## Robinson+Cole

KENNETH C. BALDWIN

280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

Also admitted in Massachusetts and New York

August 7, 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 940 Waterbury Road, Waterbury, 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. Cellco's facility was approved by the Siting Council ("Council") in October of 2008 (EM-VER-151-080922). A copy of the Council's exempt modification approval is included in <u>Attachment 1</u>.

Cellco's proposed modification involves the installation of two (2) interference mitigation filters ("Filters") on Cellco's existing antenna platform and mounting assembly. The filter specification sheet is included in <u>Attachment 2</u>.

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 Waterbury's 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 modifications will not result in an increase in the height of the existing tower. The Filters will be installed on Cellco's existing antenna platform and mounting assembly.

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Melanie A. Bachman, Esq. August 7, 2023 Page 2

- 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 <u>Attachment 4</u>. A Certificate of Mailing verifying that this filing was sent to municipal officials and the property owner is included in <u>Attachment 5</u>.

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:

Neil O'Leary, Mayor Robert Nerney, City Planner Pine Group Cemetery Association, Property Owner Kamoya Bautista, Verizon Wireless

## **ATTACHMENT 1**



### STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051
Phone: (860) 827-2935 Fax: (860) 827-2950
E-Mail: siting.council@ct.gov
Internet: ct.gov/csc

October 21, 2008

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

RE:

EM-VER-151-080922 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 940 Meriden Road, Waterbury, Connecticut.

Dear Attorney Baldwin:

The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated September 22, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Derek Phelps

**Executive Director** 

SDP/MP/cm

c: The Honorable Michael J. Jarjura, Mayor, City of Waterbury Gil Grabeline, Zoning Enforcement Officer, City of Waterbury Carrie L. Larson, Pullman & Comley, LLC

## **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 SPECIFICAT		
BAND NAME	700 PATH / 850 UPLINK PATH	850 BOWNLINK 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 @	9894.1 - 896.5MHz
ELECTRICAL		
Impedance		Ohms
Intermodulation products	-160dBc maximum in UL Band (assumin -153dBc maximu	ng 20MHz Signal), with 2 x 43dBm carriers um with 2 x 43dBm
DC / AISG		
Passband	0 - 1	13MHz
Insertion loss	0.3dB	maximum
Return loss	15dB i	minimum
Input voltage range	±	33V
DC current rating	2A continu	ous. 4A peak
Compliance	3GPP T	TS 25,461
ENVIRONMENTAL		
For further details of environmental co		
Temperature range	-20°C to +60°C	-4°F to +140°F
Ingress protection	IF	P67
Altitude		n  8530ft
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit	must be terminated with some lightning protection circuits
MTBF	>1,000.	000 hours
Compliance	ETSI EN 300 019 class 4.1H	I, RoHS, NEBS GR-487-CORE
MECHANICAL		
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, li	ght grey (RAL7035)

RF: 4.3-10 (F) x 4

Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering

information.

Connectors

Mounting

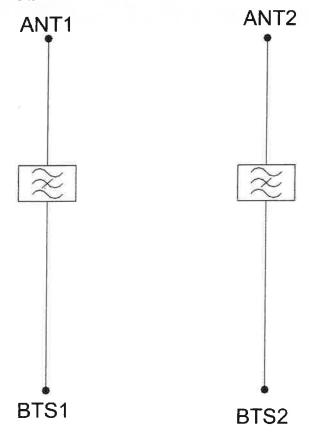


### ORDERING INFORMATION

ONDER MINE COMME			ÉGNNECTORS
PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	EURINEC FORG
BSF0020F3V1	TWIN, 2 in / 2 out	DC/AIGG PASS NO BRACKET	4 3-10 (F)
D0F0000F3V4 4	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-1	QUAD, 4 in / 4 out	DC/AISG PASS	4.3-10 (F)
BSF0020F3V1-2	QUAD, 4 III TOUL		

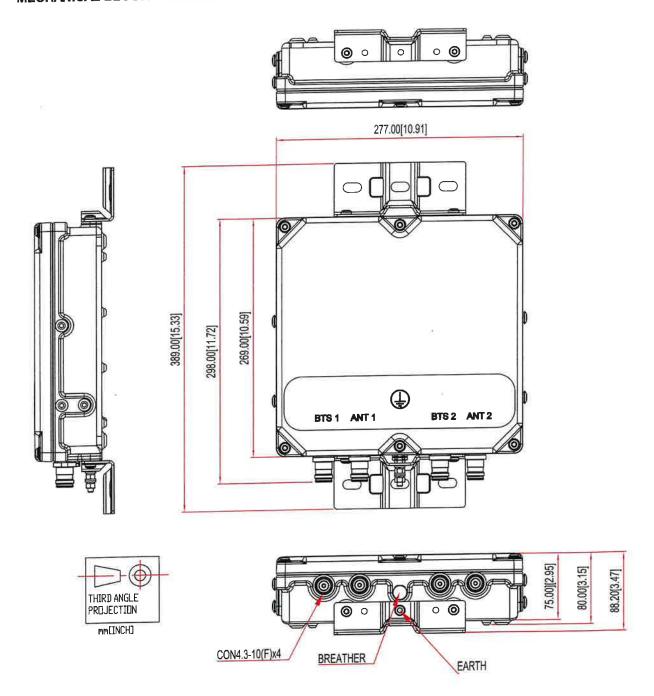


#### **ELECTRICAL BLOCK DIAGRAM**





#### MECHANICAL BLOCK DIAGRAM



# **ATTACHMENT 3**

SBA Communications Corporation 8051 Congress Avenue Boca Raton, FL 33487-1307

T + 561 995 7670 F + 561 995 7626

sbasite.com



## Structural Analysis Report

**Client: Verizon** 

Client Site ID / Name: 5000382125 / Waterbury East CT Application #: 229460, v2

SBA Site ID / Name: CT13070-A-01 / Waterbury 4, CT

135 ft Monopole

940 Meriden Road Waterbury, Connecticut 06705 Lat: 41.553278, Long: -72.993361

Project number: CT13070-VZW-061523

#### **Analysis Results**

Tower	82.2%	Pass
Foundation	82.0%	Pass

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

Prepared by:

Jaffar Alqazzaz

July 7, 2023



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#### Introduction

The purpose of this report is to summarize the analysis results on the 135 ft Monopole to support the proposed antennas and transmissions lines in addition to those currently installed.

Table 1 List of Documents Used

Item	Document	
Tower design/drawings	Sabre, Job # 07-03039, dated 3/14/2007	
Foundation drawings	Sabre, Job # 07-03039 dated 4/23/2007	
Geotechnical report	Gemini Geotechnical Associates, Site # 999-0096, dated 3/13/2007	
Mount Analysis	Maser Consulting, Project # 21777081A, dated 6/23/2021	
Modification drawings	TES. Job # 114884, dated 9/21/2021	
	FDH, Project # 01077E, dated 10/13/2009	
Latest SA	TES, Project # 114884, dated 9/21/2021	

### **Analysis Criteria**

Table 2 Code Related Data

Table 2 Code Related Data	
Jurisdiction (State/County/City)	Connecticut/New Haven/Waterbury
Governing Codes	ANSI/TIA/EIA 222-H, 2021 IBC
Ultimate Wind Speed (3-Sec gust)	117.0 mph
Wind Speed with Ice (3-Sec gust)	50 mph
Service Wind Speed (3-Sec gust)	60 mph
Ice Thickness	1.00"
Risk Category	11
Exposure Category	C
Topographic Category	1
Crest Height	0 ft
Ground Elevation	609.69 ft.
Seismic Parameter S <sub>s</sub>	0.194
Seismic Parameter S <sub>1</sub>	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.



## **Appurtenance Loading**

## **Existing Loading:**

Table 3 Existing Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1		3	TPA65R-BU8D - Panel			
2		3	AIR 6449 N77 - Panel	1		
3		3	Cci Antennas DMP65R-BU8DA-K - Panel			
4		3	RRUS 4478 B14	1		
5		3	Radio 4415 B30	1 ,		
6	129.0	3	4449 B5/B12	(3) Sector Frames	(2) 0.4" Fiber	
7	125.0	3	B2 B66A 8843	[SitePro1	(6) 1" DC	AT&T
8	520	3	DC9-48-60-24-8C-EV	VFA12-M3-WLL]		
9		1	DC6-48-60-18-8C-EV			
10		3	RRUS 4415 B25			
11		3	Ericsson AIR 6419 B77G - Panel			
12		3	Ericsson Radio 2012 B29	1		
13		3	1900 MHz RRH			
14		6	800 MHz RRH			
15		3	TD-RRH8x20-25	Low Profile Platform w/	(3) 1-1/4" Fiber	
16	118.0	3	Nokia - AAHC - Panel	Handrail [RMQP-4096-	(1) 1.689" Fiber	T-Mobile
17		3	Commscope - NNVV-65B-R4 - Panel	HK]	(2) 1/2"	Sprint
18		2	Andrew Microwaves - VHLP2.5-11 - Dish			
19		3	APX16DWV-16DWV-S-E-A20 - Panel			
20	Ī	3	RRUS 4415 B25			
21		3	4449 B71+ B85		(12) 1 5/8"	
22	99.0	4	Ericsson - Air 32 KRD901146- 1 B66A B2A - Panel	Low Profile Platform w/ Handrail [RMQP-4096-	(2) 1 5/8" Fiber	T-Mobile
23		3	KRY 112 489/2	HK]	(2) 1-1/4"	1 WODIC
24		3	KRY 112 144/1		Hybrid	
25		3	AIR 6449 B41 - Panel		,	
26		3	RFS - APXVAARR24_43-U-NA20 - Panel			
-5		3	Antel - BXA-80063/4CF - Panel			
	Ì	9	Andrew - SBNHH-1D65B - Panel			
063		3	1900 MHz 4X45 RRH	Low Profile Platform + (3)	(18) 1 5/8"	
.UB	87.0	3	RRH2X60-PCS	Support Rails	(2) 1 5/8"	Verizon
	Ī	3	RRH2X60-700	[VZWSMART-PLK3]	Hybrid	
7 <b>8</b>		2	DB-T1-6Z-8AB-0Z			

Note: AT&T loading includes FirstNET equipment



## **Proposed Loading:**

Information pertaining to proposed antennas and transmission lines were based upon the Application #: 229460, v2 from Verizon and is listed in Table 4.

Table 4 Proposed Appurtenances

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
27		3	Antel BXA-171063-12CF-EDIN-X - Panel	Laur Dan Sta Diatform (1/2)		
28		6	JMA MX06FR0660-03 - Panel	Low Profile Platform + (3) Support Rails		
29		3	Samsung MT6407-77A - Panel	[VZWSMART-PLK3] + (3)	(18) 1-5/8"	
30	87.0	3	Samsung B2/B66A RRH-BR049 (RFV01U-D1A)	Crossover Plate	(2) 1-5/8"	Verizon
31		3	Samsung B5/B13 RRH-BR04C (RFV01U-D2A)	[VZWSMART-MSK2] +	Hybrid	
32		1	Raycap RVZDC-6627-PF-48	(12) [VZWSMART-MSK1]		
33		4	Kaelus BSF0020F3V1-1			



#### **Analysis Results**

#### **Tower**

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

Table 5 Tower Analysis Summary

	Pole shafts	Anchor Bolts	Base Plate	Flange Plate
Max. Usage:	82.3%	66.8%	51.4%	41.5%
Pass/Fail	Pass	Pass	Pass	Pass

#### **Foundation**

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

Table 6 Foundation Analysis Summary

Structural Component	Max Usage (%)	Analysis Result
Foundation	82.0%	Pass



#### Conclusions

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

## Installation Requirements

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



#### **Assumptions and Limitations**

#### **Assumptions**

This analysis was completed based on the following assumptions:

- Tower and foundation were built in accordance to manufacturer specifications.
- Tower and foundation has been properly maintained in accordance with the manufacturer's specifications
- All existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion
- Welds and bolts are assumed able to carry their intended original design loads.
- The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Table 3 and 4.
- This analysis may be affected if any assumptions are not valid or have been made in error. SBA should be notified to determine the effect on the structural integrity of the tower.

#### Limitations

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

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



**Appendix** 



#### Usage Diagram - Max Ratio 82.32% at 0.0ft

Structure: CT13070-A-01

Code:

EIA/TIA-222-H

7/7/2023

Page: 1

Site Name: Waterbury 4, CT Height:

134.00 (ft)

Exposure: C Gh:

1.1

SBA 🗑

Dead Load Factor:

Base Elev: 1.000 (ft)

1.20

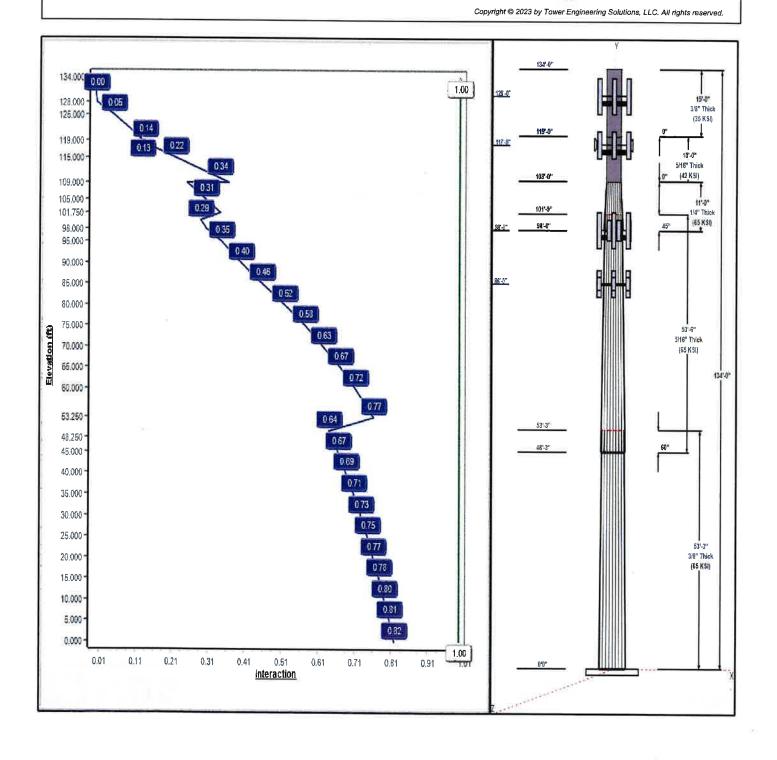
Wind Load Factor:

1.00

Load Case: 1.2D + 1.0W 117 mph Wind

Iterations:

25



## Structure: CT13070-A-01

Type: Custom

Base Shape: 18 Sided

Site Name: Waterbury 4, CT

**Taper:** 0.21408

7/7/2023

Height: 134.00 (ft)

Base Elev: 1.00 (ft)

SBA 🕥

Page: 2

			Shaft	Proper	ties			
	Length	Тор	Bottom	Thick	Joint		Grade	7
Seq	(ft)	(in)	(in)	(in)	Туре	Тарег	(ksi)	
1	53.25	37.99	49.39	0.375		0.21408	65	128'-0
2	53.50	28.23	39.69	0.313	Slip	0.21408	65	
3	11.00	27.18	29.53	0.250	Slip	0.21408	65	
4	10.00	26.00	26.00	0.312	Butt	0.00000	42	117:-0"
5	15.00	26.00	26.00	0.375	Butt	0.00000	35	7
		Dis	crete A	ppurte	nance	\$		
Attach	Force	Qty	Descri	ntion		Carrier		
134.00								
128.00			TPA65	-		AT&T		COL 00
128.00						AT&T		58'-0"
128.00						AT&T		
128.00				1478 B14		AT&T		
128.00				415 B30		AT&T		
128.00			_			AT&T		86:-0"
128.00				A 8843		AT&T		
128.00			DC9-48	-60-24-80	E-EV	AT&T		1
128.00			DC6-48	-60-18-8C	EV-	AT&T		
128.00				4415 B25		AT&T		
128.00	128.00	) 3		n AIR 641		AT&T		
128.00		) 3		n Radio 20	012 B29	AT&T		
128.00	128.00	) 1	(3) Site	Pro		AT&T		
117.00	117.00	) 3	3 1900 M	Hz RRH		T-Mobile Sprin		
117.00	117.00	) (	800 MF	Iz RRH		T-Mobile Sprin		
117.00	117.00	) 3		H8x20-25		T-Mobile Sprin		1
117.00	) 117.00	) 3	3 AAHC			T-Mobile Sprin		
117.00			3 NNVV-			T-Mobile Sprin		
117.00				form w/ Ha	andrail	T-Mobile Sprin		
117.00			VHLP2		MAN / C E	T-Mobile Sprin	ıı	
98.00				DWV-16D	WV-5-E-	T-Mobile		
98.00				4415 B25		T-Mobile		
98.00				71+ B85		T-Mobile		
98.00			4 Air 32	10 400/2		T-Mobile		
98.00				12 489/2 form w/ H:	ondrail	T-Mobile		- [
98.00					anuran	T-Mobile		
98.00				12 144/1 40 B41		T-Mobile		
98.00			3 AIR 64		3_H_NA20	T-Mobile		
98.00		-		ofile		Verizon		
86.00				OHIE		Verizon		
86.00				X06FR066	50-03	Verizon		
86.00				ng MT640		Verizon		
86.00				ng B2/B66		Verizon		
				ng B5/B13		Verizon		
86.00	ງ ວະເນ							
86.0				-		Verizon		1
	86.00	)	1 Raycar	-	Kit)	Verizon Verizon		

Elev	Elev	Placement	Description	Carrier
0.00	134.00		Safety Cable	
0.00	134.00	Outside	Step bolts (ladder)	

**Linear Appurtenances** 

#### Structure: CT13070-A-01

Type: Custom

Site Name: Waterbury 4, CT

Height: 134.00 (ft)

Base Elev: 1.00 (ft)

Base Shape: 18 Sided

**Taper:** 0.00000

7/7/2023

Page: 3



0.00	128.00	Inside	0.4" Fiber	AT&T
0.00	128.00	Inside	1" DC	AT&T
0.00	117.00	Inside	1-1/4" Fiber	Sprint Nextel
0.00	117.00	Inside	1.689" Fiber	Sprint Nextel
0.00	117.00	Inside	1/2" Coax	Sprint Nextel
0.00	98.00	Inside	1 5/8" Coax	T-Mobile
0.00	98.00	Inside	1 5/8" Fiber	T-Mobile
0.00	98.00	Inside	1-1/4" Hybrid	T-Mobile
0.00	86.00	Inside	1 5/8" Coax	Verizon
0.00	86.00	Inside	1 5/8" Hybrid	Verizon

### **Anchor Bolts**

		Grade	
Qty	Specifications	(ksi)	Arrangemen
12	2.25" 18J	75.0	Cluster

		Base Pla	ite	
Thickness (in)	Specifications (in)	Grade (ksi)	Geometry	
3.0000	53.3	60.0	Clipped	

