	0	.25
93	MP2C	Mx	-.006	.25
94	MP3A	X	41.344	.5
95	MP3A	Z	0	.5
96	MP3A	Mx	-.021	.5
97	MP3A	X	41.344	5.5
98	MP3A	Z	0	5.5
99	MP3A	Mx	-.021	5.5
100	MP3B	X	89.712	.5
101	MP3B	Z	0	.5
102	MP3B	Mx	-.015	.5
103	MP3B	X	89.712	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	-.015	5.5
106	MP3C	X	42.995	.5
107	MP3C	Z	0	.5
108	MP3C	Mx	.021	.5
109	MP3C	X	42.995	5.5
110	MP3C	Z	0	5.5
111	MP3C	Mx	.021	5.5
112	LR1	X	44.688	1
113	LR1	Z	0	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	102.202	.5
2	MP2A	Z	59.006	.5
3	MP2A	Mx	-.095	.5
4	MP2A	X	102.202	5.5
5	MP2A	Z	59.006	5.5
6	MP2A	Mx	-.095	5.5
7	MP2B	X	109.91	.5
8	MP2B	Z	63.456	.5
9	MP2B	Mx	.013	.5
10	MP2B	X	109.91	5.5
11	MP2B	Z	63.456	5.5
12	MP2B	Mx	.013	5.5
13	MP2C	X	95.918	.5
14	MP2C	Z	55.378	.5
15	MP2C	Mx	.08	.5
16	MP2C	X	95.918	5.5
17	MP2C	Z	55.378	5.5
18	MP2C	Mx	.08	5.5
19	MP2A	X	102.202	.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
20	MP2A	Z	59.006	.5
21	MP2A	Mx	-.007	.5
22	MP2A	X	102.202	5.5
23	MP2A	Z	59.006	5.5
24	MP2A	Mx	-.007	5.5
25	MP2B	X	109.91	.5
26	MP2B	Z	63.456	.5
27	MP2B	Mx	-.11	.5
28	MP2B	X	109.91	5.5
29	MP2B	Z	63.456	5.5
30	MP2B	Mx	-.11	5.5
31	MP2C	X	95.918	.5
32	MP2C	Z	55.378	.5
33	MP2C	Mx	.024	.5
34	MP2C	X	95.918	5.5
35	MP2C	Z	55.378	5.5
36	MP2C	Mx	.024	5.5
37	MP5A	X	47.416	2
38	MP5A	Z	27.376	2
39	MP5A	Mx	-.024	2
40	MP5A	X	47.416	4
41	MP5A	Z	27.376	4
42	MP5A	Mx	-.024	4
43	MP5B	X	50.675	2
44	MP5B	Z	29.257	2
45	MP5B	Mx	-.022	2
46	MP5B	X	50.675	4
47	MP5B	Z	29.257	4
48	MP5B	Mx	-.022	4
49	MP5C	X	44.76	2
50	MP5C	Z	25.842	2
51	MP5C	Mx	.024	2
52	MP5C	X	44.76	4
53	MP5C	Z	25.842	4
54	MP5C	Mx	.024	4
55	MP2A	X	8.596	3
56	MP2A	Z	4.963	3
57	MP2A	Mx	.002	3
58	MP2B	X	9.158	3
59	MP2B	Z	5.287	3
60	MP2B	Mx	.007	3
61	MP2C	X	8.138	3
62	MP2C	Z	4.698	3
63	MP2C	Mx	-.003	3
64	MP2A	X	35.276	3
65	MP2A	Z	20.367	3
66	MP2A	Mx	.03	3
67	MP2B	X	37.79	3
68	MP2B	Z	21.818	3
69	MP2B	Mx	.000352	3
70	MP2C	X	33.226	3
71	MP2C	Z	19.183	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
72	MP2C	Mx	-.026	3
73	MP3A	X	30.97	3
74	MP3A	Z	17.881	3
75	MP3A	Mx	.015	3
76	MP3B	X	34.421	3
77	MP3B	Z	19.873	3
78	MP3B	Mx	.015	3
79	MP3C	X	28.157	3
80	MP3C	Z	16.256	3
81	MP3C	Mx	-.015	3
82	OVP2	X	93.095	1
83	OVP2	Z	53.748	1
84	OVP2	Mx	0	1
85	MP2A	X	14.395	.25
86	MP2A	Z	8.311	.25
87	MP2A	Mx	.007	.25
88	MP2B	X	17.574	.25
89	MP2B	Z	10.146	.25
90	MP2B	Mx	.008	.25
91	MP2C	X	11.803	.25
92	MP2C	Z	6.815	.25
93	MP2C	Mx	-.006	.25
94	MP3A	X	47.664	.5
95	MP3A	Z	27.519	.5
96	MP3A	Mx	-.024	.5
97	MP3A	X	47.664	5.5
98	MP3A	Z	27.519	5.5
99	MP3A	Mx	-.024	5.5
100	MP3B	X	55.405	.5
101	MP3B	Z	31.988	.5
102	MP3B	Mx	-.025	.5
103	MP3B	X	55.405	5.5
104	MP3B	Z	31.988	5.5
105	MP3B	Mx	-.025	5.5
106	MP3C	X	41.354	.5
107	MP3C	Z	23.876	.5
108	MP3C	Mx	.022	.5
109	MP3C	X	41.354	5.5
110	MP3C	Z	23.876	5.5
111	MP3C	Mx	.022	5.5
112	LR1	X	82.709	1
113	LR1	Z	47.752	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	72.642	.5
2	MP2A	Z	125.82	.5
3	MP2A	Mx	-.131	.5
4	MP2A	X	72.642	5.5
5	MP2A	Z	125.82	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
6	MP2A	Mx	- .131	5.5
7	MP2B	X	53.011	.5
8	MP2B	Z	91.817	.5
9	MP2B	Mx	-.038	.5
10	MP2B	X	53.011	5.5
11	MP2B	Z	91.817	5.5
12	MP2B	Mx	-.038	5.5
13	MP2C	X	68.192	.5
14	MP2C	Z	118.112	.5
15	MP2C	Mx	.122	.5
16	MP2C	X	68.192	5.5
17	MP2C	Z	118.112	5.5
18	MP2C	Mx	.122	5.5
19	MP2A	X	72.642	.5
20	MP2A	Z	125.82	.5
21	MP2A	Mx	.058	.5
22	MP2A	X	72.642	5.5
23	MP2A	Z	125.82	5.5
24	MP2A	Mx	.058	5.5
25	MP2B	X	53.011	.5
26	MP2B	Z	91.817	.5
27	MP2B	Mx	-.066	.5
28	MP2B	X	53.011	5.5
29	MP2B	Z	91.817	5.5
30	MP2B	Mx	-.066	5.5
31	MP2C	X	68.192	.5
32	MP2C	Z	118.112	.5
33	MP2C	Mx	-.035	.5
34	MP2C	X	68.192	5.5
35	MP2C	Z	118.112	5.5
36	MP2C	Mx	-.035	5.5
37	MP5A	X	33.141	2
38	MP5A	Z	57.401	2
39	MP5A	Mx	-.017	2
40	MP5A	X	33.141	4
41	MP5A	Z	57.401	4
42	MP5A	Mx	-.017	4
43	MP5B	X	24.841	2
44	MP5B	Z	43.026	2
45	MP5B	Mx	-.024	2
46	MP5B	X	24.841	4
47	MP5B	Z	43.026	4
48	MP5B	Mx	-.024	4
49	MP5C	X	31.259	2
50	MP5C	Z	54.143	2
51	MP5C	Mx	.02	2
52	MP5C	X	31.259	4
53	MP5C	Z	54.143	4
54	MP5C	Mx	.02	4
55	MP2A	X	5.957	3
56	MP2A	Z	10.318	3
57	MP2A	Mx	-.001	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
58	MP2B	X	4.526	3
59	MP2B	Z	7.839	3
60	MP2B	Mx	.005	3
61	MP2C	X	5.633	3
62	MP2C	Z	9.756	3
63	MP2C	Mx	-2.5e-5	3
64	MP2A	X	24.815	3
65	MP2A	Z	42.981	3
66	MP2A	Mx	.037	3
67	MP2B	X	18.411	3
68	MP2B	Z	31.888	3
69	MP2B	Mx	.014	3
70	MP2C	X	23.363	3
71	MP2C	Z	40.466	3
72	MP2C	Mx	-.036	3
73	MP3A	X	23.986	3
74	MP3A	Z	41.545	3
75	MP3A	Mx	.012	3
76	MP3B	X	15.196	3
77	MP3B	Z	26.32	3
78	MP3B	Mx	.015	3
79	MP3C	X	21.994	3
80	MP3C	Z	38.094	3
81	MP3C	Mx	-.014	3
82	OVP2	X	54.899	1
83	OVP2	Z	95.089	1
84	OVP2	Mx	0	1
85	MP2A	X	13.935	.25
86	MP2A	Z	24.136	.25
87	MP2A	Mx	.007	.25
88	MP2B	X	5.838	.25
89	MP2B	Z	10.112	.25
90	MP2B	Mx	.006	.25
91	MP2C	X	12.099	.25
92	MP2C	Z	20.957	.25
93	MP2C	Mx	-.008	.25
94	MP3A	X	41.213	.5
95	MP3A	Z	71.383	.5
96	MP3A	Mx	-.021	.5
97	MP3A	X	41.213	5.5
98	MP3A	Z	71.383	5.5
99	MP3A	Mx	-.021	5.5
100	MP3B	X	21.498	.5
101	MP3B	Z	37.235	.5
102	MP3B	Mx	-.021	.5
103	MP3B	X	21.498	5.5
104	MP3B	Z	37.235	5.5
105	MP3B	Mx	-.021	5.5
106	MP3C	X	36.744	.5
107	MP3C	Z	63.642	.5
108	MP3C	Mx	.024	.5
109	MP3C	X	36.744	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
110	MP3C	Z	63.642	5.5
111	MP3C	Mx	.024	5.5
112	LR1	X	52.447	1
113	LR1	Z	90.842	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	.5
2	MP2A	Z	158.92	.5
3	MP2A	Mx	-.119	.5
4	MP2A	X	0	5.5
5	MP2A	Z	158.92	5.5
6	MP2A	Mx	-.119	5.5
7	MP2B	X	0	.5
8	MP2B	Z	110.757	.5
9	MP2B	Mx	-.08	.5
10	MP2B	X	0	5.5
11	MP2B	Z	110.757	5.5
12	MP2B	Mx	-.08	5.5
13	MP2C	X	0	.5
14	MP2C	Z	157.275	.5
15	MP2C	Mx	.13	.5
16	MP2C	X	0	5.5
17	MP2C	Z	157.275	5.5
18	MP2C	Mx	.13	5.5
19	MP2A	X	0	.5
20	MP2A	Z	158.92	.5
21	MP2A	Mx	.119	.5
22	MP2A	X	0	5.5
23	MP2A	Z	158.92	5.5
24	MP2A	Mx	.119	5.5
25	MP2B	X	0	.5
26	MP2B	Z	110.757	.5
27	MP2B	Mx	-.024	.5
28	MP2B	X	0	5.5
29	MP2B	Z	110.757	5.5
30	MP2B	Mx	-.024	5.5
31	MP2C	X	0	.5
32	MP2C	Z	157.275	.5
33	MP2C	Mx	-.103	.5
34	MP2C	X	0	5.5
35	MP2C	Z	157.275	5.5
36	MP2C	Mx	-.103	5.5
37	MP5A	X	0	2
38	MP5A	Z	72.046	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	72.046	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
44	MP5B	Z	51.684	2
45	MP5B	Mx	-.024	2
46	MP5B	X	0	4
47	MP5B	Z	51.684	4
48	MP5B	Mx	-.024	4
49	MP5C	X	0	2
50	MP5C	Z	71.351	2
51	MP5C	Mx	.006	2
52	MP5C	X	0	4
53	MP5C	Z	71.351	4
54	MP5C	Mx	.006	4
55	MP2A	X	0	3
56	MP2A	Z	12.909	3
57	MP2A	Mx	-.005	3
58	MP2B	X	0	3
59	MP2B	Z	9.397	3
60	MP2B	Mx	.003	3
61	MP2C	X	0	3
62	MP2C	Z	12.789	3
63	MP2C	Mx	.004	3
64	MP2A	X	0	3
65	MP2A	Z	54.078	3
66	MP2A	Mx	.032	3
67	MP2B	X	0	3
68	MP2B	Z	38.366	3
69	MP2B	Mx	.026	3
70	MP2C	X	0	3
71	MP2C	Z	53.542	3
72	MP2C	Mx	-.035	3
73	MP3A	X	0	3
74	MP3A	Z	54.078	3
75	MP3A	Mx	0	3
76	MP3B	X	0	3
77	MP3B	Z	32.513	3
78	MP3B	Mx	.015	3
79	MP3C	X	0	3
80	MP3C	Z	53.342	3
81	MP3C	Mx	-.005	3
82	OVP2	X	0	1
83	OVP2	Z	99.643	1
84	OVP2	Mx	0	1
85	MP2A	X	0	.25
86	MP2A	Z	33.494	.25
87	MP2A	Mx	0	.25
88	MP2B	X	0	.25
89	MP2B	Z	13.629	.25
90	MP2B	Mx	.006	.25
91	MP2C	X	0	.25
92	MP2C	Z	32.815	.25
93	MP2C	Mx	-.003	.25
94	MP3A	X	0	.5
95	MP3A	Z	96.12	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
96	MP3A	Mx	0	.5
97	MP3A	X	0	5.5
98	MP3A	Z	96.12	5.5
99	MP3A	Mx	0	5.5
100	MP3B	X	0	.5
101	MP3B	Z	47.751	.5
102	MP3B	Mx	-.022	.5
103	MP3B	X	0	5.5
104	MP3B	Z	47.751	5.5
105	MP3B	Mx	-.022	5.5
106	MP3C	X	0	.5
107	MP3C	Z	94.468	.5
108	MP3C	Mx	.008	.5
109	MP3C	X	0	5.5
110	MP3C	Z	94.468	5.5
111	MP3C	Mx	.008	5.5
112	LR1	X	0	1
113	LR1	Z	63.469	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-72.642	.5
2	MP2A	Z	125.82	.5
3	MP2A	Mx	-.058	.5
4	MP2A	X	-72.642	5.5
5	MP2A	Z	125.82	5.5
6	MP2A	Mx	-.058	5.5
7	MP2B	X	-68.192	.5
8	MP2B	Z	118.112	.5
9	MP2B	Mx	-.122	.5
10	MP2B	X	-68.192	5.5
11	MP2B	Z	118.112	5.5
12	MP2B	Mx	-.122	5.5
13	MP2C	X	-76.27	.5
14	MP2C	Z	132.103	.5
15	MP2C	Mx	.081	.5
16	MP2C	X	-76.27	5.5
17	MP2C	Z	132.103	5.5
18	MP2C	Mx	.081	5.5
19	MP2A	X	-72.642	.5
20	MP2A	Z	125.82	.5
21	MP2A	Mx	.131	.5
22	MP2A	X	-72.642	5.5
23	MP2A	Z	125.82	5.5
24	MP2A	Mx	.131	5.5
25	MP2B	X	-68.192	.5
26	MP2B	Z	118.112	.5
27	MP2B	Mx	.035	.5
28	MP2B	X	-68.192	5.5
29	MP2B	Z	118.112	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
30	MP2B	Mx	.035	5.5
31	MP2C	X	-76.27	.5
32	MP2C	Z	132.103	.5
33	MP2C	Mx	-.134	.5
34	MP2C	X	-76.27	5.5
35	MP2C	Z	132.103	5.5
36	MP2C	Mx	-.134	5.5
37	MP5A	X	-33.141	2
38	MP5A	Z	57.401	2
39	MP5A	Mx	.017	2
40	MP5A	X	-33.141	4
41	MP5A	Z	57.401	4
42	MP5A	Mx	.017	4
43	MP5B	X	-31.259	2
44	MP5B	Z	54.143	2
45	MP5B	Mx	-.02	2
46	MP5B	X	-31.259	4
47	MP5B	Z	54.143	4
48	MP5B	Mx	-.02	4
49	MP5C	X	-34.674	2
50	MP5C	Z	60.058	2
51	MP5C	Mx	-.012	2
52	MP5C	X	-34.674	4
53	MP5C	Z	60.058	4
54	MP5C	Mx	-.012	4
55	MP2A	X	-5.957	3
56	MP2A	Z	10.318	3
57	MP2A	Mx	-.007	3
58	MP2B	X	-5.633	3
59	MP2B	Z	9.756	3
60	MP2B	Mx	2.5e-5	3
61	MP2C	X	-6.222	3
62	MP2C	Z	10.777	3
63	MP2C	Mx	.007	3
64	MP2A	X	-24.815	3
65	MP2A	Z	42.981	3
66	MP2A	Mx	.013	3
67	MP2B	X	-23.363	3
68	MP2B	Z	40.466	3
69	MP2B	Mx	.036	3
70	MP2C	X	-25.998	3
71	MP2C	Z	45.03	3
72	MP2C	Mx	-.02	3
73	MP3A	X	-23.986	3
74	MP3A	Z	41.545	3
75	MP3A	Mx	-.012	3
76	MP3B	X	-21.994	3
77	MP3B	Z	38.094	3
78	MP3B	Mx	.014	3
79	MP3C	X	-25.611	3
80	MP3C	Z	44.359	3
81	MP3C	Mx	.009	3





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
82	OVP2	X	-43.592	1
83	OVP2	Z	75.504	1
84	OVP2	Mx	0	1
85	MP2A	X	-13.935	.25
86	MP2A	Z	24.136	.25
87	MP2A	Mx	-.007	.25
88	MP2B	X	-12.099	.25
89	MP2B	Z	20.957	.25
90	MP2B	Mx	.008	.25
91	MP2C	X	-15.431	.25
92	MP2C	Z	26.727	.25
93	MP2C	Mx	.005	.25
94	MP3A	X	-41.213	.5
95	MP3A	Z	71.383	.5
96	MP3A	Mx	.021	.5
97	MP3A	X	-41.213	5.5
98	MP3A	Z	71.383	5.5
99	MP3A	Mx	.021	5.5
100	MP3B	X	-36.744	.5
101	MP3B	Z	63.642	.5
102	MP3B	Mx	-.024	.5
103	MP3B	X	-36.744	5.5
104	MP3B	Z	63.642	5.5
105	MP3B	Mx	-.024	5.5
106	MP3C	X	-44.856	.5
107	MP3C	Z	77.693	.5
108	MP3C	Mx	-.015	.5
109	MP3C	X	-44.856	5.5
110	MP3C	Z	77.693	5.5
111	MP3C	Mx	-.015	5.5
112	LR1	X	-6.326	1
113	LR1	Z	10.957	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-102.202	.5
2	MP2A	Z	59.006	.5
3	MP2A	Mx	.007	.5
4	MP2A	X	-102.202	5.5
5	MP2A	Z	59.006	5.5
6	MP2A	Mx	.007	5.5
7	MP2B	X	-136.204	.5
8	MP2B	Z	78.638	.5
9	MP2B	Mx	-.13	.5
10	MP2B	X	-136.204	5.5
11	MP2B	Z	78.638	5.5
12	MP2B	Mx	-.13	5.5
13	MP2C	X	-109.91	.5
14	MP2C	Z	63.456	.5
15	MP2C	Mx	.013	.5



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

	Member Label	Direction	Magnitude[lb, k-ft]	Location[ft, %]
16	MP2C	X	-109.91	5.5
17	MP2C	Z	63.456	5.5
18	MP2C	Mx	.013	5.5
19	MP2A	X	-102.202	.5
20	MP2A	Z	59.006	.5
21	MP2A	Mx	.095	.5
22	MP2A	X	-102.202	5.5
23	MP2A	Z	59.006	5.5
24	MP2A	Mx	.095	5.5
25	MP2B	X	-136.204	.5
26	MP2B	Z	78.638	.5
27	MP2B	Mx	.103	.5
28	MP2B	X	-136.204	5.5
29	MP2B	Z	78.638	5.5
30	MP2B	Mx	.103	5.5
31	MP2C	X	-109.91	.5
32	MP2C	Z	63.456	.5
33	MP2C	Mx	-.11	.5
34	MP2C	X	-109.91	5.5
35	MP2C	Z	63.456	5.5
36	MP2C	Mx	-.11	5.5
37	MP5A	X	-47.416	2
38	MP5A	Z	27.376	2
39	MP5A	Mx	.024	2
40	MP5A	X	-47.416	4
41	MP5A	Z	27.376	4
42	MP5A	Mx	.024	4
43	MP5B	X	-61.792	2
44	MP5B	Z	35.675	2
45	MP5B	Mx	-.006	2
46	MP5B	X	-61.792	4
47	MP5B	Z	35.675	4
48	MP5B	Mx	-.006	4
49	MP5C	X	-50.675	2
50	MP5C	Z	29.257	2
51	MP5C	Mx	-.022	2
52	MP5C	X	-50.675	4
53	MP5C	Z	29.257	4
54	MP5C	Mx	-.022	4
55	MP2A	X	-8.596	3
56	MP2A	Z	4.963	3
57	MP2A	Mx	-.006	3
58	MP2B	X	-11.076	3
59	MP2B	Z	6.395	3
60	MP2B	Mx	-.004	3
61	MP2C	X	-9.158	3
62	MP2C	Z	5.287	3
63	MP2C	Mx	.007	3
64	MP2A	X	-35.276	3
65	MP2A	Z	20.367	3
66	MP2A	Mx	-.006	3
67	MP2B	X	-46.368	3





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	0	.5
3	MP2A	Mx	.052	.5
4	MP2A	X	-104.377	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.052	5.5
7	MP2B	X	-152.54	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.081	.5
10	MP2B	X	-152.54	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.081	5.5
13	MP2C	X	-106.021	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.038	.5
16	MP2C	X	-106.021	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.038	5.5
19	MP2A	X	-104.377	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.052	.5
22	MP2A	X	-104.377	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.052	5.5
25	MP2B	X	-152.54	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.134	.5
28	MP2B	X	-152.54	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.134	5.5
31	MP2C	X	-106.021	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.066	.5
34	MP2C	X	-106.021	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.066	5.5
37	MP5A	X	-48.986	2
38	MP5A	Z	0	2
39	MP5A	Mx	.024	2
40	MP5A	X	-48.986	4
41	MP5A	Z	0	4
42	MP5A	Mx	.024	4
43	MP5B	X	-69.349	2
44	MP5B	Z	0	2
45	MP5B	Mx	.012	2
46	MP5B	X	-69.349	4
47	MP5B	Z	0	4
48	MP5B	Mx	.012	4
49	MP5C	X	-49.682	2
50	MP5C	Z	0	2
51	MP5C	Mx	-.024	2
52	MP5C	X	-49.682	4
53	MP5C	Z	0	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
54	MP5C	Mx	-.024	4
55	MP2A	X	-8.932	3
56	MP2A	Z	0	3
57	MP2A	Mx	-.004	3
58	MP2B	X	-12.444	3
59	MP2B	Z	0	3
60	MP2B	Mx	-.007	3
61	MP2C	X	-9.052	3
62	MP2C	Z	0	3
63	MP2C	Mx	.005	3
64	MP2A	X	-36.285	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.018	3
67	MP2B	X	-51.997	3
68	MP2B	Z	0	3
69	MP2B	Mx	.02	3
70	MP2C	X	-36.821	3
71	MP2C	Z	0	3
72	MP2C	Mx	.014	3
73	MP3A	X	-29.656	3
74	MP3A	Z	0	3
75	MP3A	Mx	-.015	3
76	MP3B	X	-51.221	3
77	MP3B	Z	0	3
78	MP3B	Mx	-.009	3
79	MP3C	X	-30.392	3
80	MP3C	Z	0	3
81	MP3C	Mx	.015	3
82	OVP2	X	-95.038	1
83	OVP2	Z	0	1
84	OVP2	Mx	0	1
85	MP2A	X	-10.998	.25
86	MP2A	Z	0	.25
87	MP2A	Mx	-.005	.25
88	MP2B	X	-30.862	.25
89	MP2B	Z	0	.25
90	MP2B	Mx	-.005	.25
91	MP2C	X	-11.676	.25
92	MP2C	Z	0	.25
93	MP2C	Mx	.006	.25
94	MP3A	X	-41.344	.5
95	MP3A	Z	0	.5
96	MP3A	Mx	.021	.5
97	MP3A	X	-41.344	5.5
98	MP3A	Z	0	5.5
99	MP3A	Mx	.021	5.5
100	MP3B	X	-89.712	.5
101	MP3B	Z	0	.5
102	MP3B	Mx	.015	.5
103	MP3B	X	-89.712	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	.015	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
106	MP3C	X	-42.995	.5
107	MP3C	Z	0	.5
108	MP3C	Mx	-.021	.5
109	MP3C	X	-42.995	5.5
110	MP3C	Z	0	5.5
111	MP3C	Mx	-.021	5.5
112	LR1	X	-44.688	1
113	LR1	Z	0	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-102.202	.5
2	MP2A	Z	-59.006	.5
3	MP2A	Mx	.095	.5
4	MP2A	X	-102.202	5.5
5	MP2A	Z	-59.006	5.5
6	MP2A	Mx	.095	5.5
7	MP2B	X	-109.91	.5
8	MP2B	Z	-63.456	.5
9	MP2B	Mx	-.013	.5
10	MP2B	X	-109.91	5.5
11	MP2B	Z	-63.456	5.5
12	MP2B	Mx	-.013	5.5
13	MP2C	X	-95.918	.5
14	MP2C	Z	-55.378	.5
15	MP2C	Mx	-.08	.5
16	MP2C	X	-95.918	5.5
17	MP2C	Z	-55.378	5.5
18	MP2C	Mx	-.08	5.5
19	MP2A	X	-102.202	.5
20	MP2A	Z	-59.006	.5
21	MP2A	Mx	.007	.5
22	MP2A	X	-102.202	5.5
23	MP2A	Z	-59.006	5.5
24	MP2A	Mx	.007	5.5
25	MP2B	X	-109.91	.5
26	MP2B	Z	-63.456	.5
27	MP2B	Mx	.11	.5
28	MP2B	X	-109.91	5.5
29	MP2B	Z	-63.456	5.5
30	MP2B	Mx	.11	5.5
31	MP2C	X	-95.918	.5
32	MP2C	Z	-55.378	.5
33	MP2C	Mx	-.024	.5
34	MP2C	X	-95.918	5.5
35	MP2C	Z	-55.378	5.5
36	MP2C	Mx	-.024	5.5
37	MP5A	X	-47.416	2
38	MP5A	Z	-27.376	2
39	MP5A	Mx	.024	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
40	MP5A	X	-47.416	4
41	MP5A	Z	-27.376	4
42	MP5A	Mx	.024	4
43	MP5B	X	-50.675	2
44	MP5B	Z	-29.257	2
45	MP5B	Mx	.022	2
46	MP5B	X	-50.675	4
47	MP5B	Z	-29.257	4
48	MP5B	Mx	.022	4
49	MP5C	X	-44.76	2
50	MP5C	Z	-25.842	2
51	MP5C	Mx	-.024	2
52	MP5C	X	-44.76	4
53	MP5C	Z	-25.842	4
54	MP5C	Mx	-.024	4
55	MP2A	X	-8.596	3
56	MP2A	Z	-4.963	3
57	MP2A	Mx	-.002	3
58	MP2B	X	-9.158	3
59	MP2B	Z	-5.287	3
60	MP2B	Mx	-.007	3
61	MP2C	X	-8.138	3
62	MP2C	Z	-4.698	3
63	MP2C	Mx	.003	3
64	MP2A	X	-35.276	3
65	MP2A	Z	-20.367	3
66	MP2A	Mx	-.03	3
67	MP2B	X	-37.79	3
68	MP2B	Z	-21.818	3
69	MP2B	Mx	-.000352	3
70	MP2C	X	-33.226	3
71	MP2C	Z	-19.183	3
72	MP2C	Mx	.026	3
73	MP3A	X	-30.97	3
74	MP3A	Z	-17.881	3
75	MP3A	Mx	-.015	3
76	MP3B	X	-34.421	3
77	MP3B	Z	-19.873	3
78	MP3B	Mx	-.015	3
79	MP3C	X	-28.157	3
80	MP3C	Z	-16.256	3
81	MP3C	Mx	.015	3
82	OVP2	X	-93.095	1
83	OVP2	Z	-53.748	1
84	OVP2	Mx	0	1
85	MP2A	X	-14.395	.25
86	MP2A	Z	-8.311	.25
87	MP2A	Mx	-.007	.25
88	MP2B	X	-17.574	.25
89	MP2B	Z	-10.146	.25
90	MP2B	Mx	-.008	.25
91	MP2C	X	-11.803	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
92	MP2C	Z	-6.815	.25
93	MP2C	Mx	.006	.25
94	MP3A	X	-47.664	.5
95	MP3A	Z	-27.519	.5
96	MP3A	Mx	.024	.5
97	MP3A	X	-47.664	5.5
98	MP3A	Z	-27.519	5.5
99	MP3A	Mx	.024	5.5
100	MP3B	X	-55.405	.5
101	MP3B	Z	-31.988	.5
102	MP3B	Mx	.025	.5
103	MP3B	X	-55.405	5.5
104	MP3B	Z	-31.988	5.5
105	MP3B	Mx	.025	5.5
106	MP3C	X	-41.354	.5
107	MP3C	Z	-23.876	.5
108	MP3C	Mx	-.022	.5
109	MP3C	X	-41.354	5.5
110	MP3C	Z	-23.876	5.5
111	MP3C	Mx	-.022	5.5
112	LR1	X	-82.709	1
113	LR1	Z	-47.752	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-72.642	.5
2	MP2A	Z	-125.82	.5
3	MP2A	Mx	.131	.5
4	MP2A	X	-72.642	5.5
5	MP2A	Z	-125.82	5.5
6	MP2A	Mx	.131	5.5
7	MP2B	X	-53.011	.5
8	MP2B	Z	-91.817	.5
9	MP2B	Mx	.038	.5
10	MP2B	X	-53.011	5.5
11	MP2B	Z	-91.817	5.5
12	MP2B	Mx	.038	5.5
13	MP2C	X	-68.192	.5
14	MP2C	Z	-118.112	.5
15	MP2C	Mx	-.122	.5
16	MP2C	X	-68.192	5.5
17	MP2C	Z	-118.112	5.5
18	MP2C	Mx	-.122	5.5
19	MP2A	X	-72.642	.5
20	MP2A	Z	-125.82	.5
21	MP2A	Mx	-.058	.5
22	MP2A	X	-72.642	5.5
23	MP2A	Z	-125.82	5.5
24	MP2A	Mx	-.058	5.5
25	MP2B	X	-53.011	.5





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
26	MP2B	Z	-91.817	.5
27	MP2B	Mx	.066	.5
28	MP2B	X	-53.011	5.5
29	MP2B	Z	-91.817	5.5
30	MP2B	Mx	.066	5.5
31	MP2C	X	-68.192	.5
32	MP2C	Z	-118.112	.5
33	MP2C	Mx	.035	.5
34	MP2C	X	-68.192	5.5
35	MP2C	Z	-118.112	5.5
36	MP2C	Mx	.035	5.5
37	MP5A	X	-33.141	2
38	MP5A	Z	-57.401	2
39	MP5A	Mx	.017	2
40	MP5A	X	-33.141	4
41	MP5A	Z	-57.401	4
42	MP5A	Mx	.017	4
43	MP5B	X	-24.841	2
44	MP5B	Z	-43.026	2
45	MP5B	Mx	.024	2
46	MP5B	X	-24.841	4
47	MP5B	Z	-43.026	4
48	MP5B	Mx	.024	4
49	MP5C	X	-31.259	2
50	MP5C	Z	-54.143	2
51	MP5C	Mx	-.02	2
52	MP5C	X	-31.259	4
53	MP5C	Z	-54.143	4
54	MP5C	Mx	-.02	4
55	MP2A	X	-5.957	3
56	MP2A	Z	-10.318	3
57	MP2A	Mx	.001	3
58	MP2B	X	-4.526	3
59	MP2B	Z	-7.839	3
60	MP2B	Mx	-.005	3
61	MP2C	X	-5.633	3
62	MP2C	Z	-9.756	3
63	MP2C	Mx	2.5e-5	3
64	MP2A	X	-24.815	3
65	MP2A	Z	-42.981	3
66	MP2A	Mx	-.037	3
67	MP2B	X	-18.411	3
68	MP2B	Z	-31.888	3
69	MP2B	Mx	-.014	3
70	MP2C	X	-23.363	3
71	MP2C	Z	-40.466	3
72	MP2C	Mx	.036	3
73	MP3A	X	-23.986	3
74	MP3A	Z	-41.545	3
75	MP3A	Mx	-.012	3
76	MP3B	X	-15.196	3
77	MP3B	Z	-26.32	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
78	MP3B	Mx	-.015	3
79	MP3C	X	-21.994	3
80	MP3C	Z	-38.094	3
81	MP3C	Mx	.014	3
82	OVP2	X	-54.899	1
83	OVP2	Z	-95.089	1
84	OVP2	Mx	0	1
85	MP2A	X	-13.935	.25
86	MP2A	Z	-24.136	.25
87	MP2A	Mx	-.007	.25
88	MP2B	X	-5.838	.25
89	MP2B	Z	-10.112	.25
90	MP2B	Mx	-.006	.25
91	MP2C	X	-12.099	.25
92	MP2C	Z	-20.957	.25
93	MP2C	Mx	.008	.25
94	MP3A	X	-41.213	.5
95	MP3A	Z	-71.383	.5
96	MP3A	Mx	.021	.5
97	MP3A	X	-41.213	5.5
98	MP3A	Z	-71.383	5.5
99	MP3A	Mx	.021	5.5
100	MP3B	X	-21.498	.5
101	MP3B	Z	-37.235	.5
102	MP3B	Mx	.021	.5
103	MP3B	X	-21.498	5.5
104	MP3B	Z	-37.235	5.5
105	MP3B	Mx	.021	5.5
106	MP3C	X	-36.744	.5
107	MP3C	Z	-63.642	.5
108	MP3C	Mx	-.024	.5
109	MP3C	X	-36.744	5.5
110	MP3C	Z	-63.642	5.5
111	MP3C	Mx	-.024	5.5
112	LR1	X	-52.447	1
113	LR1	Z	-90.842	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	0	.5
2	MP2A	Z	-30.276	.5
3	MP2A	Mx	.023	.5
4	MP2A	X	0	5.5
5	MP2A	Z	-30.276	5.5
6	MP2A	Mx	.023	5.5
7	MP2B	X	0	.5
8	MP2B	Z	-21.789	.5
9	MP2B	Mx	.016	.5
10	MP2B	X	0	5.5
11	MP2B	Z	-21.789	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	.016	5.5
13	MP2C	X	0	.5
14	MP2C	Z	-29.986	.5
15	MP2C	Mx	-.025	.5
16	MP2C	X	0	5.5
17	MP2C	Z	-29.986	5.5
18	MP2C	Mx	-.025	5.5
19	MP2A	X	0	.5
20	MP2A	Z	-30.276	.5
21	MP2A	Mx	-.023	.5
22	MP2A	X	0	5.5
23	MP2A	Z	-30.276	5.5
24	MP2A	Mx	-.023	5.5
25	MP2B	X	0	.5
26	MP2B	Z	-21.789	.5
27	MP2B	Mx	.005	.5
28	MP2B	X	0	5.5
29	MP2B	Z	-21.789	5.5
30	MP2B	Mx	.005	5.5
31	MP2C	X	0	.5
32	MP2C	Z	-29.986	.5
33	MP2C	Mx	.02	.5
34	MP2C	X	0	5.5
35	MP2C	Z	-29.986	5.5
36	MP2C	Mx	.02	5.5
37	MP5A	X	0	2
38	MP5A	Z	-14.214	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	-14.214	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	-10.421	2
45	MP5B	Mx	.005	2
46	MP5B	X	0	4
47	MP5B	Z	-10.421	4
48	MP5B	Mx	.005	4
49	MP5C	X	0	2
50	MP5C	Z	-14.085	2
51	MP5C	Mx	-.001	2
52	MP5C	X	0	4
53	MP5C	Z	-14.085	4
54	MP5C	Mx	-.001	4
55	MP2A	X	0	3
56	MP2A	Z	-3.308	3
57	MP2A	Mx	.001	3
58	MP2B	X	0	3
59	MP2B	Z	-2.581	3
60	MP2B	Mx	-.000845	3
61	MP2C	X	0	3
62	MP2C	Z	-3.284	3
63	MP2C	Mx	-.001	3