Reactions										
Load Case	Moment (FT-Kips)	Shear (Kips)	Axial (Kips)							
1.2D + 1.0W 117 mph Wind	3250.4	33.0	47.3							
0.9D + 1.0W 117 mph Wind	3205.7	32.9	35.4							
1.2D + 1.0Di + 1.0Wi 50 mph Wind	869.5	8.8	66.4							
1.2D + 1.0Ev + 1.0Eh	82.0	0.7	49.0							
0.9D + 1.0Ev + 1.0Eh	81.0	0.7	37.1							
1.0D + 1.0W 60 mph Wind	758.9	7.8	39.4							

#### Structure: CT13070-A-01 - Coax Line Placement

Type: Monopole

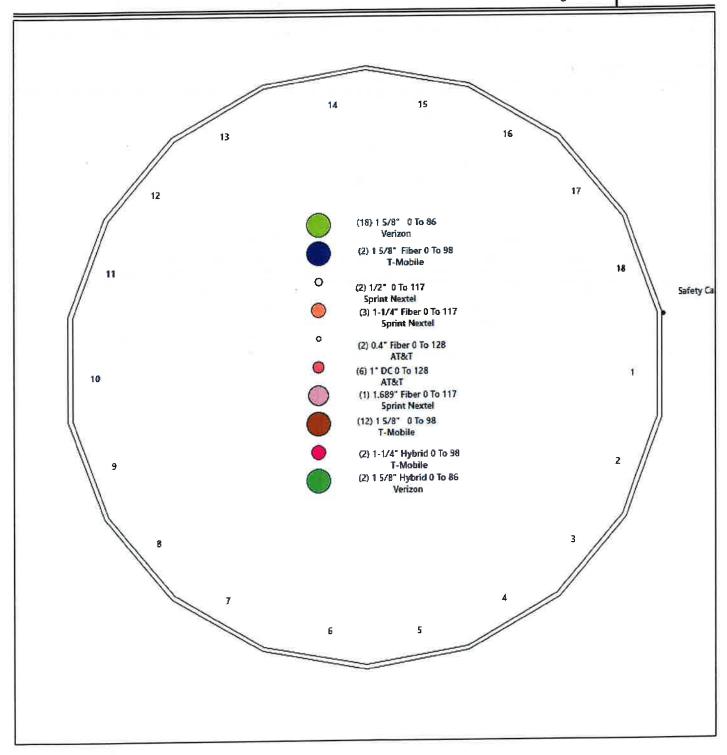
Site Name: Waterbury 4, CT

Height: 134.00 (ft)

7/7/2023

SBA D

Page: 4



#### **Shaft Properties**

Structure: CT13070-A-01

1.1

Code:

TIA-222-H

7/7/2023

Site Name: Waterbury 4, CT

Exposure:

С

Height:

Gh:

134.00 (ft)

Crest Height: 0.00

SBA

Base Elev: 1.000 (ft)

Topography: 1

Site Class:

D - Stiff Soil Struct Class: II

Page: 5

Sec. No.	Shape	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Overlap (in)	Weight (lb)
1	18	53.250	0.3750	65		0.00	9,341
2	18	53.500	0.3125	65	Slip	60.00	6,075
3	18	11.000	0.2500	65	Slip	45.00	835
4	R	10.000	0.3120	42	Flange	0.00	857
5	R	15.000	0.3750	35	Flange	0.00	1,541
					Total Sha	ft Weight:	18,649

			Bo	ottom									
Sec. No.	Dia (in)	Elev (ft)	Area (sqin)	lx (in^4)	W/t Ratio	D/t Ratio	Dia (in)	Elev (ft)	Area (sqin)	lx (in^4)	W/t Ratio	D/t Ratio	Taper
1	49.39	0.00	58.34	17707.72	21.81	131.71	37.99	53.25	44.77	8003.18	16.45	101.3	0.214083
2	39.69	48.25	39.05	7648.75	20.98	126.99	28.23	101.75	27.69	2727.23	14.52	90.34	0.214083
3	29.53	98.00	23.24	2517.77	19.42	118.14	27.18	109.00	21.37	1957.91	17.76	108.7	0.214083
4	26.00	109.0	25.18	2078.44	0.00	83.33	26.00	119.00	25.18	2078.44	0.00	83.33	0.000000
5	26.00	119.0	30.19	2479.79	0.00	69.33	26.00	134.00	30.19	2479.79	0.00	69.33	0.000000

#### **Load Summary**

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft)

Gh: 1.1 Code: TIA-222-H

С Exposure:

Crest Height: 0.00

D - Stiff Soil Site Class:

Struct Class: Topography: 1

7/7/2023

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#### Discrete Appurtenances

					No Ice			Ice			
No.	Elev (ft)	Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
1	134.00	Lightning rod	1	6.50	0.38	1.00	30.45	1.097	1.00	0.00	0.00
2		TPA65R-BU8D	3	145.00	17.87	0.72	602.72	19.050	0.72	0.00	0.00
3		AIR 6449 N77	3	101.60	4.13	0.85	186.27	4.680	0.85	0.00	0.00
4		Cci Antennas DMP65R-BU8DA-K	3	95.70	17.87	0.73	356.51	19.050	0.73	0.00	0.00
5		RRUS 4478 B14	3	59.40	1.65	0.67	86.63	1.990	0.67	0.00	0.00
6		Radio 4415 B30	3	46.00	1.86	0.67	82.20	2.216	0.67	0.00	0.00
7		4449 B5/B12	3	71.00	1.97	0.67	106.05	2.329	0.67	0.00	0.00
8		B2 B66A 8843	3	72.00	1.64	0.67	103.06	1.979	0.67	0.00	0.00
9		DC9-48-60-24-8C-EV	3	26.20	1.14	0.75	95.80	2.182	0.75	0.00	0.00
10		DC6-48-60-18-8C-EV	1	26.20	4.78	0.75	159.25	5.361	0.75	0.00	0.00
11		RRUS 4415 B25	3	46.00	1.64	0.67	72.99	1.978	0.67	0.00	0.00
12		Ericsson AIR 6419 B77G	3	44.00	4.17	0.83	116.46	4.724	0.85	0.00	0.00
13		Ericsson Radio 2012 B29	3	43.00	1.86	0.67	80.40	2.216	0.67	0.00	0.00
14		(3) SitePro VFA12-M3-WLL	1	2999.58	50.70	1.00	4924.69	92.536	1.00	0.00	0.00
15		1900 MHz RRH	3	60.00	2.77	0.67	114.30	3.596	0.67	0.00	0.00
16		800 MHz RRH	6	53,00	2.49	0.67	101.14	3.234	0.67	0.00	0.00
17		TD-RRH8x20-25	3	70.00	4.05	0.67	136.77	4.564	0.67	0.00	0.00
18	117.00		3	103.70	4.21	0.75	172.44	4.738	0.75	0.00	0.00
19		NNVV-65B-R4	3	84.70	12.27	0.74	288.09	13.218	0.74	0.00	0.00
20		LP Platform w/ Handrail	1	2448.72	46.00	1.00	4117.61	68.154	1.00	0.00	0.00
21		VHLP2.5-11	2	48.00	8.43	1.00	161.34	9.541	1.00	0.50	0.00
22		APX16DWV-16DWV-S-E-A20	3	40.70	6.46	0.62	121.22	7.155	0.62	0.00	0.00
23		RRUS 4415 B25	3	46.00	1.64	0.67	72.29	1.970	0.67	0.00	0.00
24		4449 B71+ B85	3	70.00	1.65	0.67	109.71	1.980	0.67	0.00	0.00
25		Air 32 KRD901146-1_B66A_B2A	4	132.20	6.51	0.87	242.44	7.266	0.87	0.00	0.00
26		KRY 112 489/2	3	15.40	0.65	0.67	26.67	1.042	0.67	0.00	0.00
27		LP Platform w/ Handrail	1	2449.00	46.00	1.00	4089.03	66.537	1.00	0.00	0.00
28		KRY 112 144/1	3	11.02	0.41	0.67	17.93	0.714	0.67	0.00	0.00
29		AIR 6449 B41	3	133.20	6.53	0.70	231.64	7.205	0.70	0.00	0.00
30		APXVAARR24_43-U-NA20	3	128.00	20.24	0.70	383.14	21.439	0.70	0.00	0.00
31		Low Profile Platform-Round	1	1500.00	22.00	1.00	2326.35	33.150	1.00	0.00	0.00
32		Antel BXA-171063-12CF-EDIN-X	3	15.00	4.79	0.88	82.81	5.533	0.89	0.00	0.00
33		JMA MX06FR0660-03	6	60.00	9.87	0.87	217.97	10.714	0.88	0.00	0.00
34		Samsung MT6407-77A	3	87.10	4.70	0.70	157.92	5.270	0.71	0.00	0.00
35		Samsung B2/B66A RRH-BR049	3	84.40	1.88	0.83	116.43	2.224	0.85	0.00	0.00
36		Samsung B5/B13 RRH-BR04C	3	70.30	1.88	0.77	100.66	2.224	0.79	0.00	0.00
37		Raycap RVZDC-6627-PF-48	1	32.00	4.06	1.00	103.93	4.579	1.00	0.00	0.00
38		HRK12 (Handrail Kit)	1	261.72	6.75	1.00	457.81	10.915	1.00	0.00	0.00
39		Kaelus BSF0020F3V1-1	4	17.60	0.96	0.65	32.35	1.211	0.69	0.00	0.00

Totals:

108 16,405.18 31,608.97

#### Linear Appurtenances

Bottom Elev. (ft)	Top Elev. (ft)	Description	Exposed Width	Exposed	
0.00	134.00	(1) Safety Cable	0.38	Outside	
0.00	134.00	• • • • • • • • • • • • • • • • • • • •	0.63	Outside	

## Discrete Appurtenances

					No Ice			Ice			
No. (ft)  0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		Description	Qty	Weight (lb)	CaAa (sf)	CaAa Factor	Weight (lb)	CaAa (sf)	CaAa Factor	Hor. Ecc. (ft)	Vert Ecc (ft)
0.00	128.00	(2) 0.4" Fiber		0	0.00	Inside					
0.00	128.00	(6) 1" DC		0	0.00	Inside					
0.00	117.00	(3) 1-1/4" Fiber		0	.00	Inside					
0.00	117.00	(1) 1.689" Fiber			.00	Inside					
0.00	117.00	(2) 1/2" Coax			.00	Inside					
0.00	98.00	(12) 1 5/8" Coax			.00	Inside					
0.00	98.00	(2) 1 5/8" Fiber			.00	Inside					
0.00	98.00	(2) 1-1/4" Hybrid			.00	Inside					
0.00	86.00	(18) 1 5/8" Coax			.00	Inside					
0.00	86.00	(2) 1 5/8" Hybrid			.00	Inside					

#### **Shaft Section Properties**

CT13070-A-01 Structure:

Site Name: Waterbury 4, CT

Topography: 1

Height:

134.00 (ft)

Base Elev: 1.000 (ft)

Gh: 1.1 Code:

TIA-222-H

Exposure: С

Crest Height: 0.00 D - Stiff Soil

Site Class:

Struct Class: ||

7/7/2023

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SBA

Increment Length: 5 (ft)

Elev		Thick	Dia (in)	Area (in^2)	lx (in^4)	W/t Ratio	D/t Ratio	Fpy (ksi)	S (in^3)	Weight (lb)
(ft)	Description	(in)	(in)	58.338	17707.7	21.81	131.71		706.2	0.0
0.00		0.3750	49.390	57.064	16572.7	21.31	128.85		675.5	981.7
5.00		0.3750	48.320	55.790	15487.3	20.81	126.00		645.6	960.0
10.00		0.3750	47.249		14450.4	20.30	123.14		616.3	938.4
15.00		0.3750	46.179	54.516	13460.8	19.80	120.29		587.8	916.7
20.00		0.3750	45.108			19.30	117.43		559.8	895.0
25.00		0.3750	44.038	51.968	12517.4		114.58		532.6	873.3
30.00		0.3750	42.968	50.694	11619.2	18.79 18.29	111.73		506.1	851.7
35.00		0.3750	41.897	49.420	10765.0				480.2	830.0
40.00		0.3750	40.827	48.146	9953.7	17.79	108.87		455.0	808.3
45.00		0.3750	39.756	46.872	9184.3	17.28	106.02			513.8
48.25	Bot - Section 2	0.3750	39.061	46.044	8706.0	16.96	104.16		439.0	504.3
50.00		0.3750	38.686	45.598	8455.5	16.78	103.16		430.5	923.6
53.25	Top - Section 1	0.3125	38.615	37.990	7041.7	20.38	123.57	0.0	0.0	225.1
55.00		0.3125	38.240	37.618	6837.1	20.17	122.37		352.2	631.0
60.00		0.3125	37.170	36.557	6274.4	19.56	118.94		332.5	
65.00		0.3125	36.100	35.495	5743.5	18.96	115.52		313.4	612.9
70.00		0.3125	35.029	34.433	5243.4	18.35	112.09		294.8	594.9
75.00		0.3125	33.959	33.372	4773.2	17.75	108.67		276.8	576.8
80.00		0.3125	32.888	32.310	4332.0	17.15	105.24		259.4	558.8
85.00		0.3125	31.818	31.248	3918.8	16.54	101.82		242.6	540.7
86.00		0.3125	31.604	31.036	3839.5	16.42	101.13	82.1		106.0
90.00		0.3125	30.748	30.187	3532.8	15.94	98.39		226.3	416.7
95.00		0.3125	29.677	29.125	3173.0	15.33	94.97		210.6	504.6
98.00	Bot - Section 3	0.3125	29.035	28.488	2969.3	14.97	92.91		201.4	294.1
00.00	But Cookers	0.3125	28.607	28.063	2838.5	14.73	91.54		195.4	349.4
01.75	Top - Section 2	0.2500	28.732	22.600	2316.3	18.85	114.93	0.0	0.0	301.5
05.00	10p - Geolion 2	0.2500	28.036	22.048	2150.7	18.36	112.15	79.8	151.1	246.9
09.00	Top - Section 3	0.2500	27.180	21.368	1957.9	17.76	108.72	80.5	141.9	295.5
09.00	Bot - Section 4	0.3120	26.000	25.179	2078.4	14.23	87.12	41.2	159.9	
10.00	Bot - Section 4	0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	85.7
		0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	428.4
115.00		0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	171.4
117.00	To Cooling 4	0.3120	26.000	25.179	2078.4	0.00	83.33	41.2	159.9	171.4
19.00	Top - Section 4	0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	
19.00	Bot - Section 5	0.3750	26.000	30.189	2479.8	0.00	69.33		190.8	102.7
20.00		0.3750	26.000	30.189	2479.8	0.00	69.33	35.0	190.8	513.6
25.00		0.3750	26.000	30.189	2479.8	0.00	69.33		190.8	308.2
28.00			26.000	30.189	2479.8	0.00	69.33		190.8	205.5
30.00		0.3750	26.000	30.189	2479.8	0.00	69.33		190.8	410.9
34.00		0.3750	∠0.000	30.108	2418.0	0.00	55.55	50.0	,,	18649.2

#### Wind Loading - Shaft

Structure: CT13070-A-01 Code: TIA-222-H 7/7/2023

Site Name: Waterbury 4, CT Exposure: С Height: 134.00 (ft) Crest Height: 0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Gh: 1.1 Topography: 1 Struct Class: II Page: 9

Load Case: 1.2D + 1.0W 117 mph Wind

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



**Iterations** 

25

SBA

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	lce Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	27.680	30.45	445.87	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	27.680	30.45	436.21	0.730	0.000	5.00	20.670	15.09	459.4	0.0	1178.1
10.00		1.00	0.85	27.680	30.45	426.54	0.730	0.000	5.00	20.217	14.76	449.4	0.0	1152.1
15.00		1.00	0.86	28.022	30.82	419.45	0.730	0.000	5.00	19.764	14.43	444.7	0.0	1126.0
20.00		1.00	0.91	29.673	32.64	421.62	0.730	0.000	5.00	19.312	14.10	460.1	0.0	1100.0
25.00		1.00	0.95	31.038	34.14	420.98	0.730	0.000	5.00	18.859	13.77	470.0	0.0	1074.0
30.00		1.00	0.99	32.209	35.43	418.42	0.730	0.000	5.00	18.406	13.44	476.0	0.0	1048.0
35.00		1.00	1.02	33.239	36.56	414.47	0.730	0.000	5.00	17.953	13.11	479.2	0.0	1022.0
40.00		1.00	1.05	34.161	37.58	409.45	0.730	0.000	5.00	17.500	12.77	480.1	0.0	996.0
45.00		1.00	1.07	34.999	38.50	403.57	0.730	0.000	5.00	17.047	12.44	479.1	0.0	970.0
	t - Section 2	1.00	1.09	35.506	39.06	399.37	0.730	0.000	3.25	10.838	7.91	309.0	0.0	616.5
50.00		1.00	1.10	35.768	39.34	396.99	0.730	0.000	1.75	5.849	4.27	168.0	0.0	605.2
	o - Section 1	1.00	1.11	36.236	39.86	392.40	0.730	0.000	3.25	10.715	7.82	311.8	0.0	1108.4
55.00		1.00	1.12	36.479	40.13	396.30	0.730	0.000	1.75	5.691	4.15	166.7	0.0	270.1
60.00		1.00	1.14	37.142	40.86	388.69	0.730	0.000	5.00	15.953	11.65	475.8	0.0	757.2
65.00		1.00	1.16	37.763	41.54	380.64	0.730	0.000	5.00	15.500	11.31	470.0	0.0	735.5
70.00		1.00	1.18	38.348	42.18	372.21	0.730	0.000	5.00	15.047	10.98	463.3	0.0	713.9
75.00		1.00	1.19	38.901	42.79	363.43	0.730	0.000		14.594	10.65	455.9	0.0	692.2
80.00		1.00	1.21	39.426	43.37	354.34	0.730	0.000	5.00	14.141	10.32	447.7	0.0	670.5
85.00		1.00	1.23	39.927	43.92	344.98	0.730	0.000	5.00	13.688	9.99	438.9	0.0	648.8
86.00 App	ourtenance(s)	1.00	1.23	40.024	44.03	343.07	0.730	0.000	1.00	2.683	1.96	86.2	0.0	127.2
90.00		1.00	1.24	40.405	44.45	335.36	0.730	0.000	4.00	10.552	7.70	342.4	0.0	500.0
95.00		1.00	1.25	40.862	44.95	325.51	0.730	0.000	5.00	12.783	9.33	419.4	0.0	605.5
98.00 Bot	- Section 3	1.00	1.26	41.128	45.24	319.50	0.730	0.000	3.00	7.452	5.44	246.1	0.0	352.9
100.00		1.00	1.27	41.301	45.43	315.45	0.730	0.000	2.00	4.962	3.62	164.6	0.0	419.3
101.75 Top	- Section 2	1.00	1.27	41.451	45.60	311.89	0.730	0.000	1.75	4.282	3.13	142.5	0.0	361.8
105.00		1.00	1.28	41.724	45.90	310.74	0.730	0.000	3.25	7.806	5.70	261.5	0.0	296.3
	o - Section 3	1.00	1.29	42.050	46.26	302.43	0.730	0.000	4.00	9.345	6.82	315.5	0.0	354.6
110.00		1.00	1.29	42.130	46.34	285.17	0.600	0.000	1.00	2.167	1.30	60.2	0.0	102.8
115.00		1.00	1.31	42.523	46.78	286.50	0.600	0.000	5.00	10.833	6.50	304.0	0.0	514.1
117.00 App	ourtenance(s)	1.00	1.31	42.676	46.94	287.01	0.600	0.000	2.00	4.333	2.60	122.1	0.0	205.6
	- Section 4	1.00	1.32	42.828	47.11	287.52	0.600	0.000	2.00	4.333	2.60	122.5	0.0	205.6
120.00		1.00	1.32	42.902	47.19	287.77	0.600	0.000	1.00	2.167	1.30	61.4	0.0	123.3
125.00		1.00	1.33	43.270	47.60	289.00	0.600	0.000		10.833	6.50	309.4	0.0	616.4
128.00 App	ourtenance(s)	1.00	1.34	43.485	47.83	289.72	0.600	0.000	3.00	6.500	3.90	186.5	0.0	369.8
130.00		1.00	1.34	43.626	47.99	290.19	0.600	0.000	2.00	4.333	2.60	124.8	0.0	246.5
134.00 App	ourtenance(s)	1.00	1.35	43.903	48.29	291.11	0.600	0.000	4.00	8.667	5.20	251.1	0.0	493.1
								Totals:	134.00		,	11,425.5	·o: 5=	22,379.0