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

	Member Label	Direction	Magnitude [lb, k-ft]	Location [ft, %]
64	MP2A	X	0	3
65	MP2A	Z	-13.589	3
66	MP2A	Mx	-.008	3
67	MP2B	X	0	3
68	MP2B	Z	-9.941	3
69	MP2B	Mx	-.007	3
70	MP2C	X	0	3
71	MP2C	Z	-13.464	3
72	MP2C	Mx	.009	3
73	MP3A	X	0	3
74	MP3A	Z	-13.589	3
75	MP3A	Mx	0	3
76	MP3B	X	0	3
77	MP3B	Z	-8.555	3
78	MP3B	Mx	-.004	3
79	MP3C	X	0	3
80	MP3C	Z	-13.417	3
81	MP3C	Mx	.001	3
82	OVP2	X	0	1
83	OVP2	Z	-22.733	1
84	OVP2	Mx	0	1
85	MP2A	X	0	.25
86	MP2A	Z	-7.477	.25
87	MP2A	Mx	0	.25
88	MP2B	X	0	.25
89	MP2B	Z	-3.53	.25
90	MP2B	Mx	-.002	.25
91	MP2C	X	0	.25
92	MP2C	Z	-7.342	.25
93	MP2C	Mx	.000637	.25
94	MP3A	X	0	.5
95	MP3A	Z	-27.423	.5
96	MP3A	Mx	0	.5
97	MP3A	X	0	5.5
98	MP3A	Z	-27.423	5.5
99	MP3A	Mx	0	5.5
100	MP3B	X	0	.5
101	MP3B	Z	-19.919	.5
102	MP3B	Mx	.009	.5
103	MP3B	X	0	5.5
104	MP3B	Z	-19.919	5.5
105	MP3B	Mx	.009	5.5
106	MP3C	X	0	.5
107	MP3C	Z	-27.167	.5
108	MP3C	Mx	-.002	.5
109	MP3C	X	0	5.5
110	MP3C	Z	-27.167	5.5
111	MP3C	Mx	-.002	5.5
112	LR1	X	0	1
113	LR1	Z	-33.222	1
114	LR1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	13.937	.5
2	MP2A	Z	-24.139	.5
3	MP2A	Mx	.011	.5
4	MP2A	X	13.937	5.5
5	MP2A	Z	-24.139	5.5
6	MP2A	Mx	.011	5.5
7	MP2B	X	13.152	.5
8	MP2B	Z	-22.781	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	13.152	5.5
11	MP2B	Z	-22.781	5.5
12	MP2B	Mx	.024	5.5
13	MP2C	X	14.576	.5
14	MP2C	Z	-25.246	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	14.576	5.5
17	MP2C	Z	-25.246	5.5
18	MP2C	Mx	-.016	5.5
19	MP2A	X	13.937	.5
20	MP2A	Z	-24.139	.5
21	MP2A	Mx	-.025	.5
22	MP2A	X	13.937	5.5
23	MP2A	Z	-24.139	5.5
24	MP2A	Mx	-.025	5.5
25	MP2B	X	13.152	.5
26	MP2B	Z	-22.781	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	13.152	5.5
29	MP2B	Z	-22.781	5.5
30	MP2B	Mx	-.007	5.5
31	MP2C	X	14.576	.5
32	MP2C	Z	-25.246	.5
33	MP2C	Mx	.026	.5
34	MP2C	X	14.576	5.5
35	MP2C	Z	-25.246	5.5
36	MP2C	Mx	.026	5.5
37	MP5A	X	6.57	2
38	MP5A	Z	-11.38	2
39	MP5A	Mx	-.003	2
40	MP5A	X	6.57	4
41	MP5A	Z	-11.38	4
42	MP5A	Mx	-.003	4
43	MP5B	X	6.22	2
44	MP5B	Z	-10.773	2
45	MP5B	Mx	.004	2
46	MP5B	X	6.22	4
47	MP5B	Z	-10.773	4
48	MP5B	Mx	.004	4
49	MP5C	X	6.856	2
50	MP5C	Z	-11.875	2
51	MP5C	Mx	.002	2
52	MP5C	X	6.856	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	-11.875	4
54	MP5C	Mx	.002	4
55	MP2A	X	1.551	3
56	MP2A	Z	-2.687	3
57	MP2A	Mx	.002	3
58	MP2B	X	1.484	3
59	MP2B	Z	-2.571	3
60	MP2B	Mx	-7e-6	3
61	MP2C	X	1.606	3
62	MP2C	Z	-2.782	3
63	MP2C	Mx	-.002	3
64	MP2A	X	6.278	3
65	MP2A	Z	-10.874	3
66	MP2A	Mx	-.003	3
67	MP2B	X	5.941	3
68	MP2B	Z	-10.29	3
69	MP2B	Mx	-.009	3
70	MP2C	X	6.553	3
71	MP2C	Z	-11.35	3
72	MP2C	Mx	.005	3
73	MP3A	X	6.082	3
74	MP3A	Z	-10.534	3
75	MP3A	Mx	.003	3
76	MP3B	X	5.617	3
77	MP3B	Z	-9.729	3
78	MP3B	Mx	-.004	3
79	MP3C	X	6.461	3
80	MP3C	Z	-11.191	3
81	MP3C	Mx	-.002	3
82	OVP2	X	9.428	1
83	OVP2	Z	-16.331	1
84	OVP2	Mx	0	1
85	MP2A	X	3.18	.25
86	MP2A	Z	-5.508	.25
87	MP2A	Mx	.002	.25
88	MP2B	X	2.815	.25
89	MP2B	Z	-4.876	.25
90	MP2B	Mx	-.002	.25
91	MP2C	X	3.477	.25
92	MP2C	Z	-6.023	.25
93	MP2C	Mx	-.001	.25
94	MP3A	X	12.649	.5
95	MP3A	Z	-21.909	.5
96	MP3A	Mx	-.006	.5
97	MP3A	X	12.649	5.5
98	MP3A	Z	-21.909	5.5
99	MP3A	Mx	-.006	5.5
100	MP3B	X	11.956	.5
101	MP3B	Z	-20.708	.5
102	MP3B	Mx	.008	.5
103	MP3B	X	11.956	5.5
104	MP3B	Z	-20.708	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP3B	Mx	.008	5.5
106	MP3C	X	13.214	.5
107	MP3C	Z	-22.888	.5
108	MP3C	Mx	.005	.5
109	MP3C	X	13.214	5.5
110	MP3C	Z	-22.888	5.5
111	MP3C	Mx	.005	5.5
112	LR1	X	16.611	1
113	LR1	Z	-28.771	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	19.977	.5
2	MP2A	Z	-11.534	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	19.977	5.5
5	MP2A	Z	-11.534	5.5
6	MP2A	Mx	-.001	5.5
7	MP2B	X	25.969	.5
8	MP2B	Z	-14.993	.5
9	MP2B	Mx	.025	.5
10	MP2B	X	25.969	5.5
11	MP2B	Z	-14.993	5.5
12	MP2B	Mx	.025	5.5
13	MP2C	X	21.335	.5
14	MP2C	Z	-12.318	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	21.335	5.5
17	MP2C	Z	-12.318	5.5
18	MP2C	Mx	-.002	5.5
19	MP2A	X	19.977	.5
20	MP2A	Z	-11.534	.5
21	MP2A	Mx	-.019	.5
22	MP2A	X	19.977	5.5
23	MP2A	Z	-11.534	5.5
24	MP2A	Mx	-.019	5.5
25	MP2B	X	25.969	.5
26	MP2B	Z	-14.993	.5
27	MP2B	Mx	-.02	.5
28	MP2B	X	25.969	5.5
29	MP2B	Z	-14.993	5.5
30	MP2B	Mx	-.02	5.5
31	MP2C	X	21.335	.5
32	MP2C	Z	-12.318	.5
33	MP2C	Mx	.021	.5
34	MP2C	X	21.335	5.5
35	MP2C	Z	-12.318	5.5
36	MP2C	Mx	.021	5.5
37	MP5A	X	9.52	2
38	MP5A	Z	-5.496	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP5A	Mx	-.005	2
40	MP5A	X	9.52	4
41	MP5A	Z	-5.496	4
42	MP5A	Mx	-.005	4
43	MP5B	X	12.198	2
44	MP5B	Z	-7.042	2
45	MP5B	Mx	.001	2
46	MP5B	X	12.198	4
47	MP5B	Z	-7.042	4
48	MP5B	Mx	.001	4
49	MP5C	X	10.127	2
50	MP5C	Z	-5.847	2
51	MP5C	Mx	.004	2
52	MP5C	X	10.127	4
53	MP5C	Z	-5.847	4
54	MP5C	Mx	.004	4
55	MP2A	X	2.33	3
56	MP2A	Z	-1.345	3
57	MP2A	Mx	.002	3
58	MP2B	X	2.844	3
59	MP2B	Z	-1.642	3
60	MP2B	Mx	.001	3
61	MP2C	X	2.447	3
62	MP2C	Z	-1.413	3
63	MP2C	Mx	-.002	3
64	MP2A	X	9.085	3
65	MP2A	Z	-5.245	3
66	MP2A	Mx	.001	3
67	MP2B	X	11.66	3
68	MP2B	Z	-6.732	3
69	MP2B	Mx	-.009	3
70	MP2C	X	9.669	3
71	MP2C	Z	-5.582	3
72	MP2C	Mx	-9e-5	3
73	MP3A	X	8.066	3
74	MP3A	Z	-4.657	3
75	MP3A	Mx	.004	3
76	MP3B	X	11.619	3
77	MP3B	Z	-6.709	3
78	MP3B	Mx	-.001	3
79	MP3C	X	8.871	3
80	MP3C	Z	-5.122	3
81	MP3C	Mx	-.004	3
82	OVP2	X	15.71	1
83	OVP2	Z	-9.07	1
84	OVP2	Mx	0	1
85	MP2A	X	3.572	.25
86	MP2A	Z	-2.062	.25
87	MP2A	Mx	.002	.25
88	MP2B	X	6.359	.25
89	MP2B	Z	-3.671	.25
90	MP2B	Mx	-.000637	.25





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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
91	MP2C	X	4.204	.25
92	MP2C	Z	-2.427	.25
93	MP2C	Mx	-.002	.25
94	MP3A	X	18.23	.5
95	MP3A	Z	-10.525	.5
96	MP3A	Mx	-.009	.5
97	MP3A	X	18.23	5.5
98	MP3A	Z	-10.525	5.5
99	MP3A	Mx	-.009	5.5
100	MP3B	X	23.527	.5
101	MP3B	Z	-13.583	.5
102	MP3B	Mx	.002	.5
103	MP3B	X	23.527	5.5
104	MP3B	Z	-13.583	5.5
105	MP3B	Mx	.002	5.5
106	MP3C	X	19.43	.5
107	MP3C	Z	-11.218	.5
108	MP3C	Mx	.009	.5
109	MP3C	X	19.43	5.5
110	MP3C	Z	-11.218	5.5
111	MP3C	Mx	.009	5.5
112	LR1	X	28.771	1
113	LR1	Z	-16.611	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	20.664	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.01	.5
4	MP2A	X	20.664	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.01	5.5
7	MP2B	X	29.152	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.016	.5
10	MP2B	X	29.152	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.016	5.5
13	MP2C	X	20.954	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.008	.5
16	MP2C	X	20.954	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.008	5.5
19	MP2A	X	20.664	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.01	.5
22	MP2A	X	20.664	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.01	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft, %]
25	MP2B	X	29.152	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.026	.5
28	MP2B	X	29.152	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.026	5.5
31	MP2C	X	20.954	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.013	.5
34	MP2C	X	20.954	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.013	5.5
37	MP5A	X	9.919	2
38	MP5A	Z	0	2
39	MP5A	Mx	-.005	2
40	MP5A	X	9.919	4
41	MP5A	Z	0	4
42	MP5A	Mx	-.005	4
43	MP5B	X	13.712	2
44	MP5B	Z	0	2
45	MP5B	Mx	-.002	2
46	MP5B	X	13.712	4
47	MP5B	Z	0	4
48	MP5B	Mx	-.002	4
49	MP5C	X	10.049	2
50	MP5C	Z	0	2
51	MP5C	Mx	.005	2
52	MP5C	X	10.049	4
53	MP5C	Z	0	4
54	MP5C	Mx	.005	4
55	MP2A	X	2.485	3
56	MP2A	Z	0	3
57	MP2A	Mx	.001	3
58	MP2B	X	3.212	3
59	MP2B	Z	0	3
60	MP2B	Mx	.002	3
61	MP2C	X	2.51	3
62	MP2C	Z	0	3
63	MP2C	Mx	-.001	3
64	MP2A	X	9.458	3
65	MP2A	Z	0	3
66	MP2A	Mx	.005	3
67	MP2B	X	13.106	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.005	3
70	MP2C	X	9.583	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.004	3
73	MP3A	X	7.889	3
74	MP3A	Z	0	3
75	MP3A	Mx	.004	3
76	MP3B	X	12.922	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP3B	Z	0	3
78	MP3B	Mx	.002	3
79	MP3C	X	8.06	3
80	MP3C	Z	0	3
81	MP3C	Mx	-.004	3
82	OVP2	X	21.301	1
83	OVP2	Z	0	1
84	OVP2	Mx	0	1
85	MP2A	X	3.007	.25
86	MP2A	Z	0	.25
87	MP2A	Mx	.002	.25
88	MP2B	X	6.954	.25
89	MP2B	Z	0	.25
90	MP2B	Mx	.001	.25
91	MP2C	X	3.142	.25
92	MP2C	Z	0	.25
93	MP2C	Mx	-.002	.25
94	MP3A	X	18.925	.5
95	MP3A	Z	0	.5
96	MP3A	Mx	-.009	.5
97	MP3A	X	18.925	5.5
98	MP3A	Z	0	5.5
99	MP3A	Mx	-.009	5.5
100	MP3B	X	26.429	.5
101	MP3B	Z	0	.5
102	MP3B	Mx	-.005	.5
103	MP3B	X	26.429	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	-.005	5.5
106	MP3C	X	19.182	.5
107	MP3C	Z	0	.5
108	MP3C	Mx	.009	.5
109	MP3C	X	19.182	5.5
110	MP3C	Z	0	5.5
111	MP3C	Mx	.009	5.5
112	LR1	X	33.222	1
113	LR1	Z	0	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	19.977	.5
2	MP2A	Z	11.534	.5
3	MP2A	Mx	-.019	.5
4	MP2A	X	19.977	5.5
5	MP2A	Z	11.534	5.5
6	MP2A	Mx	-.019	5.5
7	MP2B	X	21.335	.5
8	MP2B	Z	12.318	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	21.335	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP2B	Z	12.318	5.5
12	MP2B	Mx	.002	5.5
13	MP2C	X	18.87	.5
14	MP2C	Z	10.894	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	18.87	5.5
17	MP2C	Z	10.894	5.5
18	MP2C	Mx	.016	5.5
19	MP2A	X	19.977	.5
20	MP2A	Z	11.534	.5
21	MP2A	Mx	-.001	.5
22	MP2A	X	19.977	5.5
23	MP2A	Z	11.534	5.5
24	MP2A	Mx	-.001	5.5
25	MP2B	X	21.335	.5
26	MP2B	Z	12.318	.5
27	MP2B	Mx	-.021	.5
28	MP2B	X	21.335	5.5
29	MP2B	Z	12.318	5.5
30	MP2B	Mx	-.021	5.5
31	MP2C	X	18.87	.5
32	MP2C	Z	10.894	.5
33	MP2C	Mx	.005	.5
34	MP2C	X	18.87	5.5
35	MP2C	Z	10.894	5.5
36	MP2C	Mx	.005	5.5
37	MP5A	X	9.52	2
38	MP5A	Z	5.496	2
39	MP5A	Mx	-.005	2
40	MP5A	X	9.52	4
41	MP5A	Z	5.496	4
42	MP5A	Mx	-.005	4
43	MP5B	X	10.127	2
44	MP5B	Z	5.847	2
45	MP5B	Mx	-.004	2
46	MP5B	X	10.127	4
47	MP5B	Z	5.847	4
48	MP5B	Mx	-.004	4
49	MP5C	X	9.025	2
50	MP5C	Z	5.211	2
51	MP5C	Mx	.005	2
52	MP5C	X	9.025	4
53	MP5C	Z	5.211	4
54	MP5C	Mx	.005	4
55	MP2A	X	2.33	3
56	MP2A	Z	1.345	3
57	MP2A	Mx	.000605	3
58	MP2B	X	2.447	3
59	MP2B	Z	1.413	3
60	MP2B	Mx	.002	3
61	MP2C	X	2.236	3
62	MP2C	Z	1.291	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
63	MP2C	Mx	- .000845	3
64	MP2A	X	9.085	3
65	MP2A	Z	5.245	3
66	MP2A	Mx	.008	3
67	MP2B	X	9.669	3
68	MP2B	Z	5.582	3
69	MP2B	Mx	9e-5	3
70	MP2C	X	8.609	3
71	MP2C	Z	4.971	3
72	MP2C	Mx	-.007	3
73	MP3A	X	8.066	3
74	MP3A	Z	4.657	3
75	MP3A	Mx	.004	3
76	MP3B	X	8.871	3
77	MP3B	Z	5.122	3
78	MP3B	Mx	.004	3
79	MP3C	X	7.409	3
80	MP3C	Z	4.278	3
81	MP3C	Mx	-.004	3
82	OVP2	X	21.804	1
83	OVP2	Z	12.588	1
84	OVP2	Mx	0	1
85	MP2A	X	3.572	.25
86	MP2A	Z	2.062	.25
87	MP2A	Mx	.002	.25
88	MP2B	X	4.204	.25
89	MP2B	Z	2.427	.25
90	MP2B	Mx	.002	.25
91	MP2C	X	3.057	.25
92	MP2C	Z	1.765	.25
93	MP2C	Mx	-.002	.25
94	MP3A	X	18.23	.5
95	MP3A	Z	10.525	.5
96	MP3A	Mx	-.009	.5
97	MP3A	X	18.23	5.5
98	MP3A	Z	10.525	5.5
99	MP3A	Mx	-.009	5.5
100	MP3B	X	19.43	.5
101	MP3B	Z	11.218	.5
102	MP3B	Mx	-.009	.5
103	MP3B	X	19.43	5.5
104	MP3B	Z	11.218	5.5
105	MP3B	Mx	-.009	5.5
106	MP3C	X	17.251	.5
107	MP3C	Z	9.96	.5
108	MP3C	Mx	.009	.5
109	MP3C	X	17.251	5.5
110	MP3C	Z	9.96	5.5
111	MP3C	Mx	.009	5.5
112	LR1	X	28.771	1
113	LR1	Z	16.611	1
114	LR1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	13.937	.5
2	MP2A	Z	24.139	.5
3	MP2A	Mx	-.025	.5
4	MP2A	X	13.937	5.5
5	MP2A	Z	24.139	5.5
6	MP2A	Mx	-.025	5.5
7	MP2B	X	10.477	.5
8	MP2B	Z	18.147	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	10.477	5.5
11	MP2B	Z	18.147	5.5
12	MP2B	Mx	-.008	5.5
13	MP2C	X	13.152	.5
14	MP2C	Z	22.781	.5
15	MP2C	Mx	.024	.5
16	MP2C	X	13.152	5.5
17	MP2C	Z	22.781	5.5
18	MP2C	Mx	.024	5.5
19	MP2A	X	13.937	.5
20	MP2A	Z	24.139	.5
21	MP2A	Mx	.011	.5
22	MP2A	X	13.937	5.5
23	MP2A	Z	24.139	5.5
24	MP2A	Mx	.011	5.5
25	MP2B	X	10.477	.5
26	MP2B	Z	18.147	.5
27	MP2B	Mx	-.013	.5
28	MP2B	X	10.477	5.5
29	MP2B	Z	18.147	5.5
30	MP2B	Mx	-.013	5.5
31	MP2C	X	13.152	.5
32	MP2C	Z	22.781	.5
33	MP2C	Mx	-.007	.5
34	MP2C	X	13.152	5.5
35	MP2C	Z	22.781	5.5
36	MP2C	Mx	-.007	5.5
37	MP5A	X	6.57	2
38	MP5A	Z	11.38	2
39	MP5A	Mx	-.003	2
40	MP5A	X	6.57	4
41	MP5A	Z	11.38	4
42	MP5A	Mx	-.003	4
43	MP5B	X	5.024	2
44	MP5B	Z	8.702	2
45	MP5B	Mx	-.005	2
46	MP5B	X	5.024	4
47	MP5B	Z	8.702	4
48	MP5B	Mx	-.005	4
49	MP5C	X	6.22	2
50	MP5C	Z	10.773	2
51	MP5C	Mx	.004	2
52	MP5C	X	6.22	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
53	MP5C	Z	10.773	4
54	MP5C	Mx	.004	4
55	MP2A	X	1.551	3
56	MP2A	Z	2.687	3
57	MP2A	Mx	-.000344	3
58	MP2B	X	1.255	3
59	MP2B	Z	2.174	3
60	MP2B	Mx	.001	3
61	MP2C	X	1.484	3
62	MP2C	Z	2.571	3
63	MP2C	Mx	-6e-6	3
64	MP2A	X	6.278	3
65	MP2A	Z	10.874	3
66	MP2A	Mx	.009	3
67	MP2B	X	4.791	3
68	MP2B	Z	8.299	3
69	MP2B	Mx	.004	3
70	MP2C	X	5.941	3
71	MP2C	Z	10.29	3
72	MP2C	Mx	-.009	3
73	MP3A	X	6.082	3
74	MP3A	Z	10.534	3
75	MP3A	Mx	.003	3
76	MP3B	X	4.03	3
77	MP3B	Z	6.981	3
78	MP3B	Mx	.004	3
79	MP3C	X	5.617	3
80	MP3C	Z	9.729	3
81	MP3C	Mx	-.004	3
82	OVP2	X	12.946	1
83	OVP2	Z	22.424	1
84	OVP2	Mx	0	1
85	MP2A	X	3.18	.25
86	MP2A	Z	5.508	.25
87	MP2A	Mx	.002	.25
88	MP2B	X	1.571	.25
89	MP2B	Z	2.721	.25
90	MP2B	Mx	.002	.25
91	MP2C	X	2.815	.25
92	MP2C	Z	4.876	.25
93	MP2C	Mx	-.002	.25
94	MP3A	X	12.649	.5
95	MP3A	Z	21.909	.5
96	MP3A	Mx	-.006	.5
97	MP3A	X	12.649	5.5
98	MP3A	Z	21.909	5.5
99	MP3A	Mx	-.006	5.5
100	MP3B	X	9.591	.5
101	MP3B	Z	16.612	.5
102	MP3B	Mx	-.009	.5
103	MP3B	X	9.591	5.5
104	MP3B	Z	16.612	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP3B	Mx	-.009	5.5
106	MP3C	X	11.956	.5
107	MP3C	Z	20.708	.5
108	MP3C	Mx	.008	.5
109	MP3C	X	11.956	5.5
110	MP3C	Z	20.708	5.5
111	MP3C	Mx	.008	5.5
112	LR1	X	16.611	1
113	LR1	Z	28.771	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	30.276	.5
3	MP2A	Mx	-.023	.5
4	MP2A	X	0	5.5
5	MP2A	Z	30.276	5.5
6	MP2A	Mx	-.023	5.5
7	MP2B	X	0	.5
8	MP2B	Z	21.789	.5
9	MP2B	Mx	-.016	.5
10	MP2B	X	0	5.5
11	MP2B	Z	21.789	5.5
12	MP2B	Mx	-.016	5.5
13	MP2C	X	0	.5
14	MP2C	Z	29.986	.5
15	MP2C	Mx	.025	.5
16	MP2C	X	0	5.5
17	MP2C	Z	29.986	5.5
18	MP2C	Mx	.025	5.5
19	MP2A	X	0	.5
20	MP2A	Z	30.276	.5
21	MP2A	Mx	.023	.5
22	MP2A	X	0	5.5
23	MP2A	Z	30.276	5.5
24	MP2A	Mx	.023	5.5
25	MP2B	X	0	.5
26	MP2B	Z	21.789	.5
27	MP2B	Mx	-.005	.5
28	MP2B	X	0	5.5
29	MP2B	Z	21.789	5.5
30	MP2B	Mx	-.005	5.5
31	MP2C	X	0	.5
32	MP2C	Z	29.986	.5
33	MP2C	Mx	-.02	.5
34	MP2C	X	0	5.5
35	MP2C	Z	29.986	5.5
36	MP2C	Mx	-.02	5.5
37	MP5A	X	0	2
38	MP5A	Z	14.214	2





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	14.214	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	10.421	2
45	MP5B	Mx	-.005	2
46	MP5B	X	0	4
47	MP5B	Z	10.421	4
48	MP5B	Mx	-.005	4
49	MP5C	X	0	2
50	MP5C	Z	14.085	2
51	MP5C	Mx	.001	2
52	MP5C	X	0	4
53	MP5C	Z	14.085	4
54	MP5C	Mx	.001	4
55	MP2A	X	0	3
56	MP2A	Z	3.308	3
57	MP2A	Mx	-.001	3
58	MP2B	X	0	3
59	MP2B	Z	2.581	3
60	MP2B	Mx	.000845	3
61	MP2C	X	0	3
62	MP2C	Z	3.284	3
63	MP2C	Mx	.001	3
64	MP2A	X	0	3
65	MP2A	Z	13.589	3
66	MP2A	Mx	.008	3
67	MP2B	X	0	3
68	MP2B	Z	9.941	3
69	MP2B	Mx	.007	3
70	MP2C	X	0	3
71	MP2C	Z	13.464	3
72	MP2C	Mx	-.009	3
73	MP3A	X	0	3
74	MP3A	Z	13.589	3
75	MP3A	Mx	0	3
76	MP3B	X	0	3
77	MP3B	Z	8.555	3
78	MP3B	Mx	.004	3
79	MP3C	X	0	3
80	MP3C	Z	13.417	3
81	MP3C	Mx	-.001	3
82	OVP2	X	0	1
83	OVP2	Z	22.733	1
84	OVP2	Mx	0	1
85	MP2A	X	0	.25
86	MP2A	Z	7.477	.25
87	MP2A	Mx	0	.25
88	MP2B	X	0	.25
89	MP2B	Z	3.53	.25
90	MP2B	Mx	.002	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2C	X	0	.25
92	MP2C	Z	7.342	.25
93	MP2C	Mx	-.000637	.25
94	MP3A	X	0	.5
95	MP3A	Z	27.423	.5
96	MP3A	Mx	0	.5
97	MP3A	X	0	5.5
98	MP3A	Z	27.423	5.5
99	MP3A	Mx	0	5.5
100	MP3B	X	0	.5
101	MP3B	Z	19.919	.5
102	MP3B	Mx	-.009	.5
103	MP3B	X	0	5.5
104	MP3B	Z	19.919	5.5
105	MP3B	Mx	-.009	5.5
106	MP3C	X	0	.5
107	MP3C	Z	27.167	.5
108	MP3C	Mx	.002	.5
109	MP3C	X	0	5.5
110	MP3C	Z	27.167	5.5
111	MP3C	Mx	.002	5.5
112	LR1	X	0	1
113	LR1	Z	33.222	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-13.937	.5
2	MP2A	Z	24.139	.5
3	MP2A	Mx	-.011	.5
4	MP2A	X	-13.937	5.5
5	MP2A	Z	24.139	5.5
6	MP2A	Mx	-.011	5.5
7	MP2B	X	-13.152	.5
8	MP2B	Z	22.781	.5
9	MP2B	Mx	-.024	.5
10	MP2B	X	-13.152	5.5
11	MP2B	Z	22.781	5.5
12	MP2B	Mx	-.024	5.5
13	MP2C	X	-14.576	.5
14	MP2C	Z	25.246	.5
15	MP2C	Mx	.016	.5
16	MP2C	X	-14.576	5.5
17	MP2C	Z	25.246	5.5
18	MP2C	Mx	.016	5.5
19	MP2A	X	-13.937	.5
20	MP2A	Z	24.139	.5
21	MP2A	Mx	.025	.5
22	MP2A	X	-13.937	5.5
23	MP2A	Z	24.139	5.5
24	MP2A	Mx	.025	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2B	X	-13.152	.5
26	MP2B	Z	22.781	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	-13.152	5.5
29	MP2B	Z	22.781	5.5
30	MP2B	Mx	.007	5.5
31	MP2C	X	-14.576	.5
32	MP2C	Z	25.246	.5
33	MP2C	Mx	-.026	.5
34	MP2C	X	-14.576	5.5
35	MP2C	Z	25.246	5.5
36	MP2C	Mx	-.026	5.5
37	MP5A	X	-6.57	2
38	MP5A	Z	11.38	2
39	MP5A	Mx	.003	2
40	MP5A	X	-6.57	4
41	MP5A	Z	11.38	4
42	MP5A	Mx	.003	4
43	MP5B	X	-6.22	2
44	MP5B	Z	10.773	2
45	MP5B	Mx	-.004	2
46	MP5B	X	-6.22	4
47	MP5B	Z	10.773	4
48	MP5B	Mx	-.004	4
49	MP5C	X	-6.856	2
50	MP5C	Z	11.875	2
51	MP5C	Mx	-.002	2
52	MP5C	X	-6.856	4
53	MP5C	Z	11.875	4
54	MP5C	Mx	-.002	4
55	MP2A	X	-1.551	3
56	MP2A	Z	2.687	3
57	MP2A	Mx	-.002	3
58	MP2B	X	-1.484	3
59	MP2B	Z	2.571	3
60	MP2B	Mx	7e-6	3
61	MP2C	X	-1.606	3
62	MP2C	Z	2.782	3
63	MP2C	Mx	.002	3
64	MP2A	X	-6.278	3
65	MP2A	Z	10.874	3
66	MP2A	Mx	.003	3
67	MP2B	X	-5.941	3
68	MP2B	Z	10.29	3
69	MP2B	Mx	.009	3
70	MP2C	X	-6.553	3
71	MP2C	Z	11.35	3
72	MP2C	Mx	-.005	3
73	MP3A	X	-6.082	3
74	MP3A	Z	10.534	3
75	MP3A	Mx	-.003	3
76	MP3B	X	-5.617	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
77	MP3B	Z	9.729	3
78	MP3B	Mx	.004	3
79	MP3C	X	-6.461	3
80	MP3C	Z	11.191	3
81	MP3C	Mx	.002	3
82	OVP2	X	-9.428	1
83	OVP2	Z	16.331	1
84	OVP2	Mx	0	1
85	MP2A	X	-3.18	.25
86	MP2A	Z	5.508	.25
87	MP2A	Mx	-.002	.25
88	MP2B	X	-2.815	.25
89	MP2B	Z	4.876	.25
90	MP2B	Mx	.002	.25
91	MP2C	X	-3.477	.25
92	MP2C	Z	6.023	.25
93	MP2C	Mx	.001	.25
94	MP3A	X	-12.649	.5
95	MP3A	Z	21.909	.5
96	MP3A	Mx	.006	.5
97	MP3A	X	-12.649	5.5
98	MP3A	Z	21.909	5.5
99	MP3A	Mx	.006	5.5
100	MP3B	X	-11.956	.5
101	MP3B	Z	20.708	.5
102	MP3B	Mx	-.008	.5
103	MP3B	X	-11.956	5.5
104	MP3B	Z	20.708	5.5
105	MP3B	Mx	-.008	5.5
106	MP3C	X	-13.214	.5
107	MP3C	Z	22.888	.5
108	MP3C	Mx	-.005	.5
109	MP3C	X	-13.214	5.5
110	MP3C	Z	22.888	5.5
111	MP3C	Mx	-.005	5.5
112	LR1	X	-16.611	1
113	LR1	Z	28.771	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP2A	X	-19.977	.5
2	MP2A	Z	11.534	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-19.977	5.5
5	MP2A	Z	11.534	5.5
6	MP2A	Mx	.001	5.5
7	MP2B	X	-25.969	.5
8	MP2B	Z	14.993	.5
9	MP2B	Mx	-.025	.5
10	MP2B	X	-25.969	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	14.993	5.5
12	MP2B	Mx	-.025	5.5
13	MP2C	X	-21.335	.5
14	MP2C	Z	12.318	.5
15	MP2C	Mx	.002	.5
16	MP2C	X	-21.335	5.5
17	MP2C	Z	12.318	5.5
18	MP2C	Mx	.002	5.5
19	MP2A	X	-19.977	.5
20	MP2A	Z	11.534	.5
21	MP2A	Mx	.019	.5
22	MP2A	X	-19.977	5.5
23	MP2A	Z	11.534	5.5
24	MP2A	Mx	.019	5.5
25	MP2B	X	-25.969	.5
26	MP2B	Z	14.993	.5
27	MP2B	Mx	.02	.5
28	MP2B	X	-25.969	5.5
29	MP2B	Z	14.993	5.5
30	MP2B	Mx	.02	5.5
31	MP2C	X	-21.335	.5
32	MP2C	Z	12.318	.5
33	MP2C	Mx	-.021	.5
34	MP2C	X	-21.335	5.5
35	MP2C	Z	12.318	5.5
36	MP2C	Mx	-.021	5.5
37	MP5A	X	-9.52	2
38	MP5A	Z	5.496	2
39	MP5A	Mx	.005	2
40	MP5A	X	-9.52	4
41	MP5A	Z	5.496	4
42	MP5A	Mx	.005	4
43	MP5B	X	-12.198	2
44	MP5B	Z	7.042	2
45	MP5B	Mx	-.001	2
46	MP5B	X	-12.198	4
47	MP5B	Z	7.042	4
48	MP5B	Mx	-.001	4
49	MP5C	X	-10.127	2
50	MP5C	Z	5.847	2
51	MP5C	Mx	-.004	2
52	MP5C	X	-10.127	4
53	MP5C	Z	5.847	4
54	MP5C	Mx	-.004	4
55	MP2A	X	-2.33	3
56	MP2A	Z	1.345	3
57	MP2A	Mx	-.002	3
58	MP2B	X	-2.844	3
59	MP2B	Z	1.642	3
60	MP2B	Mx	-.001	3
61	MP2C	X	-2.447	3
62	MP2C	Z	1.413	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.002	3
64	MP2A	X	-9.085	3
65	MP2A	Z	5.245	3
66	MP2A	Mx	-.001	3
67	MP2B	X	-11.66	3
68	MP2B	Z	6.732	3
69	MP2B	Mx	.009	3
70	MP2C	X	-9.669	3
71	MP2C	Z	5.582	3
72	MP2C	Mx	9e-5	3
73	MP3A	X	-8.066	3
74	MP3A	Z	4.657	3
75	MP3A	Mx	-.004	3
76	MP3B	X	-11.619	3
77	MP3B	Z	6.709	3
78	MP3B	Mx	.001	3
79	MP3C	X	-8.871	3
80	MP3C	Z	5.122	3
81	MP3C	Mx	.004	3
82	OVP2	X	-15.71	1
83	OVP2	Z	9.07	1
84	OVP2	Mx	0	1
85	MP2A	X	-3.572	.25
86	MP2A	Z	2.062	.25
87	MP2A	Mx	-.002	.25
88	MP2B	X	-6.359	.25
89	MP2B	Z	3.671	.25
90	MP2B	Mx	.000637	.25
91	MP2C	X	-4.204	.25
92	MP2C	Z	2.427	.25
93	MP2C	Mx	.002	.25
94	MP3A	X	-18.23	.5
95	MP3A	Z	10.525	.5
96	MP3A	Mx	.009	.5
97	MP3A	X	-18.23	5.5
98	MP3A	Z	10.525	5.5
99	MP3A	Mx	.009	5.5
100	MP3B	X	-23.527	.5
101	MP3B	Z	13.583	.5
102	MP3B	Mx	-.002	.5
103	MP3B	X	-23.527	5.5
104	MP3B	Z	13.583	5.5
105	MP3B	Mx	-.002	5.5
106	MP3C	X	-19.43	.5
107	MP3C	Z	11.218	.5
108	MP3C	Mx	-.009	.5
109	MP3C	X	-19.43	5.5
110	MP3C	Z	11.218	5.5
111	MP3C	Mx	-.009	5.5
112	LR1	X	-28.771	1
113	LR1	Z	16.611	1
114	LR1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-20.664	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.01	.5
4	MP2A	X	-20.664	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.01	5.5
7	MP2B	X	-29.152	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.016	.5
10	MP2B	X	-29.152	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.016	5.5
13	MP2C	X	-20.954	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.008	.5
16	MP2C	X	-20.954	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.008	5.5
19	MP2A	X	-20.664	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.01	.5
22	MP2A	X	-20.664	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.01	5.5
25	MP2B	X	-29.152	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.026	.5
28	MP2B	X	-29.152	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.026	5.5
31	MP2C	X	-20.954	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.013	.5
34	MP2C	X	-20.954	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.013	5.5
37	MP5A	X	-9.919	2
38	MP5A	Z	0	2
39	MP5A	Mx	.005	2
40	MP5A	X	-9.919	4
41	MP5A	Z	0	4
42	MP5A	Mx	.005	4
43	MP5B	X	-13.712	2
44	MP5B	Z	0	2
45	MP5B	Mx	.002	2
46	MP5B	X	-13.712	4
47	MP5B	Z	0	4
48	MP5B	Mx	.002	4
49	MP5C	X	-10.049	2
50	MP5C	Z	0	2
51	MP5C	Mx	-.005	2
52	MP5C	X	-10.049	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	0	4
54	MP5C	Mx	-.005	4
55	MP2A	X	-2.485	3
56	MP2A	Z	0	3
57	MP2A	Mx	-.001	3
58	MP2B	X	-3.212	3
59	MP2B	Z	0	3
60	MP2B	Mx	-.002	3
61	MP2C	X	-2.51	3
62	MP2C	Z	0	3
63	MP2C	Mx	.001	3
64	MP2A	X	-9.458	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.005	3
67	MP2B	X	-13.106	3
68	MP2B	Z	0	3
69	MP2B	Mx	.005	3
70	MP2C	X	-9.583	3
71	MP2C	Z	0	3
72	MP2C	Mx	.004	3
73	MP3A	X	-7.889	3
74	MP3A	Z	0	3
75	MP3A	Mx	-.004	3
76	MP3B	X	-12.922	3
77	MP3B	Z	0	3
78	MP3B	Mx	-.002	3
79	MP3C	X	-8.06	3
80	MP3C	Z	0	3
81	MP3C	Mx	.004	3
82	OVP2	X	-21.301	1
83	OVP2	Z	0	1
84	OVP2	Mx	0	1
85	MP2A	X	-3.007	.25
86	MP2A	Z	0	.25
87	MP2A	Mx	-.002	.25
88	MP2B	X	-6.954	.25
89	MP2B	Z	0	.25
90	MP2B	Mx	-.001	.25
91	MP2C	X	-3.142	.25
92	MP2C	Z	0	.25
93	MP2C	Mx	.002	.25
94	MP3A	X	-18.925	.5
95	MP3A	Z	0	.5
96	MP3A	Mx	.009	.5
97	MP3A	X	-18.925	5.5
98	MP3A	Z	0	5.5
99	MP3A	Mx	.009	5.5
100	MP3B	X	-26.429	.5
101	MP3B	Z	0	.5
102	MP3B	Mx	.005	.5
103	MP3B	X	-26.429	5.5
104	MP3B	Z	0	5.5





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP3B	Mx	.005	5.5
106	MP3C	X	-19.182	.5
107	MP3C	Z	0	.5
108	MP3C	Mx	-.009	.5
109	MP3C	X	-19.182	5.5
110	MP3C	Z	0	5.5
111	MP3C	Mx	-.009	5.5
112	LR1	X	-33.222	1
113	LR1	Z	0	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-19.977	.5
2	MP2A	Z	-11.534	.5
3	MP2A	Mx	.019	.5
4	MP2A	X	-19.977	5.5
5	MP2A	Z	-11.534	5.5
6	MP2A	Mx	.019	5.5
7	MP2B	X	-21.335	.5
8	MP2B	Z	-12.318	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	-21.335	5.5
11	MP2B	Z	-12.318	5.5
12	MP2B	Mx	-.002	5.5
13	MP2C	X	-18.87	.5
14	MP2C	Z	-10.894	.5
15	MP2C	Mx	-.016	.5
16	MP2C	X	-18.87	5.5
17	MP2C	Z	-10.894	5.5
18	MP2C	Mx	-.016	5.5
19	MP2A	X	-19.977	.5
20	MP2A	Z	-11.534	.5
21	MP2A	Mx	.001	.5
22	MP2A	X	-19.977	5.5
23	MP2A	Z	-11.534	5.5
24	MP2A	Mx	.001	5.5
25	MP2B	X	-21.335	.5
26	MP2B	Z	-12.318	.5
27	MP2B	Mx	.021	.5
28	MP2B	X	-21.335	5.5
29	MP2B	Z	-12.318	5.5
30	MP2B	Mx	.021	5.5
31	MP2C	X	-18.87	.5
32	MP2C	Z	-10.894	.5
33	MP2C	Mx	-.005	.5
34	MP2C	X	-18.87	5.5
35	MP2C	Z	-10.894	5.5
36	MP2C	Mx	-.005	5.5
37	MP5A	X	-9.52	2
38	MP5A	Z	-5.496	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
39	MP5A	Mx	.005	2
40	MP5A	X	-9.52	4
41	MP5A	Z	-5.496	4
42	MP5A	Mx	.005	4
43	MP5B	X	-10.127	2
44	MP5B	Z	-5.847	2
45	MP5B	Mx	.004	2
46	MP5B	X	-10.127	4
47	MP5B	Z	-5.847	4
48	MP5B	Mx	.004	4
49	MP5C	X	-9.025	2
50	MP5C	Z	-5.211	2
51	MP5C	Mx	-.005	2
52	MP5C	X	-9.025	4
53	MP5C	Z	-5.211	4
54	MP5C	Mx	-.005	4
55	MP2A	X	-2.33	3
56	MP2A	Z	-1.345	3
57	MP2A	Mx	-.000605	3
58	MP2B	X	-2.447	3
59	MP2B	Z	-1.413	3
60	MP2B	Mx	-.002	3
61	MP2C	X	-2.236	3
62	MP2C	Z	-1.291	3
63	MP2C	Mx	.000845	3
64	MP2A	X	-9.085	3
65	MP2A	Z	-5.245	3
66	MP2A	Mx	-.008	3
67	MP2B	X	-9.669	3
68	MP2B	Z	-5.582	3
69	MP2B	Mx	-9e-5	3
70	MP2C	X	-8.609	3
71	MP2C	Z	-4.971	3
72	MP2C	Mx	.007	3
73	MP3A	X	-8.066	3
74	MP3A	Z	-4.657	3
75	MP3A	Mx	-.004	3
76	MP3B	X	-8.871	3
77	MP3B	Z	-5.122	3
78	MP3B	Mx	-.004	3
79	MP3C	X	-7.409	3
80	MP3C	Z	-4.278	3
81	MP3C	Mx	.004	3
82	OVP2	X	-21.804	1
83	OVP2	Z	-12.588	1
84	OVP2	Mx	0	1
85	MP2A	X	-3.572	.25
86	MP2A	Z	-2.062	.25
87	MP2A	Mx	-.002	.25
88	MP2B	X	-4.204	.25
89	MP2B	Z	-2.427	.25
90	MP2B	Mx	-.002	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2C	X	-3.057	.25
92	MP2C	Z	-1.765	.25
93	MP2C	Mx	.002	.25
94	MP3A	X	-18.23	.5
95	MP3A	Z	-10.525	.5
96	MP3A	Mx	.009	.5
97	MP3A	X	-18.23	5.5
98	MP3A	Z	-10.525	5.5
99	MP3A	Mx	.009	5.5
100	MP3B	X	-19.43	.5
101	MP3B	Z	-11.218	.5
102	MP3B	Mx	.009	.5
103	MP3B	X	-19.43	5.5
104	MP3B	Z	-11.218	5.5
105	MP3B	Mx	.009	5.5
106	MP3C	X	-17.251	.5
107	MP3C	Z	-9.96	.5
108	MP3C	Mx	-.009	.5
109	MP3C	X	-17.251	5.5
110	MP3C	Z	-9.96	5.5
111	MP3C	Mx	-.009	5.5
112	LR1	X	-28.771	1
113	LR1	Z	-16.611	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-13.937	.5
2	MP2A	Z	-24.139	.5
3	MP2A	Mx	.025	.5
4	MP2A	X	-13.937	5.5
5	MP2A	Z	-24.139	5.5
6	MP2A	Mx	.025	5.5
7	MP2B	X	-10.477	.5
8	MP2B	Z	-18.147	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	-10.477	5.5
11	MP2B	Z	-18.147	5.5
12	MP2B	Mx	.008	5.5
13	MP2C	X	-13.152	.5
14	MP2C	Z	-22.781	.5
15	MP2C	Mx	-.024	.5
16	MP2C	X	-13.152	5.5
17	MP2C	Z	-22.781	5.5
18	MP2C	Mx	-.024	5.5
19	MP2A	X	-13.937	.5
20	MP2A	Z	-24.139	.5
21	MP2A	Mx	-.011	.5
22	MP2A	X	-13.937	5.5
23	MP2A	Z	-24.139	5.5
24	MP2A	Mx	-.011	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
25	MP2B	X	-10.477	.5
26	MP2B	Z	-18.147	.5
27	MP2B	Mx	.013	.5
28	MP2B	X	-10.477	5.5
29	MP2B	Z	-18.147	5.5
30	MP2B	Mx	.013	5.5
31	MP2C	X	-13.152	.5
32	MP2C	Z	-22.781	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	-13.152	5.5
35	MP2C	Z	-22.781	5.5
36	MP2C	Mx	.007	5.5
37	MP5A	X	-6.57	2
38	MP5A	Z	-11.38	2
39	MP5A	Mx	.003	2
40	MP5A	X	-6.57	4
41	MP5A	Z	-11.38	4
42	MP5A	Mx	.003	4
43	MP5B	X	-5.024	2
44	MP5B	Z	-8.702	2
45	MP5B	Mx	.005	2
46	MP5B	X	-5.024	4
47	MP5B	Z	-8.702	4
48	MP5B	Mx	.005	4
49	MP5C	X	-6.22	2
50	MP5C	Z	-10.773	2
51	MP5C	Mx	-.004	2
52	MP5C	X	-6.22	4
53	MP5C	Z	-10.773	4
54	MP5C	Mx	-.004	4
55	MP2A	X	-1.551	3
56	MP2A	Z	-2.687	3
57	MP2A	Mx	.000344	3
58	MP2B	X	-1.255	3
59	MP2B	Z	-2.174	3
60	MP2B	Mx	-.001	3
61	MP2C	X	-1.484	3
62	MP2C	Z	-2.571	3
63	MP2C	Mx	6e-6	3
64	MP2A	X	-6.278	3
65	MP2A	Z	-10.874	3
66	MP2A	Mx	-.009	3
67	MP2B	X	-4.791	3
68	MP2B	Z	-8.299	3
69	MP2B	Mx	-.004	3
70	MP2C	X	-5.941	3
71	MP2C	Z	-10.29	3
72	MP2C	Mx	.009	3
73	MP3A	X	-6.082	3
74	MP3A	Z	-10.534	3
75	MP3A	Mx	-.003	3
76	MP3B	X	-4.03	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP3B	Z	-6.981	3
78	MP3B	Mx	-.004	3
79	MP3C	X	-5.617	3
80	MP3C	Z	-9.729	3
81	MP3C	Mx	.004	3
82	OVP2	X	-12.946	1
83	OVP2	Z	-22.424	1
84	OVP2	Mx	0	1
85	MP2A	X	-3.18	.25
86	MP2A	Z	-5.508	.25
87	MP2A	Mx	-.002	.25
88	MP2B	X	-1.571	.25
89	MP2B	Z	-2.721	.25
90	MP2B	Mx	-.002	.25
91	MP2C	X	-2.815	.25
92	MP2C	Z	-4.876	.25
93	MP2C	Mx	.002	.25
94	MP3A	X	-12.649	.5
95	MP3A	Z	-21.909	.5
96	MP3A	Mx	.006	.5
97	MP3A	X	-12.649	5.5
98	MP3A	Z	-21.909	5.5
99	MP3A	Mx	.006	5.5
100	MP3B	X	-9.591	.5
101	MP3B	Z	-16.612	.5
102	MP3B	Mx	.009	.5
103	MP3B	X	-9.591	5.5
104	MP3B	Z	-16.612	5.5
105	MP3B	Mx	.009	5.5
106	MP3C	X	-11.956	.5
107	MP3C	Z	-20.708	.5
108	MP3C	Mx	-.008	.5
109	MP3C	X	-11.956	5.5
110	MP3C	Z	-20.708	5.5
111	MP3C	Mx	-.008	5.5
112	LR1	X	-16.611	1
113	LR1	Z	-28.771	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-9.932	.5
3	MP2A	Mx	.007	.5
4	MP2A	X	0	5.5
5	MP2A	Z	-9.932	5.5
6	MP2A	Mx	.007	5.5
7	MP2B	X	0	.5
8	MP2B	Z	-6.922	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	0	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
11	MP2B	Z	-6.922	5.5
12	MP2B	Mx	.005	5.5
13	MP2C	X	0	.5
14	MP2C	Z	-9.83	.5
15	MP2C	Mx	-.008	.5
16	MP2C	X	0	5.5
17	MP2C	Z	-9.83	5.5
18	MP2C	Mx	-.008	5.5
19	MP2A	X	0	.5
20	MP2A	Z	-9.932	.5
21	MP2A	Mx	-.007	.5
22	MP2A	X	0	5.5
23	MP2A	Z	-9.932	5.5
24	MP2A	Mx	-.007	5.5
25	MP2B	X	0	.5
26	MP2B	Z	-6.922	.5
27	MP2B	Mx	.001	.5
28	MP2B	X	0	5.5
29	MP2B	Z	-6.922	5.5
30	MP2B	Mx	.001	5.5
31	MP2C	X	0	.5
32	MP2C	Z	-9.83	.5
33	MP2C	Mx	.006	.5
34	MP2C	X	0	5.5
35	MP2C	Z	-9.83	5.5
36	MP2C	Mx	.006	5.5
37	MP5A	X	0	2
38	MP5A	Z	-4.503	2
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	-4.503	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	-3.23	2
45	MP5B	Mx	.002	2
46	MP5B	X	0	4
47	MP5B	Z	-3.23	4
48	MP5B	Mx	.002	4
49	MP5C	X	0	2
50	MP5C	Z	-4.459	2
51	MP5C	Mx	-.000387	2
52	MP5C	X	0	4
53	MP5C	Z	-4.459	4
54	MP5C	Mx	-.000387	4
55	MP2A	X	0	3
56	MP2A	Z	-.807	3
57	MP2A	Mx	.000336	3
58	MP2B	X	0	3
59	MP2B	Z	-.587	3
60	MP2B	Mx	-.000192	3
61	MP2C	X	0	3
62	MP2C	Z	-.799	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
63	MP2C	Mx	-.000258	3
64	MP2A	X	0	3
65	MP2A	Z	-3.38	3
66	MP2A	Mx	-.002	3
67	MP2B	X	0	3
68	MP2B	Z	-2.398	3
69	MP2B	Mx	-.002	3
70	MP2C	X	0	3
71	MP2C	Z	-3.346	3
72	MP2C	Mx	.002	3
73	MP3A	X	0	3
74	MP3A	Z	-3.38	3
75	MP3A	Mx	0	3
76	MP3B	X	0	3
77	MP3B	Z	-2.032	3
78	MP3B	Mx	-.000955	3
79	MP3C	X	0	3
80	MP3C	Z	-3.334	3
81	MP3C	Mx	.000289	3
82	OVP2	X	0	1
83	OVP2	Z	-6.228	1
84	OVP2	Mx	0	1
85	MP2A	X	0	.25
86	MP2A	Z	-2.093	.25
87	MP2A	Mx	0	.25
88	MP2B	X	0	.25
89	MP2B	Z	-.852	.25
90	MP2B	Mx	-.0004	.25
91	MP2C	X	0	.25
92	MP2C	Z	-2.051	.25
93	MP2C	Mx	.000178	.25
94	MP3A	X	0	.5
95	MP3A	Z	-6.007	.5
96	MP3A	Mx	0	.5
97	MP3A	X	0	5.5
98	MP3A	Z	-6.007	5.5
99	MP3A	Mx	0	5.5
100	MP3B	X	0	.5
101	MP3B	Z	-2.984	.5
102	MP3B	Mx	.001	.5
103	MP3B	X	0	5.5
104	MP3B	Z	-2.984	5.5
105	MP3B	Mx	.001	5.5
106	MP3C	X	0	.5
107	MP3C	Z	-5.904	.5
108	MP3C	Mx	-.000513	.5
109	MP3C	X	0	5.5
110	MP3C	Z	-5.904	5.5
111	MP3C	Mx	-.000513	5.5
112	LR1	X	0	1
113	LR1	Z	-3.967	1
114	LR1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.54	.5
2	MP2A	Z	-7.864	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	4.54	5.5
5	MP2A	Z	-7.864	5.5
6	MP2A	Mx	.004	5.5
7	MP2B	X	4.262	.5
8	MP2B	Z	-7.382	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	4.262	5.5
11	MP2B	Z	-7.382	5.5
12	MP2B	Mx	.008	5.5
13	MP2C	X	4.767	.5
14	MP2C	Z	-8.256	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	4.767	5.5
17	MP2C	Z	-8.256	5.5
18	MP2C	Mx	-.005	5.5
19	MP2A	X	4.54	.5
20	MP2A	Z	-7.864	.5
21	MP2A	Mx	-.008	.5
22	MP2A	X	4.54	5.5
23	MP2A	Z	-7.864	5.5
24	MP2A	Mx	-.008	5.5
25	MP2B	X	4.262	.5
26	MP2B	Z	-7.382	.5
27	MP2B	Mx	-.002	.5
28	MP2B	X	4.262	5.5
29	MP2B	Z	-7.382	5.5
30	MP2B	Mx	-.002	5.5
31	MP2C	X	4.767	.5
32	MP2C	Z	-8.256	.5
33	MP2C	Mx	.008	.5
34	MP2C	X	4.767	5.5
35	MP2C	Z	-8.256	5.5
36	MP2C	Mx	.008	5.5
37	MP5A	X	2.071	2
38	MP5A	Z	-3.588	2
39	MP5A	Mx	-.001	2
40	MP5A	X	2.071	4
41	MP5A	Z	-3.588	4
42	MP5A	Mx	-.001	4
43	MP5B	X	1.954	2
44	MP5B	Z	-3.384	2
45	MP5B	Mx	.001	2
46	MP5B	X	1.954	4
47	MP5B	Z	-3.384	4
48	MP5B	Mx	.001	4
49	MP5C	X	2.167	2
50	MP5C	Z	-3.754	2
51	MP5C	Mx	.000741	2
52	MP5C	X	2.167	4





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	-3.754	4
54	MP5C	Mx	.000741	4
55	MP2A	X	.372	3
56	MP2A	Z	-.645	3
57	MP2A	Mx	.000455	3
58	MP2B	X	.352	3
59	MP2B	Z	-.61	3
60	MP2B	Mx	-2e-6	3
61	MP2C	X	.389	3
62	MP2C	Z	-.674	3
63	MP2C	Mx	-.000438	3
64	MP2A	X	1.551	3
65	MP2A	Z	-2.686	3
66	MP2A	Mx	-.000791	3
67	MP2B	X	1.46	3
68	MP2B	Z	-2.529	3
69	MP2B	Mx	-.002	3
70	MP2C	X	1.625	3
71	MP2C	Z	-2.814	3
72	MP2C	Mx	.001	3
73	MP3A	X	1.499	3
74	MP3A	Z	-2.597	3
75	MP3A	Mx	.00075	3
76	MP3B	X	1.375	3
77	MP3B	Z	-2.381	3
78	MP3B	Mx	-.000884	3
79	MP3C	X	1.601	3
80	MP3C	Z	-2.772	3
81	MP3C	Mx	-.000548	3
82	OVP2	X	2.725	1
83	OVP2	Z	-4.719	1
84	OVP2	Mx	0	1
85	MP2A	X	.871	.25
86	MP2A	Z	-1.508	.25
87	MP2A	Mx	.000436	.25
88	MP2B	X	.756	.25
89	MP2B	Z	-1.31	.25
90	MP2B	Mx	-.000486	.25
91	MP2C	X	.964	.25
92	MP2C	Z	-1.67	.25
93	MP2C	Mx	-.00033	.25
94	MP3A	X	2.576	.5
95	MP3A	Z	-4.461	.5
96	MP3A	Mx	-.001	.5
97	MP3A	X	2.576	5.5
98	MP3A	Z	-4.461	5.5
99	MP3A	Mx	-.001	5.5
100	MP3B	X	2.296	.5
101	MP3B	Z	-3.978	.5
102	MP3B	Mx	.001	.5
103	MP3B	X	2.296	5.5
104	MP3B	Z	-3.978	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP3B	Mx	.001	5.5
106	MP3C	X	2.803	.5
107	MP3C	Z	-4.856	.5
108	MP3C	Mx	.000959	.5
109	MP3C	X	2.803	5.5
110	MP3C	Z	-4.856	5.5
111	MP3C	Mx	.000959	5.5
112	LR1	X	.395	1
113	LR1	Z	-.685	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	6.388	.5
2	MP2A	Z	-3.688	.5
3	MP2A	Mx	-.000428	.5
4	MP2A	X	6.388	5.5
5	MP2A	Z	-3.688	5.5
6	MP2A	Mx	-.000428	5.5
7	MP2B	X	8.513	.5
8	MP2B	Z	-4.915	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	8.513	5.5
11	MP2B	Z	-4.915	5.5
12	MP2B	Mx	.008	5.5
13	MP2C	X	6.869	.5
14	MP2C	Z	-3.966	.5
15	MP2C	Mx	-.000786	.5
16	MP2C	X	6.869	5.5
17	MP2C	Z	-3.966	5.5
18	MP2C	Mx	-.000786	5.5
19	MP2A	X	6.388	.5
20	MP2A	Z	-3.688	.5
21	MP2A	Mx	-.006	.5
22	MP2A	X	6.388	5.5
23	MP2A	Z	-3.688	5.5
24	MP2A	Mx	-.006	5.5
25	MP2B	X	8.513	.5
26	MP2B	Z	-4.915	.5
27	MP2B	Mx	-.006	.5
28	MP2B	X	8.513	5.5
29	MP2B	Z	-4.915	5.5
30	MP2B	Mx	-.006	5.5
31	MP2C	X	6.869	.5
32	MP2C	Z	-3.966	.5
33	MP2C	Mx	.007	.5
34	MP2C	X	6.869	5.5
35	MP2C	Z	-3.966	5.5
36	MP2C	Mx	.007	5.5
37	MP5A	X	2.964	2
38	MP5A	Z	-1.711	2



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
39	MP5A	Mx	-.001	2
40	MP5A	X	2.964	4
41	MP5A	Z	-1.711	4
42	MP5A	Mx	-.001	4
43	MP5B	X	3.862	2
44	MP5B	Z	-2.23	2
45	MP5B	Mx	.000387	2
46	MP5B	X	3.862	4
47	MP5B	Z	-2.23	4
48	MP5B	Mx	.000387	4
49	MP5C	X	3.167	2
50	MP5C	Z	-1.829	2
51	MP5C	Mx	.001	2
52	MP5C	X	3.167	4
53	MP5C	Z	-1.829	4
54	MP5C	Mx	.001	4
55	MP2A	X	.537	3
56	MP2A	Z	-.31	3
57	MP2A	Mx	.000398	3
58	MP2B	X	.692	3
59	MP2B	Z	-.4	3
60	MP2B	Mx	.000258	3
61	MP2C	X	.572	3
62	MP2C	Z	-.33	3
63	MP2C	Mx	-.00043	3
64	MP2A	X	2.205	3
65	MP2A	Z	-1.273	3
66	MP2A	Mx	.00036	3
67	MP2B	X	2.898	3
68	MP2B	Z	-1.673	3
69	MP2B	Mx	-.002	3
70	MP2C	X	2.362	3
71	MP2C	Z	-1.364	3
72	MP2C	Mx	-2.2e-5	3
73	MP3A	X	1.936	3
74	MP3A	Z	-1.118	3
75	MP3A	Mx	.000968	3
76	MP3B	X	2.887	3
77	MP3B	Z	-1.667	3
78	MP3B	Mx	-.00029	3
79	MP3C	X	2.151	3
80	MP3C	Z	-1.242	3
81	MP3C	Mx	-.000951	3
82	OVP2	X	4.594	1
83	OVP2	Z	-2.653	1
84	OVP2	Mx	0	1
85	MP2A	X	.9	.25
86	MP2A	Z	-.519	.25
87	MP2A	Mx	.00045	.25
88	MP2B	X	1.776	.25
89	MP2B	Z	-1.025	.25
90	MP2B	Mx	-.000178	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	1.098	.25
92	MP2C	Z	-.634	.25
93	MP2C	Mx	-.000486	.25
94	MP3A	X	2.979	.5
95	MP3A	Z	-1.72	.5
96	MP3A	Mx	-.001	.5
97	MP3A	X	2.979	5.5
98	MP3A	Z	-1.72	5.5
99	MP3A	Mx	-.001	5.5
100	MP3B	X	5.113	.5
101	MP3B	Z	-2.952	.5
102	MP3B	Mx	.000513	.5
103	MP3B	X	5.113	5.5
104	MP3B	Z	-2.952	5.5
105	MP3B	Mx	.000513	5.5
106	MP3C	X	3.463	.5
107	MP3C	Z	-1.999	.5
108	MP3C	Mx	.002	.5
109	MP3C	X	3.463	5.5
110	MP3C	Z	-1.999	5.5
111	MP3C	Mx	.002	5.5
112	LR1	X	.177	1
113	LR1	Z	-.102	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	6.524	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.003	.5
4	MP2A	X	6.524	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	-.003	5.5
7	MP2B	X	9.534	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	9.534	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	.005	5.5
13	MP2C	X	6.626	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.002	.5
16	MP2C	X	6.626	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	.002	5.5
19	MP2A	X	6.524	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	-.003	.5
22	MP2A	X	6.524	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	-.003	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2B	X	9.534	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	-.008	.5
28	MP2B	X	9.534	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	-.008	5.5
31	MP2C	X	6.626	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	.004	.5
34	MP2C	X	6.626	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	.004	5.5
37	MP5A	X	3.062	2
38	MP5A	Z	0	2
39	MP5A	Mx	-.002	2
40	MP5A	X	3.062	4
41	MP5A	Z	0	4
42	MP5A	Mx	-.002	4
43	MP5B	X	4.334	2
44	MP5B	Z	0	2
45	MP5B	Mx	-.000741	2
46	MP5B	X	4.334	4
47	MP5B	Z	0	4
48	MP5B	Mx	-.000741	4
49	MP5C	X	3.105	2
50	MP5C	Z	0	2
51	MP5C	Mx	.002	2
52	MP5C	X	3.105	4
53	MP5C	Z	0	4
54	MP5C	Mx	.002	4
55	MP2A	X	.558	3
56	MP2A	Z	0	3
57	MP2A	Mx	.000279	3
58	MP2B	X	.778	3
59	MP2B	Z	0	3
60	MP2B	Mx	.000438	3
61	MP2C	X	.566	3
62	MP2C	Z	0	3
63	MP2C	Mx	-.00032	3
64	MP2A	X	2.268	3
65	MP2A	Z	0	3
66	MP2A	Mx	.001	3
67	MP2B	X	3.25	3
68	MP2B	Z	0	3
69	MP2B	Mx	-.001	3
70	MP2C	X	2.301	3
71	MP2C	Z	0	3
72	MP2C	Mx	-.0009	3
73	MP3A	X	1.853	3
74	MP3A	Z	0	3
75	MP3A	Mx	.000926	3
76	MP3B	X	3.201	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
77	MP3B	Z	0	3
78	MP3B	Mx	.000547	3
79	MP3C	X	1.9	3
80	MP3C	Z	0	3
81	MP3C	Mx	-.000936	3
82	OVP2	X	5.94	1
83	OVP2	Z	0	1
84	OVP2	Mx	0	1
85	MP2A	X	.687	.25
86	MP2A	Z	0	.25
87	MP2A	Mx	.000344	.25
88	MP2B	X	1.929	.25
89	MP2B	Z	0	.25
90	MP2B	Mx	.00033	.25
91	MP2C	X	.73	.25
92	MP2C	Z	0	.25
93	MP2C	Mx	-.000359	.25
94	MP3A	X	2.584	.5
95	MP3A	Z	0	.5
96	MP3A	Mx	-.001	.5
97	MP3A	X	2.584	5.5
98	MP3A	Z	0	5.5
99	MP3A	Mx	-.001	5.5
100	MP3B	X	5.607	.5
101	MP3B	Z	0	.5
102	MP3B	Mx	-.000959	.5
103	MP3B	X	5.607	5.5
104	MP3B	Z	0	5.5
105	MP3B	Mx	-.000959	5.5
106	MP3C	X	2.687	.5
107	MP3C	Z	0	.5
108	MP3C	Mx	.001	.5
109	MP3C	X	2.687	5.5
110	MP3C	Z	0	5.5
111	MP3C	Mx	.001	5.5
112	LR1	X	2.793	1
113	LR1	Z	0	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	6.388	.5
2	MP2A	Z	3.688	.5
3	MP2A	Mx	-.006	.5
4	MP2A	X	6.388	5.5
5	MP2A	Z	3.688	5.5
6	MP2A	Mx	-.006	5.5
7	MP2B	X	6.869	.5
8	MP2B	Z	3.966	.5
9	MP2B	Mx	.000786	.5
10	MP2B	X	6.869	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	3.966	5.5
12	MP2B	Mx	.000786	5.5
13	MP2C	X	5.995	.5
14	MP2C	Z	3.461	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	5.995	5.5
17	MP2C	Z	3.461	5.5
18	MP2C	Mx	.005	5.5
19	MP2A	X	6.388	.5
20	MP2A	Z	3.688	.5
21	MP2A	Mx	-.000428	.5
22	MP2A	X	6.388	5.5
23	MP2A	Z	3.688	5.5
24	MP2A	Mx	-.000428	5.5
25	MP2B	X	6.869	.5
26	MP2B	Z	3.966	.5
27	MP2B	Mx	-.007	.5
28	MP2B	X	6.869	5.5
29	MP2B	Z	3.966	5.5
30	MP2B	Mx	-.007	5.5
31	MP2C	X	5.995	.5
32	MP2C	Z	3.461	.5
33	MP2C	Mx	.001	.5
34	MP2C	X	5.995	5.5
35	MP2C	Z	3.461	5.5
36	MP2C	Mx	.001	5.5
37	MP5A	X	2.964	2
38	MP5A	Z	1.711	2
39	MP5A	Mx	-.001	2
40	MP5A	X	2.964	4
41	MP5A	Z	1.711	4
42	MP5A	Mx	-.001	4
43	MP5B	X	3.167	2
44	MP5B	Z	1.829	2
45	MP5B	Mx	-.001	2
46	MP5B	X	3.167	4
47	MP5B	Z	1.829	4
48	MP5B	Mx	-.001	4
49	MP5C	X	2.797	2
50	MP5C	Z	1.615	2
51	MP5C	Mx	.002	2
52	MP5C	X	2.797	4
53	MP5C	Z	1.615	4
54	MP5C	Mx	.002	4
55	MP2A	X	.537	3
56	MP2A	Z	.31	3
57	MP2A	Mx	.000139	3
58	MP2B	X	.572	3
59	MP2B	Z	.33	3
60	MP2B	Mx	.00043	3
61	MP2C	X	.509	3
62	MP2C	Z	.294	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
63	MP2C	Mx	- .000192	3
64	MP2A	X	2.205	3
65	MP2A	Z	1.273	3
66	MP2A	Mx	.002	3
67	MP2B	X	2.362	3
68	MP2B	Z	1.364	3
69	MP2B	Mx	2.2e-5	3
70	MP2C	X	2.077	3
71	MP2C	Z	1.199	3
72	MP2C	Mx	-.002	3
73	MP3A	X	1.936	3
74	MP3A	Z	1.118	3
75	MP3A	Mx	.000968	3
76	MP3B	X	2.151	3
77	MP3B	Z	1.242	3
78	MP3B	Mx	.000951	3
79	MP3C	X	1.76	3
80	MP3C	Z	1.016	3
81	MP3C	Mx	-.000955	3
82	OVP2	X	5.818	1
83	OVP2	Z	3.359	1
84	OVP2	Mx	0	1
85	MP2A	X	.9	.25
86	MP2A	Z	.519	.25
87	MP2A	Mx	.00045	.25
88	MP2B	X	1.098	.25
89	MP2B	Z	.634	.25
90	MP2B	Mx	.000486	.25
91	MP2C	X	.738	.25
92	MP2C	Z	.426	.25
93	MP2C	Mx	-.0004	.25
94	MP3A	X	2.979	.5
95	MP3A	Z	1.72	.5
96	MP3A	Mx	-.001	.5
97	MP3A	X	2.979	5.5
98	MP3A	Z	1.72	5.5
99	MP3A	Mx	-.001	5.5
100	MP3B	X	3.463	.5
101	MP3B	Z	1.999	.5
102	MP3B	Mx	-.002	.5
103	MP3B	X	3.463	5.5
104	MP3B	Z	1.999	5.5
105	MP3B	Mx	-.002	5.5
106	MP3C	X	2.585	.5
107	MP3C	Z	1.492	.5
108	MP3C	Mx	.001	.5
109	MP3C	X	2.585	5.5
110	MP3C	Z	1.492	5.5
111	MP3C	Mx	.001	5.5
112	LR1	X	5.169	1
113	LR1	Z	2.985	1
114	LR1	Mx	0	1





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	4.54	.5
2	MP2A	Z	7.864	.5
3	MP2A	Mx	-.008	.5
4	MP2A	X	4.54	5.5
5	MP2A	Z	7.864	5.5
6	MP2A	Mx	-.008	5.5
7	MP2B	X	3.313	.5
8	MP2B	Z	5.739	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	3.313	5.5
11	MP2B	Z	5.739	5.5
12	MP2B	Mx	-.002	5.5
13	MP2C	X	4.262	.5
14	MP2C	Z	7.382	.5
15	MP2C	Mx	.008	.5
16	MP2C	X	4.262	5.5
17	MP2C	Z	7.382	5.5
18	MP2C	Mx	.008	5.5
19	MP2A	X	4.54	.5
20	MP2A	Z	7.864	.5
21	MP2A	Mx	.004	.5
22	MP2A	X	4.54	5.5
23	MP2A	Z	7.864	5.5
24	MP2A	Mx	.004	5.5
25	MP2B	X	3.313	.5
26	MP2B	Z	5.739	.5
27	MP2B	Mx	-.004	.5
28	MP2B	X	3.313	5.5
29	MP2B	Z	5.739	5.5
30	MP2B	Mx	-.004	5.5
31	MP2C	X	4.262	.5
32	MP2C	Z	7.382	.5
33	MP2C	Mx	-.002	.5
34	MP2C	X	4.262	5.5
35	MP2C	Z	7.382	5.5
36	MP2C	Mx	-.002	5.5
37	MP5A	X	2.071	2
38	MP5A	Z	3.588	2
39	MP5A	Mx	-.001	2
40	MP5A	X	2.071	4
41	MP5A	Z	3.588	4
42	MP5A	Mx	-.001	4
43	MP5B	X	1.553	2
44	MP5B	Z	2.689	2
45	MP5B	Mx	-.002	2
46	MP5B	X	1.553	4
47	MP5B	Z	2.689	4
48	MP5B	Mx	-.002	4
49	MP5C	X	1.954	2
50	MP5C	Z	3.384	2
51	MP5C	Mx	.001	2
52	MP5C	X	1.954	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	3.384	4
54	MP5C	Mx	.001	4
55	MP2A	X	.372	3
56	MP2A	Z	.645	3
57	MP2A	Mx	-8.3e-5	3
58	MP2B	X	.283	3
59	MP2B	Z	.49	3
60	MP2B	Mx	.00032	3
61	MP2C	X	.352	3
62	MP2C	Z	.61	3
63	MP2C	Mx	-1e-6	3
64	MP2A	X	1.551	3
65	MP2A	Z	2.686	3
66	MP2A	Mx	.002	3
67	MP2B	X	1.151	3
68	MP2B	Z	1.993	3
69	MP2B	Mx	.0009	3
70	MP2C	X	1.46	3
71	MP2C	Z	2.529	3
72	MP2C	Mx	-.002	3
73	MP3A	X	1.499	3
74	MP3A	Z	2.597	3
75	MP3A	Mx	.00075	3
76	MP3B	X	.95	3
77	MP3B	Z	1.645	3
78	MP3B	Mx	.000935	3
79	MP3C	X	1.375	3
80	MP3C	Z	2.381	3
81	MP3C	Mx	-.000884	3
82	OVP2	X	3.431	1
83	OVP2	Z	5.943	1
84	OVP2	Mx	0	1
85	MP2A	X	.871	.25
86	MP2A	Z	1.508	.25
87	MP2A	Mx	.000436	.25
88	MP2B	X	.365	.25
89	MP2B	Z	.632	.25
90	MP2B	Mx	.000359	.25
91	MP2C	X	.756	.25
92	MP2C	Z	1.31	.25
93	MP2C	Mx	-.000486	.25
94	MP3A	X	2.576	.5
95	MP3A	Z	4.461	.5
96	MP3A	Mx	-.001	.5
97	MP3A	X	2.576	5.5
98	MP3A	Z	4.461	5.5
99	MP3A	Mx	-.001	5.5
100	MP3B	X	1.344	.5
101	MP3B	Z	2.327	.5
102	MP3B	Mx	-.001	.5
103	MP3B	X	1.344	5.5
104	MP3B	Z	2.327	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP3B	Mx	-.001	5.5
106	MP3C	X	2.296	.5
107	MP3C	Z	3.978	.5
108	MP3C	Mx	.001	.5
109	MP3C	X	2.296	5.5
110	MP3C	Z	3.978	5.5
111	MP3C	Mx	.001	5.5
112	LR1	X	3.278	1
113	LR1	Z	5.678	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	9.932	.5
3	MP2A	Mx	-.007	.5
4	MP2A	X	0	5.5
5	MP2A	Z	9.932	5.5
6	MP2A	Mx	-.007	5.5
7	MP2B	X	0	.5
8	MP2B	Z	6.922	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	0	5.5
11	MP2B	Z	6.922	5.5
12	MP2B	Mx	-.005	5.5
13	MP2C	X	0	.5
14	MP2C	Z	9.83	.5
15	MP2C	Mx	.008	.5
16	MP2C	X	0	5.5
17	MP2C	Z	9.83	5.5
18	MP2C	Mx	.008	5.5
19	MP2A	X	0	.5
20	MP2A	Z	9.932	.5
21	MP2A	Mx	.007	.5
22	MP2A	X	0	5.5
23	MP2A	Z	9.932	5.5
24	MP2A	Mx	.007	5.5
25	MP2B	X	0	.5
26	MP2B	Z	6.922	.5
27	MP2B	Mx	-.001	.5
28	MP2B	X	0	5.5
29	MP2B	Z	6.922	5.5
30	MP2B	Mx	-.001	5.5
31	MP2C	X	0	.5
32	MP2C	Z	9.83	.5
33	MP2C	Mx	-.006	.5
34	MP2C	X	0	5.5
35	MP2C	Z	9.83	5.5
36	MP2C	Mx	-.006	5.5
37	MP5A	X	0	2
38	MP5A	Z	4.503	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
39	MP5A	Mx	0	2
40	MP5A	X	0	4
41	MP5A	Z	4.503	4
42	MP5A	Mx	0	4
43	MP5B	X	0	2
44	MP5B	Z	3.23	2
45	MP5B	Mx	-.002	2
46	MP5B	X	0	4
47	MP5B	Z	3.23	4
48	MP5B	Mx	-.002	4
49	MP5C	X	0	2
50	MP5C	Z	4.459	2
51	MP5C	Mx	.000387	2
52	MP5C	X	0	4
53	MP5C	Z	4.459	4
54	MP5C	Mx	.000387	4
55	MP2A	X	0	3
56	MP2A	Z	.807	3
57	MP2A	Mx	-.000336	3
58	MP2B	X	0	3
59	MP2B	Z	.587	3
60	MP2B	Mx	.000192	3
61	MP2C	X	0	3
62	MP2C	Z	.799	3
63	MP2C	Mx	.000258	3
64	MP2A	X	0	3
65	MP2A	Z	3.38	3
66	MP2A	Mx	.002	3
67	MP2B	X	0	3
68	MP2B	Z	2.398	3
69	MP2B	Mx	.002	3
70	MP2C	X	0	3
71	MP2C	Z	3.346	3
72	MP2C	Mx	-.002	3
73	MP3A	X	0	3
74	MP3A	Z	3.38	3
75	MP3A	Mx	0	3
76	MP3B	X	0	3
77	MP3B	Z	2.032	3
78	MP3B	Mx	.000955	3
79	MP3C	X	0	3
80	MP3C	Z	3.334	3
81	MP3C	Mx	-.000289	3
82	OVP2	X	0	1
83	OVP2	Z	6.228	1
84	OVP2	Mx	0	1
85	MP2A	X	0	.25
86	MP2A	Z	2.093	.25
87	MP2A	Mx	0	.25
88	MP2B	X	0	.25
89	MP2B	Z	.852	.25
90	MP2B	Mx	.0004	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2C	X	0	.25
92	MP2C	Z	2.051	.25
93	MP2C	Mx	-.000178	.25
94	MP3A	X	0	.5
95	MP3A	Z	6.007	.5
96	MP3A	Mx	0	.5
97	MP3A	X	0	5.5
98	MP3A	Z	6.007	5.5
99	MP3A	Mx	0	5.5
100	MP3B	X	0	.5
101	MP3B	Z	2.984	.5
102	MP3B	Mx	-.001	.5
103	MP3B	X	0	5.5
104	MP3B	Z	2.984	5.5
105	MP3B	Mx	-.001	5.5
106	MP3C	X	0	.5
107	MP3C	Z	5.904	.5
108	MP3C	Mx	.000513	.5
109	MP3C	X	0	5.5
110	MP3C	Z	5.904	5.5
111	MP3C	Mx	.000513	5.5
112	LR1	X	0	1
113	LR1	Z	3.967	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-4.54	.5
2	MP2A	Z	7.864	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	-4.54	5.5
5	MP2A	Z	7.864	5.5
6	MP2A	Mx	-.004	5.5
7	MP2B	X	-4.262	.5
8	MP2B	Z	7.382	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	-4.262	5.5
11	MP2B	Z	7.382	5.5
12	MP2B	Mx	-.008	5.5
13	MP2C	X	-4.767	.5
14	MP2C	Z	8.256	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	-4.767	5.5
17	MP2C	Z	8.256	5.5
18	MP2C	Mx	.005	5.5
19	MP2A	X	-4.54	.5
20	MP2A	Z	7.864	.5
21	MP2A	Mx	.008	.5
22	MP2A	X	-4.54	5.5
23	MP2A	Z	7.864	5.5
24	MP2A	Mx	.008	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
25	MP2B	X	-4.262	.5
26	MP2B	Z	7.382	.5
27	MP2B	Mx	.002	.5
28	MP2B	X	-4.262	5.5
29	MP2B	Z	7.382	5.5
30	MP2B	Mx	.002	5.5
31	MP2C	X	-4.767	.5
32	MP2C	Z	8.256	.5
33	MP2C	Mx	-.008	.5
34	MP2C	X	-4.767	5.5
35	MP2C	Z	8.256	5.5
36	MP2C	Mx	-.008	5.5
37	MP5A	X	-2.071	2
38	MP5A	Z	3.588	2
39	MP5A	Mx	.001	2
40	MP5A	X	-2.071	4
41	MP5A	Z	3.588	4
42	MP5A	Mx	.001	4
43	MP5B	X	-1.954	2
44	MP5B	Z	3.384	2
45	MP5B	Mx	-.001	2
46	MP5B	X	-1.954	4
47	MP5B	Z	3.384	4
48	MP5B	Mx	-.001	4
49	MP5C	X	-2.167	2
50	MP5C	Z	3.754	2
51	MP5C	Mx	-.000741	2
52	MP5C	X	-2.167	4
53	MP5C	Z	3.754	4
54	MP5C	Mx	-.000741	4
55	MP2A	X	-.372	3
56	MP2A	Z	.645	3
57	MP2A	Mx	-.000455	3
58	MP2B	X	-.352	3
59	MP2B	Z	.61	3
60	MP2B	Mx	2e-6	3
61	MP2C	X	-.389	3
62	MP2C	Z	.674	3
63	MP2C	Mx	.000438	3
64	MP2A	X	-1.551	3
65	MP2A	Z	2.686	3
66	MP2A	Mx	.000791	3
67	MP2B	X	-1.46	3
68	MP2B	Z	2.529	3
69	MP2B	Mx	.002	3
70	MP2C	X	-1.625	3
71	MP2C	Z	2.814	3
72	MP2C	Mx	-.001	3
73	MP3A	X	-1.499	3
74	MP3A	Z	2.597	3
75	MP3A	Mx	-.00075	3
76	MP3B	X	-1.375	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
77	MP3B	Z	2.381	3
78	MP3B	Mx	.000884	3
79	MP3C	X	-1.601	3
80	MP3C	Z	2.772	3
81	MP3C	Mx	.000548	3
82	OVP2	X	-2.725	1
83	OVP2	Z	4.719	1
84	OVP2	Mx	0	1
85	MP2A	X	-.871	.25
86	MP2A	Z	1.508	.25
87	MP2A	Mx	-.000436	.25
88	MP2B	X	-.756	.25
89	MP2B	Z	1.31	.25
90	MP2B	Mx	.000486	.25
91	MP2C	X	-.964	.25
92	MP2C	Z	1.67	.25
93	MP2C	Mx	.00033	.25
94	MP3A	X	-2.576	.5
95	MP3A	Z	4.461	.5
96	MP3A	Mx	.001	.5
97	MP3A	X	-2.576	5.5
98	MP3A	Z	4.461	5.5
99	MP3A	Mx	.001	5.5
100	MP3B	X	-2.296	.5
101	MP3B	Z	3.978	.5
102	MP3B	Mx	-.001	.5
103	MP3B	X	-2.296	5.5
104	MP3B	Z	3.978	5.5
105	MP3B	Mx	-.001	5.5
106	MP3C	X	-2.803	.5
107	MP3C	Z	4.856	.5
108	MP3C	Mx	-.000959	.5
109	MP3C	X	-2.803	5.5
110	MP3C	Z	4.856	5.5
111	MP3C	Mx	-.000959	5.5
112	LR1	X	-.395	1
113	LR1	Z	.685	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.388	.5
2	MP2A	Z	3.688	.5
3	MP2A	Mx	.000428	.5
4	MP2A	X	-6.388	5.5
5	MP2A	Z	3.688	5.5
6	MP2A	Mx	.000428	5.5
7	MP2B	X	-8.513	.5
8	MP2B	Z	4.915	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	-8.513	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	4.915	5.5
12	MP2B	Mx	- .008	5.5
13	MP2C	X	-6.869	.5
14	MP2C	Z	3.966	.5
15	MP2C	Mx	.000786	.5
16	MP2C	X	-6.869	5.5
17	MP2C	Z	3.966	5.5
18	MP2C	Mx	.000786	5.5
19	MP2A	X	-6.388	.5
20	MP2A	Z	3.688	.5
21	MP2A	Mx	.006	.5
22	MP2A	X	-6.388	5.5
23	MP2A	Z	3.688	5.5
24	MP2A	Mx	.006	5.5
25	MP2B	X	-8.513	.5
26	MP2B	Z	4.915	.5
27	MP2B	Mx	.006	.5
28	MP2B	X	-8.513	5.5
29	MP2B	Z	4.915	5.5
30	MP2B	Mx	.006	5.5
31	MP2C	X	-6.869	.5
32	MP2C	Z	3.966	.5
33	MP2C	Mx	- .007	.5
34	MP2C	X	-6.869	5.5
35	MP2C	Z	3.966	5.5
36	MP2C	Mx	- .007	5.5
37	MP5A	X	-2.964	2
38	MP5A	Z	1.711	2
39	MP5A	Mx	.001	2
40	MP5A	X	-2.964	4
41	MP5A	Z	1.711	4
42	MP5A	Mx	.001	4
43	MP5B	X	-3.862	2
44	MP5B	Z	2.23	2
45	MP5B	Mx	-.000387	2
46	MP5B	X	-3.862	4
47	MP5B	Z	2.23	4
48	MP5B	Mx	-.000387	4
49	MP5C	X	-3.167	2
50	MP5C	Z	1.829	2
51	MP5C	Mx	- .001	2
52	MP5C	X	-3.167	4
53	MP5C	Z	1.829	4
54	MP5C	Mx	- .001	4
55	MP2A	X	-.537	3
56	MP2A	Z	.31	3
57	MP2A	Mx	-.000398	3
58	MP2B	X	-.692	3
59	MP2B	Z	.4	3
60	MP2B	Mx	-.000258	3
61	MP2C	X	-.572	3
62	MP2C	Z	.33	3