#### Discrete Appurtenance Forces

7/7/2023 TIA-222-H Code: Structure: CT13070-A-01

Exposure: С Site Name: Waterbury 4, CT Crest Height: 0.00 Height: 134.00 (ft)

Site Class: D - Stiff Soil

Base Elev: 1.000 (ft) Struct Class: || Topography: 1

Page: 10

Load Case: 1.2D + 1.0W 117 mph Wind

1.1

Gh:

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



**Iterations** 

25

SBA

					qzGh	Orient Factor		Total CaAa	Dead Load	Horiz Ecc	Vert Ecc	Wind FX	Mom Y	Mom Z
No.	Elev (ft)	Description	Qty	qz (psf)	(psf)	x Ka	Ka	(sf)	(lb)	(ft)	(ft)	(lb)	(lb-ft)	(lb-ft)
1	134.00	Lightning rod	1	43.903	48.293	1.00	1.00	0.38	7.80	0.000	0.000	18.35	0.00	0.00
2		B2 B66A 8843	3	43.485	47.833	0.54	0.80	2.64	259.20	0.000	0.000	126.14	0.00	0.00
3		TPA65R-BU8D	3	43.485		0.58	0.80	30.88	522.00	0.000	0.000	1477.06	0.00	0.00
4		AIR 6449 N77	3	43.485		0.68	0.80	8.43	365.76	0.000	0.000	403.00	0.00	0.00
5		Cci Antennas	3	43.485	47.833	0.58	0.80	31.31	344.52	0.000	0.000	1497.57	0.00	0.00
6		RRUS 4478 B14	3	43.485	47.833	0.54	0.80	2.65	213.84	0.000	0.000	126.91	0.00	0.00
7	. — — .	4449 B5/B12	3	43.485	47.833	0.54	0.80	3.17	255.60	0.000	0.000	151.52	0.00	0.00
8	,	Radio 4415 B30	3	43.485	47.833	0.54	0.80	2.99	165. <del>6</del> 0	0.000	0.000	143.06	0.00	0.00
9		Ericsson AIR 6419 B77G	3	43.485	47.833	0.66	0.80	8.29	158.40	0.000	0.000	396.38	0.00	0.00
10		(3) SitePro	1	43.485	47.833	0.75	0.75	38.03	3599.50	0.000	0.000	1818.85	0.00	0.00
11		Ericsson Radio 2012 B29	3	43.485	47.833	0.54	0.80	2.99	154.80	0.000	0.000	143.06	0.00	0.00
12		DC9-48-60-24-8C-EV	3	43.485	47.833	0.60	0.80	2.05	94.32	0.000	0.000	98.15	0.00	0.00
13		RRUS 4415 B25	3		47.833	0.54	0.80	2.64	165.60	0.000	0.000	126.14	0.00	0.00
14		DC6-48-60-18-8C-EV	1	43.485	47.833	0.60	0.80	2.87	31.44	0.000	0.000	137.19	0.00	0.00
15		VHLP2.5-11	2	42.676	46.944	1.00	1.00	16.86	115.20	1.583	0.000	791.48		0.00
16		LP Platform w/ Handrail	1	42.676		1.00	1.00	46.00	2938.46	0.000	0.000	2159.42	0.00	0.00
17		NNVV-65B-R4	3		46.944	0.55	0.75	20.43	304.92	0.000	0.000	959.04	0.00	0.00
18	117.00		3	42.676	46.944	0.56	0.75	7.10	373.32	0.000	0.000	333.51	0.00	0.00
19		TD-RRH8x20-25	3	42.676	46.944	0.50	0.75	6.11	252.00	0.000	0.000	286.61	0.00	0.00
20		800 MHz RRH	6	42.676	46.944	0.50	0.75	7.51	381.60	0.000	0.000	352.42	0.00	0.00
21		1900 MHz RRH	3	42.676	46.944	0.50	0.75	4.18	216.00	0.000	0.000	196.03	0.00	0.00
22		KRY 112 489/2	3	41.128	45.241	0.50	0.75	0.98	55.44	0.000	0.000	44.33	0.00	0.00
23		RRUS 4415 B25	3		45.241	0.50	0.75	2.47	165.60	0.000	0.000	111.85	0.00	0.00
24		4449 B71+ B85	3	41.128	45.241	0.50	0.75	2.49	252.00	0.000	0.000	112.53	0.00	0.00
25		Air 32	4	41.128		0.65	0.75	16.99	634.56	0.000	0.000	768.69	0.00	0.00
26		APX16DWV-16DWV-S-E-	3	41.128		0.46	0.75	9.01	146.52	0.000	0.000	407.69	0.00	0.00
27		KRY 112 144/1	3	41.128		0.50	0.75	0.62	39.67	0.000	0.000	27.96	0.00	0.00
28		AIR 6449 B41	3	41.128	45.241	0.52	0.75	10.28	479.52	0.000	0.000	465.29	0.00	0.00
29		APXVAARR24_43-U-NA2	3	41.128	45.241	0.52	0.75	31.88	460.80	0.000	0.000	1442.18	0.00	0.00
30		LP Platform w/ Handrail	1	41.128	45.241	1.00	1.00	46.00	2938.80	0.000	0.000	2081.06	0.00	0.00
31		Samsung MT6407-77A	3	40.024	44.026	0.52	0.75	7.40	313.56	0.000	0.000	325.91	0.00	0.00
32		Low Profile	1	40.024	44.026	1.00	1.00	22.00	1800.00	0.000	0.000	968.58	0.00	0.00
33	86.00		3		44.026	0.66	0.75	9.48	54.00	0.000	0.000	417.56	0.00	0.00
34		JMA MX06FR0660-03	6		44.026	0.65	0.75	38.64	432.00	0.000	0.000	1701.23	0.00	0.00
3 <del>4</del> 35		Raycap	1		44.026	0.75	0.75	3.04	38.40	0.000	0.000	134.06	0.00	0.00
		Samsung B2/B66A	3		44.026	0.62	0.75	3.51	303.84	0.000	0.000	154.57	0.00	0.00
36 37		Samsung B5/B13	3		44.026	0.58	0.75	3.26	253.08	0.000	0.000	143.40	0.00	0.00
37 38		HRK12 (Handrail Kit)	1	40.024	44.026	1.00	1.00	6.75	314.06	0.000	0.000	297.18	0.00	0.00
39		Kaelus BSF0020F3V1-1	4		44.026	0.49	0.75	1.87	84.48	0.000	0.000	82.42	0.00	0.00
39	00.00	Macing DOLOGSOL 24 I-1		10.02			Totals:	3	19,686.22		2	1,428.39		

21,428.39 19,686.22 Totals:

#### **Total Applied Force Summary**

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

134.00 (ft)

**Base Elev:** 1.000 (ft)

**Gh:** 1.1

Height:

Code: TIA-222-H

Exposure: C

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

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7/7/2023

SBA

Iterations 25

**Load Case:** 1.2D + 1.0W 117 mph Wind

Topography: 1

Dead Load Factor 1.20 Wind Load Factor 1.00

Elev (ft)	Description	Lateral FX (-) (Ib)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	
0.00		0.00	0.00	0.00	0.00	
5.00		459.44	1450.36	0.00	0.00	
10.00		449.37	1424.35	0.00	0.00	
15.00		444.73	1398.34	0.00	0.00	
20.00		460.15	1372.33	0.00	0.00	
25.00		470.02	1346.32	0.00	0.00	
30.00		476.04	1320.30	0.00	0.00	
35.00		479.17	1294.29	0.00	0.00	
40.00		480.05	1268.28	0.00	0.00	
45.00		479.10	1242.27	0.00	0.00	
48.25		309.00	793,53	0.00	0.00	
50.00		167.99	700.46	0.00	0.00	
53.25		311.79	1285.36	0.00	0.00	
55.00		166.69	365.45	0.00	0.00	
60.00		475.79	1029.50	0.00	0.00	
65.00		470.01	1007.83	0.00	0.00	
70.00		463.35	986.15	0.00	0.00	
75.00		455.89	964.48	0.00	0.00	
80.00		447.71	942.80	0.00	0.00	
85.00		438.87	921.12	0.00	0.00	
86.00	(25) attachments	4311.14	3775.05	0.00	0.00	
90.00	, ,	342.37	617.41	0.00	0.00	
95.00		419.43	752.25	0.00	0.00	
98.00	(26) attachments	5707.70	5613.86	0.00	0.00	
100.00		164.57	438.49	0.00	0.00	
101.75		142.54	378.55	0.00	0.00	
105.00		261.53	327.43	0.00	0.00	
109.00		315.54	392.94	0.00	0.00	
110.00		60.25	112.41	0.00	0.00	
115.00		304.04	562.04	0.00	0.00	
117.00	(21) attachments	5200.57	4806.32	1253.17	0.00	
119.00		122.49	214.78	0.00	0.00	
120.00		61.35	127.85	0.00	0.00	
125.00		309.38	639.23	0.00	0.00	
128.00	(35) attachments	6831.59	6714.11	0.00	0.00	
130.00		124.77	249.69	0.00	0.00	
134.00	(1) attachments	269.48	507.19	0.00	0.00	
	Totals:	32,853.87	47,343.11	1,253.17	0.00	

## Linear Appurtenance Segment Forces (Factored)

CT13070-A-01 Structure:

Code: TIA-222-H 7/7/2023

Site Name: Waterbury 4, CT

Č Exposure: Crest Height: 0.00

134.00 (ft) Height:

Base Elev: 1.000 (ft)

Site Class: D - Stiff Soil SBA

25

Gh: 1.1

Struct Class: II Topography: 1

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Load Case: 1.2D + 1.0W 117 mph Wind

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



**Iterations** 

Top Elev		Wind	Length		Exposed Width	Area	CaAa	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
(ft)	Description	Exposed	(ft)	Ca	(in)	(sqft)	(sqft)	_				
5.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	27.680	0.00	1.64 6.24
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	27.680	0.00	1.64
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	27.680	0.00	6.24
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	27.680	0.00	1.64
15.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	28.022	0.00	6.24
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	28.022	0.00 0.00	1.64
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	29.673	0.00	6.24
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	29.673	0.00	1.64
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	31.038	0.00	6.24
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	31.038 32.209	0.00	1.64
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000		0.00	6.24
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	32.209 33.239	0.00	1.64
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	33.239	0.00	6.24
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000		0.00	1.64
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	34.161 34.161	0.00	6.24
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	34.101	0.00	1.64
45.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	34.999	0.00	6.24
45.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000 0.000	35.506	0.00	1.06
48.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.025	0.000	35.506	0.00	4.06
48.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.025	0.000	35.768	0.00	0.57
50.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.026	0.000	35.768	0.00	2.18
50.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.026	0.000	36.236	0.00	1.06
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.026	0.000	36.236	0.00	4.06
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.026	0.000	36.479	0.00	0.57
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.026	0.000	36.479	0.00	2.18
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.026 0.026	0.000	37.142	0.00	1.64
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00 0.00	0.026	0.000	37.142	0.00	6.24
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	37.763	0.00	1.64
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	37.763	0.00	6.24
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26		0.027	0.000	38.348	0.00	1.64
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	38.348	0.00	6.24
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00 0.00	0.020	0.000	38.901	0.00	1.64
75.00		Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	38.901	0.00	6.24
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	39.426	0.00	1.64
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	39.426	0.00	6.24
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	39.927	0.00	1.64
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	39.927	0.00	6.24
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	40.024	0.00	0.33
86.00		Yes	1.00	0.000	0.38	0.03	0.00	0.031	0.000	40.024	0.00	1.25
86.00		Yes	1.00	0.000	0.63	0.05		0.031	0.000	40.405	0.00	1.31
90.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.032	0.000	40.405	0.00	4.99
	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.032	0.000	40.862	0.00	1.64
	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.033	0.000	40.862	0.00	6.24
95.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.033	0.000	41.128	0.00	0.98
98.00	•	Yes	3.00	0.000	0.38	0.10	0.00 0.00	0.034	0.000	41.128	0.00	3.74
98.00		Yes	3.00	0.000	0.63	0.16 0.06	0.00	0.034	0.000	41.301	0.00	0.66
100.00	Safety Cable	Yes	2.00	0.000	0.38		0.00					

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## Linear Appurtenance Segment Forces (Factored)

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft) Gh:

1.1

Code: TIA-222-H

Exposure: С Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

7/7/2023

SBA

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Load Case: 1.2D + 1.0W 117 mph Wind

Topography: 1

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



**Iterations** 

25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (lb)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.035	0.000	41.301	0.00	2.50
101.75	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.035	0.000	41.451	0.00	0.57
101.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.035	0.000	41.451	0.00	2.18
105.00	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.035	0.000	41.724	0.00	1.06
105.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.035	0.000	41.724	0.00	4.06
109.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.036	0.000	42.050	0.00	1.31
109.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.036	0.000	42.050	0.00	4.99
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	42.130	0.00	0.33
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	42.130	0.00	1.25
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.039	0.000	42.523	0.00	1.64
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.039	0.000	42.523	0.00	6.24
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	42.676	0.00	0.66
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	42.676	0.00	2.50
119.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	42.828	0.00	0.66
119.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	42.828	0.00	2.50
120.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	42.902	0.00	0.33
120.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	42.902	0.00	1.25
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.039	0.000	43.270	0.00	1.25
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.039	0.000	43.270	0.00	6.24
128.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.039	0.000	43.485	0.00	0.24
128.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.039	0.000	43.485	0.00	3.74
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	43.626		
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.00	0.00	0.039	0.000	43.626	0.00	0.66
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.039	0.000	43.903	0.00	2.50
134.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.13	0.00	0.039		<del>-</del>	0.00	1.31
	, ()		4.00	0.000	0.00	U.Z I	0.00	0.039	0.000	43.903	0.00	4.99
									Tot	tals:	0.0	211.1

#### **Calculated Forces**

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height: 134.00 (ft)

Base Elev: 1.000 (ft)

Gh: 1.1

TIA-222-H Code:

Exposure: С Crest Height: 0.00

D - Stiff Soil Site Class:

Struct Class: ||

7/7/2023

SBA

25

Iterations

Page: 14

Load Case: 1.2D + 1.0W 117 mph Wind

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

Topography: 1



Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi Vn	phi Tn	phi Mn	Total Deflect	Rotation Sway	Rotation Twist	Stress
Elev	FY (-)	FX (-)	MY (-)	MZ	MX	Moment (ft-kips)	Pn (kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	(deg)	Ratio
(ft)	(kips)		(ft-kips)		(ft-kips)	3250.36	3976.93	1023.83	4163.63	4011.62	0.00	0.000	0.000	0.823
0.00	-47.27	-32.96	-1.23	-3250.3	-0.03	3085.56	3920.48	1001.47	3983.76	3867.66	0.14	-0.254	0.000	0.811
5.00	-45.67	-32.70	-1.23	-3085.5	-0.03	2922.05	3862.67	979.11	3807.86	3724.90	0.54	-0.512	0.000	0.797
10.00	-44.11	-32.44	-1.23	-2922.0	-0.03	2759.83	3803.51	956.76	3635.94	3583.42	1.22	-0.773	0.000	0.783
15.00	-42.57	-32.18	-1.23	-2759.8	-0.03	2598.94	3742.99	934.40	3467.98	3443.32	2.17	-1.037	0.000	0.767
20.00	-41.05	-31.89	-1.23	-2598.9	-0.03 -0.03	2439.50	3681.11	912.04	3304.00	3304.69	3.40	-1.303	-0.001	0.750
25.00	-39.57	-31.58	-1.23	-2439.5	-0.03	2281.63	3617.88	889.68	3143.99	3167.62	4.91	-1.572	-0.001	0.732
30.00	-38.12	-31.25	-1.23	-2281.6 -2125.4	-0.03	2125.40	3553.28	867.32	2987.95	3032.20	6.70	-1.841	-0.001	0.713
35.00	-36.69	-30.90	-1.23		-0.04	1970.90	3487.33	844.96	2835.88	2898.52	8.77	-2.112	-0.001	0.691
40.00	-35.30	-30.55	-1.23	-1970.9	-0.04	1818.18	3420.03	822.60	2687.78	2766.66	11.13	-2.383	-0.001	0.668
45.00	-33.96	-30.15	-1.23	-1818.1	-0.04	1720.19	3375.55	808.07	2593.65	2681.98	12.81	-2.561	-0.001	0.653
48.25	-33.11	-29.89	-1.23	-1720.1 -1667.8	-0.04	1667.89	3351.36	800.24	2543.66	2636.73	13.77	-2.658	-0.001	0.644
50.00	-32.34	-29.76	-1.23		-0.04	1571.16	2647.50	666.72	2118.80	2085.88	15.64	-2.835	-0.002	0.767
53.25	-31.00	-29.47	-1.23	-1571.1 -1519.6	-0.04	1519.60	2630.02	660.20	2077.55	2051.68	16.70	-2.931	-0.002	0.754
55.00	-30.54	-29.39	-1.23		-0.05	1372.67	2579.17	641.57	1961.94	1954.76	19.93	-3.232	-0.002	0.716
60.00	-29.39	-29.01	-1.24	-1372.6 -1227.6	-0.06	1227.62	2526.96	622.94	1849.64	1859.10	23.47	-3.527	-0.002	0.674
65.00	-28.27	-28.63	-1.24		-0.06	1084.49	2473.39	604.31	1740.65	1764.79	27.32	-3.813	-0.002	0.628
70.00	-27.17	-28.23	-1.24	-1084.4	-0.06	943.33	2418.47	585.67	1634.96	1671.92	31.46	-4.088	-0.003	0.577
75.00	-26.11	-27.83	-1.24	-943.33	-0.07	804.16	2362.18	567.04	1532.59	1580.58	35.88	-4.348	-0.003	0.522
80.00	-25.09	-27.43	-1.24	-804.16	-0.07	667.02	2304.54	548.41	1433.52	1490.86	40.56	-4.590	-0.004	0.460
85.00	-24.14	-26.98	-1.24	-667.02	-0.07	640.04	2292.85	544.68	1414.11	1473.12	41.53	-4.637	-0.004	0.445
86.00	-20.68	-22.42		-640.04	-0.08	550.37	2242.72	529.78	1337.77	1401.09	45.49	-4.814	-0.004	0.404
90.00	-20.02	-22.09	-1.24	-550.37	-0.08	439.90	2163.84	511.14		1303.79	50.63	-5.013	-0.005	0.348
95.00	-19.25	-21.66		-439.90	-0.09	374.92	2116.52	499.96	1191.45	1247.09	53.82	-5.123	-0.005	0.308
98.00	-14.13	-15.50		-374.92	-0.09	343.91	2084.97	492.51	1156.19	1209.99	55.97	-5.192	-0.005	0.292
100.00	-13.70	-15.31	-1.25	-343.91		317.12	1611.41	396.63	937.27	943.49	57.89	-5.250	-0.005	0.346
101.75	-13.31	-15.16		-317.12		267.86	1583.50	386.94	892.04	904.30	61.49	-5.349	-0.006	0.306
105.00	-12.98	-14.89		-267.86		208.30	1548.36	375.01	B37.91	856.74	66.02	-5.475	-0.006	0.253
109.00	-12.60	-14.56		-208.30		208.30	933.38	285.53	41725.7	590.00	66.02	-5.475	-0.006	0.369
109.00	-12.60	-14.56	_	-208.30		193.74	933.38	285.53	41725.7	590.00	67.17	-5.504	-0.007	0.344
110.00	-12.47	-14.50		-193.74		121.23	933.38	285.53	41725.7	590.00	72.99	-5.612	-0.007	0.221
115.00	-11.93	-14.16		-121.23		92.92	933.38	285.53		590.00	75.34	-5.641	-0.008	0.167
117.00	-7.65	-8.51		-92.92		75.89	933.38	285.53		590.00	77.71	-5.664	-0.008	0.137
119.00	-7.45	-8.37		-75.89		75.89	950.95	285.28	54712.4	624.60	77.71	-5.664	-0.008	0.130
119.00	-7.45	-8.37		-75.89		67.52	950.95	285.28	54712.4	624.60	78.89	-5.674	-0.008	0.117
120.00	-7.32	-8.30		-67.52		26.01	950.95	285.28	54712.4	624.60	84.84	-5.701	-0.008	0.049
125.00	-6.72	-7.93	_	-26.01		2.21	950.95	285.28	54712.4	624.60	88.42	-5.706	-0.008	0.004
128.00	-0.71	-0.47		-2.21		1.27	950.95	285.28	54712.4	624.60	90.81	-5.706	-0.008	0.003
130.00	-0.48	-0.32		-1.27		0.00	950.95	285.28	54712.4	624.60	95.58	-5.706	-0.008	0.000
134.00	0.00	-0.27	0.00	0.00	0.00	0.00	330.30	200.20	3,					