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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP2C	Mx	.00043	3
64	MP2A	X	-2.205	3
65	MP2A	Z	1.273	3
66	MP2A	Mx	-.00036	3
67	MP2B	X	-2.898	3
68	MP2B	Z	1.673	3
69	MP2B	Mx	.002	3
70	MP2C	X	-2.362	3
71	MP2C	Z	1.364	3
72	MP2C	Mx	2.2e-5	3
73	MP3A	X	-1.936	3
74	MP3A	Z	1.118	3
75	MP3A	Mx	-.000968	3
76	MP3B	X	-2.887	3
77	MP3B	Z	1.667	3
78	MP3B	Mx	.00029	3
79	MP3C	X	-2.151	3
80	MP3C	Z	1.242	3
81	MP3C	Mx	.000951	3
82	OVP2	X	-4.594	1
83	OVP2	Z	2.653	1
84	OVP2	Mx	0	1
85	MP2A	X	-.9	.25
86	MP2A	Z	.519	.25
87	MP2A	Mx	-.00045	.25
88	MP2B	X	-1.776	.25
89	MP2B	Z	1.025	.25
90	MP2B	Mx	.000178	.25
91	MP2C	X	-1.098	.25
92	MP2C	Z	.634	.25
93	MP2C	Mx	.000486	.25
94	MP3A	X	-2.979	.5
95	MP3A	Z	1.72	.5
96	MP3A	Mx	.001	.5
97	MP3A	X	-2.979	5.5
98	MP3A	Z	1.72	5.5
99	MP3A	Mx	.001	5.5
100	MP3B	X	-5.113	.5
101	MP3B	Z	2.952	.5
102	MP3B	Mx	-.000513	.5
103	MP3B	X	-5.113	5.5
104	MP3B	Z	2.952	5.5
105	MP3B	Mx	-.000513	5.5
106	MP3C	X	-3.463	.5
107	MP3C	Z	1.999	.5
108	MP3C	Mx	-.002	.5
109	MP3C	X	-3.463	5.5
110	MP3C	Z	1.999	5.5
111	MP3C	Mx	-.002	5.5
112	LR1	X	-.177	1
113	LR1	Z	.102	1
114	LR1	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.524	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.003	.5
4	MP2A	X	-6.524	5.5
5	MP2A	Z	0	5.5
6	MP2A	Mx	.003	5.5
7	MP2B	X	-9.534	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	-9.534	5.5
11	MP2B	Z	0	5.5
12	MP2B	Mx	-.005	5.5
13	MP2C	X	-6.626	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.002	.5
16	MP2C	X	-6.626	5.5
17	MP2C	Z	0	5.5
18	MP2C	Mx	-.002	5.5
19	MP2A	X	-6.524	.5
20	MP2A	Z	0	.5
21	MP2A	Mx	.003	.5
22	MP2A	X	-6.524	5.5
23	MP2A	Z	0	5.5
24	MP2A	Mx	.003	5.5
25	MP2B	X	-9.534	.5
26	MP2B	Z	0	.5
27	MP2B	Mx	.008	.5
28	MP2B	X	-9.534	5.5
29	MP2B	Z	0	5.5
30	MP2B	Mx	.008	5.5
31	MP2C	X	-6.626	.5
32	MP2C	Z	0	.5
33	MP2C	Mx	-.004	.5
34	MP2C	X	-6.626	5.5
35	MP2C	Z	0	5.5
36	MP2C	Mx	-.004	5.5
37	MP5A	X	-3.062	2
38	MP5A	Z	0	2
39	MP5A	Mx	.002	2
40	MP5A	X	-3.062	4
41	MP5A	Z	0	4
42	MP5A	Mx	.002	4
43	MP5B	X	-4.334	2
44	MP5B	Z	0	2
45	MP5B	Mx	.000741	2
46	MP5B	X	-4.334	4
47	MP5B	Z	0	4
48	MP5B	Mx	.000741	4
49	MP5C	X	-3.105	2
50	MP5C	Z	0	2
51	MP5C	Mx	-.002	2
52	MP5C	X	-3.105	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP5C	Z	0	4
54	MP5C	Mx	-.002	4
55	MP2A	X	-.558	3
56	MP2A	Z	0	3
57	MP2A	Mx	-.000279	3
58	MP2B	X	-.778	3
59	MP2B	Z	0	3
60	MP2B	Mx	-.000438	3
61	MP2C	X	-.566	3
62	MP2C	Z	0	3
63	MP2C	Mx	.00032	3
64	MP2A	X	-2.268	3
65	MP2A	Z	0	3
66	MP2A	Mx	-.001	3
67	MP2B	X	-3.25	3
68	MP2B	Z	0	3
69	MP2B	Mx	.001	3
70	MP2C	X	-2.301	3
71	MP2C	Z	0	3
72	MP2C	Mx	.0009	3
73	MP3A	X	-1.853	3
74	MP3A	Z	0	3
75	MP3A	Mx	-.000926	3
76	MP3B	X	-3.201	3
77	MP3B	Z	0	3
78	MP3B	Mx	-.000547	3
79	MP3C	X	-1.9	3
80	MP3C	Z	0	3
81	MP3C	Mx	.000936	3
82	OVP2	X	-5.94	1
83	OVP2	Z	0	1
84	OVP2	Mx	0	1
85	MP2A	X	-.687	.25
86	MP2A	Z	0	.25
87	MP2A	Mx	-.000344	.25
88	MP2B	X	-1.929	.25
89	MP2B	Z	0	.25
90	MP2B	Mx	-.00033	.25
91	MP2C	X	-.73	.25
92	MP2C	Z	0	.25
93	MP2C	Mx	.000359	.25
94	MP3A	X	-2.584	.5
95	MP3A	Z	0	.5
96	MP3A	Mx	.001	.5
97	MP3A	X	-2.584	5.5
98	MP3A	Z	0	5.5
99	MP3A	Mx	.001	5.5
100	MP3B	X	-5.607	.5
101	MP3B	Z	0	.5
102	MP3B	Mx	.000959	.5
103	MP3B	X	-5.607	5.5
104	MP3B	Z	0	5.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP3B	Mx	.000959	5.5
106	MP3C	X	-2.687	.5
107	MP3C	Z	0	.5
108	MP3C	Mx	-.001	.5
109	MP3C	X	-2.687	5.5
110	MP3C	Z	0	5.5
111	MP3C	Mx	-.001	5.5
112	LR1	X	-2.793	1
113	LR1	Z	0	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-6.388	.5
2	MP2A	Z	-3.688	.5
3	MP2A	Mx	.006	.5
4	MP2A	X	-6.388	5.5
5	MP2A	Z	-3.688	5.5
6	MP2A	Mx	.006	5.5
7	MP2B	X	-6.869	.5
8	MP2B	Z	-3.966	.5
9	MP2B	Mx	-.000786	.5
10	MP2B	X	-6.869	5.5
11	MP2B	Z	-3.966	5.5
12	MP2B	Mx	-.000786	5.5
13	MP2C	X	-5.995	.5
14	MP2C	Z	-3.461	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	-5.995	5.5
17	MP2C	Z	-3.461	5.5
18	MP2C	Mx	-.005	5.5
19	MP2A	X	-6.388	.5
20	MP2A	Z	-3.688	.5
21	MP2A	Mx	.000428	.5
22	MP2A	X	-6.388	5.5
23	MP2A	Z	-3.688	5.5
24	MP2A	Mx	.000428	5.5
25	MP2B	X	-6.869	.5
26	MP2B	Z	-3.966	.5
27	MP2B	Mx	.007	.5
28	MP2B	X	-6.869	5.5
29	MP2B	Z	-3.966	5.5
30	MP2B	Mx	.007	5.5
31	MP2C	X	-5.995	.5
32	MP2C	Z	-3.461	.5
33	MP2C	Mx	-.001	.5
34	MP2C	X	-5.995	5.5
35	MP2C	Z	-3.461	5.5
36	MP2C	Mx	-.001	5.5
37	MP5A	X	-2.964	2
38	MP5A	Z	-1.711	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
39	MP5A	Mx	.001	2
40	MP5A	X	-2.964	4
41	MP5A	Z	-1.711	4
42	MP5A	Mx	.001	4
43	MP5B	X	-3.167	2
44	MP5B	Z	-1.829	2
45	MP5B	Mx	.001	2
46	MP5B	X	-3.167	4
47	MP5B	Z	-1.829	4
48	MP5B	Mx	.001	4
49	MP5C	X	-2.797	2
50	MP5C	Z	-1.615	2
51	MP5C	Mx	-.002	2
52	MP5C	X	-2.797	4
53	MP5C	Z	-1.615	4
54	MP5C	Mx	-.002	4
55	MP2A	X	-.537	3
56	MP2A	Z	-.31	3
57	MP2A	Mx	-.000139	3
58	MP2B	X	-.572	3
59	MP2B	Z	-.33	3
60	MP2B	Mx	-.00043	3
61	MP2C	X	-.509	3
62	MP2C	Z	-.294	3
63	MP2C	Mx	.000192	3
64	MP2A	X	-2.205	3
65	MP2A	Z	-1.273	3
66	MP2A	Mx	-.002	3
67	MP2B	X	-2.362	3
68	MP2B	Z	-1.364	3
69	MP2B	Mx	-2.2e-5	3
70	MP2C	X	-2.077	3
71	MP2C	Z	-1.199	3
72	MP2C	Mx	.002	3
73	MP3A	X	-1.936	3
74	MP3A	Z	-1.118	3
75	MP3A	Mx	-.000968	3
76	MP3B	X	-2.151	3
77	MP3B	Z	-1.242	3
78	MP3B	Mx	-.000951	3
79	MP3C	X	-1.76	3
80	MP3C	Z	-1.016	3
81	MP3C	Mx	.000955	3
82	OVP2	X	-5.818	1
83	OVP2	Z	-3.359	1
84	OVP2	Mx	0	1
85	MP2A	X	-.9	.25
86	MP2A	Z	-.519	.25
87	MP2A	Mx	-.00045	.25
88	MP2B	X	-1.098	.25
89	MP2B	Z	-.634	.25
90	MP2B	Mx	-.000486	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
91	MP2C	X	-.738	.25
92	MP2C	Z	-.426	.25
93	MP2C	Mx	.0004	.25
94	MP3A	X	-2.979	.5
95	MP3A	Z	-1.72	.5
96	MP3A	Mx	.001	.5
97	MP3A	X	-2.979	5.5
98	MP3A	Z	-1.72	5.5
99	MP3A	Mx	.001	5.5
100	MP3B	X	-3.463	.5
101	MP3B	Z	-1.999	.5
102	MP3B	Mx	.002	.5
103	MP3B	X	-3.463	5.5
104	MP3B	Z	-1.999	5.5
105	MP3B	Mx	.002	5.5
106	MP3C	X	-2.585	.5
107	MP3C	Z	-1.492	.5
108	MP3C	Mx	-.001	.5
109	MP3C	X	-2.585	5.5
110	MP3C	Z	-1.492	5.5
111	MP3C	Mx	-.001	5.5
112	LR1	X	-5.169	1
113	LR1	Z	-2.985	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	MP2A	X	-4.54	.5
2	MP2A	Z	-7.864	.5
3	MP2A	Mx	.008	.5
4	MP2A	X	-4.54	5.5
5	MP2A	Z	-7.864	5.5
6	MP2A	Mx	.008	5.5
7	MP2B	X	-3.313	.5
8	MP2B	Z	-5.739	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	-3.313	5.5
11	MP2B	Z	-5.739	5.5
12	MP2B	Mx	.002	5.5
13	MP2C	X	-4.262	.5
14	MP2C	Z	-7.382	.5
15	MP2C	Mx	-.008	.5
16	MP2C	X	-4.262	5.5
17	MP2C	Z	-7.382	5.5
18	MP2C	Mx	-.008	5.5
19	MP2A	X	-4.54	.5
20	MP2A	Z	-7.864	.5
21	MP2A	Mx	-.004	.5
22	MP2A	X	-4.54	5.5
23	MP2A	Z	-7.864	5.5
24	MP2A	Mx	-.004	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
25	MP2B	X	-3.313	.5
26	MP2B	Z	-5.739	.5
27	MP2B	Mx	.004	.5
28	MP2B	X	-3.313	5.5
29	MP2B	Z	-5.739	5.5
30	MP2B	Mx	.004	5.5
31	MP2C	X	-4.262	.5
32	MP2C	Z	-7.382	.5
33	MP2C	Mx	.002	.5
34	MP2C	X	-4.262	5.5
35	MP2C	Z	-7.382	5.5
36	MP2C	Mx	.002	5.5
37	MP5A	X	-2.071	2
38	MP5A	Z	-3.588	2
39	MP5A	Mx	.001	2
40	MP5A	X	-2.071	4
41	MP5A	Z	-3.588	4
42	MP5A	Mx	.001	4
43	MP5B	X	-1.553	2
44	MP5B	Z	-2.689	2
45	MP5B	Mx	.002	2
46	MP5B	X	-1.553	4
47	MP5B	Z	-2.689	4
48	MP5B	Mx	.002	4
49	MP5C	X	-1.954	2
50	MP5C	Z	-3.384	2
51	MP5C	Mx	-.001	2
52	MP5C	X	-1.954	4
53	MP5C	Z	-3.384	4
54	MP5C	Mx	-.001	4
55	MP2A	X	-.372	3
56	MP2A	Z	-.645	3
57	MP2A	Mx	8.3e-5	3
58	MP2B	X	-.283	3
59	MP2B	Z	-.49	3
60	MP2B	Mx	-.00032	3
61	MP2C	X	-.352	3
62	MP2C	Z	-.61	3
63	MP2C	Mx	1e-6	3
64	MP2A	X	-1.551	3
65	MP2A	Z	-2.686	3
66	MP2A	Mx	-.002	3
67	MP2B	X	-1.151	3
68	MP2B	Z	-1.993	3
69	MP2B	Mx	-.0009	3
70	MP2C	X	-1.46	3
71	MP2C	Z	-2.529	3
72	MP2C	Mx	.002	3
73	MP3A	X	-1.499	3
74	MP3A	Z	-2.597	3
75	MP3A	Mx	-.00075	3
76	MP3B	X	-.95	3



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
77	MP3B	Z	-1.645	3
78	MP3B	Mx	-0.00935	3
79	MP3C	X	-1.375	3
80	MP3C	Z	-2.381	3
81	MP3C	Mx	.000884	3
82	OVP2	X	-3.431	1
83	OVP2	Z	-5.943	1
84	OVP2	Mx	0	1
85	MP2A	X	-.871	.25
86	MP2A	Z	-1.508	.25
87	MP2A	Mx	-.000436	.25
88	MP2B	X	-.365	.25
89	MP2B	Z	-.632	.25
90	MP2B	Mx	-.000359	.25
91	MP2C	X	-.756	.25
92	MP2C	Z	-1.31	.25
93	MP2C	Mx	.000486	.25
94	MP3A	X	-2.576	.5
95	MP3A	Z	-4.461	.5
96	MP3A	Mx	.001	.5
97	MP3A	X	-2.576	5.5
98	MP3A	Z	-4.461	5.5
99	MP3A	Mx	.001	5.5
100	MP3B	X	-1.344	.5
101	MP3B	Z	-2.327	.5
102	MP3B	Mx	.001	.5
103	MP3B	X	-1.344	5.5
104	MP3B	Z	-2.327	5.5
105	MP3B	Mx	.001	5.5
106	MP3C	X	-2.296	.5
107	MP3C	Z	-3.978	.5
108	MP3C	Mx	-.001	.5
109	MP3C	X	-2.296	5.5
110	MP3C	Z	-3.978	5.5
111	MP3C	Mx	-.001	5.5
112	LR1	X	-3.278	1
113	LR1	Z	-5.678	1
114	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	LM2	Y	-500	0

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
1	LM1	Y	-500	0

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

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





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

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

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-1.337	.5
2	MP2A	My	-.000668	.5
3	MP2A	Mz	-.001	.5
4	MP2A	Y	-1.337	5.5
5	MP2A	My	-.000668	5.5
6	MP2A	Mz	-.001	5.5
7	MP2B	Y	-1.337	.5
8	MP2B	My	.000714	.5
9	MP2B	Mz	-.000971	.5
10	MP2B	Y	-1.337	5.5
11	MP2B	My	.000714	5.5
12	MP2B	Mz	-.000971	5.5
13	MP2C	Y	-1.337	.5
14	MP2C	My	.000484	.5
15	MP2C	Mz	.001	.5
16	MP2C	Y	-1.337	5.5
17	MP2C	My	.000484	5.5
18	MP2C	Mz	.001	5.5
19	MP2A	Y	-1.337	.5
20	MP2A	My	-.000668	.5
21	MP2A	Mz	.001	.5
22	MP2A	Y	-1.337	5.5
23	MP2A	My	-.000668	5.5
24	MP2A	Mz	.001	5.5
25	MP2B	Y	-1.337	.5
26	MP2B	My	-.001	.5
27	MP2B	Mz	-.000285	.5
28	MP2B	Y	-1.337	5.5
29	MP2B	My	-.001	5.5
30	MP2B	Mz	-.000285	5.5
31	MP2C	Y	-1.337	.5
32	MP2C	My	.000832	.5
33	MP2C	Mz	-.000871	.5
34	MP2C	Y	-1.337	5.5
35	MP2C	My	.000832	5.5
36	MP2C	Mz	-.000871	5.5
37	MP5A	Y	-1.859	2
38	MP5A	My	-.000929	2
39	MP5A	Mz	0	2
40	MP5A	Y	-1.859	4
41	MP5A	My	-.000929	4
42	MP5A	Mz	0	4
43	MP5B	Y	-1.859	2
44	MP5B	My	-.000318	2
45	MP5B	Mz	-.000873	2
46	MP5B	Y	-1.859	4
47	MP5B	My	-.000318	4



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
48	MP5B	Mz	-.000873	4
49	MP5C	Y	-1.859	2
50	MP5C	My	.000915	2
51	MP5C	Mz	.000161	2
52	MP5C	Y	-1.859	4
53	MP5C	My	.000915	4
54	MP5C	Mz	.000161	4
55	MP2A	Y	-.439	3
56	MP2A	My	.00022	3
57	MP2A	Mz	-.000183	3
58	MP2B	Y	-.439	3
59	MP2B	My	.000247	3
60	MP2B	Mz	.000144	3
61	MP2C	Y	-.439	3
62	MP2C	My	-.000248	3
63	MP2C	Mz	.000142	3
64	MP2A	Y	-3.565	3
65	MP2A	My	.002	3
66	MP2A	Mz	.002	3
67	MP2B	Y	-3.565	3
68	MP2B	My	-.001	3
69	MP2B	Mz	.002	3
70	MP2C	Y	-3.565	3
71	MP2C	My	-.001	3
72	MP2C	Mz	-.002	3
73	MP3A	Y	-2.969	3
74	MP3A	My	.001	3
75	MP3A	Mz	0	3
76	MP3B	Y	-2.969	3
77	MP3B	My	.000508	3
78	MP3B	Mz	.001	3
79	MP3C	Y	-2.969	3
80	MP3C	My	-.001	3
81	MP3C	Mz	-.000258	3
82	OVP2	Y	-1.352	1
83	OVP2	My	0	1
84	OVP2	Mz	0	1
85	MP2A	Y	-.743	.25
86	MP2A	My	.000372	.25
87	MP2A	Mz	0	.25
88	MP2B	Y	-.743	.25
89	MP2B	My	.000127	.25
90	MP2B	Mz	.000349	.25
91	MP2C	Y	-.743	.25
92	MP2C	My	-.000366	.25
93	MP2C	Mz	-6.5e-5	.25
94	MP3A	Y	-.857	.5
95	MP3A	My	-.000429	.5
96	MP3A	Mz	0	.5
97	MP3A	Y	-.857	5.5
98	MP3A	My	-.000429	5.5
99	MP3A	Mz	0	5.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
100	MP3B	Y	- .857	.5
101	MP3B	My	-.000147	.5
102	MP3B	Mz	-.000403	.5
103	MP3B	Y	-.857	5.5
104	MP3B	My	-.000147	5.5
105	MP3B	Mz	-.000403	5.5
106	MP3C	Y	-.857	.5
107	MP3C	My	.000422	.5
108	MP3C	Mz	7.4e-5	.5
109	MP3C	Y	-.857	5.5
110	MP3C	My	.000422	5.5
111	MP3C	Mz	7.4e-5	5.5
112	LR1	Y	-1.014	1
113	LR1	My	0	1
114	LR1	Mz	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	Z	-3.342	.5
2	MP2A	Mx	.003	.5
3	MP2A	Z	-3.342	5.5
4	MP2A	Mx	.003	5.5
5	MP2B	Z	-3.342	.5
6	MP2B	Mx	.002	.5
7	MP2B	Z	-3.342	5.5
8	MP2B	Mx	.002	5.5
9	MP2C	Z	-3.342	.5
10	MP2C	Mx	-.003	.5
11	MP2C	Z	-3.342	5.5
12	MP2C	Mx	-.003	5.5
13	MP2A	Z	-3.342	.5
14	MP2A	Mx	-.003	.5
15	MP2A	Z	-3.342	5.5
16	MP2A	Mx	-.003	5.5
17	MP2B	Z	-3.342	.5
18	MP2B	Mx	.000713	.5
19	MP2B	Z	-3.342	5.5
20	MP2B	Mx	.000713	5.5
21	MP2C	Z	-3.342	.5
22	MP2C	Mx	.002	.5
23	MP2C	Z	-3.342	5.5
24	MP2C	Mx	.002	5.5
25	MP5A	Z	-4.646	2
26	MP5A	Mx	0	2
27	MP5A	Z	-4.646	4
28	MP5A	Mx	0	4
29	MP5B	Z	-4.646	2
30	MP5B	Mx	.002	2
31	MP5B	Z	-4.646	4
32	MP5B	Mx	.002	4
33	MP5C	Z	-4.646	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP5C	Mx	-.000403	2
35	MP5C	Z	-4.646	4
36	MP5C	Mx	-.000403	4
37	MP2A	Z	-1.098	3
38	MP2A	Mx	.000458	3
39	MP2B	Z	-1.098	3
40	MP2B	Mx	-.000359	3
41	MP2C	Z	-1.098	3
42	MP2C	Mx	-.000355	3
43	MP2A	Z	-8.913	3
44	MP2A	Mx	-.005	3
45	MP2B	Z	-8.913	3
46	MP2B	Mx	-.006	3
47	MP2C	Z	-8.913	3
48	MP2C	Mx	.006	3
49	MP3A	Z	-7.424	3
50	MP3A	Mx	0	3
51	MP3B	Z	-7.424	3
52	MP3B	Mx	-.003	3
53	MP3C	Z	-7.424	3
54	MP3C	Mx	.000645	3
55	OVP2	Z	-3.379	1
56	OVP2	Mx	0	1
57	MP2A	Z	-1.859	.25
58	MP2A	Mx	0	.25
59	MP2B	Z	-1.859	.25
60	MP2B	Mx	-.000873	.25
61	MP2C	Z	-1.859	.25
62	MP2C	Mx	.000161	.25
63	MP3A	Z	-2.144	.5
64	MP3A	Mx	0	.5
65	MP3A	Z	-2.144	5.5
66	MP3A	Mx	0	5.5
67	MP3B	Z	-2.144	.5
68	MP3B	Mx	.001	.5
69	MP3B	Z	-2.144	5.5
70	MP3B	Mx	.001	5.5
71	MP3C	Z	-2.144	.5
72	MP3C	Mx	-.000186	.5
73	MP3C	Z	-2.144	5.5
74	MP3C	Mx	-.000186	5.5
75	LR1	Z	-2.534	1
76	LR1	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	3.342	.5
2	MP2A	Mx	-.002	.5
3	MP2A	X	3.342	5.5
4	MP2A	Mx	-.002	5.5
5	MP2B	X	3.342	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft, %]
6	MP2B	Mx	.002	.5
7	MP2B	X	3.342	5.5
8	MP2B	Mx	.002	5.5
9	MP2C	X	3.342	.5
10	MP2C	Mx	.001	.5
11	MP2C	X	3.342	5.5
12	MP2C	Mx	.001	5.5
13	MP2A	X	3.342	.5
14	MP2A	Mx	-.002	.5
15	MP2A	X	3.342	5.5
16	MP2A	Mx	-.002	5.5
17	MP2B	X	3.342	.5
18	MP2B	Mx	-.003	.5
19	MP2B	X	3.342	5.5
20	MP2B	Mx	-.003	5.5
21	MP2C	X	3.342	.5
22	MP2C	Mx	.002	.5
23	MP2C	X	3.342	5.5
24	MP2C	Mx	.002	5.5
25	MP5A	X	4.646	2
26	MP5A	Mx	-.002	2
27	MP5A	X	4.646	4
28	MP5A	Mx	-.002	4
29	MP5B	X	4.646	2
30	MP5B	Mx	-.000795	2
31	MP5B	X	4.646	4
32	MP5B	Mx	-.000795	4
33	MP5C	X	4.646	2
34	MP5C	Mx	.002	2
35	MP5C	X	4.646	4
36	MP5C	Mx	.002	4
37	MP2A	X	1.098	3
38	MP2A	Mx	.000549	3
39	MP2B	X	1.098	3
40	MP2B	Mx	.000618	3
41	MP2C	X	1.098	3
42	MP2C	Mx	-.00062	3
43	MP2A	X	8.913	3
44	MP2A	Mx	.004	3
45	MP2B	X	8.913	3
46	MP2B	Mx	-.003	3
47	MP2C	X	8.913	3
48	MP2C	Mx	-.003	3
49	MP3A	X	7.424	3
50	MP3A	Mx	.004	3
51	MP3B	X	7.424	3
52	MP3B	Mx	.001	3
53	MP3C	X	7.424	3
54	MP3C	Mx	-.004	3
55	OVP2	X	3.379	1
56	OVP2	Mx	0	1
57	MP2A	X	1.859	.25



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2A	Mx	.000929	.25
59	MP2B	X	1.859	.25
60	MP2B	Mx	.000318	.25
61	MP2C	X	1.859	.25
62	MP2C	Mx	-.000915	.25
63	MP3A	X	2.144	.5
64	MP3A	Mx	-.001	.5
65	MP3A	X	2.144	5.5
66	MP3A	Mx	-.001	5.5
67	MP3B	X	2.144	.5
68	MP3B	Mx	-.000367	.5
69	MP3B	X	2.144	5.5
70	MP3B	Mx	-.000367	5.5
71	MP3C	X	2.144	.5
72	MP3C	Mx	.001	.5
73	MP3C	X	2.144	5.5
74	MP3C	Mx	.001	5.5
75	LR1	X	2.534	1
76	LR1	Mx	0	1

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	Y	-9.775	-9.775	0	%100
2	M2	Y	-9.775	-9.775	0	%100
3	M4	Y	-9.775	-9.775	0	%100
4	M5	Y	-9.775	-9.775	0	%100
5	LV	Y	-7.404	-7.404	0	%100
6	M7	Y	-9.775	-9.775	0	%100
7	M8	Y	-9.775	-9.775	0	%100
8	M9	Y	-7.404	-7.404	0	%100
9	M11	Y	-7.404	-7.404	0	%100
10	M15	Y	-9.775	-9.775	0	%100
11	M16	Y	-9.775	-9.775	0	%100
12	M18	Y	-9.775	-9.775	0	%100
13	M19	Y	-9.775	-9.775	0	%100
14	M21	Y	-9.775	-9.775	0	%100
15	M22	Y	-9.775	-9.775	0	%100
16	M23	Y	-5.726	-5.726	0	%100
17	M24	Y	-5.726	-5.726	0	%100
18	M25	Y	-5.726	-5.726	0	%100
19	MP1A	Y	-5.077	-5.077	0	%100
20	MP2A	Y	-5.793	-5.793	0	%100
21	MP3A	Y	-5.077	-5.077	0	%100
22	MP4A	Y	-5.077	-5.077	0	%100
23	MP5A	Y	-5.077	-5.077	0	%100
24	MP1C	Y	-5.077	-5.077	0	%100
25	MP2C	Y	-5.793	-5.793	0	%100
26	MP3C	Y	-5.077	-5.077	0	%100
27	MP4C	Y	-5.077	-5.077	0	%100
28	MP5C	Y	-5.077	-5.077	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
29	MP1B	Y	-5.077	-5.077	0	% 100
30	MP2B	Y	-5.793	-5.793	0	%100
31	MP3B	Y	-5.077	-5.077	0	%100
32	MP4B	Y	-5.077	-5.077	0	%100
33	MP5B	Y	-5.077	-5.077	0	%100
34	OVP2	Y	-5.077	-5.077	0	%100
35	LR1	Y	-5.077	-5.077	0	%100
36	M62	Y	-11.34	-11.34	0	%100
37	M63	Y	-11.34	-11.34	0	%100
38	M64	Y	-11.34	-11.34	0	%100
39	M70	Y	-5.793	-5.793	0	%100
40	M76	Y	-5.793	-5.793	0	%100
41	M82	Y	-5.793	-5.793	0	%100
42	M85	Y	-7.751	-7.751	0	%100
43	M88	Y	-7.751	-7.751	0	%100
44	M91	Y	-7.751	-7.751	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	% 100
2	M1	Z	-7.802	-7.802	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-8.316	-8.316	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	-12.933	-12.933	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	-7.802	-7.802	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	-8.316	-8.316	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	-3.233	-3.233	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-3.233	-3.233	0	%100
19	M15	X	0	0	0	%100
20	M15	Z	-7.048	-7.048	0	%100
21	M16	X	0	0	0	%100
22	M16	Z	-7.048	-7.048	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-16.543	-16.543	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	-1.995	-1.995	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	-1.995	-1.995	0	%100
29	M22	X	0	0	0	%100
30	M22	Z	-16.543	-16.543	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	-2.158	-2.158	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]	
33	M24	X	0	0	0	%100
34	M24	Z	-2.158	-2.158	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	-8.631	-8.631	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-8.286	-8.286	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	-10.031	-10.031	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	-8.286	-8.286	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	-8.286	-8.286	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	-8.286	-8.286	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	-8.286	-8.286	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	-10.031	-10.031	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	-8.286	-8.286	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	-8.286	-8.286	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	-8.286	-8.286	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	-8.286	-8.286	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	-10.031	-10.031	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	-8.286	-8.286	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	-8.286	-8.286	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-8.286	-8.286	0	%100
67	OVP2	X	0	0	0	%100
68	OVP2	Z	-7.551	-7.551	0	%100
69	LR1	X	0	0	0	%100
70	LR1	Z	-8.286	-8.286	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	-24.071	-24.071	0	%100
73	M63	X	0	0	0	%100
74	M63	Z	-18.462	-18.462	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	-18.462	-18.462	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	-10.031	-10.031	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	-2.508	-2.508	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	-2.508	-2.508	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	-3.703	-3.703	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
85	M88	X	0	0	0	% 100
86	M88	Z	-3.703	-3.703	0	% 100
87	M91	X	0	0	0	% 100
88	M91	Z	-14.813	-14.813	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	5.201	5.201	0	% 100
2	M1	Z	-9.009	-9.009	0	% 100
3	M2	X	5.544	5.544	0	% 100
4	M2	Z	-9.603	-9.603	0	% 100
5	M4	X	1.3	1.3	0	% 100
6	M4	Z	-2.252	-2.252	0	% 100
7	M5	X	1.386	1.386	0	% 100
8	M5	Z	-2.401	-2.401	0	% 100
9	LV	X	4.85	4.85	0	% 100
10	LV	Z	-8.4	-8.4	0	% 100
11	M7	X	1.3	1.3	0	% 100
12	M7	Z	-2.252	-2.252	0	% 100
13	M8	X	1.386	1.386	0	% 100
14	M8	Z	-2.401	-2.401	0	% 100
15	M9	X	4.85	4.85	0	% 100
16	M9	Z	-8.4	-8.4	0	% 100
17	M11	X	0	0	0	% 100
18	M11	Z	0	0	0	% 100
19	M15	X	.257	.257	0	% 100
20	M15	Z	-.445	-.445	0	% 100
21	M16	X	7.531	7.531	0	% 100
22	M16	Z	-13.044	-13.044	0	% 100
23	M18	X	7.531	7.531	0	% 100
24	M18	Z	-13.044	-13.044	0	% 100
25	M19	X	.257	.257	0	% 100
26	M19	Z	-.445	-.445	0	% 100
27	M21	X	5.005	5.005	0	% 100
28	M21	Z	-8.668	-8.668	0	% 100
29	M22	X	5.005	5.005	0	% 100
30	M22	Z	-8.668	-8.668	0	% 100
31	M23	X	3.236	3.236	0	% 100
32	M23	Z	-5.606	-5.606	0	% 100
33	M24	X	0	0	0	% 100
34	M24	Z	0	0	0	% 100
35	M25	X	3.236	3.236	0	% 100
36	M25	Z	-5.606	-5.606	0	% 100
37	MP1A	X	4.143	4.143	0	% 100
38	MP1A	Z	-7.176	-7.176	0	% 100
39	MP2A	X	5.015	5.015	0	% 100
40	MP2A	Z	-8.687	-8.687	0	% 100
41	MP3A	X	4.143	4.143	0	% 100
42	MP3A	Z	-7.176	-7.176	0	% 100
43	MP4A	X	4.143	4.143	0	% 100
44	MP4A	Z	-7.176	-7.176	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
45	MP5A	X	4.143	4.143	0	%100
46	MP5A	Z	-7.176	-7.176	0	%100
47	MP1C	X	4.143	4.143	0	%100
48	MP1C	Z	-7.176	-7.176	0	%100
49	MP2C	X	5.015	5.015	0	%100
50	MP2C	Z	-8.687	-8.687	0	%100
51	MP3C	X	4.143	4.143	0	%100
52	MP3C	Z	-7.176	-7.176	0	%100
53	MP4C	X	4.143	4.143	0	%100
54	MP4C	Z	-7.176	-7.176	0	%100
55	MP5C	X	4.143	4.143	0	%100
56	MP5C	Z	-7.176	-7.176	0	%100
57	MP1B	X	4.143	4.143	0	%100
58	MP1B	Z	-7.176	-7.176	0	%100
59	MP2B	X	5.015	5.015	0	%100
60	MP2B	Z	-8.687	-8.687	0	%100
61	MP3B	X	4.143	4.143	0	%100
62	MP3B	Z	-7.176	-7.176	0	%100
63	MP4B	X	4.143	4.143	0	%100
64	MP4B	Z	-7.176	-7.176	0	%100
65	MP5B	X	4.143	4.143	0	%100
66	MP5B	Z	-7.176	-7.176	0	%100
67	OVP2	X	3.776	3.776	0	%100
68	OVP2	Z	-6.54	-6.54	0	%100
69	LR1	X	4.143	4.143	0	%100
70	LR1	Z	-7.176	-7.176	0	%100
71	M62	X	11.101	11.101	0	%100
72	M62	Z	-19.227	-19.227	0	%100
73	M63	X	11.101	11.101	0	%100
74	M63	Z	-19.227	-19.227	0	%100
75	M64	X	8.296	8.296	0	%100
76	M64	Z	-14.37	-14.37	0	%100
77	M70	X	3.761	3.761	0	%100
78	M70	Z	-6.515	-6.515	0	%100
79	M76	X	3.761	3.761	0	%100
80	M76	Z	-6.515	-6.515	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	0	0	0	%100
83	M85	X	5.555	5.555	0	%100
84	M85	Z	-9.622	-9.622	0	%100
85	M88	X	0	0	0	%100
86	M88	Z	0	0	0	%100
87	M91	X	5.555	5.555	0	%100
88	M91	Z	-9.622	-9.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	6.756	6.756	0	%100
2	M1	Z	-3.901	-3.901	0	%100
3	M2	X	7.202	7.202	0	%100
4	M2	Z	-4.158	-4.158	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
5	M4	X	6.756	6.756	0	%100
6	M4	Z	-3.901	-3.901	0	%100
7	M5	X	7.202	7.202	0	%100
8	M5	Z	-4.158	-4.158	0	%100
9	LV	X	2.8	2.8	0	%100
10	LV	Z	-1.617	-1.617	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	0	0	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	0	0	0	%100
15	M9	X	11.2	11.2	0	%100
16	M9	Z	-6.466	-6.466	0	%100
17	M11	X	2.8	2.8	0	%100
18	M11	Z	-1.617	-1.617	0	%100
19	M15	X	1.728	1.728	0	%100
20	M15	Z	-998	-998	0	%100
21	M16	X	14.326	14.326	0	%100
22	M16	Z	-8.271	-8.271	0	%100
23	M18	X	6.103	6.103	0	%100
24	M18	Z	-3.524	-3.524	0	%100
25	M19	X	6.103	6.103	0	%100
26	M19	Z	-3.524	-3.524	0	%100
27	M21	X	14.326	14.326	0	%100
28	M21	Z	-8.271	-8.271	0	%100
29	M22	X	1.728	1.728	0	%100
30	M22	Z	-998	-998	0	%100
31	M23	X	7.474	7.474	0	%100
32	M23	Z	-4.315	-4.315	0	%100
33	M24	X	1.869	1.869	0	%100
34	M24	Z	-1.079	-1.079	0	%100
35	M25	X	1.869	1.869	0	%100
36	M25	Z	-1.079	-1.079	0	%100
37	MP1A	X	7.176	7.176	0	%100
38	MP1A	Z	-4.143	-4.143	0	%100
39	MP2A	X	8.687	8.687	0	%100
40	MP2A	Z	-5.015	-5.015	0	%100
41	MP3A	X	7.176	7.176	0	%100
42	MP3A	Z	-4.143	-4.143	0	%100
43	MP4A	X	7.176	7.176	0	%100
44	MP4A	Z	-4.143	-4.143	0	%100
45	MP5A	X	7.176	7.176	0	%100
46	MP5A	Z	-4.143	-4.143	0	%100
47	MP1C	X	7.176	7.176	0	%100
48	MP1C	Z	-4.143	-4.143	0	%100
49	MP2C	X	8.687	8.687	0	%100
50	MP2C	Z	-5.015	-5.015	0	%100
51	MP3C	X	7.176	7.176	0	%100
52	MP3C	Z	-4.143	-4.143	0	%100
53	MP4C	X	7.176	7.176	0	%100
54	MP4C	Z	-4.143	-4.143	0	%100
55	MP5C	X	7.176	7.176	0	%100
56	MP5C	Z	-4.143	-4.143	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
57	MP1B	X	7.176	7.176	0	%100
58	MP1B	Z	-4.143	-4.143	0	%100
59	MP2B	X	8.687	8.687	0	%100
60	MP2B	Z	-5.015	-5.015	0	%100
61	MP3B	X	7.176	7.176	0	%100
62	MP3B	Z	-4.143	-4.143	0	%100
63	MP4B	X	7.176	7.176	0	%100
64	MP4B	Z	-4.143	-4.143	0	%100
65	MP5B	X	7.176	7.176	0	%100
66	MP5B	Z	-4.143	-4.143	0	%100
67	OVP2	X	6.54	6.54	0	%100
68	OVP2	Z	-3.776	-3.776	0	%100
69	LR1	X	7.176	7.176	0	%100
70	LR1	Z	-4.143	-4.143	0	%100
71	M62	X	15.989	15.989	0	%100
72	M62	Z	-9.231	-9.231	0	%100
73	M63	X	20.846	20.846	0	%100
74	M63	Z	-12.035	-12.035	0	%100
75	M64	X	15.989	15.989	0	%100
76	M64	Z	-9.231	-9.231	0	%100
77	M70	X	2.172	2.172	0	%100
78	M70	Z	-1.254	-1.254	0	%100
79	M76	X	8.687	8.687	0	%100
80	M76	Z	-5.015	-5.015	0	%100
81	M82	X	2.172	2.172	0	%100
82	M82	Z	-1.254	-1.254	0	%100
83	M85	X	12.829	12.829	0	%100
84	M85	Z	-7.407	-7.407	0	%100
85	M88	X	3.207	3.207	0	%100
86	M88	Z	-1.852	-1.852	0	%100
87	M91	X	3.207	3.207	0	%100
88	M91	Z	-1.852	-1.852	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	2.601	2.601	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	2.772	2.772	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	10.402	10.402	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	11.089	11.089	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	0	0	0	%100
11	M7	X	2.601	2.601	0	%100
12	M7	Z	0	0	0	%100
13	M8	X	2.772	2.772	0	%100
14	M8	Z	0	0	0	%100
15	M9	X	9.7	9.7	0	%100
16	M9	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
17	M11	X	9.7	9.7	0	%100
18	M11	Z	0	0	0	%100
19	M15	X	10.009	10.009	0	%100
20	M15	Z	0	0	0	%100
21	M16	X	10.009	10.009	0	%100
22	M16	Z	0	0	0	%100
23	M18	X	.514	.514	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	15.062	15.062	0	%100
26	M19	Z	0	0	0	%100
27	M21	X	15.062	15.062	0	%100
28	M21	Z	0	0	0	%100
29	M22	X	.514	.514	0	%100
30	M22	Z	0	0	0	%100
31	M23	X	6.473	6.473	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	6.473	6.473	0	%100
34	M24	Z	0	0	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	0	0	0	%100
37	MP1A	X	8.286	8.286	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	10.031	10.031	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	8.286	8.286	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	8.286	8.286	0	%100
44	MP4A	Z	0	0	0	%100
45	MP5A	X	8.286	8.286	0	%100
46	MP5A	Z	0	0	0	%100
47	MP1C	X	8.286	8.286	0	%100
48	MP1C	Z	0	0	0	%100
49	MP2C	X	10.031	10.031	0	%100
50	MP2C	Z	0	0	0	%100
51	MP3C	X	8.286	8.286	0	%100
52	MP3C	Z	0	0	0	%100
53	MP4C	X	8.286	8.286	0	%100
54	MP4C	Z	0	0	0	%100
55	MP5C	X	8.286	8.286	0	%100
56	MP5C	Z	0	0	0	%100
57	MP1B	X	8.286	8.286	0	%100
58	MP1B	Z	0	0	0	%100
59	MP2B	X	10.031	10.031	0	%100
60	MP2B	Z	0	0	0	%100
61	MP3B	X	8.286	8.286	0	%100
62	MP3B	Z	0	0	0	%100
63	MP4B	X	8.286	8.286	0	%100
64	MP4B	Z	0	0	0	%100
65	MP5B	X	8.286	8.286	0	%100
66	MP5B	Z	0	0	0	%100
67	OVP2	X	7.551	7.551	0	%100
68	OVP2	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
69	LR1	X	8.286	8.286	0	% 100
70	LR1	Z	0	0	0	% 100
71	M62	X	16.593	16.593	0	% 100
72	M62	Z	0	0	0	% 100
73	M63	X	22.201	22.201	0	% 100
74	M63	Z	0	0	0	% 100
75	M64	X	22.201	22.201	0	% 100
76	M64	Z	0	0	0	% 100
77	M70	X	0	0	0	% 100
78	M70	Z	0	0	0	% 100
79	M76	X	7.523	7.523	0	% 100
80	M76	Z	0	0	0	% 100
81	M82	X	7.523	7.523	0	% 100
82	M82	Z	0	0	0	% 100
83	M85	X	11.11	11.11	0	% 100
84	M85	Z	0	0	0	% 100
85	M88	X	11.11	11.11	0	% 100
86	M88	Z	0	0	0	% 100
87	M91	X	0	0	0	% 100
88	M91	Z	0	0	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M4	X	6.756	6.756	0	% 100
6	M4	Z	3.901	3.901	0	% 100
7	M5	X	7.202	7.202	0	% 100
8	M5	Z	4.158	4.158	0	% 100
9	LV	X	2.8	2.8	0	% 100
10	LV	Z	1.617	1.617	0	% 100
11	M7	X	6.756	6.756	0	% 100
12	M7	Z	3.901	3.901	0	% 100
13	M8	X	7.202	7.202	0	% 100
14	M8	Z	4.158	4.158	0	% 100
15	M9	X	2.8	2.8	0	% 100
16	M9	Z	1.617	1.617	0	% 100
17	M11	X	11.2	11.2	0	% 100
18	M11	Z	6.466	6.466	0	% 100
19	M15	X	14.326	14.326	0	% 100
20	M15	Z	8.271	8.271	0	% 100
21	M16	X	1.728	1.728	0	% 100
22	M16	Z	.998	.998	0	% 100
23	M18	X	1.728	1.728	0	% 100
24	M18	Z	.998	.998	0	% 100
25	M19	X	14.326	14.326	0	% 100
26	M19	Z	8.271	8.271	0	% 100
27	M21	X	6.103	6.103	0	% 100
28	M21	Z	3.524	3.524	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
29	M22	X	6.103	6.103	0	%100
30	M22	Z	3.524	3.524	0	%100
31	M23	X	1.869	1.869	0	%100
32	M23	Z	1.079	1.079	0	%100
33	M24	X	7.474	7.474	0	%100
34	M24	Z	4.315	4.315	0	%100
35	M25	X	1.869	1.869	0	%100
36	M25	Z	1.079	1.079	0	%100
37	MP1A	X	7.176	7.176	0	%100
38	MP1A	Z	4.143	4.143	0	%100
39	MP2A	X	8.687	8.687	0	%100
40	MP2A	Z	5.015	5.015	0	%100
41	MP3A	X	7.176	7.176	0	%100
42	MP3A	Z	4.143	4.143	0	%100
43	MP4A	X	7.176	7.176	0	%100
44	MP4A	Z	4.143	4.143	0	%100
45	MP5A	X	7.176	7.176	0	%100
46	MP5A	Z	4.143	4.143	0	%100
47	MP1C	X	7.176	7.176	0	%100
48	MP1C	Z	4.143	4.143	0	%100
49	MP2C	X	8.687	8.687	0	%100
50	MP2C	Z	5.015	5.015	0	%100
51	MP3C	X	7.176	7.176	0	%100
52	MP3C	Z	4.143	4.143	0	%100
53	MP4C	X	7.176	7.176	0	%100
54	MP4C	Z	4.143	4.143	0	%100
55	MP5C	X	7.176	7.176	0	%100
56	MP5C	Z	4.143	4.143	0	%100
57	MP1B	X	7.176	7.176	0	%100
58	MP1B	Z	4.143	4.143	0	%100
59	MP2B	X	8.687	8.687	0	%100
60	MP2B	Z	5.015	5.015	0	%100
61	MP3B	X	7.176	7.176	0	%100
62	MP3B	Z	4.143	4.143	0	%100
63	MP4B	X	7.176	7.176	0	%100
64	MP4B	Z	4.143	4.143	0	%100
65	MP5B	X	7.176	7.176	0	%100
66	MP5B	Z	4.143	4.143	0	%100
67	OVP2	X	6.54	6.54	0	%100
68	OVP2	Z	3.776	3.776	0	%100
69	LR1	X	7.176	7.176	0	%100
70	LR1	Z	4.143	4.143	0	%100
71	M62	X	15.989	15.989	0	%100
72	M62	Z	9.231	9.231	0	%100
73	M63	X	15.989	15.989	0	%100
74	M63	Z	9.231	9.231	0	%100
75	M64	X	20.846	20.846	0	%100
76	M64	Z	12.035	12.035	0	%100
77	M70	X	2.172	2.172	0	%100
78	M70	Z	1.254	1.254	0	%100
79	M76	X	2.172	2.172	0	%100
80	M76	Z	1.254	1.254	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
81	M82	X	8.687	8.687	0	%100
82	M82	Z	5.015	5.015	0	%100
83	M85	X	3.207	3.207	0	%100
84	M85	Z	1.852	1.852	0	%100
85	M88	X	12.829	12.829	0	%100
86	M88	Z	7.407	7.407	0	%100
87	M91	X	3.207	3.207	0	%100
88	M91	Z	1.852	1.852	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.3	1.3	0	%100
2	M1	Z	2.252	2.252	0	%100
3	M2	X	1.386	1.386	0	%100
4	M2	Z	2.401	2.401	0	%100
5	M4	X	1.3	1.3	0	%100
6	M4	Z	2.252	2.252	0	%100
7	M5	X	1.386	1.386	0	%100
8	M5	Z	2.401	2.401	0	%100
9	LV	X	4.85	4.85	0	%100
10	LV	Z	8.4	8.4	0	%100
11	M7	X	5.201	5.201	0	%100
12	M7	Z	9.009	9.009	0	%100
13	M8	X	5.544	5.544	0	%100
14	M8	Z	9.603	9.603	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	0	0	0	%100
17	M11	X	4.85	4.85	0	%100
18	M11	Z	8.4	8.4	0	%100
19	M15	X	7.531	7.531	0	%100
20	M15	Z	13.044	13.044	0	%100
21	M16	X	.257	.257	0	%100
22	M16	Z	.445	.445	0	%100
23	M18	X	5.005	5.005	0	%100
24	M18	Z	8.668	8.668	0	%100
25	M19	X	5.005	5.005	0	%100
26	M19	Z	8.668	8.668	0	%100
27	M21	X	.257	.257	0	%100
28	M21	Z	.445	.445	0	%100
29	M22	X	7.531	7.531	0	%100
30	M22	Z	13.044	13.044	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	3.236	3.236	0	%100
34	M24	Z	5.606	5.606	0	%100
35	M25	X	3.236	3.236	0	%100
36	M25	Z	5.606	5.606	0	%100
37	MP1A	X	4.143	4.143	0	%100
38	MP1A	Z	7.176	7.176	0	%100
39	MP2A	X	5.015	5.015	0	%100
40	MP2A	Z	8.687	8.687	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
41	MP3A	X	4.143	4.143	0	% 100
42	MP3A	Z	7.176	7.176	0	% 100
43	MP4A	X	4.143	4.143	0	% 100
44	MP4A	Z	7.176	7.176	0	% 100
45	MP5A	X	4.143	4.143	0	% 100
46	MP5A	Z	7.176	7.176	0	% 100
47	MP1C	X	4.143	4.143	0	% 100
48	MP1C	Z	7.176	7.176	0	% 100
49	MP2C	X	5.015	5.015	0	% 100
50	MP2C	Z	8.687	8.687	0	% 100
51	MP3C	X	4.143	4.143	0	% 100
52	MP3C	Z	7.176	7.176	0	% 100
53	MP4C	X	4.143	4.143	0	% 100
54	MP4C	Z	7.176	7.176	0	% 100
55	MP5C	X	4.143	4.143	0	% 100
56	MP5C	Z	7.176	7.176	0	% 100
57	MP1B	X	4.143	4.143	0	% 100
58	MP1B	Z	7.176	7.176	0	% 100
59	MP2B	X	5.015	5.015	0	% 100
60	MP2B	Z	8.687	8.687	0	% 100
61	MP3B	X	4.143	4.143	0	% 100
62	MP3B	Z	7.176	7.176	0	% 100
63	MP4B	X	4.143	4.143	0	% 100
64	MP4B	Z	7.176	7.176	0	% 100
65	MP5B	X	4.143	4.143	0	% 100
66	MP5B	Z	7.176	7.176	0	% 100
67	OVP2	X	3.776	3.776	0	% 100
68	OVP2	Z	6.54	6.54	0	% 100
69	LR1	X	4.143	4.143	0	% 100
70	LR1	Z	7.176	7.176	0	% 100
71	M62	X	11.101	11.101	0	% 100
72	M62	Z	19.227	19.227	0	% 100
73	M63	X	8.296	8.296	0	% 100
74	M63	Z	14.37	14.37	0	% 100
75	M64	X	11.101	11.101	0	% 100
76	M64	Z	19.227	19.227	0	% 100
77	M70	X	3.761	3.761	0	% 100
78	M70	Z	6.515	6.515	0	% 100
79	M76	X	0	0	0	% 100
80	M76	Z	0	0	0	% 100
81	M82	X	3.761	3.761	0	% 100
82	M82	Z	6.515	6.515	0	% 100
83	M85	X	0	0	0	% 100
84	M85	Z	0	0	0	% 100
85	M88	X	5.555	5.555	0	% 100
86	M88	Z	9.622	9.622	0	% 100
87	M91	X	5.555	5.555	0	% 100
88	M91	Z	9.622	9.622	0	% 100