### Wind Loading - Shaft

Structure: CT13070-A-01

Site Name: Waterbury 4, CT 134.00 (ft)

Height:

Base Elev: 1.000 (ft)

Gh: 1.1 Code:

TIA-222-H

**Exposure:** С

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

7/7/2023

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SBA

Load Case: 0.9D + 1.0W 117 mph Wind

Topography: 1

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

**Iterations** 

25

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	lce Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (lb)	Tot Dead Load (lb)
0.00		1.00	0.85	27.680	30.45	445.87	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	27.680	30.45	436.21	0.730	0.000	5.00	20.670	15.09	459.4	0.0	883.5
10.00		1.00	0.85	27.680	30.45	426.54	0.730	0.000		20.217	14.76	449.4	0.0	864.0
15.00		1.00	0.86	28.022	30.82	419.45	0.730	0.000		19.764	14.43	444.7	0.0	844.5
20.00		1.00	0.91	29.673	32.64	421.62	0.730	0.000	5.00	19.312	14.10	460.1	0.0	825.0
25.00		1.00	0.95	31.038	34.14	420.98	0.730	0.000		18.859	13.77	470.0	0.0	805.5
30.00		1.00	0.99	32.209	35.43	418.42	0.730	0.000	5.00	18.406	13.44	476.0	0.0	786.0
35.00		1.00	1.02	33.239	36.56	414.47	0.730	0.000		17.953	13.11	479.2	0.0	766.5
40.00		1.00	1.05	34.161	37.58	409.45	0.730	0.000		17.500	12.77	480.1	0.0	747.0
45.00		1.00	1.07	34.999	38.50	403.57	0.730	0.000		17.047	12.44	479.1	0.0	727.5
48.25 Bot -	Section 2	1.00	1.09	35.506	39.06	399.37	0.730	0.000		10.838	7.91	309.0	0.0	462.4
50.00		1.00	1.10	35.768	39.34	396.99	0.730	0.000	1.75	5.849	4.27	168.0	0.0	453.9
53.25 Top -	Section 1	1.00	1.11	36.236	39.86	392,40	0.730	0.000		10.715	7.82	311.8	0.0	831.3
55.00		1.00	1.12	36.479	40.13	396.30	0.730	0.000	1.75	5.691	4.15	166.7	0.0	202.6
60.00		1.00	1.14	37.142	40.86	388.69	0.730	0.000		15.953	11.65	475.8	0.0	567.9
65.00		1.00	1.16	37.763	41.54	380.64	0.730	0.000		15.500	11.31	470.0	0.0	551.6
70.00		1.00	1.18	38.348	42.18	372.21	0.730	0.000		15.047	10.98	463.3	0.0	535.4
75.00		1.00	1.19	38.901	42.79	363,43	0.730	0.000		14.594	10.65	455.9	0.0	519.1
80.00		1.00	1.21	39.426	43.37	354.34	0.730	0.000		14.141	10.32	447.7	0.0	502.9
85.00		1.00	1.23	39.927	43.92	344.98	0.730	0.000		13.688	9.99	438.9	0.0	486.6
86.00 Арри	rtenance(s)	1.00	1.23	40.024	44.03	343.07	0.730	0.000	1.00	2.683	1.96	86.2	0.0	95.4
90.00		1.00	1.24	40.405	44.45	335.36	0.730	0.000		10.552	7.70	342.4	0.0	375.0
95.00		1.00	1.25	40.862	44.95	325.51	0.730	0.000		12.783	9.33	419.4	0.0	454.1
98.00 Bot -	Section 3	1.00	1.26	41.128	45.24	319.50	0.730	0.000	3.00	7.452	5.44	246.1	0.0	264.7
00.00		1.00	1.27	41.301	45.43	315.45	0.730	0.000	2.00	4.962	3.62	164.6	0.0	314.5
01.75 Top -	Section 2	1.00	1.27	41.451	45.60	311.89	0.730	0.000	1.75	4.282	3.13	142.5	0.0	271.3
05.00		1.00	1.28	41.724	45.90	310.74	0.730	0.000	3.25	7.806	5.70	261.5	0.0	222.2
09.00 Top -	Section 3	1.00	1.29	42.050	46.26	302.43	0.730	0.000	4.00	9.345	6.82	315.5	0.0	265.9
10.00		1.00	1.29	42.130	46.34	285.17	0.600	0.000	1.00	2.167	1.30	60.2	0.0	77.1
15.00		1.00	1.31	42.523	46.78	286.50	0.600	0.000		10.833	6.50	304.0	0.0	385.6
17.00 Appu	rtenance(s)	1.00	1.31	42.676	46.94	287.01	0.600	0.000	2.00	4.333	2.60	122.1	0.0	154.2
19.00 Top -	Section 4	1.00	1.32	42.828	47.11	287.52	0.600	0.000	2.00	4.333	2.60	122.5	0.0	154.2
20.00		1.00		42.902	47.19	287.77	0.600	0.000	1.00	2.167	1.30	61.4	0.0	92.5
25.00		1.00	1.33	43.270	47.60	289.00	0.600	0.000		10.833	6.50	309.4	0.0	92.5 462.3
28.00 Appur	tenance(s)	1.00	1.34	43.485	47.83	289.72	0.600	0.000	3.00	6.500	3.90	186.5	0.0	402.3 277.4
30.00		1.00		43.626	47.99	290.19	0.600	0.000	2.00	4.333	2.60	124.8	0.0	
34.00 Appur	tenance(s)	1.00		43.903	48.29	291.11	0.600	0.000	4.00	8.667	5.20	251.1	0.0	184.9
								Totals:	134.00	5.007	3.20	201.1	0.0_	369.8

#### Discrete Appurtenance Forces

7/7/2023 TIA-222-H Code: CT13070-A-01 Structure:

Exposure: C Site Name: Waterbury 4, CT Crest Height: 0.00 134.00 (ft) Height:

Site Class: D - Stiff Soil Base Elev: 1.000 (ft)

Topography: 1 Struct Class: II Gh: 1.1

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Load Case: 0.9D + 1.0W 117 mph Wind

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



**Iterations** 

SBA

25

						Orient		Total	Dead	Horiz	Vert Ecc	Wind FX	Mom Y	Mom Z
	Elev	D	Ohr	qz (psf)	qzGh (psf)	Factor x Ka	Ka	CaAa (sf)	Load (Ib)	Ecc (ft)	(ft)	(lb)	(lb-ft)	(lb-ft)
No.	(ft)	Description	Qty	43.903	48.293	1.00	1.00	0.38	5.85	0.000	0.000	18.35	0.00	0.00
1		Lightning rod	1 3		47.833	0.54	0.80	2.64	194.40	0.000	0.000	126.14	0.00	0.00
2		B2 B66A 8843	3		47.833	0.54	0.80	30.88	391.50	0.000	0.000	1477.06	0.00	0.00
3		TPA65R-BU8D	3		47.833	0.68	0.80	8.43	274.32	0.000	0.000	403.00	0.00	0.00
4		AIR 6449 N77	3		47.833	0.58	0.80	31.31	258.39	0.000	0.000	1497.57	0.00	0.00
5		Cci Antennas	3		47.833	0.54	0.80	2.65	160.38	0.000	0.000	126.91	0.00	0.00
6		RRUS 4478 B14	3		47.833	0.54	0.80	3.17	191.70	0.000	0.000	151.52	0.00	0.00
7		4449 B5/B12	3	-	47.833	0.54	0.80	2.99	124.20	0.000	0.000	143.06	0.00	0.00
8		Radio 4415 B30	3		47.833	0.66	0.80	8.29	118.80	0.000	0.000	396.38	0.00	0.00
9		Ericsson AIR 6419 B77G	1		47.833	0.75	0.75	38.03	2699.62	0.000	0.000	1818.85	0.00	0.00
10		(3) SitePro	3		47.833	0.54	0.80	2.99	116.10	0.000	0.000	143.06	0.00	0.00
11		Ericsson Radio 2012 B29	3		47.833	0.60	0.80	2.05	70.74	0.000	0.000	98.15	0.00	0.00
12		DC9-48-60-24-8C-EV	3		47.833	0.54	0.80	2.64	124.20	0.000	0.000	126.14	0.00	0.00
13		RRUS 4415 B25	1		47.833	0.60	0.80	2.87	23.58	0.000	0.000	137.19	0.00	0.00
14		DC6-48-60-18-8C-EV	2		46.944	1.00	1.00	16.86	86.40	1.583	0.000	791.48	1253.1	0.00
15		VHLP2.5-11 LP Platform w/ Handrail	1		46.944	1.00	1.00	46.00	2203.85	0.000	0.000	2159.42	0.00	0.00
16			3		46.944	0.55	0.75	20.43	228.69	0.000	0.000	959.04	0.00	0.00
17		NNVV-65B-R4	3	42.676	46.944	0.56	0.75	7.10	279.99	0.000	0.000	333.51	0.00	0.00
18	117.00		3	42.676	46.944	0.50	0.75	6.11	189.00	0.000	0.000	286.61	0.00	0.00
19		TD-RRH8x20-25	6		46.944	0.50	0.75	7.51	286.20	0.000	0.000	352.42	0.00	0.00
20		800 MHz RRH	3		46.944	0.50	0.75	4.18	162.00	0.000	0.000	196.03	0.00	0.00
21		1900 MHz RRH	3		45.241	0.50	0.75	0.98	41.58	0.000	0.000	44.33	0.00	0.00
22		KRY 112 489/2	3		45.241	0.50	0.75	2.47	124.20	0.000	0.000	111.85	0.00	0.00
23		RRUS 4415 B25	3		45.241	0.50	0.75	2.49	189.00	0.000	0.000	112.53	0.00	0.00
24		4449 B71+ B85	4	41.128	45.241	0.65	0.75	16.99	475.92	0.000	0.000	768.69	0.00	0.00
25		Air 32 APX16DWV-16DWV-S-E-	3	41.128	45.241	0.46	0.75	9.01	109.89	0.000	0.000	407.69	0.00	0.00
26		KRY 112 144/1	3		45.241	0.50	0.75	0.62	29.75	0.000	0.000	27.96	0.00	0.00
27			3	41.128	45.241	0.52	0.75	10.28	359.64	0.000	0.000	465.29	0.00	0.00
28		AIR 6449 B41 APXVAARR24_43-U-NA2	3	41.128	45.241	0.52	0.75	31.88	345.60	0.000	0.000	1442.18	0.00	0.00
29			1	41.128	45.241	1.00	1.00	46.00	2204.10	0.000	0.000	2081.06	0.00	0.00
30		LP Platform w/ Handrail	3	40.024	44.026	0.52	0.75	7.40	235.17	0.000	0.000	325.91	0.00	0.00
31		Samsung MT6407-77A	1	40.024	44.026	1.00	1.00	22.00	1350.00	0.000	0.000	968.58	0.00	0.00
32		Low Profile	3	40.024	44.026	0.66	0.75	9.48	40.50	0.000	0.000	417.56	0.00	0.00
33	86.00		6	40.024		0.65	0.75	38.64	324.00	0.000	0.000	1701.23	0.00	0.00
34		JMA MX06FR0660-03	1	40.024		0.75	0.75	3.04	28.80	0.000	0.000	134.06	0.00	0.00
35		Raycap	3	40.024		0.62	0.75	3.51	227.88	0.000	0.000	154.57	0.00	0.00
36		Samsung B2/B66A	3	40.024	44.026	0.58	0.75	3.26	189.81	0.000	0.000	143.40	0.00	0.00
37		Samsung B5/B13	1	40.024	44.026	1.00	1.00	6.75	235.55	0.000	0.000	297.18	0.00	0.00
38		HRK12 (Handrail Kit)	4	40.024	44.026	0.49	0.75	1.87	63.36	0.000	0.000	82.42	0.00	0.00
_39	86.00	Kaelus BSF0020F3V1-1		10.021	11.02.0		Totals		14,764.66		- 2	21,428.39		

#### **Total Applied Force Summary**

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft)

Gh: 1.1 Code:

TIA-222-H

Exposure: С

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

7/7/2023

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SBA

Load Case: 0.9D + 1.0W 117 mph Wind

**Dead Load Factor** 

0.90

Topography: 1

**Wind Load Factor** 1.00

**Iterations** 

25

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	
0.00		0.00	0.00	0.00	0.00	
5.00		459.44	1087.77	0.00	0.00	
10.00		449.37	1068.26	0.00	0.00	
15.00		444.73	1048.75	0.00	0.00	
20.00		460.15	1029.25	0.00	0.00	
25.00		470.02	1009.74	0.00	0.00	
30.00		476.04	990.23	0.00	0.00	
35.00		479.17	970.72	0.00	0.00	
40.00		480.05	951.21	0.00	0.00	
45.00		479.10	931.70	0.00	0.00	
48.25	· ·	309.00	595.15	0.00	0.00	
50.00		167.99	525.35	0.00	0.00	
53.25		311.79	964.02	0.00	0.00	
55.00		166.69	274.09	0.00	0.00	
60.00		475.79	772.13	0.00	0.00	
65.00		470.01	755.87	0.00	0.00	
70.00		463.35	739.61	0.00	0.00	
75.00		455.89	723.36	0.00	0.00	
80.00		447.71	707.10	0.00	0.00	
85.00		438.87	690.84	0.00	0.00	
86.00	(25) attachments	4311.14	2831.29	0.00	0.00	
90.00		342.37	463.06	0.00	0.00	
95.00		419.43	564.19	0.00	0.00	
98.00	(26) attachments	5707.70	4210.39	0.00	0.00	
100.00		164.57	328.86	0.00	0.00	
101.75		142.54	283.92	0.00	0.00	
105.00		261.53	245.58	0.00	0.00	
109.00		315.54	294.70	0.00	0.00	
110.00		60.25	84.31	0.00	0.00	
115.00		304.04	421.53	0.00	0.00	
117.00	(21) attachments	5200.57	3604.74	1253.17	0.00	
119.00		122.49	161.08	0.00	0.00	
120.00		61.35	95.88	0.00	0.00	
125.00		309.38	479.42	0.00	0.00	
128.00	(35) attachments	6831.59	5035.59	0.00	0.00	
130.00		124.77	187.27	0.00	0.00	
134.00	(1) attachments	269.48	380.39	0.00	0.00	
	Totals:	32,853.87	35,507.33	1,253.17	0.00	

# Linear Appurtenance Segment Forces (Factored)

CT13070-A-01 Structure:

Code:

TIA-222-H

Site Name: Waterbury 4, CT

Exposure: Ç 7/7/2023

Height:

134.00 (ft)

Crest Height: 0.00

SBA

Iterations

25

Base Elev: 1.000 (ft) Gh: 1.1

Topography: 1

Site Class: D - Stiff Soil Struct Class: II

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Load Case: 0.9D + 1.0W 117 mph Wind

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



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)
		Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	27.680	0.00	1.23
5.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	27.680	0.00	4.68
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	27.680	0.00	1.23
10.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	27.680	0.00	4.68
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	28.022	0.00	1.23
15.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	28.022	0.00	4.68
15.00	Step boits (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	29.673	0.00	1.23
20.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	29.673	0.00	4.68
20.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	31.038	0.00	1.23
25.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	31.038	0.00	4.68
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	32.209	0.00	1.23
30.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	32.209	0.00	4.68
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	33.239	0.00	1.23
35.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	33.239	0.00	4.68
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	34.161	0.00	1.23
40.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	34.161	0.00	4.68
40.00	Step bolts (ladder) Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	34.999	0.00	1.23
45.00	•	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	34.999	0.00	4.68
45.00	Step bolts (ladder) Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.025	0.000	35.506	0.00	0.80
48.25		Yes	3.25	0.000	0.63	0.17	0.00	0.025	0.000	35.506	0.00	3.04
48.25	Step bolts (ladder) Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.026	0.000	35.768	0.00	0.43
50.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.026	0.000	35.768	0.00	1.64
50.00 53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.026	0.000	36.236	0.00	0.80
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.026	0.000	36.236	0.00	3.04
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.026	0.000	36.479	0.00	0.43
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.026	0.000	36.479	0.00	1.64
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	37.142	0.00	1.23
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	37.142	0.00	4.68
65.00	· · · · · · · · · · · · · · · · · · ·	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	37.763	0.00	1.23
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	37.763	0.00	4.68
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	38.348	0.00	1.23
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	38.348	0.00	4.68
75.00		Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	38.901	0.00	1.23
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	38.901	0.00	4.68
80.00	, , ,	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	39.426	0.00	1.23
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	39.426	0.00	4.68
85.00	•	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	39.927	0.00	1.23
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	39.927	0.00	4.68
86.00		Yes	1.00	0.000	0.38	0.03	0.00	0.031	0.000	40.024	0.00	0.25
86.00		Yes	1.00	0.000	0.63	0.05	0.00	0.031	0.000	40.024	0.00	0.94
	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.032	0.000	40.405	0.00	0.98
	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.032	0.000	40.405	0.00	3.74
	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.033	0.000	40.862	0.00	1.23
	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.033	0.000	40.862	0.00	4.68
98.00		Yes	3.00	0.000	0.38	0.10	0.00	0.034	0.000	41.128	0.00	0.74
98.00	•	Yes	3.00	0.000	0.63	0.16	0.00	0.034	0.000	41.128	0.00	2.81
	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.035	0.000	41.301	0.00	0.49
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# Linear Appurtenance Segment Forces (Factored)

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft) Gh: 1.1

Topography: 1

Code: TIA-222-H

Exposure: С

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

7/7/2023

SBA

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Load Case: 0.9D + 1.0W 117 mph Wind

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



**Iterations** 

25

Top Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Exposed Width (in)	Area (sqft)	CaAa (sqft)	Ra	Cf Adjust Factor	qz (psf)	F X (lb)	Dead Load (Ib)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.035	0.000	41.301	0.00	1.87
101.75	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.035	0.000	41.451	0.00	0.43
101.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.035	0.000	41.451	0.00	1.64
105.00	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.035	0.000	41,724	0.00	0.80
105.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.035	0.000	41.724	0.00	3.04
109.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.036	0.000	42.050	0.00	0.98
109.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.036	0.000	42.050	0.00	3.74
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	42.130	0.00	0.25
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	42.130	0.00	0.94
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.039	0.000	42.523	0.00	1.23
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.039	0.000	42.523	0.00	4.68
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	42.676	0.00	0.49
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	42.676	0.00	1.87
119.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	42.828	0.00	0.49
119.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	42.828	0.00	1.87
120.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	42.902	0.00	0.25
120.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	42.902	0.00	0.23
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.039	0.000	43.270	0.00	1.23
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.039	0.000	43.270	0.00	4.68
128.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.039	0.000	43.485	0.00	0.74
128.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.039	0.000	43.485	0.00	2.81
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	43.626	0.00	0.49
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	43.626	0.00	1.87
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.039	0.000	43.903	0.00	0.98
134.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.13	0.00	0.039	0.000	43.903	0.00	3.74
	. ,,			0.000	0.00	0.21	0.00	0.003		_		
									To	tals:	0.0	158.3

## **Calculated Forces**

CT13070-A-01 Structure:

Site Name: Waterbury 4, CT

134.00 (ft) Height: Base Elev: 1.000 (ft)

Gh:

1.1

Code: TIA-222-H

Exposure: С

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

7/7/2023

SBA

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Page: 20

Iterations

Load Case: 0.9D + 1.0W 117 mph Wind

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

Topography: 1

Seg	Pu	Vu	Tu	Mu	Mu	Resultant	phi	phi	phi To	phi	Total Deflect	Rotation Sway	Rotation Twist	Stress
Elev	FY (-)	FX (-)	MY (-)	MZ	MX	Moment	Pn (kips)	Vn (kips)	Tn (ft-kips)	Mn (ft-kips)	(in)	(deg)	(deg)	Ratio
(ft)	(kips)		(ft-kips)			(ft-kips) 3205.72	3976.93	1023.83	4163.63	4011.62	0.00	0.000	0.000	0.809
0.00	-35.43	-32.93	-1.23	-3205.7	-0.02	3205.72	3920.48	1001.47	3983.76	3867.66	0.13	-0.251	0.000	0.796
5.00	-34.20	-32.62	-1.23	-3041.0	-0.02 -0.02	2877.94	3862.67	979.11	3807.86	3724.90	0.53	-0.505	0.000	0.782
10.00	-32.99	-32.31	-1.23	-2877.9		2716.38	3803.51	956.76	3635.94	3583.42	1.20	-0.762	0.000	0.768
15.00	-31.81	-32.00	-1.23	-2716.3	-0.02 -0.02	2556.37	3742.99	934.40	3467.98	3443.32	2.14	-1.021	0.000	0.752
20.00	-30.64	-31.66	-1.23	-2556.3	-0.02	2398.05	3681.11	912.04	3304.00	3304.69	3.35	-1.283	-0.001	0.735
25.00	-29.50	-31.31	-1.23	-2398.0	-0.03	2241.51	3617.88	889.68	3143.99	3167.62	4.83	-1.547	-0.001	0.717
30.00	-28.38	-30.94	-1.23	-2241.5	-0.03	2086.80	3553.28	867.32	2987.95	3032.20	6.60	-1.812	-0.001	0.697
35.00	-27.28	-30.56	-1.23	-2086.8	-0.03	1934.01	3487.33	844.96	2835.88	2898.52	8.64	-2.077	-0.001	0.676
40.00	-26.21	-30.17	-1.23	-1934.0 -1783.1	-0.03	1783.16	3420.03	822.60	2687.78	2766.66	10.96	-2.343	-0.001	0.653
45.00	-25.18	-29.75	-1.23		-0.03	1686.47	3375.55	808.07	2593.65	2681.98	12.61	-2.518	-0.001	0.637
48.25	-24.53	-29.48	-1.23	-1686.4 -1634.8	-0.03	1634.89	3351.36	800.24	2543.66	2636.73	13.55	-2.613	-0.001	0.629
50.00	-23.94	-29.34	-1.23	-1539.5	-0.04	1539.53	2647.50	666.72	2118.80	2085.88	15.39	-2.786	-0.002	0.749
53.25	-22.93	-29.04	-1.23	-1539.5	-0.04	1488.72	2630.02	660.20	2077.55	2051.68	16.43	-2.880	-0.002	0.736
55.00	-22.56	-28.93	-1.24	-1344.0	-0.04	1344.05	2579.17	641.57	1961.94	1954.76	19.61	-3.175	-0.002	0.698
60.00	-21.67	-28.53	-1.24	-1344.0	-0.04	1201.41	2526.96	622.94	1849.64	1859.10	23.09	-3.464	-0.002	0.657
65.00	-20.80	-28.12	-1.24	-1201.4	-0.05	1060.81	2473.39	604.31	1740.65	1764.79	26.86	-3.744	-0.002	0.611
70.00	-19.96	-27.71	-1.24 -1.24	-922.28	-0.05	922.28	2418.47	585.67	1634.96	1671.92	30.93	-4.013	-0.003	0.562
75.00	-19.15	-27.29	-1.24	-922.26 -785.82	-0.06	785.82	2362.18	567.04	1532.59	1580.58	35.27	-4.267	-0.003	0.507
80.00	-18.36	-26.87	-1.24	-651.46	-0.07	651.46	2304.54	548.41	1433.52	1490.86	39.86	-4.503	-0.004	0.447
85.00	-17.64	-26.42	-1.24	-625.04	-0.07	625.04	2292.85	544.68	1414.11	1473.12	40.81	-4.550	-0.004	0.433
86.00	-15.12	-21.93	-1.24	-537.31	-0.07	537.31	2242.72	529.78	1337.77	1401.09	44.69	-4.722	-0.004	0.392
90.00	-14.61	-21.60 -21.17	-1.24	-429.31	-0.08	429.31	2163.84	511.14	1245.33	1303.79	49.74	-4.917	-0.005	0.338
95.00	-14.03	-21.17 -15.14	-1.25	-365.79	-0.09	365.79	2116.52	499.96	1191.45	1247.09	52.86	-5.023	-0.005	0.299
98.00	-10.31 -9.98	-14.95	-1.25	-335.52	-0.09	335.52	2084.97	492.51	1156.19	1209.99	54.98	-5.091	-0.005	0.283
100.00		-14.80	-1.25	-309.35	-0.09	309.35	1611.41	396.63	937.27	943.49	56.85	-5.147	-0.005	0.335
101.75	-9.69 -9.44	-14.54	-1.25	-261.25	-0.09	261.25	1583.50	386.94	892.04	904.30	60.39	-5.244	-0.006	0.296
105.00	-9.44 -9.16	-14.21	-1.25	-201.20	-0.10	203.11	1548.36	375.01	837.91	856.74	64.83	-5.367	-0.006	0.245
109.00	-9.16 -9.16	-14.21	-1.25	-203.11	-0.10	203.11	933.38	285.53	41725.7	590.00	64.83	-5.367	-0.006	0.357
109.00	-9.16 -9.06	-14.21	-1.25	-188.91	-0.10	188.91	933.38	285.53	41725.7	590.00	65.96	-5.395	-0.007	0.332
110.00	-9.06 -8.66	-13.82		-118.16	-0.11	118.16	933.38	285.53	41725.7	590.00	71.66	-5.500	-0.007	0.212
115.00	-5.56	-8.30	0.00	-90.53	0.01	90.53	933.38	285.53	41725.7	590.00	73.97	-5.529	-0.008	0.160
117.00		-8.16	0.00	-73.94	0.01	73.94	933.38	285.53	41725.7	590.00	76.28	-5.551	-0.008	0.132
119.00	-5.41			-73.94	0.01	73.94	950.95	285.28	54712.4	624.60	76.28	-5.551	-0.008	0.125
119.00	-5.41	-8.16 -8.09	0.00	-65.78	0.01	65.78	950.95	285.28	54712.4	624.60	77.45	-5.561	-0.008	0.112
120.00	-5.32	-8.09 -7.74		-25.33	0.00	25.33	950.95	285.28	54712.4	624.60	83.28	-5.587	-0.008	0.046
125.00	-4.87	-7.74 -0.45		-23.33 -2.12	0.00	2.12	950.95	285.28	54712.4	624.60	86.78	-5.592	-0.008	0.004
128.00	-0.53		0.00	-1.22		1.22	950.95	285.28	54712.4	624.60	89.12	-5.592	-0.008	0.002
130.00	-0.35 0.00	-0.31 -0.27		0.00	0.00	0.00	950.95	285.28	54712.4	624.60	93.80	-5.593	-0.008	0.000
134.00	0.00	-0.21	0.00	0.00	0.00	2.32	-							

### Wind Loading - Shaft

Structure: CT13070-A-01 Code: TIA-222-H 7/7/2023

Site Name: Waterbury 4, CT Exposure: С Height: 134.00 (ft) Crest Height: 0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Gh: 1.1 Topography: 1 Struct Class: || Page: 21

**Iterations** 

23

SBA

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

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

Elev (ft)	Description	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	lce Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (Ib)	Tot Dead Load (lb)
0.00		1.00	0.85	5.055	5.56	0.00	1.200	0.705	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	5.055	5.56	0.00	1.200	0.843		21.373	25,65	142.6	257.1	1435.1
10.00		1.00	0.85	5.055	5.56	0.00	1.200	0.896		20.964	25.16	139.9	267.5	1419.5
15.00		1.00	0.86	5.118	5.63	0.00	1.200	0.930	5.00	20.540	24.65	138.8	271.7	1397.8
20.00		1.00	0.91	5.419	5.96	0.00	1.200	0.956	5.00	20.108	24.13	143.8	273.0	1373.0
25.00		1.00	0.95	5.668	6.24	0.00	1.200	0.976	5.00	19.672	23.61	147.2	272.6	1346.6
30.00		1.00	0.99	5.882	6.47	0.00	1.200	0.994	5.00	19.234	23.08	149.3	270.9	1318.9
35.00		1.00	1.02	6.070	6.68	0.00	1.200	1.009	5.00	18.793	22.55	150.6	268.4	1290.4
40.00		1.00	1.05	6.239	6.86	0.00	1.200	1.022	5.00	18.352	22.02	151.1	265.2	1261.2
45.00		1.00	1.07	6.392	7.03	0.00	1.200	1.034	5.00	17.909	21.49	151.1	261.5	1231.4
48.25 Bot -	Section 2	1.00	1.09	6.484	7.13	0.00	1.200	1.041	3.25	11.402	13.68	97.6	168.2	784.8
50.00		1.00	1.10	6.532	7.19	0.00	1.200	1.044	1.75	6.154	7.38	53.1	91.5	696.6
53.25 Top -	Section 1	1.00	1.11	6.618	7.28	0.00	1.200	1.051	3.25	11.285	13.54	98.6	168.0	1276.4
55.00		1.00	1.12	6.662	7.33	0.00	1.200	1.054	1.75	5.998	7.20	52.7	89.9	360.0
60.00		1.00	1.14	6.783	7.46	0.00	1.200	1.063	5.00	16.839	20.21	150.8	252.1	1009.3
65.00		1.00	1.16	6.897	7.59	0.00	1.200	1.072	5.00	16.393	19.67	149.2	247.0	982.5
70.00		1.00	1.18	7.003	7.70	0.00	1.200	1.080	5.00	15.947	19.14	147.4	241.7	955.6
75.00		1.00	1.19	7.104	7.81	0.00	1.200	1.087	5.00	15.500	18.60	145.4	236.2	928.4
80.00		1.00	1.21	7.200	7.92	0.00	1.200	1.094	5.00	15.053	18.06	143.1	230.5	901.0
85.00		1.00	1.23	7.292	8.02	0.00	1.200	1.101	5.00	14.606	17.53	140.6	224.6	873.4
86.00 Appu	rtenance(s)	1.00	1.23	7.310	8.04	0.00	1.200	1.102	1.00	2.867	3.44	27.7	44.7	171.8
90.00		1.00	1.24	7.379	8.12	0.00	1.200	1.107	4.00	11.290	13.55	110.0	174.9	674.8
95.00		1.00	1.25	7.463	8.21	0.00	1.200	1.113	5.00	13.710	16.45	135.1	212.4	817.9
98.00 Bot -	Section 3	1.00	1.26	7.511	8.26	0.00	1.200	1.116	3.00	8.010	9.61	79.4	125.2	478.1
00.00		1.00	1.27	7.543	8.30	0.00	1.200	1.118	2.00	5.335	6.40	53.1	83.8	503.1
01.75 Top -	Section 2	1.00	1.27	7.570	8.33	0.00	1.200	1.120	1.75	4.609	5.53	46.1	72.6	434.3
05.00		1.00	1.28	7.620	8.38	0.00	1.200	1.124	3.25	8.415	10.10	84.6	132.0	428.3
09.00 Top -	Section 3	1.00	1.29	7.680	8.45	0.00	1.200	1.128	4.00	10.097	12.12	102.3	158.3	512.9
10.00		1.00	1.29	7.694	8.46	0.00	1.200	1.129	1.00	2.355	2.83	23.9	37.4	140.2
15.00		1.00	1.31	7.766	8.54	0.00	1.200	1.134	5.00	11.778	14.13	120.7	188.0	702.0
17.00 Арриі	rtenance(s)	1.00	1.31	7.794	8.57	0.00	1.200	1.136	2.00	4.712	5.65	48.5	75.3	280.9
19.00 Top -	Section 4	1.00	1.32	7.822	8.60	0.00	1.200	1.138	2.00	4.713	5.66	48.7	75.4	281.1
20.00		1.00	1.32	7.835	8.62	0.00	1.200	1.139	1.00	2.356	2.83	24.4	37.8	161.0
25.00		1.00	1.33	7.902	8.69	0.00	1.200	1.143	5.00	11.786	14.14	122.9	189.6	805.9
28.00 Appur	tenance(s)	1.00	1.34	7.942	8.74	0.00	1.200	1.146	3.00	7.073	8.49	74.1	114.0	483.8
30.00		1.00	1.34	7.967	8.76	0.00	1.200	1.148	2.00	4.716	5.66	49.6	76.1	322.7
34.00 Appur	tenance(s)	1.00	1.35	8.018	8.82	0.00	1.200	1.151	4.00	9.434	11.32	99.8	152.8	645.8
								Totals:	134.00			3,743.8		28,686.8

## Discrete Appurtenance Forces

CT13070-A-01 Structure:

Code:

TIA-222-H

7/7/2023

Site Name: Waterbury 4, CT

Exposure:

С

Crest Height: 0.00

SBA

Height:

134.00 (ft)

Site Class: D - Stiff Soil

Gh:

Base Elev: 1.000 (ft)