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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
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**Member Distributed Loads (BLC 47 : Structure Wo (180 Deg)) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	7.802	7.802	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	8.316	8.316	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	12.933	12.933	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	7.802	7.802	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	8.316	8.316	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	3.233	3.233	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	3.233	3.233	0	%100
19	M15	X	0	0	0	%100
20	M15	Z	7.048	7.048	0	%100
21	M16	X	0	0	0	%100
22	M16	Z	7.048	7.048	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	16.543	16.543	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	1.995	1.995	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	1.995	1.995	0	%100
29	M22	X	0	0	0	%100
30	M22	Z	16.543	16.543	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	2.158	2.158	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	2.158	2.158	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	8.631	8.631	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	8.286	8.286	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	10.031	10.031	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	8.286	8.286	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	8.286	8.286	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	8.286	8.286	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	8.286	8.286	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	10.031	10.031	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	8.286	8.286	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
53	MP4C	X	0	0	0	%100
54	MP4C	Z	8.286	8.286	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	8.286	8.286	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	8.286	8.286	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	10.031	10.031	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	8.286	8.286	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	8.286	8.286	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	8.286	8.286	0	%100
67	OVP2	X	0	0	0	%100
68	OVP2	Z	7.551	7.551	0	%100
69	LR1	X	0	0	0	%100
70	LR1	Z	8.286	8.286	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	24.071	24.071	0	%100
73	M63	X	0	0	0	%100
74	M63	Z	18.462	18.462	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	18.462	18.462	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	10.031	10.031	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	2.508	2.508	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	2.508	2.508	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	3.703	3.703	0	%100
85	M88	X	0	0	0	%100
86	M88	Z	3.703	3.703	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	14.813	14.813	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	-5.201	-5.201	0	%100
2	M1	Z	9.009	9.009	0	%100
3	M2	X	-5.544	-5.544	0	%100
4	M2	Z	9.603	9.603	0	%100
5	M4	X	-1.3	-1.3	0	%100
6	M4	Z	2.252	2.252	0	%100
7	M5	X	-1.386	-1.386	0	%100
8	M5	Z	2.401	2.401	0	%100
9	LV	X	-4.85	-4.85	0	%100
10	LV	Z	8.4	8.4	0	%100
11	M7	X	-1.3	-1.3	0	%100
12	M7	Z	2.252	2.252	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M8	X	-1.386	-1.386	0	%100
14	M8	Z	2.401	2.401	0	%100
15	M9	X	-4.85	-4.85	0	%100
16	M9	Z	8.4	8.4	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M15	X	-.257	-.257	0	%100
20	M15	Z	.445	.445	0	%100
21	M16	X	-7.531	-7.531	0	%100
22	M16	Z	13.044	13.044	0	%100
23	M18	X	-7.531	-7.531	0	%100
24	M18	Z	13.044	13.044	0	%100
25	M19	X	-.257	-.257	0	%100
26	M19	Z	.445	.445	0	%100
27	M21	X	-5.005	-5.005	0	%100
28	M21	Z	8.668	8.668	0	%100
29	M22	X	-5.005	-5.005	0	%100
30	M22	Z	8.668	8.668	0	%100
31	M23	X	-3.236	-3.236	0	%100
32	M23	Z	5.606	5.606	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	0	0	0	%100
35	M25	X	-3.236	-3.236	0	%100
36	M25	Z	5.606	5.606	0	%100
37	MP1A	X	-4.143	-4.143	0	%100
38	MP1A	Z	7.176	7.176	0	%100
39	MP2A	X	-5.015	-5.015	0	%100
40	MP2A	Z	8.687	8.687	0	%100
41	MP3A	X	-4.143	-4.143	0	%100
42	MP3A	Z	7.176	7.176	0	%100
43	MP4A	X	-4.143	-4.143	0	%100
44	MP4A	Z	7.176	7.176	0	%100
45	MP5A	X	-4.143	-4.143	0	%100
46	MP5A	Z	7.176	7.176	0	%100
47	MP1C	X	-4.143	-4.143	0	%100
48	MP1C	Z	7.176	7.176	0	%100
49	MP2C	X	-5.015	-5.015	0	%100
50	MP2C	Z	8.687	8.687	0	%100
51	MP3C	X	-4.143	-4.143	0	%100
52	MP3C	Z	7.176	7.176	0	%100
53	MP4C	X	-4.143	-4.143	0	%100
54	MP4C	Z	7.176	7.176	0	%100
55	MP5C	X	-4.143	-4.143	0	%100
56	MP5C	Z	7.176	7.176	0	%100
57	MP1B	X	-4.143	-4.143	0	%100
58	MP1B	Z	7.176	7.176	0	%100
59	MP2B	X	-5.015	-5.015	0	%100
60	MP2B	Z	8.687	8.687	0	%100
61	MP3B	X	-4.143	-4.143	0	%100
62	MP3B	Z	7.176	7.176	0	%100
63	MP4B	X	-4.143	-4.143	0	%100
64	MP4B	Z	7.176	7.176	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	-4.143	-4.143	0	% 100
66	MP5B	Z	7.176	7.176	0	% 100
67	OVP2	X	-3.776	-3.776	0	% 100
68	OVP2	Z	6.54	6.54	0	% 100
69	LR1	X	-4.143	-4.143	0	% 100
70	LR1	Z	7.176	7.176	0	% 100
71	M62	X	-11.101	-11.101	0	% 100
72	M62	Z	19.227	19.227	0	% 100
73	M63	X	-11.101	-11.101	0	% 100
74	M63	Z	19.227	19.227	0	% 100
75	M64	X	-8.296	-8.296	0	% 100
76	M64	Z	14.37	14.37	0	% 100
77	M70	X	-3.761	-3.761	0	% 100
78	M70	Z	6.515	6.515	0	% 100
79	M76	X	-3.761	-3.761	0	% 100
80	M76	Z	6.515	6.515	0	% 100
81	M82	X	0	0	0	% 100
82	M82	Z	0	0	0	% 100
83	M85	X	-5.555	-5.555	0	% 100
84	M85	Z	9.622	9.622	0	% 100
85	M88	X	0	0	0	% 100
86	M88	Z	0	0	0	% 100
87	M91	X	-5.555	-5.555	0	% 100
88	M91	Z	9.622	9.622	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-6.756	-6.756	0	% 100
2	M1	Z	3.901	3.901	0	% 100
3	M2	X	-7.202	-7.202	0	% 100
4	M2	Z	4.158	4.158	0	% 100
5	M4	X	-6.756	-6.756	0	% 100
6	M4	Z	3.901	3.901	0	% 100
7	M5	X	-7.202	-7.202	0	% 100
8	M5	Z	4.158	4.158	0	% 100
9	LV	X	-2.8	-2.8	0	% 100
10	LV	Z	1.617	1.617	0	% 100
11	M7	X	0	0	0	% 100
12	M7	Z	0	0	0	% 100
13	M8	X	0	0	0	% 100
14	M8	Z	0	0	0	% 100
15	M9	X	-11.2	-11.2	0	% 100
16	M9	Z	6.466	6.466	0	% 100
17	M11	X	-2.8	-2.8	0	% 100
18	M11	Z	1.617	1.617	0	% 100
19	M15	X	-1.728	-1.728	0	% 100
20	M15	Z	.998	.998	0	% 100
21	M16	X	-14.326	-14.326	0	% 100
22	M16	Z	8.271	8.271	0	% 100
23	M18	X	-6.103	-6.103	0	% 100
24	M18	Z	3.524	3.524	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M19	X	-6.103	-6.103	0	%100
26	M19	Z	3.524	3.524	0	%100
27	M21	X	-14.326	-14.326	0	%100
28	M21	Z	8.271	8.271	0	%100
29	M22	X	-1.728	-1.728	0	%100
30	M22	Z	.998	.998	0	%100
31	M23	X	-7.474	-7.474	0	%100
32	M23	Z	4.315	4.315	0	%100
33	M24	X	-1.869	-1.869	0	%100
34	M24	Z	1.079	1.079	0	%100
35	M25	X	-1.869	-1.869	0	%100
36	M25	Z	1.079	1.079	0	%100
37	MP1A	X	-7.176	-7.176	0	%100
38	MP1A	Z	4.143	4.143	0	%100
39	MP2A	X	-8.687	-8.687	0	%100
40	MP2A	Z	5.015	5.015	0	%100
41	MP3A	X	-7.176	-7.176	0	%100
42	MP3A	Z	4.143	4.143	0	%100
43	MP4A	X	-7.176	-7.176	0	%100
44	MP4A	Z	4.143	4.143	0	%100
45	MP5A	X	-7.176	-7.176	0	%100
46	MP5A	Z	4.143	4.143	0	%100
47	MP1C	X	-7.176	-7.176	0	%100
48	MP1C	Z	4.143	4.143	0	%100
49	MP2C	X	-8.687	-8.687	0	%100
50	MP2C	Z	5.015	5.015	0	%100
51	MP3C	X	-7.176	-7.176	0	%100
52	MP3C	Z	4.143	4.143	0	%100
53	MP4C	X	-7.176	-7.176	0	%100
54	MP4C	Z	4.143	4.143	0	%100
55	MP5C	X	-7.176	-7.176	0	%100
56	MP5C	Z	4.143	4.143	0	%100
57	MP1B	X	-7.176	-7.176	0	%100
58	MP1B	Z	4.143	4.143	0	%100
59	MP2B	X	-8.687	-8.687	0	%100
60	MP2B	Z	5.015	5.015	0	%100
61	MP3B	X	-7.176	-7.176	0	%100
62	MP3B	Z	4.143	4.143	0	%100
63	MP4B	X	-7.176	-7.176	0	%100
64	MP4B	Z	4.143	4.143	0	%100
65	MP5B	X	-7.176	-7.176	0	%100
66	MP5B	Z	4.143	4.143	0	%100
67	OVP2	X	-6.54	-6.54	0	%100
68	OVP2	Z	3.776	3.776	0	%100
69	LR1	X	-7.176	-7.176	0	%100
70	LR1	Z	4.143	4.143	0	%100
71	M62	X	-15.989	-15.989	0	%100
72	M62	Z	9.231	9.231	0	%100
73	M63	X	-20.846	-20.846	0	%100
74	M63	Z	12.035	12.035	0	%100
75	M64	X	-15.989	-15.989	0	%100
76	M64	Z	9.231	9.231	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M70	X	-2.172	-2.172	0	% 100
78	M70	Z	1.254	1.254	0	% 100
79	M76	X	-8.687	-8.687	0	% 100
80	M76	Z	5.015	5.015	0	% 100
81	M82	X	-2.172	-2.172	0	% 100
82	M82	Z	1.254	1.254	0	% 100
83	M85	X	-12.829	-12.829	0	% 100
84	M85	Z	7.407	7.407	0	% 100
85	M88	X	-3.207	-3.207	0	% 100
86	M88	Z	1.852	1.852	0	% 100
87	M91	X	-3.207	-3.207	0	% 100
88	M91	Z	1.852	1.852	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-2.601	-2.601	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	-2.772	-2.772	0	% 100
4	M2	Z	0	0	0	% 100
5	M4	X	-10.402	-10.402	0	% 100
6	M4	Z	0	0	0	% 100
7	M5	X	-11.089	-11.089	0	% 100
8	M5	Z	0	0	0	% 100
9	LV	X	0	0	0	% 100
10	LV	Z	0	0	0	% 100
11	M7	X	-2.601	-2.601	0	% 100
12	M7	Z	0	0	0	% 100
13	M8	X	-2.772	-2.772	0	% 100
14	M8	Z	0	0	0	% 100
15	M9	X	-9.7	-9.7	0	% 100
16	M9	Z	0	0	0	% 100
17	M11	X	-9.7	-9.7	0	% 100
18	M11	Z	0	0	0	% 100
19	M15	X	-10.009	-10.009	0	% 100
20	M15	Z	0	0	0	% 100
21	M16	X	-10.009	-10.009	0	% 100
22	M16	Z	0	0	0	% 100
23	M18	X	-.514	-.514	0	% 100
24	M18	Z	0	0	0	% 100
25	M19	X	-15.062	-15.062	0	% 100
26	M19	Z	0	0	0	% 100
27	M21	X	-15.062	-15.062	0	% 100
28	M21	Z	0	0	0	% 100
29	M22	X	-.514	-.514	0	% 100
30	M22	Z	0	0	0	% 100
31	M23	X	-6.473	-6.473	0	% 100
32	M23	Z	0	0	0	% 100
33	M24	X	-6.473	-6.473	0	% 100
34	M24	Z	0	0	0	% 100
35	M25	X	0	0	0	% 100
36	M25	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,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	-8.286	-8.286	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-10.031	-10.031	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-8.286	-8.286	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-8.286	-8.286	0	%100
44	MP4A	Z	0	0	0	%100
45	MP5A	X	-8.286	-8.286	0	%100
46	MP5A	Z	0	0	0	%100
47	MP1C	X	-8.286	-8.286	0	%100
48	MP1C	Z	0	0	0	%100
49	MP2C	X	-10.031	-10.031	0	%100
50	MP2C	Z	0	0	0	%100
51	MP3C	X	-8.286	-8.286	0	%100
52	MP3C	Z	0	0	0	%100
53	MP4C	X	-8.286	-8.286	0	%100
54	MP4C	Z	0	0	0	%100
55	MP5C	X	-8.286	-8.286	0	%100
56	MP5C	Z	0	0	0	%100
57	MP1B	X	-8.286	-8.286	0	%100
58	MP1B	Z	0	0	0	%100
59	MP2B	X	-10.031	-10.031	0	%100
60	MP2B	Z	0	0	0	%100
61	MP3B	X	-8.286	-8.286	0	%100
62	MP3B	Z	0	0	0	%100
63	MP4B	X	-8.286	-8.286	0	%100
64	MP4B	Z	0	0	0	%100
65	MP5B	X	-8.286	-8.286	0	%100
66	MP5B	Z	0	0	0	%100
67	OVP2	X	-7.551	-7.551	0	%100
68	OVP2	Z	0	0	0	%100
69	LR1	X	-8.286	-8.286	0	%100
70	LR1	Z	0	0	0	%100
71	M62	X	-16.593	-16.593	0	%100
72	M62	Z	0	0	0	%100
73	M63	X	-22.201	-22.201	0	%100
74	M63	Z	0	0	0	%100
75	M64	X	-22.201	-22.201	0	%100
76	M64	Z	0	0	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	0	0	0	%100
79	M76	X	-7.523	-7.523	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	-7.523	-7.523	0	%100
82	M82	Z	0	0	0	%100
83	M85	X	-11.11	-11.11	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	-11.11	-11.11	0	%100
86	M88	Z	0	0	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	0	0	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M4	X	-6.756	-6.756	0	% 100
6	M4	Z	-3.901	-3.901	0	% 100
7	M5	X	-7.202	-7.202	0	% 100
8	M5	Z	-4.158	-4.158	0	% 100
9	LV	X	-2.8	-2.8	0	% 100
10	LV	Z	-1.617	-1.617	0	% 100
11	M7	X	-6.756	-6.756	0	% 100
12	M7	Z	-3.901	-3.901	0	% 100
13	M8	X	-7.202	-7.202	0	% 100
14	M8	Z	-4.158	-4.158	0	% 100
15	M9	X	-2.8	-2.8	0	% 100
16	M9	Z	-1.617	-1.617	0	% 100
17	M11	X	-11.2	-11.2	0	% 100
18	M11	Z	-6.466	-6.466	0	% 100
19	M15	X	-14.326	-14.326	0	% 100
20	M15	Z	-8.271	-8.271	0	% 100
21	M16	X	-1.728	-1.728	0	% 100
22	M16	Z	-.998	-.998	0	% 100
23	M18	X	-1.728	-1.728	0	% 100
24	M18	Z	-.998	-.998	0	% 100
25	M19	X	-14.326	-14.326	0	% 100
26	M19	Z	-8.271	-8.271	0	% 100
27	M21	X	-6.103	-6.103	0	% 100
28	M21	Z	-3.524	-3.524	0	% 100
29	M22	X	-6.103	-6.103	0	% 100
30	M22	Z	-3.524	-3.524	0	% 100
31	M23	X	-1.869	-1.869	0	% 100
32	M23	Z	-1.079	-1.079	0	% 100
33	M24	X	-7.474	-7.474	0	% 100
34	M24	Z	-4.315	-4.315	0	% 100
35	M25	X	-1.869	-1.869	0	% 100
36	M25	Z	-1.079	-1.079	0	% 100
37	MP1A	X	-7.176	-7.176	0	% 100
38	MP1A	Z	-4.143	-4.143	0	% 100
39	MP2A	X	-8.687	-8.687	0	% 100
40	MP2A	Z	-5.015	-5.015	0	% 100
41	MP3A	X	-7.176	-7.176	0	% 100
42	MP3A	Z	-4.143	-4.143	0	% 100
43	MP4A	X	-7.176	-7.176	0	% 100
44	MP4A	Z	-4.143	-4.143	0	% 100
45	MP5A	X	-7.176	-7.176	0	% 100
46	MP5A	Z	-4.143	-4.143	0	% 100
47	MP1C	X	-7.176	-7.176	0	% 100
48	MP1C	Z	-4.143	-4.143	0	% 100
49	MP2C	X	-8.687	-8.687	0	% 100
50	MP2C	Z	-5.015	-5.015	0	% 100
51	MP3C	X	-7.176	-7.176	0	% 100
52	MP3C	Z	-4.143	-4.143	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	-7.176	-7.176	0	%100
54	MP4C	Z	-4.143	-4.143	0	%100
55	MP5C	X	-7.176	-7.176	0	%100
56	MP5C	Z	-4.143	-4.143	0	%100
57	MP1B	X	-7.176	-7.176	0	%100
58	MP1B	Z	-4.143	-4.143	0	%100
59	MP2B	X	-8.687	-8.687	0	%100
60	MP2B	Z	-5.015	-5.015	0	%100
61	MP3B	X	-7.176	-7.176	0	%100
62	MP3B	Z	-4.143	-4.143	0	%100
63	MP4B	X	-7.176	-7.176	0	%100
64	MP4B	Z	-4.143	-4.143	0	%100
65	MP5B	X	-7.176	-7.176	0	%100
66	MP5B	Z	-4.143	-4.143	0	%100
67	OVP2	X	-6.54	-6.54	0	%100
68	OVP2	Z	-3.776	-3.776	0	%100
69	LR1	X	-7.176	-7.176	0	%100
70	LR1	Z	-4.143	-4.143	0	%100
71	M62	X	-15.989	-15.989	0	%100
72	M62	Z	-9.231	-9.231	0	%100
73	M63	X	-15.989	-15.989	0	%100
74	M63	Z	-9.231	-9.231	0	%100
75	M64	X	-20.846	-20.846	0	%100
76	M64	Z	-12.035	-12.035	0	%100
77	M70	X	-2.172	-2.172	0	%100
78	M70	Z	-1.254	-1.254	0	%100
79	M76	X	-2.172	-2.172	0	%100
80	M76	Z	-1.254	-1.254	0	%100
81	M82	X	-8.687	-8.687	0	%100
82	M82	Z	-5.015	-5.015	0	%100
83	M85	X	-3.207	-3.207	0	%100
84	M85	Z	-1.852	-1.852	0	%100
85	M88	X	-12.829	-12.829	0	%100
86	M88	Z	-7.407	-7.407	0	%100
87	M91	X	-3.207	-3.207	0	%100
88	M91	Z	-1.852	-1.852	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.3	-1.3	0	%100
2	M1	Z	-2.252	-2.252	0	%100
3	M2	X	-1.386	-1.386	0	%100
4	M2	Z	-2.401	-2.401	0	%100
5	M4	X	-1.3	-1.3	0	%100
6	M4	Z	-2.252	-2.252	0	%100
7	M5	X	-1.386	-1.386	0	%100
8	M5	Z	-2.401	-2.401	0	%100
9	LV	X	-4.85	-4.85	0	%100
10	LV	Z	-8.4	-8.4	0	%100
11	M7	X	-5.201	-5.201	0	%100
12	M7	Z	-9.009	-9.009	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M8	X	-5.544	-5.544	0	%100
14	M8	Z	-9.603	-9.603	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	0	0	0	%100
17	M11	X	-4.85	-4.85	0	%100
18	M11	Z	-8.4	-8.4	0	%100
19	M15	X	-7.531	-7.531	0	%100
20	M15	Z	-13.044	-13.044	0	%100
21	M16	X	-.257	-.257	0	%100
22	M16	Z	-.445	-.445	0	%100
23	M18	X	-5.005	-5.005	0	%100
24	M18	Z	-8.668	-8.668	0	%100
25	M19	X	-5.005	-5.005	0	%100
26	M19	Z	-8.668	-8.668	0	%100
27	M21	X	-.257	-.257	0	%100
28	M21	Z	-.445	-.445	0	%100
29	M22	X	-7.531	-7.531	0	%100
30	M22	Z	-13.044	-13.044	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	-3.236	-3.236	0	%100
34	M24	Z	-5.606	-5.606	0	%100
35	M25	X	-3.236	-3.236	0	%100
36	M25	Z	-5.606	-5.606	0	%100
37	MP1A	X	-4.143	-4.143	0	%100
38	MP1A	Z	-7.176	-7.176	0	%100
39	MP2A	X	-5.015	-5.015	0	%100
40	MP2A	Z	-8.687	-8.687	0	%100
41	MP3A	X	-4.143	-4.143	0	%100
42	MP3A	Z	-7.176	-7.176	0	%100
43	MP4A	X	-4.143	-4.143	0	%100
44	MP4A	Z	-7.176	-7.176	0	%100
45	MP5A	X	-4.143	-4.143	0	%100
46	MP5A	Z	-7.176	-7.176	0	%100
47	MP1C	X	-4.143	-4.143	0	%100
48	MP1C	Z	-7.176	-7.176	0	%100
49	MP2C	X	-5.015	-5.015	0	%100
50	MP2C	Z	-8.687	-8.687	0	%100
51	MP3C	X	-4.143	-4.143	0	%100
52	MP3C	Z	-7.176	-7.176	0	%100
53	MP4C	X	-4.143	-4.143	0	%100
54	MP4C	Z	-7.176	-7.176	0	%100
55	MP5C	X	-4.143	-4.143	0	%100
56	MP5C	Z	-7.176	-7.176	0	%100
57	MP1B	X	-4.143	-4.143	0	%100
58	MP1B	Z	-7.176	-7.176	0	%100
59	MP2B	X	-5.015	-5.015	0	%100
60	MP2B	Z	-8.687	-8.687	0	%100
61	MP3B	X	-4.143	-4.143	0	%100
62	MP3B	Z	-7.176	-7.176	0	%100
63	MP4B	X	-4.143	-4.143	0	%100
64	MP4B	Z	-7.176	-7.176	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	-4.143	-4.143	0	%100
66	MP5B	Z	-7.176	-7.176	0	%100
67	OVP2	X	-3.776	-3.776	0	%100
68	OVP2	Z	-6.54	-6.54	0	%100
69	LR1	X	-4.143	-4.143	0	%100
70	LR1	Z	-7.176	-7.176	0	%100
71	M62	X	-11.101	-11.101	0	%100
72	M62	Z	-19.227	-19.227	0	%100
73	M63	X	-8.296	-8.296	0	%100
74	M63	Z	-14.37	-14.37	0	%100
75	M64	X	-11.101	-11.101	0	%100
76	M64	Z	-19.227	-19.227	0	%100
77	M70	X	-3.761	-3.761	0	%100
78	M70	Z	-6.515	-6.515	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	-3.761	-3.761	0	%100
82	M82	Z	-6.515	-6.515	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	-5.555	-5.555	0	%100
86	M88	Z	-9.622	-9.622	0	%100
87	M91	X	-5.555	-5.555	0	%100
88	M91	Z	-9.622	-9.622	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	-2.145	-2.145	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	-2.344	-2.344	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	-3.842	-3.842	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	-2.145	-2.145	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	-2.344	-2.344	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	-.961	-.961	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	-.961	-.961	0	%100
19	M15	X	0	0	0	%100
20	M15	Z	-1.705	-1.705	0	%100
21	M16	X	0	0	0	%100
22	M16	Z	-1.705	-1.705	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	-4.003	-4.003	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M19	X	0	0	0	%100
26	M19	Z	-483	-483	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	-483	-483	0	%100
29	M22	X	0	0	0	%100
30	M22	Z	-4.003	-4.003	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	-619	-619	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	-619	-619	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	-2.474	-2.474	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	-2.858	-2.858	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	-3.161	-3.161	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	-2.858	-2.858	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	-2.858	-2.858	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	-2.858	-2.858	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	-2.858	-2.858	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	-3.161	-3.161	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	-2.858	-2.858	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	-2.858	-2.858	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	-2.858	-2.858	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	-2.858	-2.858	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	-3.161	-3.161	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	-2.858	-2.858	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	-2.858	-2.858	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	-2.858	-2.858	0	%100
67	OVP2	X	0	0	0	%100
68	OVP2	Z	-2.612	-2.612	0	%100
69	LR1	X	0	0	0	%100
70	LR1	Z	-2.858	-2.858	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	-5.345	-5.345	0	%100
73	M63	X	0	0	0	%100
74	M63	Z	-4.561	-4.561	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	-4.561	-4.561	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M70	X	0	0	0	%100
78	M70	Z	-3.161	-3.161	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	-.79	-.79	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	-.79	-.79	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	-.968	-.968	0	%100
85	M88	X	0	0	0	%100
86	M88	Z	-.968	-.968	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	-3.871	-3.871	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.43	1.43	0	%100
2	M1	Z	-2.477	-2.477	0	%100
3	M2	X	1.562	1.562	0	%100
4	M2	Z	-2.706	-2.706	0	%100
5	M4	X	.357	.357	0	%100
6	M4	Z	-.619	-.619	0	%100
7	M5	X	.391	.391	0	%100
8	M5	Z	-.677	-.677	0	%100
9	LV	X	1.441	1.441	0	%100
10	LV	Z	-2.496	-2.496	0	%100
11	M7	X	.357	.357	0	%100
12	M7	Z	-.619	-.619	0	%100
13	M8	X	.391	.391	0	%100
14	M8	Z	-.677	-.677	0	%100
15	M9	X	1.441	1.441	0	%100
16	M9	Z	-2.496	-2.496	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M15	X	.062	.062	0	%100
20	M15	Z	-.108	-.108	0	%100
21	M16	X	1.822	1.822	0	%100
22	M16	Z	-3.156	-3.156	0	%100
23	M18	X	1.822	1.822	0	%100
24	M18	Z	-3.156	-3.156	0	%100
25	M19	X	.062	.062	0	%100
26	M19	Z	-.108	-.108	0	%100
27	M21	X	1.211	1.211	0	%100
28	M21	Z	-2.098	-2.098	0	%100
29	M22	X	1.211	1.211	0	%100
30	M22	Z	-2.098	-2.098	0	%100
31	M23	X	.928	.928	0	%100
32	M23	Z	-1.607	-1.607	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	0	0	0	%100
35	M25	X	.928	.928	0	%100
36	M25	Z	-1.607	-1.607	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP1A	X	1.429	1.429	0	% 100
38	MP1A	Z	-2.475	-2.475	0	% 100
39	MP2A	X	1.58	1.58	0	% 100
40	MP2A	Z	-2.737	-2.737	0	% 100
41	MP3A	X	1.429	1.429	0	% 100
42	MP3A	Z	-2.475	-2.475	0	% 100
43	MP4A	X	1.429	1.429	0	% 100
44	MP4A	Z	-2.475	-2.475	0	% 100
45	MP5A	X	1.429	1.429	0	% 100
46	MP5A	Z	-2.475	-2.475	0	% 100
47	MP1C	X	1.429	1.429	0	% 100
48	MP1C	Z	-2.475	-2.475	0	% 100
49	MP2C	X	1.58	1.58	0	% 100
50	MP2C	Z	-2.737	-2.737	0	% 100
51	MP3C	X	1.429	1.429	0	% 100
52	MP3C	Z	-2.475	-2.475	0	% 100
53	MP4C	X	1.429	1.429	0	% 100
54	MP4C	Z	-2.475	-2.475	0	% 100
55	MP5C	X	1.429	1.429	0	% 100
56	MP5C	Z	-2.475	-2.475	0	% 100
57	MP1B	X	1.429	1.429	0	% 100
58	MP1B	Z	-2.475	-2.475	0	% 100
59	MP2B	X	1.58	1.58	0	% 100
60	MP2B	Z	-2.737	-2.737	0	% 100
61	MP3B	X	1.429	1.429	0	% 100
62	MP3B	Z	-2.475	-2.475	0	% 100
63	MP4B	X	1.429	1.429	0	% 100
64	MP4B	Z	-2.475	-2.475	0	% 100
65	MP5B	X	1.429	1.429	0	% 100
66	MP5B	Z	-2.475	-2.475	0	% 100
67	OVP2	X	1.306	1.306	0	% 100
68	OVP2	Z	-2.262	-2.262	0	% 100
69	LR1	X	1.429	1.429	0	% 100
70	LR1	Z	-2.475	-2.475	0	% 100
71	M62	X	2.542	2.542	0	% 100
72	M62	Z	-4.402	-4.402	0	% 100
73	M63	X	2.542	2.542	0	% 100
74	M63	Z	-4.402	-4.402	0	% 100
75	M64	X	2.15	2.15	0	% 100
76	M64	Z	-3.724	-3.724	0	% 100
77	M70	X	1.185	1.185	0	% 100
78	M70	Z	-2.053	-2.053	0	% 100
79	M76	X	1.185	1.185	0	% 100
80	M76	Z	-2.053	-2.053	0	% 100
81	M82	X	0	0	0	% 100
82	M82	Z	0	0	0	% 100
83	M85	X	1.452	1.452	0	% 100
84	M85	Z	-2.514	-2.514	0	% 100
85	M88	X	0	0	0	% 100
86	M88	Z	0	0	0	% 100
87	M91	X	1.452	1.452	0	% 100
88	M91	Z	-2.514	-2.514	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	1.858	1.858	0	%100
2	M1	Z	-1.072	-1.072	0	%100
3	M2	X	2.03	2.03	0	%100
4	M2	Z	-1.172	-1.172	0	%100
5	M4	X	1.858	1.858	0	%100
6	M4	Z	-1.072	-1.072	0	%100
7	M5	X	2.03	2.03	0	%100
8	M5	Z	-1.172	-1.172	0	%100
9	LV	X	.832	.832	0	%100
10	LV	Z	-.48	-.48	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	0	0	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	0	0	0	%100
15	M9	X	3.328	3.328	0	%100
16	M9	Z	-1.921	-1.921	0	%100
17	M11	X	.832	.832	0	%100
18	M11	Z	-.48	-.48	0	%100
19	M15	X	.418	.418	0	%100
20	M15	Z	-.241	-.241	0	%100
21	M16	X	3.467	3.467	0	%100
22	M16	Z	-2.001	-2.001	0	%100
23	M18	X	1.477	1.477	0	%100
24	M18	Z	-.853	-.853	0	%100
25	M19	X	1.477	1.477	0	%100
26	M19	Z	-.853	-.853	0	%100
27	M21	X	3.467	3.467	0	%100
28	M21	Z	-2.001	-2.001	0	%100
29	M22	X	.418	.418	0	%100
30	M22	Z	-.241	-.241	0	%100
31	M23	X	2.143	2.143	0	%100
32	M23	Z	-1.237	-1.237	0	%100
33	M24	X	.536	.536	0	%100
34	M24	Z	-.309	-.309	0	%100
35	M25	X	.536	.536	0	%100
36	M25	Z	-.309	-.309	0	%100
37	MP1A	X	2.475	2.475	0	%100
38	MP1A	Z	-1.429	-1.429	0	%100
39	MP2A	X	2.737	2.737	0	%100
40	MP2A	Z	-1.58	-1.58	0	%100
41	MP3A	X	2.475	2.475	0	%100
42	MP3A	Z	-1.429	-1.429	0	%100
43	MP4A	X	2.475	2.475	0	%100
44	MP4A	Z	-1.429	-1.429	0	%100
45	MP5A	X	2.475	2.475	0	%100
46	MP5A	Z	-1.429	-1.429	0	%100
47	MP1C	X	2.475	2.475	0	%100
48	MP1C	Z	-1.429	-1.429	0	%100
49	MP2C	X	2.737	2.737	0	%100
50	MP2C	Z	-1.58	-1.58	0	%100
51	MP3C	X	2.475	2.475	0	%100
52	MP3C	Z	-1.429	-1.429	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	2.475	2.475	0	% 100
54	MP4C	Z	-1.429	-1.429	0	% 100
55	MP5C	X	2.475	2.475	0	% 100
56	MP5C	Z	-1.429	-1.429	0	% 100
57	MP1B	X	2.475	2.475	0	% 100
58	MP1B	Z	-1.429	-1.429	0	% 100
59	MP2B	X	2.737	2.737	0	% 100
60	MP2B	Z	-1.58	-1.58	0	% 100
61	MP3B	X	2.475	2.475	0	% 100
62	MP3B	Z	-1.429	-1.429	0	% 100
63	MP4B	X	2.475	2.475	0	% 100
64	MP4B	Z	-1.429	-1.429	0	% 100
65	MP5B	X	2.475	2.475	0	% 100
66	MP5B	Z	-1.429	-1.429	0	% 100
67	OVP2	X	2.262	2.262	0	% 100
68	OVP2	Z	-1.306	-1.306	0	% 100
69	LR1	X	2.475	2.475	0	% 100
70	LR1	Z	-1.429	-1.429	0	% 100
71	M62	X	3.95	3.95	0	% 100
72	M62	Z	-2.281	-2.281	0	% 100
73	M63	X	4.629	4.629	0	% 100
74	M63	Z	-2.672	-2.672	0	% 100
75	M64	X	3.95	3.95	0	% 100
76	M64	Z	-2.281	-2.281	0	% 100
77	M70	X	.684	.684	0	% 100
78	M70	Z	-.395	-.395	0	% 100
79	M76	X	2.737	2.737	0	% 100
80	M76	Z	-1.58	-1.58	0	% 100
81	M82	X	.684	.684	0	% 100
82	M82	Z	-.395	-.395	0	% 100
83	M85	X	3.352	3.352	0	% 100
84	M85	Z	-1.935	-1.935	0	% 100
85	M88	X	.838	.838	0	% 100
86	M88	Z	-.484	-.484	0	% 100
87	M91	X	.838	.838	0	% 100
88	M91	Z	-.484	-.484	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.715	.715	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	.781	.781	0	% 100
4	M2	Z	0	0	0	% 100
5	M4	X	2.86	2.86	0	% 100
6	M4	Z	0	0	0	% 100
7	M5	X	3.125	3.125	0	% 100
8	M5	Z	0	0	0	% 100
9	LV	X	0	0	0	% 100
10	LV	Z	0	0	0	% 100
11	M7	X	.715	.715	0	% 100
12	M7	Z	0	0	0	% 100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M8	X	.781	.781	0 %100
14	M8	Z	0	0	0 %100
15	M9	X	2.882	2.882	0 %100
16	M9	Z	0	0	0 %100
17	M11	X	2.882	2.882	0 %100
18	M11	Z	0	0	0 %100
19	M15	X	2.422	2.422	0 %100
20	M15	Z	0	0	0 %100
21	M16	X	2.422	2.422	0 %100
22	M16	Z	0	0	0 %100
23	M18	X	.124	.124	0 %100
24	M18	Z	0	0	0 %100
25	M19	X	3.645	3.645	0 %100
26	M19	Z	0	0	0 %100
27	M21	X	3.645	3.645	0 %100
28	M21	Z	0	0	0 %100
29	M22	X	.124	.124	0 %100
30	M22	Z	0	0	0 %100
31	M23	X	1.856	1.856	0 %100
32	M23	Z	0	0	0 %100
33	M24	X	1.856	1.856	0 %100
34	M24	Z	0	0	0 %100
35	M25	X	0	0	0 %100
36	M25	Z	0	0	0 %100
37	MP1A	X	2.858	2.858	0 %100
38	MP1A	Z	0	0	0 %100
39	MP2A	X	3.161	3.161	0 %100
40	MP2A	Z	0	0	0 %100
41	MP3A	X	2.858	2.858	0 %100
42	MP3A	Z	0	0	0 %100
43	MP4A	X	2.858	2.858	0 %100
44	MP4A	Z	0	0	0 %100
45	MP5A	X	2.858	2.858	0 %100
46	MP5A	Z	0	0	0 %100
47	MP1C	X	2.858	2.858	0 %100
48	MP1C	Z	0	0	0 %100
49	MP2C	X	3.161	3.161	0 %100
50	MP2C	Z	0	0	0 %100
51	MP3C	X	2.858	2.858	0 %100
52	MP3C	Z	0	0	0 %100
53	MP4C	X	2.858	2.858	0 %100
54	MP4C	Z	0	0	0 %100
55	MP5C	X	2.858	2.858	0 %100
56	MP5C	Z	0	0	0 %100
57	MP1B	X	2.858	2.858	0 %100
58	MP1B	Z	0	0	0 %100
59	MP2B	X	3.161	3.161	0 %100
60	MP2B	Z	0	0	0 %100
61	MP3B	X	2.858	2.858	0 %100
62	MP3B	Z	0	0	0 %100
63	MP4B	X	2.858	2.858	0 %100
64	MP4B	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	2.858	2.858	0	%100
66	MP5B	Z	0	0	0	%100
67	OVP2	X	2.612	2.612	0	%100
68	OVP2	Z	0	0	0	%100
69	LR1	X	2.858	2.858	0	%100
70	LR1	Z	0	0	0	%100
71	M62	X	4.3	4.3	0	%100
72	M62	Z	0	0	0	%100
73	M63	X	5.083	5.083	0	%100
74	M63	Z	0	0	0	%100
75	M64	X	5.083	5.083	0	%100
76	M64	Z	0	0	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	0	0	0	%100
79	M76	X	2.371	2.371	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	2.371	2.371	0	%100
82	M82	Z	0	0	0	%100
83	M85	X	2.903	2.903	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	2.903	2.903	0	%100
86	M88	Z	0	0	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	1.858	1.858	0	%100
6	M4	Z	1.072	1.072	0	%100
7	M5	X	2.03	2.03	0	%100
8	M5	Z	1.172	1.172	0	%100
9	LV	X	.832	.832	0	%100
10	LV	Z	.48	.48	0	%100
11	M7	X	1.858	1.858	0	%100
12	M7	Z	1.072	1.072	0	%100
13	M8	X	2.03	2.03	0	%100
14	M8	Z	1.172	1.172	0	%100
15	M9	X	.832	.832	0	%100
16	M9	Z	.48	.48	0	%100
17	M11	X	3.328	3.328	0	%100
18	M11	Z	1.921	1.921	0	%100
19	M15	X	3.467	3.467	0	%100
20	M15	Z	2.001	2.001	0	%100
21	M16	X	.418	.418	0	%100
22	M16	Z	.241	.241	0	%100
23	M18	X	.418	.418	0	%100
24	M18	Z	.241	.241	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M19	X	3.467	3.467	0	%100
26	M19	Z	2.001	2.001	0	%100
27	M21	X	1.477	1.477	0	%100
28	M21	Z	.853	.853	0	%100
29	M22	X	1.477	1.477	0	%100
30	M22	Z	.853	.853	0	%100
31	M23	X	.536	.536	0	%100
32	M23	Z	.309	.309	0	%100
33	M24	X	2.143	2.143	0	%100
34	M24	Z	1.237	1.237	0	%100
35	M25	X	.536	.536	0	%100
36	M25	Z	.309	.309	0	%100
37	MP1A	X	2.475	2.475	0	%100
38	MP1A	Z	1.429	1.429	0	%100
39	MP2A	X	2.737	2.737	0	%100
40	MP2A	Z	1.58	1.58	0	%100
41	MP3A	X	2.475	2.475	0	%100
42	MP3A	Z	1.429	1.429	0	%100
43	MP4A	X	2.475	2.475	0	%100
44	MP4A	Z	1.429	1.429	0	%100
45	MP5A	X	2.475	2.475	0	%100
46	MP5A	Z	1.429	1.429	0	%100
47	MP1C	X	2.475	2.475	0	%100
48	MP1C	Z	1.429	1.429	0	%100
49	MP2C	X	2.737	2.737	0	%100
50	MP2C	Z	1.58	1.58	0	%100
51	MP3C	X	2.475	2.475	0	%100
52	MP3C	Z	1.429	1.429	0	%100
53	MP4C	X	2.475	2.475	0	%100
54	MP4C	Z	1.429	1.429	0	%100
55	MP5C	X	2.475	2.475	0	%100
56	MP5C	Z	1.429	1.429	0	%100
57	MP1B	X	2.475	2.475	0	%100
58	MP1B	Z	1.429	1.429	0	%100
59	MP2B	X	2.737	2.737	0	%100
60	MP2B	Z	1.58	1.58	0	%100
61	MP3B	X	2.475	2.475	0	%100
62	MP3B	Z	1.429	1.429	0	%100
63	MP4B	X	2.475	2.475	0	%100
64	MP4B	Z	1.429	1.429	0	%100
65	MP5B	X	2.475	2.475	0	%100
66	MP5B	Z	1.429	1.429	0	%100
67	OVP2	X	2.262	2.262	0	%100
68	OVP2	Z	1.306	1.306	0	%100
69	LR1	X	2.475	2.475	0	%100
70	LR1	Z	1.429	1.429	0	%100
71	M62	X	3.95	3.95	0	%100
72	M62	Z	2.281	2.281	0	%100
73	M63	X	3.95	3.95	0	%100
74	M63	Z	2.281	2.281	0	%100
75	M64	X	4.629	4.629	0	%100
76	M64	Z	2.672	2.672	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M70	X	.684	.684	0	%100
78	M70	Z	.395	.395	0	%100
79	M76	X	.684	.684	0	%100
80	M76	Z	.395	.395	0	%100
81	M82	X	2.737	2.737	0	%100
82	M82	Z	1.58	1.58	0	%100
83	M85	X	.838	.838	0	%100
84	M85	Z	.484	.484	0	%100
85	M88	X	3.352	3.352	0	%100
86	M88	Z	1.935	1.935	0	%100
87	M91	X	.838	.838	0	%100
88	M91	Z	.484	.484	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.357	.357	0	%100
2	M1	Z	.619	.619	0	%100
3	M2	X	.391	.391	0	%100
4	M2	Z	.677	.677	0	%100
5	M4	X	.357	.357	0	%100
6	M4	Z	.619	.619	0	%100
7	M5	X	.391	.391	0	%100
8	M5	Z	.677	.677	0	%100
9	LV	X	1.441	1.441	0	%100
10	LV	Z	2.496	2.496	0	%100
11	M7	X	1.43	1.43	0	%100
12	M7	Z	2.477	2.477	0	%100
13	M8	X	1.562	1.562	0	%100
14	M8	Z	2.706	2.706	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	0	0	0	%100
17	M11	X	1.441	1.441	0	%100
18	M11	Z	2.496	2.496	0	%100
19	M15	X	1.822	1.822	0	%100
20	M15	Z	3.156	3.156	0	%100
21	M16	X	.062	.062	0	%100
22	M16	Z	.108	.108	0	%100
23	M18	X	1.211	1.211	0	%100
24	M18	Z	2.098	2.098	0	%100
25	M19	X	1.211	1.211	0	%100
26	M19	Z	2.098	2.098	0	%100
27	M21	X	.062	.062	0	%100
28	M21	Z	.108	.108	0	%100
29	M22	X	1.822	1.822	0	%100
30	M22	Z	3.156	3.156	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	.928	.928	0	%100
34	M24	Z	1.607	1.607	0	%100
35	M25	X	.928	.928	0	%100
36	M25	Z	1.607	1.607	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	1.429	1.429	0	%100
38	MP1A	Z	2.475	2.475	0	%100
39	MP2A	X	1.58	1.58	0	%100
40	MP2A	Z	2.737	2.737	0	%100
41	MP3A	X	1.429	1.429	0	%100
42	MP3A	Z	2.475	2.475	0	%100
43	MP4A	X	1.429	1.429	0	%100
44	MP4A	Z	2.475	2.475	0	%100
45	MP5A	X	1.429	1.429	0	%100
46	MP5A	Z	2.475	2.475	0	%100
47	MP1C	X	1.429	1.429	0	%100
48	MP1C	Z	2.475	2.475	0	%100
49	MP2C	X	1.58	1.58	0	%100
50	MP2C	Z	2.737	2.737	0	%100
51	MP3C	X	1.429	1.429	0	%100
52	MP3C	Z	2.475	2.475	0	%100
53	MP4C	X	1.429	1.429	0	%100
54	MP4C	Z	2.475	2.475	0	%100
55	MP5C	X	1.429	1.429	0	%100
56	MP5C	Z	2.475	2.475	0	%100
57	MP1B	X	1.429	1.429	0	%100
58	MP1B	Z	2.475	2.475	0	%100
59	MP2B	X	1.58	1.58	0	%100
60	MP2B	Z	2.737	2.737	0	%100
61	MP3B	X	1.429	1.429	0	%100
62	MP3B	Z	2.475	2.475	0	%100
63	MP4B	X	1.429	1.429	0	%100
64	MP4B	Z	2.475	2.475	0	%100
65	MP5B	X	1.429	1.429	0	%100
66	MP5B	Z	2.475	2.475	0	%100
67	OVP2	X	1.306	1.306	0	%100
68	OVP2	Z	2.262	2.262	0	%100
69	LR1	X	1.429	1.429	0	%100
70	LR1	Z	2.475	2.475	0	%100
71	M62	X	2.542	2.542	0	%100
72	M62	Z	4.402	4.402	0	%100
73	M63	X	2.15	2.15	0	%100
74	M63	Z	3.724	3.724	0	%100
75	M64	X	2.542	2.542	0	%100
76	M64	Z	4.402	4.402	0	%100
77	M70	X	1.185	1.185	0	%100
78	M70	Z	2.053	2.053	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	1.185	1.185	0	%100
82	M82	Z	2.053	2.053	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	1.452	1.452	0	%100
86	M88	Z	2.514	2.514	0	%100
87	M91	X	1.452	1.452	0	%100
88	M91	Z	2.514	2.514	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft,%)	End Location(ft,%)
1	M1	X	0	0	0	%100
2	M1	Z	2.145	2.145	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	2.344	2.344	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	3.842	3.842	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	2.145	2.145	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	2.344	2.344	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	.961	.961	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	.961	.961	0	%100
19	M15	X	0	0	0	%100
20	M15	Z	1.705	1.705	0	%100
21	M16	X	0	0	0	%100
22	M16	Z	1.705	1.705	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	4.003	4.003	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	.483	.483	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	.483	.483	0	%100
29	M22	X	0	0	0	%100
30	M22	Z	4.003	4.003	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	.619	.619	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	.619	.619	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	2.474	2.474	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	2.858	2.858	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	3.161	3.161	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	2.858	2.858	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	2.858	2.858	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	2.858	2.858	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	2.858	2.858	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	3.161	3.161	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	2.858	2.858	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	0	0	0	%100
54	MP4C	Z	2.858	2.858	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	2.858	2.858	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	2.858	2.858	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	3.161	3.161	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	2.858	2.858	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	2.858	2.858	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	2.858	2.858	0	%100
67	OVP2	X	0	0	0	%100
68	OVP2	Z	2.612	2.612	0	%100
69	LR1	X	0	0	0	%100
70	LR1	Z	2.858	2.858	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	5.345	5.345	0	%100
73	M63	X	0	0	0	%100
74	M63	Z	4.561	4.561	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	4.561	4.561	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	3.161	3.161	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	.79	.79	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	.79	.79	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	.968	.968	0	%100
85	M88	X	0	0	0	%100
86	M88	Z	.968	.968	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	3.871	3.871	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.43	-1.43	0	%100
2	M1	Z	2.477	2.477	0	%100
3	M2	X	-1.562	-1.562	0	%100
4	M2	Z	2.706	2.706	0	%100
5	M4	X	-.357	-.357	0	%100
6	M4	Z	.619	.619	0	%100
7	M5	X	-.391	-.391	0	%100
8	M5	Z	.677	.677	0	%100
9	LV	X	-1.441	-1.441	0	%100
10	LV	Z	2.496	2.496	0	%100
11	M7	X	-.357	-.357	0	%100
12	M7	Z	.619	.619	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M8	X	-.391	-.391	0	% 100
14	M8	Z	.677	.677	0	% 100
15	M9	X	-1.441	-1.441	0	% 100
16	M9	Z	2.496	2.496	0	% 100
17	M11	X	0	0	0	% 100
18	M11	Z	0	0	0	% 100
19	M15	X	-.062	-.062	0	% 100
20	M15	Z	.108	.108	0	% 100
21	M16	X	-1.822	-1.822	0	% 100
22	M16	Z	3.156	3.156	0	% 100
23	M18	X	-1.822	-1.822	0	% 100
24	M18	Z	3.156	3.156	0	% 100
25	M19	X	-.062	-.062	0	% 100
26	M19	Z	.108	.108	0	% 100
27	M21	X	-1.211	-1.211	0	% 100
28	M21	Z	2.098	2.098	0	% 100
29	M22	X	-1.211	-1.211	0	% 100
30	M22	Z	2.098	2.098	0	% 100
31	M23	X	-.928	-.928	0	% 100
32	M23	Z	1.607	1.607	0	% 100
33	M24	X	0	0	0	% 100
34	M24	Z	0	0	0	% 100
35	M25	X	-.928	-.928	0	% 100
36	M25	Z	1.607	1.607	0	% 100
37	MP1A	X	-1.429	-1.429	0	% 100
38	MP1A	Z	2.475	2.475	0	% 100
39	MP2A	X	-1.58	-1.58	0	% 100
40	MP2A	Z	2.737	2.737	0	% 100
41	MP3A	X	-1.429	-1.429	0	% 100
42	MP3A	Z	2.475	2.475	0	% 100
43	MP4A	X	-1.429	-1.429	0	% 100
44	MP4A	Z	2.475	2.475	0	% 100
45	MP5A	X	-1.429	-1.429	0	% 100
46	MP5A	Z	2.475	2.475	0	% 100
47	MP1C	X	-1.429	-1.429	0	% 100
48	MP1C	Z	2.475	2.475	0	% 100
49	MP2C	X	-1.58	-1.58	0	% 100
50	MP2C	Z	2.737	2.737	0	% 100
51	MP3C	X	-1.429	-1.429	0	% 100
52	MP3C	Z	2.475	2.475	0	% 100
53	MP4C	X	-1.429	-1.429	0	% 100
54	MP4C	Z	2.475	2.475	0	% 100
55	MP5C	X	-1.429	-1.429	0	% 100
56	MP5C	Z	2.475	2.475	0	% 100
57	MP1B	X	-1.429	-1.429	0	% 100
58	MP1B	Z	2.475	2.475	0	% 100
59	MP2B	X	-1.58	-1.58	0	% 100
60	MP2B	Z	2.737	2.737	0	% 100
61	MP3B	X	-1.429	-1.429	0	% 100
62	MP3B	Z	2.475	2.475	0	% 100
63	MP4B	X	-1.429	-1.429	0	% 100
64	MP4B	Z	2.475	2.475	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	-1.429	-1.429	0	% 100
66	MP5B	Z	2.475	2.475	0	% 100
67	OVP2	X	-1.306	-1.306	0	% 100
68	OVP2	Z	2.262	2.262	0	% 100
69	LR1	X	-1.429	-1.429	0	% 100
70	LR1	Z	2.475	2.475	0	% 100
71	M62	X	-2.542	-2.542	0	% 100
72	M62	Z	4.402	4.402	0	% 100
73	M63	X	-2.542	-2.542	0	% 100
74	M63	Z	4.402	4.402	0	% 100
75	M64	X	-2.15	-2.15	0	% 100
76	M64	Z	3.724	3.724	0	% 100
77	M70	X	-1.185	-1.185	0	% 100
78	M70	Z	2.053	2.053	0	% 100
79	M76	X	-1.185	-1.185	0	% 100
80	M76	Z	2.053	2.053	0	% 100
81	M82	X	0	0	0	% 100
82	M82	Z	0	0	0	% 100
83	M85	X	-1.452	-1.452	0	% 100
84	M85	Z	2.514	2.514	0	% 100
85	M88	X	0	0	0	% 100
86	M88	Z	0	0	0	% 100
87	M91	X	-1.452	-1.452	0	% 100
88	M91	Z	2.514	2.514	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-1.858	-1.858	0	% 100
2	M1	Z	1.072	1.072	0	% 100
3	M2	X	-2.03	-2.03	0	% 100
4	M2	Z	1.172	1.172	0	% 100
5	M4	X	-1.858	-1.858	0	% 100
6	M4	Z	1.072	1.072	0	% 100
7	M5	X	-2.03	-2.03	0	% 100
8	M5	Z	1.172	1.172	0	% 100
9	LV	X	-.832	-.832	0	% 100
10	LV	Z	.48	.48	0	% 100
11	M7	X	0	0	0	% 100
12	M7	Z	0	0	0	% 100
13	M8	X	0	0	0	% 100
14	M8	Z	0	0	0	% 100
15	M9	X	-3.328	-3.328	0	% 100
16	M9	Z	1.921	1.921	0	% 100
17	M11	X	-.832	-.832	0	% 100
18	M11	Z	.48	.48	0	% 100
19	M15	X	-.418	-.418	0	% 100
20	M15	Z	.241	.241	0	% 100
21	M16	X	-3.467	-3.467	0	% 100
22	M16	Z	2.001	2.001	0	% 100
23	M18	X	-1.477	-1.477	0	% 100
24	M18	Z	.853	.853	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M19	X	-1.477	-1.477	0	%100
26	M19	Z	.853	.853	0	%100
27	M21	X	-3.467	-3.467	0	%100
28	M21	Z	2.001	2.001	0	%100
29	M22	X	-.418	-.418	0	%100
30	M22	Z	.241	.241	0	%100
31	M23	X	-2.143	-2.143	0	%100
32	M23	Z	1.237	1.237	0	%100
33	M24	X	-.536	-.536	0	%100
34	M24	Z	.309	.309	0	%100
35	M25	X	-.536	-.536	0	%100
36	M25	Z	.309	.309	0	%100
37	MP1A	X	-2.475	-2.475	0	%100
38	MP1A	Z	1.429	1.429	0	%100
39	MP2A	X	-2.737	-2.737	0	%100
40	MP2A	Z	1.58	1.58	0	%100
41	MP3A	X	-2.475	-2.475	0	%100
42	MP3A	Z	1.429	1.429	0	%100
43	MP4A	X	-2.475	-2.475	0	%100
44	MP4A	Z	1.429	1.429	0	%100
45	MP5A	X	-2.475	-2.475	0	%100
46	MP5A	Z	1.429	1.429	0	%100
47	MP1C	X	-2.475	-2.475	0	%100
48	MP1C	Z	1.429	1.429	0	%100
49	MP2C	X	-2.737	-2.737	0	%100
50	MP2C	Z	1.58	1.58	0	%100
51	MP3C	X	-2.475	-2.475	0	%100
52	MP3C	Z	1.429	1.429	0	%100
53	MP4C	X	-2.475	-2.475	0	%100
54	MP4C	Z	1.429	1.429	0	%100
55	MP5C	X	-2.475	-2.475	0	%100
56	MP5C	Z	1.429	1.429	0	%100
57	MP1B	X	-2.475	-2.475	0	%100
58	MP1B	Z	1.429	1.429	0	%100
59	MP2B	X	-2.737	-2.737	0	%100
60	MP2B	Z	1.58	1.58	0	%100
61	MP3B	X	-2.475	-2.475	0	%100
62	MP3B	Z	1.429	1.429	0	%100
63	MP4B	X	-2.475	-2.475	0	%100
64	MP4B	Z	1.429	1.429	0	%100
65	MP5B	X	-2.475	-2.475	0	%100
66	MP5B	Z	1.429	1.429	0	%100
67	OVP2	X	-2.262	-2.262	0	%100
68	OVP2	Z	1.306	1.306	0	%100
69	LR1	X	-2.475	-2.475	0	%100
70	LR1	Z	1.429	1.429	0	%100
71	M62	X	-3.95	-3.95	0	%100
72	M62	Z	2.281	2.281	0	%100
73	M63	X	-4.629	-4.629	0	%100
74	M63	Z	2.672	2.672	0	%100
75	M64	X	-3.95	-3.95	0	%100
76	M64	Z	2.281	2.281	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M70	X	-.684	-.684	0	%100
78	M70	Z	.395	.395	0	%100
79	M76	X	-2.737	-2.737	0	%100
80	M76	Z	1.58	1.58	0	%100
81	M82	X	-.684	-.684	0	%100
82	M82	Z	.395	.395	0	%100
83	M85	X	-3.352	-3.352	0	%100
84	M85	Z	1.935	1.935	0	%100
85	M88	X	-.838	-.838	0	%100
86	M88	Z	.484	.484	0	%100
87	M91	X	-.838	-.838	0	%100
88	M91	Z	.484	.484	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.715	-.715	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.781	-.781	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	-2.86	-2.86	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	-3.125	-3.125	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	0	0	0	%100
11	M7	X	-.715	-.715	0	%100
12	M7	Z	0	0	0	%100
13	M8	X	-.781	-.781	0	%100
14	M8	Z	0	0	0	%100
15	M9	X	-2.882	-2.882	0	%100
16	M9	Z	0	0	0	%100
17	M11	X	-2.882	-2.882	0	%100
18	M11	Z	0	0	0	%100
19	M15	X	-2.422	-2.422	0	%100
20	M15	Z	0	0	0	%100
21	M16	X	-2.422	-2.422	0	%100
22	M16	Z	0	0	0	%100
23	M18	X	-.124	-.124	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	-3.645	-3.645	0	%100
26	M19	Z	0	0	0	%100
27	M21	X	-3.645	-3.645	0	%100
28	M21	Z	0	0	0	%100
29	M22	X	-.124	-.124	0	%100
30	M22	Z	0	0	0	%100
31	M23	X	-1.856	-1.856	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	-1.856	-1.856	0	%100
34	M24	Z	0	0	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	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,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	-2.858	-2.858	0	% 100
38	MP1A	Z	0	0	0	% 100
39	MP2A	X	-3.161	-3.161	0	% 100
40	MP2A	Z	0	0	0	% 100
41	MP3A	X	-2.858	-2.858	0	% 100
42	MP3A	Z	0	0	0	% 100
43	MP4A	X	-2.858	-2.858	0	% 100
44	MP4A	Z	0	0	0	% 100
45	MP5A	X	-2.858	-2.858	0	% 100
46	MP5A	Z	0	0	0	% 100
47	MP1C	X	-2.858	-2.858	0	% 100
48	MP1C	Z	0	0	0	% 100
49	MP2C	X	-3.161	-3.161	0	% 100
50	MP2C	Z	0	0	0	% 100
51	MP3C	X	-2.858	-2.858	0	% 100
52	MP3C	Z	0	0	0	% 100
53	MP4C	X	-2.858	-2.858	0	% 100
54	MP4C	Z	0	0	0	% 100
55	MP5C	X	-2.858	-2.858	0	% 100
56	MP5C	Z	0	0	0	% 100
57	MP1B	X	-2.858	-2.858	0	% 100
58	MP1B	Z	0	0	0	% 100
59	MP2B	X	-3.161	-3.161	0	% 100
60	MP2B	Z	0	0	0	% 100
61	MP3B	X	-2.858	-2.858	0	% 100
62	MP3B	Z	0	0	0	% 100
63	MP4B	X	-2.858	-2.858	0	% 100
64	MP4B	Z	0	0	0	% 100
65	MP5B	X	-2.858	-2.858	0	% 100
66	MP5B	Z	0	0	0	% 100
67	OVP2	X	-2.612	-2.612	0	% 100
68	OVP2	Z	0	0	0	% 100
69	LR1	X	-2.858	-2.858	0	% 100
70	LR1	Z	0	0	0	% 100
71	M62	X	-4.3	-4.3	0	% 100
72	M62	Z	0	0	0	% 100
73	M63	X	-5.083	-5.083	0	% 100
74	M63	Z	0	0	0	% 100
75	M64	X	-5.083	-5.083	0	% 100
76	M64	Z	0	0	0	% 100
77	M70	X	0	0	0	% 100
78	M70	Z	0	0	0	% 100
79	M76	X	-2.371	-2.371	0	% 100
80	M76	Z	0	0	0	% 100
81	M82	X	-2.371	-2.371	0	% 100
82	M82	Z	0	0	0	% 100
83	M85	X	-2.903	-2.903	0	% 100
84	M85	Z	0	0	0	% 100
85	M88	X	-2.903	-2.903	0	% 100
86	M88	Z	0	0	0	% 100
87	M91	X	0	0	0	% 100
88	M91	Z	0	0	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	-1.858	-1.858	0	%100
6	M4	Z	-1.072	-1.072	0	%100
7	M5	X	-2.03	-2.03	0	%100
8	M5	Z	-1.172	-1.172	0	%100
9	LV	X	-.832	-.832	0	%100
10	LV	Z	-.48	-.48	0	%100
11	M7	X	-1.858	-1.858	0	%100
12	M7	Z	-1.072	-1.072	0	%100
13	M8	X	-2.03	-2.03	0	%100
14	M8	Z	-1.172	-1.172	0	%100
15	M9	X	-.832	-.832	0	%100
16	M9	Z	-.48	-.48	0	%100
17	M11	X	-3.328	-3.328	0	%100
18	M11	Z	-1.921	-1.921	0	%100
19	M15	X	-3.467	-3.467	0	%100
20	M15	Z	-2.001	-2.001	0	%100
21	M16	X	-.418	-.418	0	%100
22	M16	Z	-.241	-.241	0	%100
23	M18	X	-.418	-.418	0	%100
24	M18	Z	-.241	-.241	0	%100
25	M19	X	-3.467	-3.467	0	%100
26	M19	Z	-2.001	-2.001	0	%100
27	M21	X	-1.477	-1.477	0	%100
28	M21	Z	-.853	-.853	0	%100
29	M22	X	-1.477	-1.477	0	%100
30	M22	Z	-.853	-.853	0	%100
31	M23	X	-.536	-.536	0	%100
32	M23	Z	-.309	-.309	0	%100
33	M24	X	-2.143	-2.143	0	%100
34	M24	Z	-1.237	-1.237	0	%100
35	M25	X	-.536	-.536	0	%100
36	M25	Z	-.309	-.309	0	%100
37	MP1A	X	-2.475	-2.475	0	%100
38	MP1A	Z	-1.429	-1.429	0	%100
39	MP2A	X	-2.737	-2.737	0	%100
40	MP2A	Z	-1.58	-1.58	0	%100
41	MP3A	X	-2.475	-2.475	0	%100
42	MP3A	Z	-1.429	-1.429	0	%100
43	MP4A	X	-2.475	-2.475	0	%100
44	MP4A	Z	-1.429	-1.429	0	%100
45	MP5A	X	-2.475	-2.475	0	%100
46	MP5A	Z	-1.429	-1.429	0	%100
47	MP1C	X	-2.475	-2.475	0	%100
48	MP1C	Z	-1.429	-1.429	0	%100
49	MP2C	X	-2.737	-2.737	0	%100
50	MP2C	Z	-1.58	-1.58	0	%100
51	MP3C	X	-2.475	-2.475	0	%100
52	MP3C	Z	-1.429	-1.429	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	-2.475	-2.475	0	%100
54	MP4C	Z	-1.429	-1.429	0	%100
55	MP5C	X	-2.475	-2.475	0	%100
56	MP5C	Z	-1.429	-1.429	0	%100
57	MP1B	X	-2.475	-2.475	0	%100
58	MP1B	Z	-1.429	-1.429	0	%100
59	MP2B	X	-2.737	-2.737	0	%100
60	MP2B	Z	-1.58	-1.58	0	%100
61	MP3B	X	-2.475	-2.475	0	%100
62	MP3B	Z	-1.429	-1.429	0	%100
63	MP4B	X	-2.475	-2.475	0	%100
64	MP4B	Z	-1.429	-1.429	0	%100
65	MP5B	X	-2.475	-2.475	0	%100
66	MP5B	Z	-1.429	-1.429	0	%100
67	OVP2	X	-2.262	-2.262	0	%100
68	OVP2	Z	-1.306	-1.306	0	%100
69	LR1	X	-2.475	-2.475	0	%100
70	LR1	Z	-1.429	-1.429	0	%100
71	M62	X	-3.95	-3.95	0	%100
72	M62	Z	-2.281	-2.281	0	%100
73	M63	X	-3.95	-3.95	0	%100
74	M63	Z	-2.281	-2.281	0	%100
75	M64	X	-4.629	-4.629	0	%100
76	M64	Z	-2.672	-2.672	0	%100
77	M70	X	-.684	-.684	0	%100
78	M70	Z	-.395	-.395	0	%100
79	M76	X	-.684	-.684	0	%100
80	M76	Z	-.395	-.395	0	%100
81	M82	X	-2.737	-2.737	0	%100
82	M82	Z	-1.58	-1.58	0	%100
83	M85	X	-.838	-.838	0	%100
84	M85	Z	-.484	-.484	0	%100
85	M88	X	-3.352	-3.352	0	%100
86	M88	Z	-1.935	-1.935	0	%100
87	M91	X	-.838	-.838	0	%100
88	M91	Z	-.484	-.484	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.357	-.357	0	%100
2	M1	Z	-.619	-.619	0	%100
3	M2	X	-.391	-.391	0	%100
4	M2	Z	-.677	-.677	0	%100
5	M4	X	-.357	-.357	0	%100
6	M4	Z	-.619	-.619	0	%100
7	M5	X	-.391	-.391	0	%100
8	M5	Z	-.677	-.677	0	%100
9	LV	X	-1.441	-1.441	0	%100
10	LV	Z	-2.496	-2.496	0	%100
11	M7	X	-1.43	-1.43	0	%100
12	M7	Z	-2.477	-2.477	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M8	X	-1.562	-1.562	0 % 100
14	M8	Z	-2.706	-2.706	0 % 100
15	M9	X	0	0	0 % 100
16	M9	Z	0	0	0 % 100
17	M11	X	-1.441	-1.441	0 % 100
18	M11	Z	-2.496	-2.496	0 % 100
19	M15	X	-1.822	-1.822	0 % 100
20	M15	Z	-3.156	-3.156	0 % 100
21	M16	X	-.062	-.062	0 % 100
22	M16	Z	-.108	-.108	0 % 100
23	M18	X	-1.211	-1.211	0 % 100
24	M18	Z	-2.098	-2.098	0 % 100
25	M19	X	-1.211	-1.211	0 % 100
26	M19	Z	-2.098	-2.098	0 % 100
27	M21	X	-.062	-.062	0 % 100
28	M21	Z	-.108	-.108	0 % 100
29	M22	X	-1.822	-1.822	0 % 100
30	M22	Z	-3.156	-3.156	0 % 100
31	M23	X	0	0	0 % 100
32	M23	Z	0	0	0 % 100
33	M24	X	-.928	-.928	0 % 100
34	M24	Z	-1.607	-1.607	0 % 100
35	M25	X	-.928	-.928	0 % 100
36	M25	Z	-1.607	-1.607	0 % 100
37	MP1A	X	-1.429	-1.429	0 % 100
38	MP1A	Z	-2.475	-2.475	0 % 100
39	MP2A	X	-1.58	-1.58	0 % 100
40	MP2A	Z	-2.737	-2.737	0 % 100
41	MP3A	X	-1.429	-1.429	0 % 100
42	MP3A	Z	-2.475	-2.475	0 % 100
43	MP4A	X	-1.429	-1.429	0 % 100
44	MP4A	Z	-2.475	-2.475	0 % 100
45	MP5A	X	-1.429	-1.429	0 % 100
46	MP5A	Z	-2.475	-2.475	0 % 100
47	MP1C	X	-1.429	-1.429	0 % 100
48	MP1C	Z	-2.475	-2.475	0 % 100
49	MP2C	X	-1.58	-1.58	0 % 100
50	MP2C	Z	-2.737	-2.737	0 % 100
51	MP3C	X	-1.429	-1.429	0 % 100
52	MP3C	Z	-2.475	-2.475	0 % 100
53	MP4C	X	-1.429	-1.429	0 % 100
54	MP4C	Z	-2.475	-2.475	0 % 100
55	MP5C	X	-1.429	-1.429	0 % 100
56	MP5C	Z	-2.475	-2.475	0 % 100
57	MP1B	X	-1.429	-1.429	0 % 100
58	MP1B	Z	-2.475	-2.475	0 % 100
59	MP2B	X	-1.58	-1.58	0 % 100
60	MP2B	Z	-2.737	-2.737	0 % 100
61	MP3B	X	-1.429	-1.429	0 % 100
62	MP3B	Z	-2.475	-2.475	0 % 100
63	MP4B	X	-1.429	-1.429	0 % 100
64	MP4B	Z	-2.475	-2.475	0 % 100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	-1.429	-1.429	0	% 100
66	MP5B	Z	-2.475	-2.475	0	% 100
67	OVP2	X	-1.306	-1.306	0	% 100
68	OVP2	Z	-2.262	-2.262	0	% 100
69	LR1	X	-1.429	-1.429	0	% 100
70	LR1	Z	-2.475	-2.475	0	% 100
71	M62	X	-2.542	-2.542	0	% 100
72	M62	Z	-4.402	-4.402	0	% 100
73	M63	X	-2.15	-2.15	0	% 100
74	M63	Z	-3.724	-3.724	0	% 100
75	M64	X	-2.542	-2.542	0	% 100
76	M64	Z	-4.402	-4.402	0	% 100
77	M70	X	-1.185	-1.185	0	% 100
78	M70	Z	-2.053	-2.053	0	% 100
79	M76	X	0	0	0	% 100
80	M76	Z	0	0	0	% 100
81	M82	X	-1.185	-1.185	0	% 100
82	M82	Z	-2.053	-2.053	0	% 100
83	M85	X	0	0	0	% 100
84	M85	Z	0	0	0	% 100
85	M88	X	-1.452	-1.452	0	% 100
86	M88	Z	-2.514	-2.514	0	% 100
87	M91	X	-1.452	-1.452	0	% 100
88	M91	Z	-2.514	-2.514	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	% 100
2	M1	Z	-.488	-.488	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	-.52	-.52	0	% 100
5	M4	X	0	0	0	% 100
6	M4	Z	0	0	0	% 100
7	M5	X	0	0	0	% 100
8	M5	Z	0	0	0	% 100
9	LV	X	0	0	0	% 100
10	LV	Z	-.808	-.808	0	% 100
11	M7	X	0	0	0	% 100
12	M7	Z	-.488	-.488	0	% 100
13	M8	X	0	0	0	% 100
14	M8	Z	-.52	-.52	0	% 100
15	M9	X	0	0	0	% 100
16	M9	Z	-.202	-.202	0	% 100
17	M11	X	0	0	0	% 100
18	M11	Z	-.202	-.202	0	% 100
19	M15	X	0	0	0	% 100
20	M15	Z	-.44	-.44	0	% 100
21	M16	X	0	0	0	% 100
22	M16	Z	-.44	-.44	0	% 100
23	M18	X	0	0	0	% 100
24	M18	Z	-1.034	-1.034	0	% 100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]	
25	M19	X	0	0	0	%100
26	M19	Z	- .125	- .125	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	- .125	- .125	0	%100
29	M22	X	0	0	0	%100
30	M22	Z	-1.034	-1.034	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	- .135	- .135	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	- .135	- .135	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	- .539	- .539	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	- .518	- .518	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	- .627	- .627	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	- .518	- .518	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	- .518	- .518	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	- .518	- .518	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	- .518	- .518	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	- .627	- .627	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	- .518	- .518	0	%100
53	MP4C	X	0	0	0	%100
54	MP4C	Z	- .518	- .518	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	- .518	- .518	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	- .518	- .518	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	- .627	- .627	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	- .518	- .518	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	- .518	- .518	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	- .518	- .518	0	%100
67	OVP2	X	0	0	0	%100
68	OVP2	Z	- .472	- .472	0	%100
69	LR1	X	0	0	0	%100
70	LR1	Z	- .518	- .518	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	-1.504	-1.504	0	%100
73	M63	X	0	0	0	%100
74	M63	Z	-1.154	-1.154	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	-1.154	-1.154	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M70	X	0	0	0	% 100
78	M70	Z	-.627	-.627	0	% 100
79	M76	X	0	0	0	% 100
80	M76	Z	-.157	-.157	0	% 100
81	M82	X	0	0	0	% 100
82	M82	Z	-.157	-.157	0	% 100
83	M85	X	0	0	0	% 100
84	M85	Z	-.231	-.231	0	% 100
85	M88	X	0	0	0	% 100
86	M88	Z	-.231	-.231	0	% 100
87	M91	X	0	0	0	% 100
88	M91	Z	-.926	-.926	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.325	.325	0	% 100
2	M1	Z	-.563	-.563	0	% 100
3	M2	X	.347	.347	0	% 100
4	M2	Z	-.6	-.6	0	% 100
5	M4	X	.081	.081	0	% 100
6	M4	Z	-.141	-.141	0	% 100
7	M5	X	.087	.087	0	% 100
8	M5	Z	-.15	-.15	0	% 100
9	LV	X	.303	.303	0	% 100
10	LV	Z	-.525	-.525	0	% 100
11	M7	X	.081	.081	0	% 100
12	M7	Z	-.141	-.141	0	% 100
13	M8	X	.087	.087	0	% 100
14	M8	Z	-.15	-.15	0	% 100
15	M9	X	.303	.303	0	% 100
16	M9	Z	-.525	-.525	0	% 100
17	M11	X	0	0	0	% 100
18	M11	Z	0	0	0	% 100
19	M15	X	.016	.016	0	% 100
20	M15	Z	-.028	-.028	0	% 100
21	M16	X	.471	.471	0	% 100
22	M16	Z	-.815	-.815	0	% 100
23	M18	X	.471	.471	0	% 100
24	M18	Z	-.815	-.815	0	% 100
25	M19	X	.016	.016	0	% 100
26	M19	Z	-.028	-.028	0	% 100
27	M21	X	.313	.313	0	% 100
28	M21	Z	-.542	-.542	0	% 100
29	M22	X	.313	.313	0	% 100
30	M22	Z	-.542	-.542	0	% 100
31	M23	X	.202	.202	0	% 100
32	M23	Z	-.35	-.35	0	% 100
33	M24	X	0	0	0	% 100
34	M24	Z	0	0	0	% 100
35	M25	X	.202	.202	0	% 100
36	M25	Z	-.35	-.35	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	.259	.259	0	%100
38	MP1A	Z	-.449	-.449	0	%100
39	MP2A	X	.313	.313	0	%100
40	MP2A	Z	-.543	-.543	0	%100
41	MP3A	X	.259	.259	0	%100
42	MP3A	Z	-.449	-.449	0	%100
43	MP4A	X	.259	.259	0	%100
44	MP4A	Z	-.449	-.449	0	%100
45	MP5A	X	.259	.259	0	%100
46	MP5A	Z	-.449	-.449	0	%100
47	MP1C	X	.259	.259	0	%100
48	MP1C	Z	-.449	-.449	0	%100
49	MP2C	X	.313	.313	0	%100
50	MP2C	Z	-.543	-.543	0	%100
51	MP3C	X	.259	.259	0	%100
52	MP3C	Z	-.449	-.449	0	%100
53	MP4C	X	.259	.259	0	%100
54	MP4C	Z	-.449	-.449	0	%100
55	MP5C	X	.259	.259	0	%100
56	MP5C	Z	-.449	-.449	0	%100
57	MP1B	X	.259	.259	0	%100
58	MP1B	Z	-.449	-.449	0	%100
59	MP2B	X	.313	.313	0	%100
60	MP2B	Z	-.543	-.543	0	%100
61	MP3B	X	.259	.259	0	%100
62	MP3B	Z	-.449	-.449	0	%100
63	MP4B	X	.259	.259	0	%100
64	MP4B	Z	-.449	-.449	0	%100
65	MP5B	X	.259	.259	0	%100
66	MP5B	Z	-.449	-.449	0	%100
67	OVP2	X	.236	.236	0	%100
68	OVP2	Z	-.409	-.409	0	%100
69	LR1	X	.259	.259	0	%100
70	LR1	Z	-.449	-.449	0	%100
71	M62	X	.694	.694	0	%100
72	M62	Z	-1.202	-1.202	0	%100
73	M63	X	.694	.694	0	%100
74	M63	Z	-1.202	-1.202	0	%100
75	M64	X	.519	.519	0	%100
76	M64	Z	-.898	-.898	0	%100
77	M70	X	.235	.235	0	%100
78	M70	Z	-.407	-.407	0	%100
79	M76	X	.235	.235	0	%100
80	M76	Z	-.407	-.407	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	0	0	0	%100
83	M85	X	.347	.347	0	%100
84	M85	Z	-.601	-.601	0	%100
85	M88	X	0	0	0	%100
86	M88	Z	0	0	0	%100
87	M91	X	.347	.347	0	%100
88	M91	Z	-.601	-.601	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	.422	.422	0	%100
2	M1	Z	-.244	-.244	0	%100
3	M2	X	.45	.45	0	%100
4	M2	Z	-.26	-.26	0	%100
5	M4	X	.422	.422	0	%100
6	M4	Z	-.244	-.244	0	%100
7	M5	X	.45	.45	0	%100
8	M5	Z	-.26	-.26	0	%100
9	LV	X	.175	.175	0	%100
10	LV	Z	-.101	-.101	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	0	0	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	0	0	0	%100
15	M9	X	.7	.7	0	%100
16	M9	Z	-.404	-.404	0	%100
17	M11	X	.175	.175	0	%100
18	M11	Z	-.101	-.101	0	%100
19	M15	X	.108	.108	0	%100
20	M15	Z	-.062	-.062	0	%100
21	M16	X	.895	.895	0	%100
22	M16	Z	-.517	-.517	0	%100
23	M18	X	.381	.381	0	%100
24	M18	Z	-.22	-.22	0	%100
25	M19	X	.381	.381	0	%100
26	M19	Z	-.22	-.22	0	%100
27	M21	X	.895	.895	0	%100
28	M21	Z	-.517	-.517	0	%100
29	M22	X	.108	.108	0	%100
30	M22	Z	-.062	-.062	0	%100
31	M23	X	.467	.467	0	%100
32	M23	Z	-.27	-.27	0	%100
33	M24	X	.117	.117	0	%100
34	M24	Z	-.067	-.067	0	%100
35	M25	X	.117	.117	0	%100
36	M25	Z	-.067	-.067	0	%100
37	MP1A	X	.449	.449	0	%100
38	MP1A	Z	-.259	-.259	0	%100
39	MP2A	X	.543	.543	0	%100
40	MP2A	Z	-.313	-.313	0	%100
41	MP3A	X	.449	.449	0	%100
42	MP3A	Z	-.259	-.259	0	%100
43	MP4A	X	.449	.449	0	%100
44	MP4A	Z	-.259	-.259	0	%100
45	MP5A	X	.449	.449	0	%100
46	MP5A	Z	-.259	-.259	0	%100
47	MP1C	X	.449	.449	0	%100
48	MP1C	Z	-.259	-.259	0	%100
49	MP2C	X	.543	.543	0	%100
50	MP2C	Z	-.313	-.313	0	%100
51	MP3C	X	.449	.449	0	%100
52	MP3C	Z	-.259	-.259	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	.449	.449	0	%100
54	MP4C	Z	-.259	-.259	0	%100
55	MP5C	X	.449	.449	0	%100
56	MP5C	Z	-.259	-.259	0	%100
57	MP1B	X	.449	.449	0	%100
58	MP1B	Z	-.259	-.259	0	%100
59	MP2B	X	.543	.543	0	%100
60	MP2B	Z	-.313	-.313	0	%100
61	MP3B	X	.449	.449	0	%100
62	MP3B	Z	-.259	-.259	0	%100
63	MP4B	X	.449	.449	0	%100
64	MP4B	Z	-.259	-.259	0	%100
65	MP5B	X	.449	.449	0	%100
66	MP5B	Z	-.259	-.259	0	%100
67	OVP2	X	.409	.409	0	%100
68	OVP2	Z	-.236	-.236	0	%100
69	LR1	X	.449	.449	0	%100
70	LR1	Z	-.259	-.259	0	%100
71	M62	X	.999	.999	0	%100
72	M62	Z	-.577	-.577	0	%100
73	M63	X	1.303	1.303	0	%100
74	M63	Z	-.752	-.752	0	%100
75	M64	X	.999	.999	0	%100
76	M64	Z	-.577	-.577	0	%100
77	M70	X	.136	.136	0	%100
78	M70	Z	-.078	-.078	0	%100
79	M76	X	.543	.543	0	%100
80	M76	Z	-.313	-.313	0	%100
81	M82	X	.136	.136	0	%100
82	M82	Z	-.078	-.078	0	%100
83	M85	X	.802	.802	0	%100
84	M85	Z	-.463	-.463	0	%100
85	M88	X	.2	.2	0	%100
86	M88	Z	-.116	-.116	0	%100
87	M91	X	.2	.2	0	%100
88	M91	Z	-.116	-.116	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.163	.163	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	.173	.173	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	.65	.65	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	.693	.693	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	0	0	0	%100
11	M7	X	.163	.163	0	%100
12	M7	Z	0	0	0	%100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	M8	X	.173	.173	0 %100
14	M8	Z	0	0	0 %100
15	M9	X	.606	.606	0 %100
16	M9	Z	0	0	0 %100
17	M11	X	.606	.606	0 %100
18	M11	Z	0	0	0 %100
19	M15	X	.626	.626	0 %100
20	M15	Z	0	0	0 %100
21	M16	X	.626	.626	0 %100
22	M16	Z	0	0	0 %100
23	M18	X	.032	.032	0 %100
24	M18	Z	0	0	0 %100
25	M19	X	.941	.941	0 %100
26	M19	Z	0	0	0 %100
27	M21	X	.941	.941	0 %100
28	M21	Z	0	0	0 %100
29	M22	X	.032	.032	0 %100
30	M22	Z	0	0	0 %100
31	M23	X	.405	.405	0 %100
32	M23	Z	0	0	0 %100
33	M24	X	.405	.405	0 %100
34	M24	Z	0	0	0 %100
35	M25	X	0	0	0 %100
36	M25	Z	0	0	0 %100
37	MP1A	X	.518	.518	0 %100
38	MP1A	Z	0	0	0 %100
39	MP2A	X	.627	.627	0 %100
40	MP2A	Z	0	0	0 %100
41	MP3A	X	.518	.518	0 %100
42	MP3A	Z	0	0	0 %100
43	MP4A	X	.518	.518	0 %100
44	MP4A	Z	0	0	0 %100
45	MP5A	X	.518	.518	0 %100
46	MP5A	Z	0	0	0 %100
47	MP1C	X	.518	.518	0 %100
48	MP1C	Z	0	0	0 %100
49	MP2C	X	.627	.627	0 %100
50	MP2C	Z	0	0	0 %100
51	MP3C	X	.518	.518	0 %100
52	MP3C	Z	0	0	0 %100
53	MP4C	X	.518	.518	0 %100
54	MP4C	Z	0	0	0 %100
55	MP5C	X	.518	.518	0 %100
56	MP5C	Z	0	0	0 %100
57	MP1B	X	.518	.518	0 %100
58	MP1B	Z	0	0	0 %100
59	MP2B	X	.627	.627	0 %100
60	MP2B	Z	0	0	0 %100
61	MP3B	X	.518	.518	0 %100
62	MP3B	Z	0	0	0 %100
63	MP4B	X	.518	.518	0 %100
64	MP4B	Z	0	0	0 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	.518	.518	0	%100
66	MP5B	Z	0	0	0	%100
67	OVP2	X	.472	.472	0	%100
68	OVP2	Z	0	0	0	%100
69	LR1	X	.518	.518	0	%100
70	LR1	Z	0	0	0	%100
71	M62	X	1.037	1.037	0	%100
72	M62	Z	0	0	0	%100
73	M63	X	1.388	1.388	0	%100
74	M63	Z	0	0	0	%100
75	M64	X	1.388	1.388	0	%100
76	M64	Z	0	0	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	0	0	0	%100
79	M76	X	.47	.47	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	.47	.47	0	%100
82	M82	Z	0	0	0	%100
83	M85	X	.694	.694	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	.694	.694	0	%100
86	M88	Z	0	0	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	0	0	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	.422	.422	0	%100
6	M4	Z	.244	.244	0	%100
7	M5	X	.45	.45	0	%100
8	M5	Z	.26	.26	0	%100
9	LV	X	.175	.175	0	%100
10	LV	Z	.101	.101	0	%100
11	M7	X	.422	.422	0	%100
12	M7	Z	.244	.244	0	%100
13	M8	X	.45	.45	0	%100
14	M8	Z	.26	.26	0	%100
15	M9	X	.175	.175	0	%100
16	M9	Z	.101	.101	0	%100
17	M11	X	.7	.7	0	%100
18	M11	Z	.404	.404	0	%100
19	M15	X	.895	.895	0	%100
20	M15	Z	.517	.517	0	%100
21	M16	X	.108	.108	0	%100
22	M16	Z	.062	.062	0	%100
23	M18	X	.108	.108	0	%100
24	M18	Z	.062	.062	0	%100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M19	X	.895	.895	0	% 100
26	M19	Z	.517	.517	0	% 100
27	M21	X	.381	.381	0	% 100
28	M21	Z	.22	.22	0	% 100
29	M22	X	.381	.381	0	% 100
30	M22	Z	.22	.22	0	% 100
31	M23	X	.117	.117	0	% 100
32	M23	Z	.067	.067	0	% 100
33	M24	X	.467	.467	0	% 100
34	M24	Z	.27	.27	0	% 100
35	M25	X	.117	.117	0	% 100
36	M25	Z	.067	.067	0	% 100
37	MP1A	X	.449	.449	0	% 100
38	MP1A	Z	.259	.259	0	% 100
39	MP2A	X	.543	.543	0	% 100
40	MP2A	Z	.313	.313	0	% 100
41	MP3A	X	.449	.449	0	% 100
42	MP3A	Z	.259	.259	0	% 100
43	MP4A	X	.449	.449	0	% 100
44	MP4A	Z	.259	.259	0	% 100
45	MP5A	X	.449	.449	0	% 100
46	MP5A	Z	.259	.259	0	% 100
47	MP1C	X	.449	.449	0	% 100
48	MP1C	Z	.259	.259	0	% 100
49	MP2C	X	.543	.543	0	% 100
50	MP2C	Z	.313	.313	0	% 100
51	MP3C	X	.449	.449	0	% 100
52	MP3C	Z	.259	.259	0	% 100
53	MP4C	X	.449	.449	0	% 100
54	MP4C	Z	.259	.259	0	% 100
55	MP5C	X	.449	.449	0	% 100
56	MP5C	Z	.259	.259	0	% 100
57	MP1B	X	.449	.449	0	% 100
58	MP1B	Z	.259	.259	0	% 100
59	MP2B	X	.543	.543	0	% 100
60	MP2B	Z	.313	.313	0	% 100
61	MP3B	X	.449	.449	0	% 100
62	MP3B	Z	.259	.259	0	% 100
63	MP4B	X	.449	.449	0	% 100
64	MP4B	Z	.259	.259	0	% 100
65	MP5B	X	.449	.449	0	% 100
66	MP5B	Z	.259	.259	0	% 100
67	OVP2	X	.409	.409	0	% 100
68	OVP2	Z	.236	.236	0	% 100
69	LR1	X	.449	.449	0	% 100
70	LR1	Z	.259	.259	0	% 100
71	M62	X	.999	.999	0	% 100
72	M62	Z	.577	.577	0	% 100
73	M63	X	.999	.999	0	% 100
74	M63	Z	.577	.577	0	% 100
75	M64	X	1.303	1.303	0	% 100
76	M64	Z	.752	.752	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
77	M70	X	.136	.136	0	%100
78	M70	Z	.078	.078	0	%100
79	M76	X	.136	.136	0	%100
80	M76	Z	.078	.078	0	%100
81	M82	X	.543	.543	0	%100
82	M82	Z	.313	.313	0	%100
83	M85	X	.2	.2	0	%100
84	M85	Z	.116	.116	0	%100
85	M88	X	.802	.802	0	%100
86	M88	Z	.463	.463	0	%100
87	M91	X	.2	.2	0	%100
88	M91	Z	.116	.116	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	.081	.081	0	%100
2	M1	Z	.141	.141	0	%100
3	M2	X	.087	.087	0	%100
4	M2	Z	.15	.15	0	%100
5	M4	X	.081	.081	0	%100
6	M4	Z	.141	.141	0	%100
7	M5	X	.087	.087	0	%100
8	M5	Z	.15	.15	0	%100
9	LV	X	.303	.303	0	%100
10	LV	Z	.525	.525	0	%100
11	M7	X	.325	.325	0	%100
12	M7	Z	.563	.563	0	%100
13	M8	X	.347	.347	0	%100
14	M8	Z	.6	.6	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	0	0	0	%100
17	M11	X	.303	.303	0	%100
18	M11	Z	.525	.525	0	%100
19	M15	X	.471	.471	0	%100
20	M15	Z	.815	.815	0	%100
21	M16	X	.016	.016	0	%100
22	M16	Z	.028	.028	0	%100
23	M18	X	.313	.313	0	%100
24	M18	Z	.542	.542	0	%100
25	M19	X	.313	.313	0	%100
26	M19	Z	.542	.542	0	%100
27	M21	X	.016	.016	0	%100
28	M21	Z	.028	.028	0	%100
29	M22	X	.471	.471	0	%100
30	M22	Z	.815	.815	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	.202	.202	0	%100
34	M24	Z	.35	.35	0	%100
35	M25	X	.202	.202	0	%100
36	M25	Z	.35	.35	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
37	MP1A	X	.259	.259	0	% 100
38	MP1A	Z	.449	.449	0	% 100
39	MP2A	X	.313	.313	0	% 100
40	MP2A	Z	.543	.543	0	% 100
41	MP3A	X	.259	.259	0	% 100
42	MP3A	Z	.449	.449	0	% 100
43	MP4A	X	.259	.259	0	% 100
44	MP4A	Z	.449	.449	0	% 100
45	MP5A	X	.259	.259	0	% 100
46	MP5A	Z	.449	.449	0	% 100
47	MP1C	X	.259	.259	0	% 100
48	MP1C	Z	.449	.449	0	% 100
49	MP2C	X	.313	.313	0	% 100
50	MP2C	Z	.543	.543	0	% 100
51	MP3C	X	.259	.259	0	% 100
52	MP3C	Z	.449	.449	0	% 100
53	MP4C	X	.259	.259	0	% 100
54	MP4C	Z	.449	.449	0	% 100
55	MP5C	X	.259	.259	0	% 100
56	MP5C	Z	.449	.449	0	% 100
57	MP1B	X	.259	.259	0	% 100
58	MP1B	Z	.449	.449	0	% 100
59	MP2B	X	.313	.313	0	% 100
60	MP2B	Z	.543	.543	0	% 100
61	MP3B	X	.259	.259	0	% 100
62	MP3B	Z	.449	.449	0	% 100
63	MP4B	X	.259	.259	0	% 100
64	MP4B	Z	.449	.449	0	% 100
65	MP5B	X	.259	.259	0	% 100
66	MP5B	Z	.449	.449	0	% 100
67	OVP2	X	.236	.236	0	% 100
68	OVP2	Z	.409	.409	0	% 100
69	LR1	X	.259	.259	0	% 100
70	LR1	Z	.449	.449	0	% 100
71	M62	X	.694	.694	0	% 100
72	M62	Z	1.202	1.202	0	% 100
73	M63	X	.519	.519	0	% 100
74	M63	Z	.898	.898	0	% 100
75	M64	X	.694	.694	0	% 100
76	M64	Z	1.202	1.202	0	% 100
77	M70	X	.235	.235	0	% 100
78	M70	Z	.407	.407	0	% 100
79	M76	X	0	0	0	% 100
80	M76	Z	0	0	0	% 100
81	M82	X	.235	.235	0	% 100
82	M82	Z	.407	.407	0	% 100
83	M85	X	0	0	0	% 100
84	M85	Z	0	0	0	% 100
85	M88	X	.347	.347	0	% 100
86	M88	Z	.601	.601	0	% 100
87	M91	X	.347	.347	0	% 100
88	M91	Z	.601	.601	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	%100
2	M1	Z	.488	.488	0	%100
3	M2	X	0	0	0	%100
4	M2	Z	.52	.52	0	%100
5	M4	X	0	0	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	0	0	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	.808	.808	0	%100
11	M7	X	0	0	0	%100
12	M7	Z	.488	.488	0	%100
13	M8	X	0	0	0	%100
14	M8	Z	.52	.52	0	%100
15	M9	X	0	0	0	%100
16	M9	Z	.202	.202	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	.202	.202	0	%100
19	M15	X	0	0	0	%100
20	M15	Z	.44	.44	0	%100
21	M16	X	0	0	0	%100
22	M16	Z	.44	.44	0	%100
23	M18	X	0	0	0	%100
24	M18	Z	1.034	1.034	0	%100
25	M19	X	0	0	0	%100
26	M19	Z	.125	.125	0	%100
27	M21	X	0	0	0	%100
28	M21	Z	.125	.125	0	%100
29	M22	X	0	0	0	%100
30	M22	Z	1.034	1.034	0	%100
31	M23	X	0	0	0	%100
32	M23	Z	.135	.135	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	.135	.135	0	%100
35	M25	X	0	0	0	%100
36	M25	Z	.539	.539	0	%100
37	MP1A	X	0	0	0	%100
38	MP1A	Z	.518	.518	0	%100
39	MP2A	X	0	0	0	%100
40	MP2A	Z	.627	.627	0	%100
41	MP3A	X	0	0	0	%100
42	MP3A	Z	.518	.518	0	%100
43	MP4A	X	0	0	0	%100
44	MP4A	Z	.518	.518	0	%100
45	MP5A	X	0	0	0	%100
46	MP5A	Z	.518	.518	0	%100
47	MP1C	X	0	0	0	%100
48	MP1C	Z	.518	.518	0	%100
49	MP2C	X	0	0	0	%100
50	MP2C	Z	.627	.627	0	%100
51	MP3C	X	0	0	0	%100
52	MP3C	Z	.518	.518	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	0	0	0	%100
54	MP4C	Z	.518	.518	0	%100
55	MP5C	X	0	0	0	%100
56	MP5C	Z	.518	.518	0	%100
57	MP1B	X	0	0	0	%100
58	MP1B	Z	.518	.518	0	%100
59	MP2B	X	0	0	0	%100
60	MP2B	Z	.627	.627	0	%100
61	MP3B	X	0	0	0	%100
62	MP3B	Z	.518	.518	0	%100
63	MP4B	X	0	0	0	%100
64	MP4B	Z	.518	.518	0	%100
65	MP5B	X	0	0	0	%100
66	MP5B	Z	.518	.518	0	%100
67	OVP2	X	0	0	0	%100
68	OVP2	Z	.472	.472	0	%100
69	LR1	X	0	0	0	%100
70	LR1	Z	.518	.518	0	%100
71	M62	X	0	0	0	%100
72	M62	Z	1.504	1.504	0	%100
73	M63	X	0	0	0	%100
74	M63	Z	1.154	1.154	0	%100
75	M64	X	0	0	0	%100
76	M64	Z	1.154	1.154	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	.627	.627	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	.157	.157	0	%100
81	M82	X	0	0	0	%100
82	M82	Z	.157	.157	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	.231	.231	0	%100
85	M88	X	0	0	0	%100
86	M88	Z	.231	.231	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	.926	.926	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.325	-.325	0	%100
2	M1	Z	.563	.563	0	%100
3	M2	X	-.347	-.347	0	%100
4	M2	Z	.6	.6	0	%100
5	M4	X	-.081	-.081	0	%100
6	M4	Z	.141	.141	0	%100
7	M5	X	-.087	-.087	0	%100
8	M5	Z	.15	.15	0	%100
9	LV	X	-.303	-.303	0	%100
10	LV	Z	.525	.525	0	%100
11	M7	X	-.081	-.081	0	%100
12	M7	Z	.141	.141	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M8	X	-.087	-.087	0	%100
14	M8	Z	.15	.15	0	%100
15	M9	X	-.303	-.303	0	%100
16	M9	Z	.525	.525	0	%100
17	M11	X	0	0	0	%100
18	M11	Z	0	0	0	%100
19	M15	X	-.016	-.016	0	%100
20	M15	Z	.028	.028	0	%100
21	M16	X	-.471	-.471	0	%100
22	M16	Z	.815	.815	0	%100
23	M18	X	-.471	-.471	0	%100
24	M18	Z	.815	.815	0	%100
25	M19	X	-.016	-.016	0	%100
26	M19	Z	.028	.028	0	%100
27	M21	X	-.313	-.313	0	%100
28	M21	Z	.542	.542	0	%100
29	M22	X	-.313	-.313	0	%100
30	M22	Z	.542	.542	0	%100
31	M23	X	-.202	-.202	0	%100
32	M23	Z	.35	.35	0	%100
33	M24	X	0	0	0	%100
34	M24	Z	0	0	0	%100
35	M25	X	-.202	-.202	0	%100
36	M25	Z	.35	.35	0	%100
37	MP1A	X	-.259	-.259	0	%100
38	MP1A	Z	.449	.449	0	%100
39	MP2A	X	-.313	-.313	0	%100
40	MP2A	Z	.543	.543	0	%100
41	MP3A	X	-.259	-.259	0	%100
42	MP3A	Z	.449	.449	0	%100
43	MP4A	X	-.259	-.259	0	%100
44	MP4A	Z	.449	.449	0	%100
45	MP5A	X	-.259	-.259	0	%100
46	MP5A	Z	.449	.449	0	%100
47	MP1C	X	-.259	-.259	0	%100
48	MP1C	Z	.449	.449	0	%100
49	MP2C	X	-.313	-.313	0	%100
50	MP2C	Z	.543	.543	0	%100
51	MP3C	X	-.259	-.259	0	%100
52	MP3C	Z	.449	.449	0	%100
53	MP4C	X	-.259	-.259	0	%100
54	MP4C	Z	.449	.449	0	%100
55	MP5C	X	-.259	-.259	0	%100
56	MP5C	Z	.449	.449	0	%100
57	MP1B	X	-.259	-.259	0	%100
58	MP1B	Z	.449	.449	0	%100
59	MP2B	X	-.313	-.313	0	%100
60	MP2B	Z	.543	.543	0	%100
61	MP3B	X	-.259	-.259	0	%100
62	MP3B	Z	.449	.449	0	%100
63	MP4B	X	-.259	-.259	0	%100
64	MP4B	Z	.449	.449	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
65	MP5B	X	-.259	-.259	0	% 100
66	MP5B	Z	.449	.449	0	% 100
67	OVP2	X	-.236	-.236	0	% 100
68	OVP2	Z	.409	.409	0	% 100
69	LR1	X	-.259	-.259	0	% 100
70	LR1	Z	.449	.449	0	% 100
71	M62	X	-.694	-.694	0	% 100
72	M62	Z	1.202	1.202	0	% 100
73	M63	X	-.694	-.694	0	% 100
74	M63	Z	1.202	1.202	0	% 100
75	M64	X	-.519	-.519	0	% 100
76	M64	Z	.898	.898	0	% 100
77	M70	X	-.235	-.235	0	% 100
78	M70	Z	.407	.407	0	% 100
79	M76	X	-.235	-.235	0	% 100
80	M76	Z	.407	.407	0	% 100
81	M82	X	0	0	0	% 100
82	M82	Z	0	0	0	% 100
83	M85	X	-.347	-.347	0	% 100
84	M85	Z	.601	.601	0	% 100
85	M88	X	0	0	0	% 100
86	M88	Z	0	0	0	% 100
87	M91	X	-.347	-.347	0	% 100
88	M91	Z	.601	.601	0	% 100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.422	-.422	0	% 100
2	M1	Z	.244	.244	0	% 100
3	M2	X	-.45	-.45	0	% 100
4	M2	Z	.26	.26	0	% 100
5	M4	X	-.422	-.422	0	% 100
6	M4	Z	.244	.244	0	% 100
7	M5	X	-.45	-.45	0	% 100
8	M5	Z	.26	.26	0	% 100
9	LV	X	-.175	-.175	0	% 100
10	LV	Z	.101	.101	0	% 100
11	M7	X	0	0	0	% 100
12	M7	Z	0	0	0	% 100
13	M8	X	0	0	0	% 100
14	M8	Z	0	0	0	% 100
15	M9	X	-.7	-.7	0	% 100
16	M9	Z	.404	.404	0	% 100
17	M11	X	-.175	-.175	0	% 100
18	M11	Z	.101	.101	0	% 100
19	M15	X	-.108	-.108	0	% 100
20	M15	Z	.062	.062	0	% 100
21	M16	X	-.895	-.895	0	% 100
22	M16	Z	.517	.517	0	% 100
23	M18	X	-.381	-.381	0	% 100
24	M18	Z	.22	.22	0	% 100