Topography: 1

Struct Class: ||

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**Iterations** 

23

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

1.20 **Dead Load Factor** 

1.00 **Wind Load Factor** 

No.	Elev (ft) [	Description	Qty	qz (psf)	qzGh (psf)	Orient Factor x Ka	Ka	Total CaAa (sf)	Dead Load (Ib)	Horiz Ecc (ft)	Vert Ecc (ft)	Wind FX (lb)	Mom Y (lb-ft)	Mom Z (lb-ft)
1	134,00 Lightnir	a rod	1	8.018	8.820	1.00	1.00	1.10	26.45	0.000	0.000	9.68	0.00	0.00
2	128.00 B2 B66/	-	3	7.942	8.736	0.54	0.80	3.18	324.48	0.000	0.000	27.80	0.00	0.00
3	128.00 TPA65R		3	7.942	8.736	0.58	0.80	32.92	1810.27	0.000	0.000	287.56	0.00	0.00
4	128.00 AIR 644		3	7.942	8.736	0.68	0.80	9.55	619.78	0.000	0.000	83.41	0.00	0.00
5	128.00 Cci Ante		3	7.942	8.736	0.58	0.80	33.37	1414.06	0.000	0.000	291.55	0.00	0.00
6	128.00 RRUS 4		3	7.942	8.736	0.54	0.80	3.20	267.33	0.000	0.000	27.96	0.00	0.00
7	128.00 4449 B5	/B12	3	7.942	8.736	0.54	0.80	3.75	319.96	0.000	0.000	32.72	0.00	0.00
8	128.00 Radio 4		3	7.942	8.736	0.54	0.80	3.56	274.19	0.000	0.000	31.13	0.00	0.00
9	128.00 Ericsson	AIR 6419 B77G	3	7.942	8.736	0.68	0.80	9.61	375.77	0.000	0.000	83.99	0.00	0.00
10	128.00 (3) SiteF		1	7.942	8.736	0.75	0.75	69.40	5704.19	0.000	0.000	606.27	0.00	0.00
11		Radio 2012 B29	3	7.942	8.736	0.54	0.80	3.56	266.99	0.000	0.000	31.13	0.00	0.00
12	128.00 DC9-48-		3	7.942	8.736	0.60	0.80	3.93	251.83	0.000	0.000	34.31	0.00	0.00
13	128.00 RRUS 4		3	7.942	8.736	0.54	0.80	3.18	218.38	0.000	0.000	27.79	0.00	0.00
14	128.00 DC6-48-		1	7.942	8.736	0.60	0.80	3.22	144.89	0.000	0.000	28.10	0.00	0.00
15	117.00 VHLP2.		2	7.794	8.573	1.00	1.00	19.08	243.88	1.583	0.000		259.02	0.00
16	117.00 LP Platf		1	7.794	8.573	1.00	1.00	68.15	3656.07	0.000	0.000	584.31	0.00	0.00
17	117.00 NNVV-6		3	7.794	8.573	0.55	0.75	22.01	739.58	0.000	0.000	188.68	0.00	0.00
18	117.00 AAHC		3	7.794	8.573	0.56	0.75	8.00	504.55	0.000	0.000	68.55	0.00	0.00
19	117.00 TD-RRH	18x20-25	3	7.794	8.573	0.50	0.75	6.88	452.30	0.000	0.000	58.99	0.00	0.00
20	117.00 800 MH		6	7.794	8.573	0.50	0.75	9.75	543.83	0.000	0.000	83.61	0.00	0.00
21	117.00 1900 MI		3	7.794	8.573	0.50	0.75	5.42	307.21	0.000	0.000	46.47	0.00	0.00
22	98.00 KRY 11		3	7.511	8.262	0.50	0.75	1.57	77.67	0.000	0.000	12.97	0.00	0.00
23	98.00 RRUS 4		3	7.511	8.262	0.50	0.75	2.97	216.26	0.000	0.000	24.53	0.00	0.00
24	98.00 4449 B7		3	7.511	8.262	0.50	0.75	2.99	371.14	0.000	0.000	24.66	0.00	0.00
25	98.00 Air 32		4	7.511	8.262	0.65	0.75	18.97	1075.51	0.000	0.000	156.69	0.00	0.00
26		WV-16DWV-S-E-	3	7.511	8.262	0.46	0.75	9.98	388.09	0.000	0.000	82.47	0.00	0.00
27	98.00 KRY 11		3	7.511	8.262	0.50	0.75	1.08	54.39	0.000	0.000	8.89	0.00	0.00
28	98.00 AIR 644		3	7.511	8.262	0.52	0.75	11.35	774.85	0.000	0.000	93.76	0.00	0.00
29		ARR24 43-U-NA2	3	7.511	8.262	0.52	0.75	33.77	1226.21	0.000	0.000	278.99	0.00	0.00
30		orm w/ Handrail	1	7.511	8.262	1.00	1.00	66.54	3788.83	0.000	0.000	549.74	0.00	0.00
31		g MT6407-77A	3	7.310	8.040	0.53	0.75	8.42	472.93	0.000	0.000	67.69	0.00	0.00
32	86.00 Low Pro	•	1	7.310	8.040	1.00	1.00	33.15	2326.35	0.000	0.000	266.54	0.00	0.00
33	86.00 Antel	2	3	7.310	8.040	0.67	0.75	11.08	174.94	0.000	0.000	89.09	0.00	0.00
34	86.00 JMA MX	06FR0660-03	6	7.310	8.040	0.66	0.75	42.43	941.23	0.000	0.000	341.13	0.00	0.00
35	86.00 Raycap		1	7.310	8.040	0.75	0.75	3.43	85.13	0.000	0.000	27.61	0.00	0.00
36	86.00 Samsun	a B2/B66A	3	7.310	8.040	0.64	0.75	4.25	362.42	0.000	0.000	34.20	0.00	0.00
37	86.00 Samsur		3	7.310	8.040	0.59	0.75	3.95	309.37	0.000	0.000	31.78	0.00	0.00
38	86.00 HRK12		1	7.310	8.040	1.00	1.00	10.91	771.87	0.000	0.000	87.76	0.00	0.00
39		3SF0020F3V1-1	4	7.310	8.040	0.52	0.75	2.51	89.94	0.000	0.000	20.15	0.00	0.00
39	oo.uu Naeius i	JOI 00201 3V 1-1		1.010			Totals		31 973 12			4.996.25		

Totals:

31,973.12

4,996.25

### **Total Applied Force Summary**

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft)

Gh: 1.1 Code: TIA-222-H

Exposure: С

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: ||

7/7/2023

Page: 23

SBA

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

Topography: 1

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



**Iterations** 

23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	
0.00		0.00	0.00	0.00	0.00	
5.00		142.62	1719.64	0.00	0.00	
10.00		139.89	1705.35	0.00	0.00	
15.00		138.75	1684.47	0.00	0.00	
20.00		143.84	1660.44	0.00	0.00	
25.00		147.19	1634.53	0.00	0.00	
30.00		149.34	1607.35	0.00	0.00	
35.00		150.59	1579.24	0.00	0.00	
40.00		151.13	1550.42	0.00	0.00	
45.00		151.10	1521.03	0.00	0.00	
48.25		97.59	973.13	0.00	0.00	
50.00		53.06	798.10	0.00	0.00	
53.25		98.57	1464.94	0.00	0.00	
55.00		52.75	461.62	0.00	0.00	
60.00		150.77	1299.75	0.00	0.00	
65.00		149.23	1273.26	0.00	0.00	
70.00		147.42	1246.52	0.00	0.00	
75.00		145.36	1219.55	0.00	0.00	
80.00		143.07	1192.38	0.00	0.00	
85.00		140.58	1165.02	0.00	0.00	
86.00	(25) attachments	993.62	5764.34	0.00	0.00	
90.00		109.97	807.85	0.00	0.00	
95.00		135.05	984.32	0.00	0.00	
98.00	(26) attachments	1312.13	8550.95	0.00	0.00	
100.00		53.12	530.25	0.00	0.00	
101.75		46.06	458.09	0.00	0.00	
105.00		84.64	472.49	0.00	0.00	
109.00		102.35	567.41	0.00	0.00	
110.00		23.92	153.86	0.00	0.00	
115.00		120.74	770.33	0.00	0.00	
117.00	(21) attachments	1242.66	6755.72	259.02	0.00	
119.00		48.65	298.41	0.00	0.00	
120.00		24.37	169.70	0.00	0.00	
125.00		122.94	849.45	0.00	0.00	
128.00	(35) attachments	1667.86	12502.13	0.00	0.00	
130.00		49.60	334.15	0.00	0.00	
134.00	(1) attachments	109.53	695.31	0.00	0.00	
	Totals:	8,740.06	66,421.50	259.02	0.00	

# Linear Appurtenance Segment Forces (Factored)

**Structure**: CT13070-A-01 **Code**: TIA-222-H 7/7/2023

Site Name:Waterbury 4, CTExposure:CHeight:134.00 (ft)Crest Height:0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Gh: 1.1 Topography: 1 Struct Class: II Page: 24

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

Dead Load Factor 1.20 Wind Load Factor 1.00



Iterations

SBA

23

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 (Ib)
	Cafat: Cabla	Yes	5.00	0.000	0.38	0.86	0.00	0.020	0.000	5.055	0.00	7.27
5.00	Safety Cable	Yes	5.00	0.000	0.63	0.97	0.00	0.020	0.000	5.055	0.00	12.80
5.00	Step bolts (ladder) Safety Cable	Yes	5.00	0.000	0.38	0.90	0.00	0.021	0.000	5.055	0.00	7.91
10.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.01	0.00	0.021	0.000	5.055	0.00	13.48
10.00 15.00	Safety Cable	Yes	5.00	0.000	0.38	0.93	0.00	0.021	0.000	5.118	0.00	8.34
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.04	0.00	0.021	0.000	5.118	0.00	13.95
	Safety Cable	Yes	5.00	0.000	0.38	0.95	0.00	0.022	0.000	5.419	0.00	8.67
20.00 20.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.06	0.00	0.022	0.000	5.419	0.00	14.31
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.97	0.00	0.022	0.000	5.668	0.00	8.94
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.08	0.00	0.022	0.000	5.668	0.00	14.60
	Safety Cable	Yes	5.00	0.000	0.38	0.99	0.00	0.023	0.000	5.882	0.00	9.18
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.09	0.00	0.023	0.000	5.882	0.00	14.85
30.00	•	Yes	5.00	0.000	0.38	1.00	0.00	0.023	0.000	6.070	0.00	9.38
35.00	Safety Cable	Yes	5.00	0.000	0.63	1.10	0.00	0.023	0.000	6.070	0.00	15.07
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.01	0.00	0.024	0.000	6.239	0.00	9.57
40.00	Safety Cable	Yes	5.00	0.000	0.63	1.11	0.00	0.024	0.000	6.239	0.00	15.27
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.02	0.00	0.025	0.000	6.392	0.00	9.73
45.00	Safety Cable	Yes	5.00	0.000	0.63	1.12	0.00	0.025	0.000	6.392	0.00	15.44
45.00	Step bolts (ladder)	Yes	3.25	0.000	0.38	0.67	0.00	0.025	0.000	6.484	0.00	6.39
48.25	Safety Cable	Yes	3.25	0.000	0.63	0.73	0.00	0.025	0.000	6.484	0.00	10.11
48.25	Step bolts (ladder)	Yes	1.75	0.000	0.38	0.36	0.00	0.026	0.000	6.532	0.00	3.46
50.00	Safety Cable	Yes	1.75	0.000	0.63	0.40	0.00	0.026	0.000	6.532	0.00	5.46
50.00	Step bolts (ladder)	Yes	3.25	0.000	0.38	0.67	0.00	0.026	0.000	6.618	0.00	6.48
53.25	Safety Cable	Yes	3.25	0.000	0.63	0.74	0.00	0.026	0.000	6.618	0.00	10.21
53.25	Step bolts (ladder)	Yes	1.75	0.000	0.38	0.36	0.00	0.026	0.000	6.662	0.00	3.51
55.00	Safety Cable	Yes	1.75	0.000	0.63	0.40	0.00	0.026	0.000	6.662	0.00	5.51
55.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.04	0.00	0.026	0.000	6.783	0.00	10.15
60.00	Safety Cable	Yes	5.00	0.000	0.63	1.15	0.00	0.026	0.000	6.783	0.00	15.89
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.05	0.00	0.027	0.000	6.897	0.00	10.28
65.00	Safety Cable	Yes	5.00	0.000	0.63	1.16	0.00	0.027	0.000	6.897	0.00	16.03
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.06	0.00	0.028	0.000	7.003	0.00	10.39
70.00	Safety Cable	Yes	5.00	0.000	0.63	1.16	0.00	0.028	0.000	7.003	0.00	16.15
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.06	0.00	0.029	0.000	7.104	0.00	10.50
75.00	Safety Cable	Yes	5.00	0.000	0.63	1.17	0.00	0.029	0.000	7.104	0.00	16.26
75.00	Step bolts (ladder)		5.00	0.000	0.38	1.07	0.00	0.030	0.000	7.200	0.00	10.60
80.00	Safety Cable	Yes Yes	5.00	0.000	0.63	1.17	0.00	0.030	0.000	7.200	0.00	16.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	1.08	0.00	0.031	0.000	7.292	0.00	10.70
85.00	Safety Cable	Yes	5.00	0.000	0.63	1.18	0.00	0.031	0.000	7.292	0.00	16.48
85.00	Step bolts (ladder)		1.00	0.000	0.38	0.22	0.00	0.031	0.000	7.310	0.00	2.14
86.00	Safety Cable	Yes	1.00	0.000	0.63	0.24	0.00	0.031	0.000	7.310	0.00	3.30
	Step bolts (ladder)	Yes	4.00	0.000	0.38	0.86	0.00	0.032	0.000	7.379	0.00	8.63
	Safety Cable	Yes	4.00	0.000	0.63	0.95	0.00	0.032	0.000	7.379	0.00	13.26
90.00		Yes	5.00	0.000	0.38	1.09	0.00	0.033	0.000	7.463	0.00	10.88
95.00	•	Yes	5.00	0.000	0.63	1.19	0.00	0.033	0.000	7.463	0.00	16.67
95.00	•	Yes	3.00	0.000	0.38	0.65	0.00	0.034	0.000	7.511	0.00	6.56
98.00	*	Yes	3.00	0.000	0.63	0.72	0.00	0.034	0.000	7.511	0.00	10.04
98.00	Step bolts (ladder)	Yes Yes	2.00	0.000	0.38	0.44	0.00	0.035	0.000	7.543	0.00	4.39
100.00	Safety Cable		z.00 vriaht © 2023									

# Linear Appurtenance Segment Forces (Factored)

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft)

**Gh:** 1.1

Code: TIA-222-H

Exposure: C

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

SBA

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

Topography: 1

Dead Load Factor 1.20 Wind Load Factor 1.00



7/7/2023

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Iterations 23

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)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.035	0.000	7.543	0.00	6.70
101.75	Safety Cable	Yes	1.75	0.000	0.38	0.38	0.00	0.035	0.000	7.570	0.00	3.85
101.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.42	0.00	0.035	0.000	7.570	0.00	5.88
105.00	Safety Cable	Yes	3.25	0.000	0.38	0.71	0.00	0.035	0.000	7.620	0.00	7.18
105.00	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.78	0.00	0.035	0.000	7.620	0.00	10.95
109.00	Safety Cable	Yes	4.00	0.000	0.38	0.88	0.00	0.036	0.000	7.680	0.00	8.89
109.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.96	0.00	0.036	0.000	7.680	0.00	13.53
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.039	0.000	7.694	0.00	2.23
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.039	0.000	7.694	0.00	3.39
115.00	Safety Cable	Yes	5.00	0.000	0.38	1.10	0.00	0.039	0.000	7.766	0.00	11.21
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.21	0.00	0.039	0.000	7.766	0.00	17.01
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.039	0.000	7.794	0.00	4.49
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.039	0.000	7.794	0.00	6.82
119.00	Safety Cable	Yes	2.00	0.000	0.38	0.44	0.00	0.039	0.000	7.822	0.00	4.51
119.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.48	0.00	0.039	0.000	7.822	0.00	6.83
120.00	Safety Cable	Yes	1.00	0.000	0.38	0.22	0.00	0.039	0.000	7.835	0.00	2.26
120.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.24	0.00	0.039	0.000	7.835	0.00	3.42
125.00	Safety Cable	Yes	5.00	0.000	0.38	1.11	0.00	0.039	0.000	7.902	0.00	11.35
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	1.22	0.00	0.039	0.000	7.902	0.00	17,17
128.00	Safety Cable	Yes	3.00	0.000	0.38	0.67	0.00	0.039	0.000	7.942	0.00	6.83
128.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.73	0.00	0.039	0.000	7.942	0.00	10.33
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.45	0.00	0.039	0.000	7.967	0.00	4.57
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.49	0.00	0.039	0.000	7.967	0.00	6.90
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.89	0.00	0.039	0.000	8.018	0.00	9.18
134.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.98	0.00	0.039	0.000	8.018	0.00	13.84
									Tot	tals:	0.0	694.9

## **Calculated Forces**

**Structure**: CT13070-A-01 **Code**: TIA-222-H 7/7/2023

Site Name: Waterbury 4, CT
Height: 134.00 (ft)

Exposure: C
Crest Height: 0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Topography: 1 Struct Class: II

SBA 🕖

23

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

Dead Load Factor 1.20 Wind Load Factor 1.00

1.1

Gh:



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Seg	Pu	Vu	Tu	Mu MZ	Mu MX	Resultant Moment	phi Pn	phi Vn	phi Tn	phi Mn	Total Deflect	Rotation Sway	Rotation Twist	Stress
Elev (ft)	FY (-) (kips)	FX (-) (kips)	MY (-) (ft-kips)		(ft-kips)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	(deg)	Ratio
0.00	-66.42	-8.78	-0,26	-869.52	0.00	869.52	3976.93	1023.83	4163.63	4011.62	0.00	0.000	0.000	0.234
5.00	-64.69	-8.71	-0.26	-825.63	0.00	825.63	3920.48	1001.47	3983.76	3867.66	0.04	-0.068	0.000	0.230
10.00	-62.97	-8.65	-0.26	-782.06	0.00	782.06	3862.67	979.11	3807.86	3724.90	0.14	-0.137	0.000	0.226
15.00	-61.28	-8.58	-0.26	-738.83	0.00	738.83	3803.51	956.76	3635.94	3583.42	0.33	-0.207	0.000	0.222
20.00	-59.61	-8.50	-0.26	-695.94	0.00	695.94	3742.99	934.40	3467.98	3443.32	0.58	-0.278	0.000	0.218
25.00	-57.96	-8.42	-0.26	-653.43	0.00	653.43	3681.11	912.04	3304.00	3304.69	0.91	-0.349	0.000	0.214
30.00	-56.34	-8.33	-0.26	-611.35	0.00	611.35	3617.88	889.68	3143.99	3167.62	1.31	-0.421	0.000	0.209
35.00	-54.76	-8.23	-0.26	-569.71	0.00	569.71	3553.28	867.32	2987.95	3032.20	1.79	-0.493	0.000	0.203
40.00	-53.20	-8.14	-0.26	-528.54	0.00	528.54	3487.33	844.96	2835.88	2898.52	2.35	-0.566	0.000	0.198
45.00	-51.67	-8.02	-0.26	-487.86	0.00	487.86	3420.03	822.60	2687.78	2766.66	2.98	-0.638	0.000	0.192
48.25	-50.69	-7.95	-0.26	-461.78	0.00	461.78	3375.55	808.07	2593.65	2681.98	3.43	-0.686	0.000	0.187
50.00	-49.89	-7.92	-0.26	-447.88	0.00	447.88	3351.36	800.24	2543.66	2636.73	3.69	-0.712	0.000	0.185
53.25	-48.42	-7.83	-0.26	-422.15	0.00	422.15	2647.50	666.72	2118.80	2085.88	4.19	-0.760	0.000	0.221
55.00	-47.95	-7.82	-0.26	-408.45	0.00	408.45	2630.02	660.20	2077.55	2051.68	4.47	-0.785	0.000	0.217
60.00	-46.65	-7.71	-0.26	-369.37	0.00	369.37	2579.17	641.57	1961.94	1954.76	5.34	-0.866	0.000	0.207
65.00	-45.36	-7.60	-0.26	-330.81	0.00	330.81	2526.96	622.94	1849.64	1859.10	6.29	-0.946	0.000	0.196
70.00	-44.11	-7.49	-0.26	-292.79	0.00	292.79	2473.39	604.31	1740.65	1764.79	7.32	-1.023	-0.001	0.184
75.00	-42.88	-7.38	-0.26	-255.32	0.00	255.32	2418.47	585.67	1634.96	1671.92	8.43	-1.097	-0.001	0.171
80.00	-41.69	-7.26	-0.26	-218.42	0.00	218.42	2362.18	567.04	1532.59	1580.58	9.62	-1.168	-0.001	0.156
85.00	-40.52	-7.13	-0.26	-182.10	0.00	182.10	2304.54	548.41	1433.52	1490.86	10.88	-1.234	-0.001	0.140
86.00	-34.78	-6.03	-0.26	-174.97	0.00	174.97	2292.85	544.68	1414.11	1473.12	11.14	-1.247	-0.001	0.134 0.123
90.00	-33.96	-5.93	-0.26	-150.87	-0.01	150.87	2242.72	529.78	1337.77	1401.09	12.21	-1.295	-0.001	0.123
95.00	-32.98	-5.80	-0.26	-121.22	-0.01	121.22	2163.84	511.14	1245.33	1303.79	13.59	-1.350	-0.001	0.106
98.00	-24.46	-4.29	-0.26	-103.84	-0.01	103.84	2116.52	499.96	1191.45	1247.09	14.45	-1.380	-0.001	0.095
100.00	-23.93	-4.23	-0.26	-95.26	-0.01	95.26	2084.97	492.51	1156.19	1209.99	15.03	-1.399	-0.001 -0.001	0.090
101.75	-23.47	-4.18	-0.26	-87.85	-0.01	87.85	1611.41	396.63	937.27	943.49	15.55	-1.415	-0.001	0.108
105.00	-23.00	-4.10	-0.26	-74.25	-0.01	74.25	1583.50	386.94	892.04	904.30	16.52	-1.443	-0.001	0.082
109.00	-22.43	-3.99	-0.26	-57.85	-0.01	57.85	1548.36	375.01	837.91	856.74	17.75	-1.478	-0.001	0.002
109.00	-22.43	-3.99	-0.26	-57.85	-0.01	57.85	933.38	285.53	41725.7	590.00	17.75	-1.478	-0.001	0.122
110.00	-22.28	-3.97	-0.26	-53.86	-0.01	53.86	933.38	285.53	41725.7	590.00	18.06	-1.486	-0.001	0.081
115.00	-21.51	-3.84	-0.26	-34.00	-0.01	34.00	933.38	285.53	41725.7	590.00	19.63	-1.516		0.061
117.00	-14.79	-2.42	0.00	-26.33	0.00	26.33	933.38	285.53	41725.7	590.00	20.27	-1.524	-0.002	0.052
119.00	-14.49	-2.36	0.00	-21.49	0.00	21.49	933.38	285.53	41725.7	590.00	20.91	-1.530	-0.002	0.052
119.00	-14.49	-2.36	0.00	-21.49	0.00	21.49	950.95	285.28	54712.4	624.60	20.91	-1.530	-0.002	0.036
120.00	-14.32	-2.34	0.00	-19.13	0.00	19.13	950.95	285.28	54712.4	624.60	21.23	-1.533	-0.002	0.046
125.00	-13.48	-2.19	0.00	-7.46	0.00	7.46	950.95	285.28	54712.4	624.60	22.84	-1.541	-0.002	0.020
128.00	-1.02	-0.19	0.00	-0.89	0.00	0.89	950.95	285.28	54712.4	624.60	23.81	-1.542	-0.002	0.002
130.00	-0.69	-0.13	0.00	-0.51	0.00	0.51	950.95	285.28	54712.4	624.60	24.45	-1.543	-0.002	0.002
134.00	0.00	-0.11	0.00	0.00	0.00	0.00	950.95	285.28	54712.4	624.60	25.74	-1.543	-0.002	0.000

### Seismic Segment Forces (Factored)

Structure: CT13070-A-01

Code:

TIA-222-H

Site Name: Waterbury 4, CT

Exposure:

7/7/2023

Height:

134.00 (ft)

Crest Height: 0.00

SBA

Base Elev: 1.000 (ft)

Site Class: D - Stiff Soil

С

Gh:

1.1

**Gust Response Factor** 

Topography: 1

Struct Class: ||

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Load Case: 1.2D + 1.0Ev + 1.0Eh

Sds 0.21 **Iterations** 21 Ss 0.19

**Dead Load Factor** 

1.20 Seismic Load Factor

Sd1 0.09 1.00

**S1** 0.05

Wind Load Factor

0.00 Structure Frequency (f1)

0.33

SA 0.03 Seismic Importance Factor 1.00

Top Elev (ft)	Description		Wz (lb)	Hz (lb)	Vertical Ev (lb)	Lateral Fs (lb)		R:	1.50
0.00			0.00	0.00	0.00	0.00			
5.00			1254.0	2.50	51.90	0.01			
10.00			1232.3	7.50	51.00	0.05			
15.00			1210.6	12.50	50.11	0.15			
20.00		9	1188.9	17.50	49.21	0.28			
25.00			1167.3	22.50	48.31	0.44			
30.00			1145.6	27.50	47.41	0.64			
35.00			1123.9	32.50	46.52	0.86			
40.00			1102.2	37.50	45.62	1.10			
45.00			1080.6	42.50	44.72	1.35			
48.25	Bot - Section 2		690.77	46.63	28.59	0.66			
50.00			599.60	49.13	24.82	0.56			
53.25	Top - Section 1		1100.6	51.63	45.55	2.07			
55.00			320.42	54.13	13.26	0.19			
60.00			903.30	57.50	37.38	1.73			
65.00	1		885.24	62.50	36.64	1.96			
70.00			867.18	67.50	35.89	2.20			
75.00			849.11	72.50	35.14	2.43			
80.00			831.05	77.50	34.39	2.66			
85.00			812.99	82.50	33.65	2.88			
86.00	Appurtenance(s)		3154.9	85.50	130.57	46.64			
90.00			534.08	88.00	22.10	1.42			
95.00			651.34	92.50	26.96	2.33			
98.00	Bot - Section 3		4692.8	96.50	194.22	131.44			
00.00			368.60	99.00	15.26	0.85			
01.75	Top - Section 2		318.26	100.88	13.17	0.66			
05.00			278.06	103.38	11.51	0.53			
09.00	Top - Section 3		333.84	107.00	13.82	0.82			
10.00			95.27	109.50	3.94	0.07			
15.00			476.36	112.50	19.71	1.84			
17.00	Appurtenance(s)		4008.4	116.00	165.90	138.57			
19.00	Top - Section 4		180.51	118.00	7.47	0.29			
20.00			107.30	119.50	4.44	0.11			
25.00			536.51	122.50	22.20	2.77			
28.00	Appurtenance(s)		5597.3	126.50	231.66	321.34			
30.00			208.60	129.00	8.63	0.46			
34.00	Appurtenance(s)		423.70	132.00	17.54	2.00			
		Totals:	40,332.2		1,669.2	674.3	Total Wind: 3	2,853.9	-

# **Calculated Forces**

**Structure**: CT13070-A-01 **Code**: TIA-222-H 7/7/2023

Site Name: Waterbury 4, CT Exposure: C
Height: 134.00 (ft) Crest Height: 0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Gh: 1.1 Topography: 1 Struct Class: II Page: 28



**Iterations** 21 Load Case: 1.2D + 1.0Ev + 1.0Eh 0.19 Ss 0.21 Sds **Gust Response Factor S1** 0.05 0.09 1.20 Seismic Load Factor 1.00 Sd1 **Dead Load Factor** 1.00 0.03 Seismic Importance Factor 0.00 Structure Frequency (f1) 0.33 SA **Wind Load Factor** 

	AAIIII	u Loac						-hi	nhi	phi	Total	Rotation	Rotation	
Seg	Pu	Vu	Tu	Mu	Mu	Resultant Moment	phi Pn	phi Vπ	phi Tn	Mn	Deflect	Sway	Twist	Stress
Elev	FY (-)	FX (-)	MY (-)	MZ (ft-kips)	(ft.kins)	(ft-kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(in)	(deg)	(deg)	Ratio
(ft)	(kips)		(ft-kips) 0.00	-82.00	0.00	82.00	3976.93	1023.83	4163.63	4011.62		0.00	0.00	0.033
0.00	-49.01	-0.68 -0.68	0.00	-78.62	0.00	78.62	3920.48	1001.47	3983.76	3867.66		0.00	-0.01	0.032
5.00	-47.51 -46.03	-0.69	0.00	-75.21	0.00	75.21	3862.67	979.11	3807.86	3724.90		0.01	-0.01	0.032
10.00	-46.03 -44.59	-0.69	0.00	-71.77	0.00	71.77	3803.51	956.76	3635.94	3583.42		0.03	-0.02	0.032
15.00	-44.59 -43.16	-0.70	0.00	-68.31	0.00	68.31	3742.99	934.40	3467.98	3443.32		0.06	-0.03	0.031
20.00	-43.16 -41.77	-0.70	0.00	-64.83	0.00	64.83	3681.11	912.04	3304.00	3304.69		0.09	-0.03	0.031
25.00	-41.77 -40.40	-0.70	0.00	-61.33	0.00	61.33	3617.88	889.68	3143.99	3167.62		0.13	-0.04	0.031
30.00		-0.70	0.00	-57.82	0.00	57.82	3553.28	867.32	2987.95	3032.20		0.17	-0.05	0.030
35.00	-39.06		0.00	-54.28	0.00	54.28	3487.33	844.96	2835.88	2898.52		0.23	-0.06	0.030
40.00	-37.75	-0.71 -0.71	0.00	-50.74	0.00	50.74	3420.03	822.60	2687.78	2766.66		0.29	-0.06	0.029
45.00	-36.46		0.00	-48.43	0.00	48.43	3375.55	808.07	2593.65	2681.98		0.33	-0.07	0.029
48.25	-35.64	-0.71	0.00	-47.18	0.00	47.18	3351.36	800.24	2543.66	2636.73		0.36	-0.07	0.028
50.00	-34.91	-0.71	0.00	-44.87	0.00	44.87	2647.50	666.72	2118.80	2085.88		0.41	-0.08	0.034
53.25	-33.58	-0.71	0.00	-43.62	0.00	43.62	2630.02	660.20	2077.55	2051.68		0.44	-0.08	0.034
55.00	-33.20	-0.71		-43.02 -40.05	0.00	40.05	2579.17	641.57	1961.94	1954.76		0.53	-0.09	0.033
60.00	-32.14	-0.72	-	-36.48	0.00	36.48	2526.96	622.94	1849.64	1859.10		0.62	-0.10	0.032
65.00	-31.09	-0.72		-32.90	0.00	32.90	2473.39	604.31	1740.65	1764.79		0.73	-0.10	0.031
70.00	-30.07	-0.72		-32.90 -29.31	0.00	29.31	2418.47	585.67	1634.96	1671.92		0.84	-0.11	0.030
75.00	-29.07	-0.72		-25.73	0.00	25.73	2362.18	567.04	1532.59	1580.58		0.96	-0.12	0.028
80.00	-28.09	-0.72		-23.73 -22.15		22.15	2304.54	548.41	1433.52	1490.86		1.09	-0.13	0.027
85.00	-27.14	-0.71	0.00	-22.13 -21.44		21.44	2292.85	544.68	1414.11	1473.12		1.12	-0.13	0.025
86.00	-23.23	-0.66		-21. <del>44</del> -18.80		18.80	2242.72	529.78	1337.77	1401.09		1.23	-0.14	0.023
90.00	-22.59	-0.66			0.00	15.51	2163.84	511.14	1245.33	1303.79		1.38	-0.14	0.022
95.00	-21.81	-0.66		-15.51		13.54	2116.52	499.96	1191.45	1247.09		1.47	-0.15	0.018
98.00	-16.01	-0.51	0.00	-13.54		12.52	2084.97	492.51	1156.19	1209.99		1.53	-0.15	0.018
100.00	-15.55	-0.51	0.00	-12.52		11.62	1611.41	396.63	937.27	943.49		1.59	-0.15	0.022
101.75	-15.16	-0.51	0.00	-11.62		9.97	1583.50	386.94	892.04	904.30		1.70	-0.16	0.020
105.00	-14.82	-0.51	0.00			7.93	1548.36	375.01	837.91	856.74		1.83	-0.16	0.019
109.00	-14.41	-0.51				7.93	933.38	285.53	41725.7	590.00		1.83	-0.16	0.029
109.00	-14.41	-0.51				7.42	933.38	285.53	41725.7	590.00		1.86	-0.16	0.028
110.00	-14.30	-0.51				4.89	933.38	285.53	41725.7	590.00		2.03	-0.17	0.023
115.00	-13.72	-0.51				3.87	933.38	285.53		590.00		2.10	-0.17	0.016
117.00	-8.74	-0.35				3.17	933.38	285.53	41725.7	590.00		2.17	-0.17	0.015
119.00	-8.52	-0.35				3.17	950.95	285.28	54712.4	624.60		2.17	-0.17	0.014
119.00	-8.52	-0.35				2.82	950.95	285.28	54712.4	624.60		2.21	-0.17	0.013
120.00	-8.39	-0.35					950.95	285.28	54712.4	624.60		2.39	-0.17	0.010
125.00	-7.73	-0.35				1.06	950.95	285.28	54712.4	624.60		2.49	-0.17	0.001
128.00	-0.78	0.00				0.02	950.95	285.28	54712.4	624.60		2.56	-0.17	0.001
130.00	-0.52	0.00				0.01	950.95	285.28	54712.4	624.60		2.71	-0.17	0.000
134.00	0.00	0.00	0.00	0.00	0.00	0.00	950.95	200.20	J41 12.4	0 <u>2</u> ∓.00				

# Seismic Segment Forces (Factored)

Structure: CT13070-A-01

Code:

TIA-222-H

С

7/7/2023

Site Name: Waterbury 4, CT

Exposure:

Height: Base Elev: 1.000 (ft)

134.00 (ft)

Crest Height: 0.00

SBA

Gh:

1.1

Topography: 1

Site Class: D - Stiff Soil Struct Class: ||

Page: 29

Load Case: 0.9D + 1.0Ev + 1.0Eh

**Gust Response Factor** 

Sds 0.21 **Iterations** 21 Ss 0.19

**Dead Load Factor** 

0.33

**S1** 

0.90 Seismic Load Factor

0.09 1.00 Sd1

0.05

**Wind Load Factor** 

0.00 Structure Frequency (f1)

SA 0.03 Seismic Importance Factor 1.00

Top Elev					Vertical	Lateral			.00
(ft)	Description		Wz (lb)	Hz (lb)	Ev (lb)	Fs (lb)		R: 1	.50
0.00			0.00	0.00	0.00	0.00			_
5.00			1185.9	2.50	49.08	0.01			
10.00			1164.2	7.50	48.19	0.05			
15.00			1142.5	12.50	47.29	0.13			
20.00			1120.9	17.50	46.39	0.25			
25.00			1099.2	22.50	45.49	0.40			
30.00			1077.5	27.50	44.60	0.57			
35.00			1055.8	32.50	43.70	0.76			
40.00			1034.2	37.50	42.80	0.97			
45.00			1012.5	42.50	41.91	1.20			
48.25	Bot - Section 2		646.52	46.63	26.76	0.59			
50.00			575.78	49.13	23.83	0.52			
53.25	Top - Section 1		1056.3	51.63	43.72	1.92			
55.00			296.60	54.13	12.28	0.17			
60.00			835.23	57.50	34.57	1.49			
65.00			817.16	62.50	33.82	1.69			
70.00			799.10	67.50	33.07	1.88			
75.00			781.04	72.50	32.32	2.07			
80.00			762.97	77.50	31.58	2.26			
85.00			744.91	82.50	30.83	2.44			
86.00	Appurtenance(s)		3141.3	85.50	130.01	46.66			
90.00			504.72	88.00	20.89	1.28			
95.00			614.64	92.50	25.44	2.09			
98.00	Bot - Section 3		4670.8	96.50	193.31	131.40			
100.00			363.81	99.00	15.06	0.84			
101.75	Top - Section 2		314.06	100.88	13.00	0.65			
105.00			270.26	103.38	11.19	0.50			
109.00	Top - Section 3		324.25	107.00	13.42	0.78			
110.00			92.87	109.50	3.84	0.07			
115.00			464.37	112.50	19.22	1.77			
117.00	Appurtenance(s)		4003.6	116.00	165.70	139.50			
119.00	Top - Section 4		178.22	118.00	7.38	0.29			
120.00			106.16	119.50	4.39	0.10			
125.00			530.79	122.50	21.97	2.73			
128.00	Appurtenance(s)		5593.9	126.50	231.52	323.86			
130.00			207.81	129.00	8.60	0.46			
134.00	Appurtenance(s)		422.13	132.00	17.47	2.01			
		Totals:	39,012.8		1,614.6	674.3	Total Wind:	32,853.9	

### **Calculated Forces**

**Structure**: CT13070-A-01 **Code**: TIA-222-H 7/7/2023

Site Name: Waterbury 4, CT Exposure: C
Height: 134.00 (ft) Crest Height: 0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Gh: 1.1 Topography: 1 Struct Class: II Page: 30



Iterations 21 Load Case: 0.9D + 1.0Ev + 1.0Eh Ss 0.19 Sds 0.21 **Gust Response Factor \$1** 0.05 0.09 0.90 Seismic Load Factor Sd1 1.00 **Dead Load Factor** 1.00 0.03 Seismic Importance Factor 0.33 SA 0.00 Structure Frequency (f1) Wind Load Factor