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

Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M19	X	-.381	-.381	0 %100
26	M19	Z	.22	.22	0 %100
27	M21	X	-.895	-.895	0 %100
28	M21	Z	.517	.517	0 %100
29	M22	X	-.108	-.108	0 %100
30	M22	Z	.062	.062	0 %100
31	M23	X	-.467	-.467	0 %100
32	M23	Z	.27	.27	0 %100
33	M24	X	-.117	-.117	0 %100
34	M24	Z	.067	.067	0 %100
35	M25	X	-.117	-.117	0 %100
36	M25	Z	.067	.067	0 %100
37	MP1A	X	-.449	-.449	0 %100
38	MP1A	Z	.259	.259	0 %100
39	MP2A	X	-.543	-.543	0 %100
40	MP2A	Z	.313	.313	0 %100
41	MP3A	X	-.449	-.449	0 %100
42	MP3A	Z	.259	.259	0 %100
43	MP4A	X	-.449	-.449	0 %100
44	MP4A	Z	.259	.259	0 %100
45	MP5A	X	-.449	-.449	0 %100
46	MP5A	Z	.259	.259	0 %100
47	MP1C	X	-.449	-.449	0 %100
48	MP1C	Z	.259	.259	0 %100
49	MP2C	X	-.543	-.543	0 %100
50	MP2C	Z	.313	.313	0 %100
51	MP3C	X	-.449	-.449	0 %100
52	MP3C	Z	.259	.259	0 %100
53	MP4C	X	-.449	-.449	0 %100
54	MP4C	Z	.259	.259	0 %100
55	MP5C	X	-.449	-.449	0 %100
56	MP5C	Z	.259	.259	0 %100
57	MP1B	X	-.449	-.449	0 %100
58	MP1B	Z	.259	.259	0 %100
59	MP2B	X	-.543	-.543	0 %100
60	MP2B	Z	.313	.313	0 %100
61	MP3B	X	-.449	-.449	0 %100
62	MP3B	Z	.259	.259	0 %100
63	MP4B	X	-.449	-.449	0 %100
64	MP4B	Z	.259	.259	0 %100
65	MP5B	X	-.449	-.449	0 %100
66	MP5B	Z	.259	.259	0 %100
67	OVP2	X	-.409	-.409	0 %100
68	OVP2	Z	.236	.236	0 %100
69	LR1	X	-.449	-.449	0 %100
70	LR1	Z	.259	.259	0 %100
71	M62	X	-.999	-.999	0 %100
72	M62	Z	.577	.577	0 %100
73	M63	X	-1.303	-1.303	0 %100
74	M63	Z	.752	.752	0 %100
75	M64	X	-.999	-.999	0 %100
76	M64	Z	.577	.577	0 %100





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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft,%)	End Location(ft,%)
77	M70	X	-.136	-.136	0	%100
78	M70	Z	.078	.078	0	%100
79	M76	X	-.543	-.543	0	%100
80	M76	Z	.313	.313	0	%100
81	M82	X	-.136	-.136	0	%100
82	M82	Z	.078	.078	0	%100
83	M85	X	-.802	-.802	0	%100
84	M85	Z	.463	.463	0	%100
85	M88	X	-.2	-.2	0	%100
86	M88	Z	.116	.116	0	%100
87	M91	X	-.2	-.2	0	%100
88	M91	Z	.116	.116	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft,%)	End Location(ft,%)
1	M1	X	-.163	-.163	0	%100
2	M1	Z	0	0	0	%100
3	M2	X	-.173	-.173	0	%100
4	M2	Z	0	0	0	%100
5	M4	X	-.65	-.65	0	%100
6	M4	Z	0	0	0	%100
7	M5	X	-.693	-.693	0	%100
8	M5	Z	0	0	0	%100
9	LV	X	0	0	0	%100
10	LV	Z	0	0	0	%100
11	M7	X	-.163	-.163	0	%100
12	M7	Z	0	0	0	%100
13	M8	X	-.173	-.173	0	%100
14	M8	Z	0	0	0	%100
15	M9	X	-.606	-.606	0	%100
16	M9	Z	0	0	0	%100
17	M11	X	-.606	-.606	0	%100
18	M11	Z	0	0	0	%100
19	M15	X	-.626	-.626	0	%100
20	M15	Z	0	0	0	%100
21	M16	X	-.626	-.626	0	%100
22	M16	Z	0	0	0	%100
23	M18	X	-.032	-.032	0	%100
24	M18	Z	0	0	0	%100
25	M19	X	-.941	-.941	0	%100
26	M19	Z	0	0	0	%100
27	M21	X	-.941	-.941	0	%100
28	M21	Z	0	0	0	%100
29	M22	X	-.032	-.032	0	%100
30	M22	Z	0	0	0	%100
31	M23	X	-.405	-.405	0	%100
32	M23	Z	0	0	0	%100
33	M24	X	-.405	-.405	0	%100
34	M24	Z	0	0	0	%100
35	M25	X	0	0	0	%100
36	M25	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,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
37	MP1A	X	-518	-518	0	%100
38	MP1A	Z	0	0	0	%100
39	MP2A	X	-627	-627	0	%100
40	MP2A	Z	0	0	0	%100
41	MP3A	X	-518	-518	0	%100
42	MP3A	Z	0	0	0	%100
43	MP4A	X	-518	-518	0	%100
44	MP4A	Z	0	0	0	%100
45	MP5A	X	-518	-518	0	%100
46	MP5A	Z	0	0	0	%100
47	MP1C	X	-518	-518	0	%100
48	MP1C	Z	0	0	0	%100
49	MP2C	X	-627	-627	0	%100
50	MP2C	Z	0	0	0	%100
51	MP3C	X	-518	-518	0	%100
52	MP3C	Z	0	0	0	%100
53	MP4C	X	-518	-518	0	%100
54	MP4C	Z	0	0	0	%100
55	MP5C	X	-518	-518	0	%100
56	MP5C	Z	0	0	0	%100
57	MP1B	X	-518	-518	0	%100
58	MP1B	Z	0	0	0	%100
59	MP2B	X	-627	-627	0	%100
60	MP2B	Z	0	0	0	%100
61	MP3B	X	-518	-518	0	%100
62	MP3B	Z	0	0	0	%100
63	MP4B	X	-518	-518	0	%100
64	MP4B	Z	0	0	0	%100
65	MP5B	X	-518	-518	0	%100
66	MP5B	Z	0	0	0	%100
67	OVP2	X	-472	-472	0	%100
68	OVP2	Z	0	0	0	%100
69	LR1	X	-518	-518	0	%100
70	LR1	Z	0	0	0	%100
71	M62	X	-1.037	-1.037	0	%100
72	M62	Z	0	0	0	%100
73	M63	X	-1.388	-1.388	0	%100
74	M63	Z	0	0	0	%100
75	M64	X	-1.388	-1.388	0	%100
76	M64	Z	0	0	0	%100
77	M70	X	0	0	0	%100
78	M70	Z	0	0	0	%100
79	M76	X	-47	-47	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	-47	-47	0	%100
82	M82	Z	0	0	0	%100
83	M85	X	-694	-694	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	-694	-694	0	%100
86	M88	Z	0	0	0	%100
87	M91	X	0	0	0	%100
88	M91	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M1	X	0	0	0	% 100
2	M1	Z	0	0	0	% 100
3	M2	X	0	0	0	% 100
4	M2	Z	0	0	0	% 100
5	M4	X	-.422	-.422	0	% 100
6	M4	Z	-.244	-.244	0	% 100
7	M5	X	-.45	-.45	0	% 100
8	M5	Z	-.26	-.26	0	% 100
9	LV	X	-.175	-.175	0	% 100
10	LV	Z	-.101	-.101	0	% 100
11	M7	X	-.422	-.422	0	% 100
12	M7	Z	-.244	-.244	0	% 100
13	M8	X	-.45	-.45	0	% 100
14	M8	Z	-.26	-.26	0	% 100
15	M9	X	-.175	-.175	0	% 100
16	M9	Z	-.101	-.101	0	% 100
17	M11	X	-.7	-.7	0	% 100
18	M11	Z	-.404	-.404	0	% 100
19	M15	X	-.895	-.895	0	% 100
20	M15	Z	-.517	-.517	0	% 100
21	M16	X	-.108	-.108	0	% 100
22	M16	Z	-.062	-.062	0	% 100
23	M18	X	-.108	-.108	0	% 100
24	M18	Z	-.062	-.062	0	% 100
25	M19	X	-.895	-.895	0	% 100
26	M19	Z	-.517	-.517	0	% 100
27	M21	X	-.381	-.381	0	% 100
28	M21	Z	-.22	-.22	0	% 100
29	M22	X	-.381	-.381	0	% 100
30	M22	Z	-.22	-.22	0	% 100
31	M23	X	-.117	-.117	0	% 100
32	M23	Z	-.067	-.067	0	% 100
33	M24	X	-.467	-.467	0	% 100
34	M24	Z	-.27	-.27	0	% 100
35	M25	X	-.117	-.117	0	% 100
36	M25	Z	-.067	-.067	0	% 100
37	MP1A	X	-.449	-.449	0	% 100
38	MP1A	Z	-.259	-.259	0	% 100
39	MP2A	X	-.543	-.543	0	% 100
40	MP2A	Z	-.313	-.313	0	% 100
41	MP3A	X	-.449	-.449	0	% 100
42	MP3A	Z	-.259	-.259	0	% 100
43	MP4A	X	-.449	-.449	0	% 100
44	MP4A	Z	-.259	-.259	0	% 100
45	MP5A	X	-.449	-.449	0	% 100
46	MP5A	Z	-.259	-.259	0	% 100
47	MP1C	X	-.449	-.449	0	% 100
48	MP1C	Z	-.259	-.259	0	% 100
49	MP2C	X	-.543	-.543	0	% 100
50	MP2C	Z	-.313	-.313	0	% 100
51	MP3C	X	-.449	-.449	0	% 100
52	MP3C	Z	-.259	-.259	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
53	MP4C	X	-.449	-.449	0	%100
54	MP4C	Z	-.259	-.259	0	%100
55	MP5C	X	-.449	-.449	0	%100
56	MP5C	Z	-.259	-.259	0	%100
57	MP1B	X	-.449	-.449	0	%100
58	MP1B	Z	-.259	-.259	0	%100
59	MP2B	X	-.543	-.543	0	%100
60	MP2B	Z	-.313	-.313	0	%100
61	MP3B	X	-.449	-.449	0	%100
62	MP3B	Z	-.259	-.259	0	%100
63	MP4B	X	-.449	-.449	0	%100
64	MP4B	Z	-.259	-.259	0	%100
65	MP5B	X	-.449	-.449	0	%100
66	MP5B	Z	-.259	-.259	0	%100
67	OVP2	X	-.409	-.409	0	%100
68	OVP2	Z	-.236	-.236	0	%100
69	LR1	X	-.449	-.449	0	%100
70	LR1	Z	-.259	-.259	0	%100
71	M62	X	-.999	-.999	0	%100
72	M62	Z	-.577	-.577	0	%100
73	M63	X	-.999	-.999	0	%100
74	M63	Z	-.577	-.577	0	%100
75	M64	X	-1.303	-1.303	0	%100
76	M64	Z	-.752	-.752	0	%100
77	M70	X	-.136	-.136	0	%100
78	M70	Z	-.078	-.078	0	%100
79	M76	X	-.136	-.136	0	%100
80	M76	Z	-.078	-.078	0	%100
81	M82	X	-.543	-.543	0	%100
82	M82	Z	-.313	-.313	0	%100
83	M85	X	-.2	-.2	0	%100
84	M85	Z	-.116	-.116	0	%100
85	M88	X	-.802	-.802	0	%100
86	M88	Z	-.463	-.463	0	%100
87	M91	X	-.2	-.2	0	%100
88	M91	Z	-.116	-.116	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M1	X	-.081	-.081	0	%100
2	M1	Z	-.141	-.141	0	%100
3	M2	X	-.087	-.087	0	%100
4	M2	Z	-.15	-.15	0	%100
5	M4	X	-.081	-.081	0	%100
6	M4	Z	-.141	-.141	0	%100
7	M5	X	-.087	-.087	0	%100
8	M5	Z	-.15	-.15	0	%100
9	LV	X	-.303	-.303	0	%100
10	LV	Z	-.525	-.525	0	%100
11	M7	X	-.325	-.325	0	%100
12	M7	Z	-.563	-.563	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
13	M8	X	-.347	-.347	0	% 100
14	M8	Z	-.6	-.6	0	% 100
15	M9	X	0	0	0	% 100
16	M9	Z	0	0	0	% 100
17	M11	X	-.303	-.303	0	% 100
18	M11	Z	-.525	-.525	0	% 100
19	M15	X	-.471	-.471	0	% 100
20	M15	Z	-.815	-.815	0	% 100
21	M16	X	-.016	-.016	0	% 100
22	M16	Z	-.028	-.028	0	% 100
23	M18	X	-.313	-.313	0	% 100
24	M18	Z	-.542	-.542	0	% 100
25	M19	X	-.313	-.313	0	% 100
26	M19	Z	-.542	-.542	0	% 100
27	M21	X	-.016	-.016	0	% 100
28	M21	Z	-.028	-.028	0	% 100
29	M22	X	-.471	-.471	0	% 100
30	M22	Z	-.815	-.815	0	% 100
31	M23	X	0	0	0	% 100
32	M23	Z	0	0	0	% 100
33	M24	X	-.202	-.202	0	% 100
34	M24	Z	-.35	-.35	0	% 100
35	M25	X	-.202	-.202	0	% 100
36	M25	Z	-.35	-.35	0	% 100
37	MP1A	X	-.259	-.259	0	% 100
38	MP1A	Z	-.449	-.449	0	% 100
39	MP2A	X	-.313	-.313	0	% 100
40	MP2A	Z	-.543	-.543	0	% 100
41	MP3A	X	-.259	-.259	0	% 100
42	MP3A	Z	-.449	-.449	0	% 100
43	MP4A	X	-.259	-.259	0	% 100
44	MP4A	Z	-.449	-.449	0	% 100
45	MP5A	X	-.259	-.259	0	% 100
46	MP5A	Z	-.449	-.449	0	% 100
47	MP1C	X	-.259	-.259	0	% 100
48	MP1C	Z	-.449	-.449	0	% 100
49	MP2C	X	-.313	-.313	0	% 100
50	MP2C	Z	-.543	-.543	0	% 100
51	MP3C	X	-.259	-.259	0	% 100
52	MP3C	Z	-.449	-.449	0	% 100
53	MP4C	X	-.259	-.259	0	% 100
54	MP4C	Z	-.449	-.449	0	% 100
55	MP5C	X	-.259	-.259	0	% 100
56	MP5C	Z	-.449	-.449	0	% 100
57	MP1B	X	-.259	-.259	0	% 100
58	MP1B	Z	-.449	-.449	0	% 100
59	MP2B	X	-.313	-.313	0	% 100
60	MP2B	Z	-.543	-.543	0	% 100
61	MP3B	X	-.259	-.259	0	% 100
62	MP3B	Z	-.449	-.449	0	% 100
63	MP4B	X	-.259	-.259	0	% 100
64	MP4B	Z	-.449	-.449	0	% 100



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
65	MP5B	X	-.259	-.259	0	%100
66	MP5B	Z	-.449	-.449	0	%100
67	OVP2	X	-.236	-.236	0	%100
68	OVP2	Z	-.409	-.409	0	%100
69	LR1	X	-.259	-.259	0	%100
70	LR1	Z	-.449	-.449	0	%100
71	M62	X	-.694	-.694	0	%100
72	M62	Z	-1.202	-1.202	0	%100
73	M63	X	-.519	-.519	0	%100
74	M63	Z	-.898	-.898	0	%100
75	M64	X	-.694	-.694	0	%100
76	M64	Z	-1.202	-1.202	0	%100
77	M70	X	-.235	-.235	0	%100
78	M70	Z	-.407	-.407	0	%100
79	M76	X	0	0	0	%100
80	M76	Z	0	0	0	%100
81	M82	X	-.235	-.235	0	%100
82	M82	Z	-.407	-.407	0	%100
83	M85	X	0	0	0	%100
84	M85	Z	0	0	0	%100
85	M88	X	-.347	-.347	0	%100
86	M88	Z	-.601	-.601	0	%100
87	M91	X	-.347	-.347	0	%100
88	M91	Z	-.601	-.601	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M5	Y	-12.039	-12.039	1.366	2.908
2	LV	Y	-.181	-3.719	1.45	3.48
3	LV	Y	-3.719	-4.005	3.48	5.51
4	LV	Y	-4.005	-3.401	5.51	7.54
5	LV	Y	-3.401	-4.241	7.54	9.57
6	LV	Y	-4.241	-2.816	9.57	11.6
7	M15	Y	-1.121	-5.337	.6	1.8
8	M15	Y	-5.337	-9.553	1.8	3
9	M16	Y	.043	-4.792	.6	1.8
10	M16	Y	-4.792	-9.797	1.8	3
11	M8	Y	-12.03	-12.03	1.366	2.909
12	M9	Y	-.181	-3.719	1.45	3.48
13	M9	Y	-3.719	-4.005	3.48	5.51
14	M9	Y	-4.005	-3.401	5.51	7.54
15	M9	Y	-3.401	-4.241	7.54	9.57
16	M9	Y	-4.241	-2.817	9.57	11.6
17	M18	Y	-1.132	-5.337	.6	1.8
18	M18	Y	-5.337	-9.541	1.8	3
19	M19	Y	.043	-4.792	.6	1.8
20	M19	Y	-4.792	-9.797	1.8	3
21	M2	Y	-12.039	-12.039	1.366	2.908
22	M11	Y	-.181	-3.719	1.45	3.48
23	M11	Y	-3.719	-4.005	3.48	5.51
24	M11	Y	-4.005	-3.401	5.51	7.54



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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
25	M11	Y	-3.401	-4.241	7.54	9.57
26	M11	Y	-4.241	-2.816	9.57	11.6
27	M21	Y	-1.121	-5.337	.6	1.8
28	M21	Y	-5.337	-9.553	1.8	3
29	M22	Y	.043	-4.792	.6	1.8
30	M22	Y	-4.792	-9.797	1.8	3

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M5	Y	-23.464	-23.464	1.366	2.908
2	LV	Y	-5.489	-8.265	2.9	4.93
3	LV	Y	-8.265	-6.629	4.93	6.96
4	LV	Y	-6.629	-7.805	6.96	8.99
5	LV	Y	-7.805	-7.248	8.99	11.02
6	LV	Y	-7.248	-.353	11.02	13.05
7	M15	Y	.083	-9.339	.6	1.8
8	M15	Y	-9.339	-19.095	1.8	3
9	M16	Y	-2.185	-10.402	.6	1.8
10	M16	Y	-10.402	-18.618	1.8	3
11	M2	Y	-23.447	-23.447	1.366	2.909
12	M11	Y	-.353	-7.248	1.45	3.48
13	M11	Y	-7.248	-7.805	3.48	5.51
14	M11	Y	-7.805	-6.629	5.51	7.54
15	M11	Y	-6.629	-8.265	7.54	9.57
16	M11	Y	-8.265	-5.489	9.57	11.6
17	M21	Y	-2.185	-10.402	.6	1.8
18	M21	Y	-10.402	-18.618	1.8	3
19	M22	Y	.083	-9.339	.6	1.8
20	M22	Y	-9.339	-19.095	1.8	3
21	M8	Y	-23.464	-23.464	1.366	2.908
22	M9	Y	-5.489	-8.265	2.9	4.93
23	M9	Y	-8.265	-6.629	4.93	6.96
24	M9	Y	-6.629	-7.805	6.96	8.99
25	M9	Y	-7.805	-7.248	8.99	11.02
26	M9	Y	-7.248	-.353	11.02	13.05
27	M18	Y	.083	-9.339	.6	1.8
28	M18	Y	-9.339	-19.095	1.8	3
29	M19	Y	-2.185	-10.402	.6	1.8
30	M19	Y	-10.402	-18.618	1.8	3

**Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M5	Y	-.509	-.509	1.366	2.908
2	LV	Y	-.008	-.157	1.45	3.48
3	LV	Y	-.157	-.169	3.48	5.51
4	LV	Y	-.169	-.144	5.51	7.54
5	LV	Y	-.144	-.179	7.54	9.57
6	LV	Y	-.179	-.119	9.57	11.6
7	M15	Y	-.047	-.226	.6	1.8
8	M15	Y	-.226	-.404	1.8	3
9	M16	Y	.002	-.203	.6	1.8



Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000385010-VZW\_MT\_LO\_H

July 6, 2023  
 5:30 PM  
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**Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads) (Continued)**

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
10	M16	Y	-.203	-.415	1.8	3
11	M8	Y	-.509	-.509	1.366	2.909
12	M9	Y	-.008	-.157	1.45	3.48
13	M9	Y	-.157	-.169	3.48	5.51
14	M9	Y	-.169	-.144	5.51	7.54
15	M9	Y	-.144	-.179	7.54	9.57
16	M9	Y	-.179	-.119	9.57	11.6
17	M18	Y	-.048	-.226	.6	1.8
18	M18	Y	-.226	-.404	1.8	3
19	M19	Y	.002	-.203	.6	1.8
20	M19	Y	-.203	-.415	1.8	3
21	M2	Y	-.509	-.509	1.366	2.908
22	M11	Y	-.008	-.157	1.45	3.48
23	M11	Y	-.157	-.169	3.48	5.51
24	M11	Y	-.169	-.144	5.51	7.54
25	M11	Y	-.144	-.179	7.54	9.57
26	M11	Y	-.179	-.119	9.57	11.6
27	M21	Y	-.047	-.226	.6	1.8
28	M21	Y	-.226	-.404	1.8	3
29	M22	Y	.002	-.203	.6	1.8
30	M22	Y	-.203	-.415	1.8	3

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft, %]	End Location[ft, %]
1	M5	Z	-1.271	-1.271	1.366	2.908
2	LV	Z	-.019	-.393	1.45	3.48
3	LV	Z	-.393	-.423	3.48	5.51
4	LV	Z	-.423	-.359	5.51	7.54
5	LV	Z	-.359	-.448	7.54	9.57
6	LV	Z	-.448	-.297	9.57	11.6
7	M15	Z	-.118	-.563	.6	1.8
8	M15	Z	-.563	-1.009	1.8	3
9	M16	Z	.005	-.506	.6	1.8
10	M16	Z	-.506	-1.034	1.8	3
11	M8	Z	-1.27	-1.27	1.366	2.909
12	M9	Z	-.019	-.393	1.45	3.48
13	M9	Z	-.393	-.423	3.48	5.51
14	M9	Z	-.423	-.359	5.51	7.54
15	M9	Z	-.359	-.448	7.54	9.57
16	M9	Z	-.448	-.297	9.57	11.6
17	M18	Z	-.12	-.563	.6	1.8
18	M18	Z	-.563	-1.007	1.8	3
19	M19	Z	.005	-.506	.6	1.8
20	M19	Z	-.506	-1.034	1.8	3
21	M2	Z	-1.271	-1.271	1.366	2.908
22	M11	Z	-.019	-.393	1.45	3.48
23	M11	Z	-.393	-.423	3.48	5.51
24	M11	Z	-.423	-.359	5.51	7.54
25	M11	Z	-.359	-.448	7.54	9.57
26	M11	Z	-.448	-.297	9.57	11.6
27	M21	Z	-.118	-.563	.6	1.8





Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000385010-VZW\_MT\_LO\_H

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft, %]	End Location(ft, %]
28	M21	Z	-.563	-1.009	1.8	3
29	M22	Z	.005	-.506	6	1.8
30	M22	Z	-.506	-1.034	1.8	3

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location(ft, %]	End Location(ft, %]
1	M5	X	1.271	1.271	1.366	2.908
2	LV	X	.019	.393	1.45	3.48
3	LV	X	.393	.423	3.48	5.51
4	LV	X	.423	.359	5.51	7.54
5	LV	X	.359	.448	7.54	9.57
6	LV	X	.448	.297	9.57	11.6
7	M15	X	.118	.563	6	1.8
8	M15	X	.563	1.009	1.8	3
9	M16	X	-.005	.506	6	1.8
10	M16	X	.506	1.034	1.8	3
11	M8	X	1.27	1.27	1.366	2.909
12	M9	X	.019	.393	1.45	3.48
13	M9	X	.393	.423	3.48	5.51
14	M9	X	.423	.359	5.51	7.54
15	M9	X	.359	.448	7.54	9.57
16	M9	X	.448	.297	9.57	11.6
17	M18	X	.12	.563	6	1.8
18	M18	X	.563	1.007	1.8	3
19	M19	X	-.005	.506	6	1.8
20	M19	X	.506	1.034	1.8	3
21	M2	X	1.271	1.271	1.366	2.908
22	M11	X	.019	.393	1.45	3.48
23	M11	X	.393	.423	3.48	5.51
24	M11	X	.423	.359	5.51	7.54
25	M11	X	.359	.448	7.54	9.57
26	M11	X	.448	.297	9.57	11.6
27	M21	X	.118	.563	6	1.8
28	M21	X	.563	1.009	1.8	3
29	M22	X	-.005	.506	6	1.8
30	M22	X	.506	1.034	1.8	3

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N107	N113	N114	N108B	Y	Two Way	-.005
2	N115	N116	N110	N109A	Y	Two Way	-.005
3	N112	N111	N117	N118	Y	Two Way	-.005

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N107	N108B	N114	N113	Y	Two Way	-.01
2	N118	N112	N111	N117	Y	Two Way	-.01
3	N110	N116	N115	N109A	Y	Two Way	-.01



Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000385010-VZW\_MT\_LO\_H

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N107	N113	N114	N108B	Y	Two Way	-.00022
2	N115	N116	N110	N109A	Y	Two Way	-.00022
3	N112	N111	N117	N118	Y	Two Way	-.00022

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N107	N113	N114	N108B	Z	Two Way	-.000549
2	N115	N116	N110	N109A	Z	Two Way	-.000549
3	N112	N111	N117	N118	Z	Two Way	-.000549

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N107	N113	N114	N108B	X	Two Way	.000549
2	N115	N116	N110	N109A	X	Two Way	.000549
3	N112	N111	N117	N118	X	Two Way	.000549

**Envelope Joint Reactions**

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N35	max	1297.721	11	-96.133	1	1561.427	1	1.674	19	3.37	11	2.848	41
2		min	-1201.06	5	-2768.96	19	-3511.021	7	.145	1	-3.447	5	-1.184	11
3	N37	max	1037.532	9	-153.483	8	2421.85	1	1.786	12	4.236	7	.482	7
4		min	-2760.836	3	-2749.427	15	-1535.512	7	-1.698	6	-4.291	1	-2.245	13
5	N39	max	2921.03	10	-330.923	5	1842.043	12	.847	3	3.961	3	1.23	1
6		min	-1296.617	4	-2807.034	23	-791.838	6	-2.365	9	-4.045	9	-.443	7
7	N121	max	43.567	10	5440.17	19	2498.406	19	0	75	.001	44	0	44
8		min	-43.118	4	1333.509	1	677.258	1	0	1	0	2	0	2
9	N122	max	2137.489	15	5375.746	15	-353.794	9	0	7	.001	7	0	1
10		min	582.307	8	1388.189	8	-1234.419	15	0	1	0	1	0	7
11	N123	max	-659.792	5	5325.595	23	-361.328	4	0	9	0	3	0	9
12		min	-2117.554	23	1514.59	5	-1224.496	22	0	3	0	9	0	3
13	Totals:	max	4664.851	10	7816.056	16	5207.024	1						
14		min	-4664.813	4	2632.213	73	-5207.041	7						

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

Member	Shape	Code Check	Loc[ft]	LC	Shear	...	Loc[ft]	Dir	LC	phi*Pnc	...	phi*Pnt	[...phi*Mn y	...	phi*Mn z	...	Cb	Eqn
1	M1	HSS4X4X4	.534	.835	9	.264	2.167	y	9	104579....	106155	12.311	12.311	2...	H3-6			
2	M2	HSS4X4X4	.455	.982	9	.264	.982	y	9	102643....	106155	12.311	12.311	1...	H3-6			
3	M4	HSS4X4X4	.477	.835	5	.348	1.49	y	41	104579....	106155	12.311	12.311	2...	H3-6			
4	M5	HSS4X4X4	.475	.982	42	.348	.982	y	41	102643....	106155	12.311	12.311	1...	H3-6			
5	LV	PIPE 3.5	.417	7.25	12	.263	7.25		1	33421.6...	78750	7.954	7.954	1...	H1-1b			
6	M7	HSS4X4X4	.581	.835	1	.304	1.49	y	1	104579....	106155	12.311	12.311	2...	H3-6			
7	M8	HSS4X4X4	.479	.982	1	.276	.982	y	1	102643....	106155	12.311	12.311	1...	H3-6			
8	M9	PIPE 3.5	.437	7.25	8	.252	7.25		9	33421.6...	78750	7.954	7.954	1...	H1-1b			
9	M11	PIPE 3.5	.412	7.25	4	.239	7.25		5	33421.6...	78750	7.954	7.954	1...	H1-1b			
10	M15	L4X4X3	.300	0	8	.016	.5	z	8	21405.3...	47466	2.51	4.057	1...	H2-1			
11	M16	L4X4X3	.246	0	11	.014	.3	y	5	21405.3...	47466	1.993	4.057	1...	H2-1			
12	M18	L4X4X3	.257	0	4	.014	.5	z	4	21405.3...	47466	2.51	4.057	1...	H2-1			
13	M19	L4X4X3	.278	0	7	.016	.3	y	1	21405.3...	47466	1.993	4.057	1...	H2-1			



Company : Colliers Engineering & Design  
 Designer :  
 Job Number :  
 Model Name : 5000385010-VZW\_MT\_LO\_H

July 6, 2023  
 5:30 PM  
 Checked By: \_\_\_\_\_

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

Member	Shape	Code Check	Loc[ft]	LC Shear	Loc[ft]	Dir	LC	phi*Pnc	phi*Pnt	phi*Mn y	phi*Mn z	Cb	Eqn		
14	M21	L4X4X3	.274	0	1	.016	3	z	1	21405.3...	47466	2.51	4.057	1...	H2-1
15	M22	L4X4X3	.277	0	2	.016	3	y	8	21405.3...	47466	1.993	4.057	1...	H2-1
16	M23	L2x2x2	.024	.794	9	.032	0	z	42	12145.8...	15908.4	.403	.835	1...	H2-1
17	M24	L2x2x2	.023	.794	5	.040	0	z	38	12145.8...	15908.4	.403	.835	1...	H2-1
18	M25	L2x2x2	.024	.794	1	.032	1.588	z	22	12145.8...	15908.4	.403	.835	1...	H2-1
19	MP1A	PIPE 2.0	.223	4	49	.084	1.063	8	20866.7...	32130	1.872	1.872	2...	H1-1b	
20	MP2A	PIPE 2.5	.330	4	12	.109	1	7	37773.8...	50715	3.596	3.596	2...	H1-1b	
21	MP3A	PIPE 2.0	.622	4.302	1	.099	4.302	12	17855.0...	32130	1.872	1.872	2...	H1-1b	
22	MP4A	PIPE 2.0	.290	4	14	.067	4	6	20866.7...	32130	1.872	1.872	2...	H1-1b	
23	MP5A	PIPE 2.0	.194	4.063	15	.066	1.063	11	20866.7...	32130	1.872	1.872	2...	H1-1b	
24	MP1C	PIPE 2.0	.178	4	19	.072	1.063	3	20866.7...	32130	1.872	1.872	1...	H1-1b	
25	MP2C	PIPE 2.5	.348	4	8	.093	4	3	37773.8...	50715	3.596	3.596	1...	H1-1b	
26	MP3C	PIPE 2.0	.592	4.302	8	.112	4.302	7	17855.0...	32130	1.872	1.872	2...	H1-1b	
27	MP4C	PIPE 2.0	.289	4	22	.068	4	2	20866.7...	32130	1.872	1.872	2...	H1-1b	
28	MP5C	PIPE 2.0	.204	4.063	24	.065	1.063	7	20866.7...	32130	1.872	1.872	2...	H1-1b	
29	MP1B	PIPE 2.0	.176	4	15	.074	1.063	11	20866.7...	32130	1.872	1.872	2...	H1-1b	
30	MP2B	PIPE 2.5	.333	4	4	.094	4	11	37773.8...	50715	3.596	3.596	2...	H1-1b	
31	MP3B	PIPE 2.0	.544	4.302	5	.112	4.302	3	17855.0...	32130	1.872	1.872	2...	H1-1b	
32	MP4B	PIPE 2.0	.288	4	18	.067	4	10	20866.7...	32130	1.872	1.872	2...	H1-1b	
33	MP5B	PIPE 2.0	.204	4.063	20	.063	4.063	5	20866.7...	32130	1.872	1.872	2...	H1-1b	
34	OVP2	PIPE 2.0	.137	3	6	.014	3	6	26521.4...	32130	1.872	1.872	1...	H1-1b	
35	LR1	PIPE 2.0	.281	5	12	.015	5	12	20866.7...	32130	1.872	1.872	1...	H1-1b	
36	M62	LL3x3x3x6	.129	0	19	.006	5.518	y	8	46259.7...	70632	6.362	3.751	1	H1-1b*
37	M63	LL3x3x3x6	.128	0	15	.006	0	z	7	46259.7...	70632	6.362	3.751	1	H1-1b*
38	M64	LL3x3x3x6	.127	0	23	.006	5.518	z	3	46259.7...	70632	6.362	3.751	1	H1-1b*
39	M70	PIPE 2.5	.191	7.25	23	.091	12.536	7	10819.5...	50715	3.596	3.596	1...	H1-1b	
40	M76	PIPE 2.5	.190	7.25	19	.084	3.021	8	10819.5...	50715	3.596	3.596	1...	H1-1b	
41	M82	PIPE 2.5	.190	7.099	19	.079	12.536	11	10819.5...	50715	3.596	3.596	1...	H1-1b	
42	M85	L3X3X4	.274	0	11	.104	0	z	42	32804.6...	46656	1.688	3.756	2...	H2-1
43	M88	L3X3X4	.300	0	7	.117	0	z	38	32804.6...	46656	1.688	3.756	2...	H2-1
44	M91	L3X3X4	.279	0	3	.093	0	z	22	32804.6...	46656	1.688	3.756	2...	H2-1

**VzW**  
**SMART Tool®**  
**Vendor**

Client:	Verizon Wireless	Date:	7/6/2023
Site Name:	BETHANY WEST CT		
MDG #:	5000385010		
Fuze ID #:	17123995	Page:	1

Version 1.01

**I. Mount-to-Tower Connection Check**

<u>Custom Orientation Required</u>	No
<u>Tower Connection Bolt Checks</u>	No
<u>Tower Connection Baseplate Checks</u>	No

<u>Tower Connection Weld Checks</u>	Yes
-------------------------------------	-----

Weld Shape:	Rectangle
Weld Stiffener Configuration:	None
Stiffener Notch Length, n (in):	
Weld Size (1/16 in):	4
W1 (in):	4
W2 (in):	4
Weld Total Length (in):	16.00
Z <sub>x</sub> (in <sup>3</sup> /in):	21.33
Z <sub>y</sub> (in <sup>3</sup> /in):	21.33
J <sub>p</sub> (in <sup>4</sup> /in):	85.33
c <sub>x</sub> (in)	2
c <sub>y</sub> (in)	2
Required combined strength (kip/in):	2.30
Weld Capacity (kip/in):	5.57
Weld Utilization:	41.3%

# **ATTACHMENT 4**

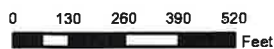
# Town of Beacon Falls, Connecticut - Assessment Parcel Map

Parcel: 017-002-0002

Address: 60 RICE LN



Approximate Scale: 1 inch = 450 feet



Map Produced June 2023

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

**Transfer of Ownership**

Owner: EDWARDS, NA  
 Consideration: 0  
 Transfer Date: 08/29/2002  
 Deed Type: 131  
 Deed Book/Page: 14 & 30

Neighborhood Number: 112  
 Deed Book/Page: 411

EDWARDS CHARLES  
 1/4 SOUTH MAIN STREET  
 WINTERSVILLE, NC 28078  
 Phone: 3411

Neighborhood Name: BEACON FALLS  
 District: 006  
 Parcel ID: 017-002-0002

**Valuation Record**

Assessment Year	2006	2007	2011	2016	2021
Reason for Change	2006 Reval	2007	2011 Reval	2016 Reval	2021 Reval
2021 Market	L 348520	348520	259360	202480	210140
	I 0	0	0	0	0
	T 348520	348520	259360	202480	210140
70% Assessed	L 78170	78170	48160	81070	89880
	I 0	0	0	0	0
	T 78170	78170	48160	81070	89880

Site Description:  
 Topography: High  
 Public Utilities: Sewer  
 Street or Road: Paved  
 Neighborhood: Residential  
 Zoning: R-1  
 Legal Acres: 9.7600



Land Type	Rating, Soil ID - or - Actual Frontage	Acres - or - Effective Frontage	Square Feet - or - Effective Depth	Influence Factor
Primary Commercial Res Excess Acres PA490 Forest		0.5200 49.2400 49.2400		U 100%

01

Special Features

Description

Summary of Improvements


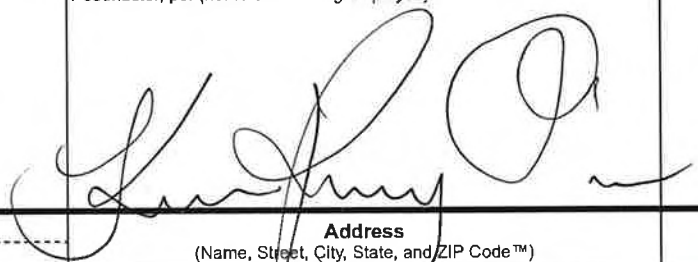
ID	USE	Story Height	Const Type	Grade	Year Cons	Eff Year	Cond	Size or Area
01	TOWERMON	0.00		AVG	2011	2011	AV	16



# **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  <p style="text-align: center; font-size: 2em;">3</p>	TOTAL NO. of Pieces Received at Post Office™  <p style="text-align: center; font-size: 2em;">3</p>	Affix Stamp Here Postmark with Date of Receipt.  <div style="text-align: right;">                     neopost<sup>SM</sup>                      08/30/2023  <b>US POSTAGE \$003.19<sup>0</sup></b>                        ZIP 06103                      041L12203937                 </div>			
	Postmaster, per (name of receiving employee)  					
USPS® Tracking Number Firm-specific Identifier	Address (Name, Street, City, State, and ZIP Code™)		Postage	Fee	Special Handling	Parcel Airlift
1.	Gerard Smith, First Selectman Town of Beacon Falls 10 Maple Avenue Beacon Falls, CT 06403					
2.	Keith Rosenfeld, Town Planner Town of Beacon Falls 10 Maple Avenue Beacon Falls, CT 06403					
3.	Charles Edwards 104 South Main Street Huntersville, NC 28078					
4.						
5.						
6.						