	WIN	u Loac	racto	0.0	Calde	ure i requeri	-) ()							
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)	Sway (deg)	Rotation Twist (deg)	Stress Ratio
0.00	-37.12	-0.68	0.00	-80.96	0.00	80.96	3976.93	1023.83	4163.63	4011.62		0.00	0.00	0.030
5.00	-35.98	-0.68	0.00	-77.58	0.00	77.58	3920.48	1001.47	3983.76	3867.66		0.00	-0.01	0.029
10.00	-34.87	-0.68	0.00	-74.18	0.00	74.18	3862.67	979.11	3807.86	3724.90		0.01	-0.01	0.029
15.00	-33.77	-0.69	0.00	-70.76	0.00	70.76	3803.51	956.76	3635.94	3583.42		0.03	-0.02	0.029
20.00	-32.70	-0.69	0.00	-67.33	0.00	67.33	3742.99	934.40	3467.98	3443.32		0.05	-0.03	0.028
25.00	-31.64	-0.69	0.00	-63.88	0.00	63.88	3681.11	912.04	3304.00	3304.69		0.09	-0.03	0.028
30.00	-30.61	-0.70	0.00	-60.41	0.00	60.41	3617.88	889.68	3143.99	3167.62		0.12	-0.04	0.028
35.00	-29.59	-0.70	0.00	-56.93	0.00	56.93	3553.28	867.32	2987.95	3032.20		0.17	-0.05	0.027
40.00	-28.60	-0.70	0.00	-53.44	0.00	53.44	3487.33	844.96	2835.88	2898.52		0.22	-0.05	0.027
45.00	-27.62	-0.70	0.00	-49.94	0.00	49.94	3420.03	822.60	2687.78	2766.66		0.29	-0.06	0.026
48.25	-27.00	-0.70	0.00	-47.66	0.00	47.66	3375.55	808.07	2593.65	2681.98		0.33	-0.07	0.026
50.00	-26.45	-0.70	0.00	-46.44	0.00	46.44	3351.36	800.24	2543.66	2636.73		0.35	-0.07	0.026
53.25	-25.45	-0.70	0.00	-44.16	0.00	44.16	2647.50	666.72	2118.80	2085.88		0.40	-0.07	0.031
55.20	-25.45	-0.70	0.00	-42.93	0.00	42.93	2630.02	660.20	2077.55	2051.68		0.43	-0.08	0.030
60.00	-24.35	-0.70	0.00	-39.42	0.00	39.42	2579.17	641.57	1961.94	1954.76		0.52	-0.09	0.030
65.00	-23.56	-0.70		-35.90	0.00	35.90	2526.96	622.94	1849.64	1859.10		0.61	-0.09	0.029
70.00	-23.30	-0.70		-32.38	0.00	32.38	2473.39	604.31	1740.65	1764.79		0.72	-0.10	0.028
75.00	-22.73	-0.70		-28.87	0.00	28.87	2418.47	585.67	1634.96	1671.92		0.83	-0.11	0.026
80.00	-21.29	-0.70	_	-25.35		25.35	2362.18	567.04	1532.59	1580.58		0.95	-0.12	0.025
85.00	-20.57	-0.70		-21.83		21.83	2304.54	548.41	1433.52	1490.86		1.08	-0.13	0.024
86.00	-17.61	-0.65		-21.13		21.13	2292.85	544.68	1414.11	1473.12		1.11	-0.13	0.022
90.00	-17.13	-0.65		-18.54	0.00	18.54	2242.72	529.78	1337.77	1401.09		1.22	-0.13	0.021
95.00	-16.54	-0.65		-15.30		15.30	2163.84	511.14	1245.33	1303.79		1.36	-0.14	0.019
98.00	-12.13	-0.50		-13.36		13.36	2116.52	499.96	1191.45	1247.09		1.45	-0.15	0.016
100.00	-11.79	-0.50		-12.35		12.35	2084.97	492.51	1156.19	1209.99		1.51	-0.15	0.016
100.00	-11.49	-0.50		-11.47		11.47	1611.41	396.63	937.27	943.49		1.57	-0.15	0.019
105.00	-11.24	-0.50		-9.84		9.84	1583.50	386.94	892.04	904.30		1.67	-0.15	0.018
109.00	-10.93	-0.50		-7.83		7.83	1548.36	375.01	837.91	856.74		1.80	-0.16	0.016
109.00	-10.93	-0.50		-7.83		7.83	933.38	285.53	41725.7	590.00		1.80	-0.16	0.025
110.00	-10.93	-0.50		-7.33		7.33	933.38	285.53	41725.7	590.00		1.83	-0.16	0.024
115.00	-10.64	-0.50		-4.83		4.83	933.38	285.53	41725.7	590.00		2.00	-0.16	0.019
117.00	-6.63	-0.35	_	-3.83		3.83	933.38	285.53	41725.7	590.00		2.07	-0.16	0.014
	-6.46	-0.35		-3.14		3.14	933.38	285.53	41725.7	590.00		2.14	-0.17	0.012
119.00		-0.35		-3.14		3.14	950.95	285.28	54712.4	624.60		2.14	-0.17	0.012
119.00	-6.46 -6.36	-0.35		-2.79		2.79	950.95	285.28	54712.4	624.60		2.18	-0.17	0.011
120.00				-1.05		1.05	950.95	285.28	54712.4	624.60		2.35	-0.17	0.008
125.00	-5.86	-0.34		-0.02		0.02	950.95	285.28	54712.4	624.60		2.46	-0.17	0.001
128.00	-0.59	0.00		-0.02		0.01	950.95	285.28	54712.4	624.60		2.53	-0.17	0.000
130.00	-0.40			0.00		0.00	950.95	285.28		624.60		2.67	-0.17	0.000
134.00	0.00	0.00	0.00	0.00	0.00	0.00	000.00							

# Wind Loading - Shaft

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Topography: 1

Height:

134.00 (ft)

Base Elev: 1.000 (ft)

Gh:

Code:

TIA-222-H

Exposure:

С

Crest Height: 0.00

D - Stiff Soil Site Class:

Struct Class: ||

7/7/2023

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SBA

Load Case: 1.0D + 1.0W 60 mph Wind

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

**Iterations** 

23

Elev (ft) Desci	ription	Kzt	Kz	qz (psf)	qzGh (psf)	C (mph-ft)	Cf	lce Thick (in)	Tributary (ft)	Aa (sf)	CfAa (sf)	Wind Force X (lb)	Dead Load Ice (Ib)	Tot Dead Load (lb)
0.00		1.00	0.85	6.513	7.16	228.65	0.730	0.000	0.00	0.000	0.00	0.0	0.0	0.0
5.00		1.00	0.85	6.513	7.16	223.70	0.730	0.000	5.00	20.670	15.09	108.1	0.0	981.7
10.00		1.00	0.85	6.513	7.16	218.74	0.730	0.000		20.217	14.76	105.7	0.0	960.0
15.00		1.00	0.86	6.594	7.25	215.10	0.730	0.000		19.764	14.43	104.6	0.0	938.4
20.00		1.00	0.91	6.982	7.68	216.22	0.730	0.000		19.312	14.10	108.3	0.0	916.7
25.00		1.00	0.95	7.303	8.03	215.89	0.730	0.000		18.859	13.77	110.6	0.0	895.0
30.00		1.00	0.99	7.579	8.34	214.57	0.730	0.000		18.406	13.44	112.0	0.0	873.3
35.00		1.00	1.02	7.821	8.60	212.55	0.730	0.000		17.953	13.11	112.8	0.0	851.7
40.00		1.00	1.05	8.038	8.84	209.97	0.730	0.000		17.500	12.77	113.0	0.0	830.0
45.00		1.00	1.07	8.235	9.06	206.96	0.730	0.000		17.047	12.44	112.7	0.0	808.3
48.25 Bot - Sectio	n 2	1.00	1.09	8.355	9.19	204.80	0.730	0.000		10.838	7.91	72.7	0.0	513.8
50.00		1.00	1.10	8.416	9.26	203.59	0.730	0.000	1.75	5.849	4.27	39.5	0.0	504.3
53.25 Top - Section	n 1	1.00	1.11	8.526	9.38	201.23	0.730	0.000		10.715	7.82	73.4	0.0	923.6
55.00		1.00	1.12	8.584	9.44	203.23	0.730	0.000	1.75	5.691	4.15	39.2	0.0	225.1
60.00		1.00	1.14	8.739	9.61	199.33	0.730	0.000		15.953	11.65	112.0	0.0	631.0
65.00		1.00	1.16	8.886	9.77	195.20	0.730	0.000		15.500	11.31	110.6	0.0	612.9
70.00		1.00	1.18	9.023	9.93	190.88	0.730	0.000		15.047	10.98	109.0	0.0	594.9
75.00		1.00	1.19	9.154	10.07	186.37	0.730	0.000		14.594	10.65	107.3	0.0	576.8
80.00		1.00	1.21	9.277	10.20	181.71	0.730	0.000		14.141	10.32	105.3	0.0	558.8
85.00		1.00	1.23	9.395	10.33	176.91	0.730	0.000		13.688	9.99	103.3	0.0	540.7
86.00 Appurtenand	ce(s)	1.00	1.23	9.418	10.36	175.93	0.730	0.000	1.00	2.683	1.96	20.3	0.0	106.0
90.00		1.00	1.24	9.507	10.46	171.98	0.730	0.000		10.552	7.70	80.6	0.0	416.7
95.00		1.00	1.25	9.615	10.58	166.93	0.730	0.000		12.783	9.33	98.7	0.0	504.6
98.00 Bot - Section	n 3	1.00	1.26	9.677	10.65	163.85	0.730	0.000	3.00	7.452	5.44	57.9	0.0	294.1
00.00		1.00	1.27	9.718	10.69	161.77	0.730	0.000	2.00	4.962	3.62	38.7	0.0	349.4
01.75 Top - Sectio	n 2	1.00	1.27	9.753	10.73	159.94	0.730	0.000	1.75	4.282	3.13	33.5	0.0	301.5
05.00		1.00	1.28	9.818	10.80	159.35	0.730	0.000	3.25	7.806	5.70	61.5	0.0	246.9
09.00 Top - Sectio	n 3	1.00	1.29	9.895	10.88	155.09	0.730	0.000	4.00	9.345	6.82	74.2	0.0	295.5
10.00		1.00	1.29	9.913	10.90	146.24	0.600	0.000	1.00	2.167	1.30	14.2	0.0	85.7
15.00		1.00	1.31	10.006	11.01	146.92	0.600	0.000	5.00	10.833	6.50	71.5	0.0	428.4
17.00 Appurtenand	e(s)	1.00	1.31	10.042	11.05	147.19	0.600	0.000	2.00	4.333	2.60	28.7	0.0	171.4
19.00 Top - Sectio	n 4	1.00		10.077	11.09	147.45	0.600	0.000	2.00	4.333	2.60	28.8	0.0	171.4
20.00		1.00		10.095	11.10	147.58	0.600	0.000	1.00	2.167	1.30	14.4	0.0	102.7
25.00		1.00		10.181	11.20	148.21	0.600	0.000		10.833	6.50	72.8	0.0	513.6
28.00 Appurtenanc	e(s)	1.00	1.34	10.232	11.26	148.57	0.600	0.000	3.00	6.500	3.90	43.9	0.0	308.2
30.00		1.00		10.265	11.29	148.82	0.600	0.000	2.00	4.333	2.60	29.4	0.0	205.5
34.00 Appurtenanc	e(s)	1.00		10.330	11.36	149.29	0.600	0.000	4.00	8.667	5.20	59.1	0.0	410.9
						,		Totals:	134.00	3.001	0.20	2,688.4	0.0	18,649.2

### Discrete Appurtenance Forces

CT13070-A-01 Structure:

TIA-222-H Code:

7/7/2023

Height:

Site Name: Waterbury 4, CT 134.00 (ft)

С Exposure: Crest Height: 0.00

SBA

Iterations

23

Base Elev: 1.000 (ft)

Site Class: D - Stiff Soil

Gh:

Topography: 1 1.1

Struct Class: II

Page: 32

Load Case: 1.0D + 1.0W 60 mph Wind

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



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		Lightning rod	1	10.330	11.363	1.00	1.00	0.38	6.50	0.000	0.000	4.32	0.00	0.00
2		B2 B66A 8843	3		11.255	0.54	0.80	2.64	216.00	0.000	0.000	29.68	0.00	0.00
3		TPA65R-BU8D	3		11.255	0.58	0.80	30.88	435.00	0.000	0.000	347.55	0.00	0.00
4		AIR 6449 N77	3		11.255	0.68	0.80	8.43	304.80	0.000	0.000	94.83	0.00	0.00
5		Cci Antennas	3	10.232	11.255	0.58	0.80	31.31	287.10	0.000	0.000	352.38	0.00	0.00
6		RRUS 4478 B14	3	10.232	11.255	0.54	0.80	2.65	178.20	0.000	0.000	29.86	0.00	0.00
7		4449 B5/B12	3	10.232	11.255	0.54	0.80	3.17	213.00	0.000	0.000	35.65	0.00	0.00
8		Radio 4415 B30	3	10.232	11.255	0.54	0.80	2.99	138.00	0.000	0.000	33.66	0.00	0.00
9		Ericsson AIR 6419 B77G	3	10.232	11.255	0.66	0.80	8.29	132.00	0.000	0.000	93.27	0.00	0.00
10		(3) SitePro	1	10.232	11.255	0.75	0.75	38.03	2999.58	0.000	0.000	427.98	0.00	0.00
11		Ericsson Radio 2012 B29	3		11.255	0.54	0.80	2.99	129.00	0.000	0.000	33.66	0.00	0.00
12		DC9-48-60-24-8C-EV	3	10.232	11.255	0.60	0.80	2.05	78.60	0.000	0.000	23.10	0.00	0.00
13		RRUS 4415 B25	3		11.255	0.54	0.80	2.64	138.00	0.000	0.000	29.68	0.00	0.00
14		DC6-48-60-18-8C-EV	1	10.232	11.255	0.60	0.80	2.87	26.20	0.000	0.000	32.28	0.00	0.00
15	. —	VHLP2.5-11	2	10.042	11.046	1.00	1.00	16.86	96.00	1.583	0.000		294.87	0.00
16		LP Platform w/ Handrail	1	10.042	11.046	1.00	1.00	46.00	2448.72	0.000	0.000	508.12	0.00	0.00
17		NNVV-65B-R4	3	10.042	11.046	0.55	0.75	20.43	254.10	0.000	0.000	225.67	0.00	0.00
18	117.00		3	10.042	11.046	0.56	0.75	7.10	311.10	0.000	0.000	78.48	0.00	0.00
19		TD-RRH8x20-25	3		11.046	0.50	0.75	6.11	210.00	0.000	0.000	67.44	0.00	0.00
20		800 MHz RRH	6	10.042	11.046	0.50	0.75	7.51	318.00	0.000	0.000	82.93	0.00	0.00
21		1900 MHz RRH	3	10.042	11.046	0.50	0.75	4.18	180.00	0.000	0.000	46.13	0.00	0.00
22		KRY 112 489/2	3	9.677	10.645	0.50	0.75	0.98	46.20	0.000	0.000	10.43	0.00	0.00
23		RRUS 4415 B25	3	9.677	10.645	0.50	0.75	2.47	138.00	0.000	0.000	26.32	0.00	0.00
24		4449 B71+ B85	3	9.677	10.645	0.50	0.75	2.49	210.00	0.000	0.000	26.48	0.00	0.00
25		Air 32	4	9.677	10.645	0.65	0.75	16.99	528.80	0.000	0.000	180.87	0.00	0.00
26		APX16DWV-16DWV-S-E-	3	9.677	10.645	0.46	0.75	9.01	122.10	0.000	0.000	95.93	0.00	0.00
27		KRY 112 144/1	3	9.677	10.645	0.50	0.75	0.62	33.06	0.000	0.000	6.58	0.00	0.00
28		AIR 6449 B41	3	9.677	10.645	0.52	0.75	10.28	399.60	0.000	0.000	109.48	0.00	0.00
29		APXVAARR24_43-U-NA2	3	9.677	10.645	0.52	0.75	31.88	384.00	0.000	0.000	339.35	0.00	0.00
30		LP Platform w/ Handrail	1	9.677	10.645	1.00	1.00	46.00	2449.00	0.000	0.000	489.68	0.00	0.00
31		Samsung MT6407-77A	3	9.418	10.360	0.52	0.75	7.40	261.30	0.000	0.000	76.69	0.00	0.00
32		Low Profile	1		10.360	1.00	1.00	22.00	1500.00	0.000	0.000	227.91	0.00	0.00
33	86.00		3		10.360	0.66	0.75	9.48	45.00	0.000	0.000	98.25	0.00	0.00
34		JMA MX06FR0660-03	6		10.360	0.65	0.75	38.64	360.00	0.000	0.000	400.30	0.00	0.00
35		Raycap	1	9.418	10.360	0.75	0.75	3.04	32.00	0.000	0.000	31.54	0.00	0.00
36		Samsung B2/B66A	3		10.360	0.62	0.75	3.51	253.20	0.000	0.000	36.37	0.00	0.00
37		Samsung B5/B13	3	9.418	10.360	0.58	0.75	3.26	210.90	0.000	0.000	33.74	0.00	0.00
38		HRK12 (Handrail Kit)	1		10.360	1.00	1.00	6.75	261.72	0.000	0.000	69.93	0.00	0.00
39		Kaelus BSF0020F3V1-1	4		10.360	0.49	0.75	1.87	70.40	0.000	0.000	19.39	0.00	0.00

Totals:

16,405.18

5,042.15

# Total Applied Force Summary

Exposure:

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

Gh:

134.00 (ft)

Base Elev: 1.000 (ft)

1.1

Topography: 1

Code:

TIA-222-H

С

Crest Height: 0.00

Site Class: D - Stiff Soil

Struct Class: II

7/7/2023

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SBA

Load Case: 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 

1.00

**Wind Load Factor** 

1.00

**Iterations** 

23

Elev (ft)	Description	Lateral FX (-) (lb)	Axial FY (-) (lb)	Torsion MY (lb-ft)	Moment MZ (lb-ft)	
0.00		0.00	0.00	0.00	0.00	
5.00		108,11	1208.63	0.00	0.00	
10.00		105.74	1186.96	0.00	0.00	
15.00		104.65	1165.28	0.00	0.00	
20.00		108.27	1143.61	0.00	0.00	
25.00		110.60	1121.93	0.00	0.00	
30.00		112.01	1100.25	0.00	0.00	
35.00		112.75	1078.58	0.00	0.00	
40.00		112.96	1056.90	0.00	0.00	
45.00		112.73	1035.23	0.00	0.00	
48.25		72.71	661.27	0.00	0.00	
50.00		39.53	583.72	0.00	0.00	
53.25		73.36	1071.13	0.00	0.00	
55.00		39.22	304.54	0.00	0.00	
60.00		111.95	857.92	0.00	0.00	
65.00		110.60	839.86	0.00	0.00	
70.00		109.03	821.79	0.00	0.00	
75.00		107.27	803.73	0.00	0.00	
80.00		105.35	785.67	0.00	0.00	
85.00		103.27	767.60	0.00	0.00	· ·
86.00	(25) attachments	1014.42	3145.87	0.00	0.00	
90.00		80.56	514.51	0.00	0.00	
95.00		98.69	626.88	0.00	0.00	
98.00	(26) attachments	1343.03	4678.22	0.00	0.00	
100.00		38.72	365.40	0.00	0.00	
101.75		33.54	315.46	0.00	0.00	
105.00		61.54	272.86	0.00	0.00	
109.00		74.25	327.45	0.00	0.00	
110.00		14.18	93.67	0.00	0.00	
115.00		71.54	468.36	0.00	0.00	
117.00	(21) attachments	1223.70	4005.27	294.87	0.00	
119.00		28.82	178.98	0.00	0.00	
120.00		14.44	106.54	0.00	0.00	
125.00		72.80	532.69	0.00	0.00	
128.00	(35) attachments	1607.49	5595.10	0.00	0.00	
130.00		29.36	208.08	0.00	0.00	
134.00	(1) attachments	63.41	422.65	0.00	0.00	
	Totals:	7,730.59	39,452.59	294.87	0.00	

# Linear Appurtenance Segment Forces (Factored)

CT13070-A-01 Structure:

TIA-222-H Code:

7/7/2023

Site Name: Waterbury 4, CT

Exposure: C

Height:

134.00 (ft)

Crest Height: 0.00

Base Elev: 1.000 (ft)

D - Stiff Soil Site Class:

SBA

Gh: 1.1 Topography: 1

Struct Class: ||

Page: 34

Load Case: 1.0D + 1.0W 60 mph Wind

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



**Iterations** 

23

Тор					Exposed				Cf			Dead
Elev (ft)	Description	Wind Exposed	Length (ft)	Ca	Width (in)	Area (sqft)	CaAa (sqft)	Ra	Adjust Factor	qz (psf)	F X (lb)	Load (lb)
		Yes	5.00	0.000	0.38	0.16	0.00	0.020	0.000	6.513	0.00	1.37
5.00	Safety Cable	Yes	5.00	0.000	0.63	0.26	0.00	0.020	0.000	6.513	0.00	5.20
5.00	Step bolts (ladder)	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	6.513	0.00	1.37
10.00	Safety Cable Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	6.513	0.00	5.20
10.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.021	0.000	6.594	0.00	1.37
15.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.021	0.000	6.594	0.00	5.20
15.00		Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	6.982	0.00	1.37
20.00	Safety Cable Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	6.982	0.00	5.20
20.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.022	0.000	7.303	0.00	1.37
25.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.022	0.000	7.303	0.00	5.20
25.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	7.579	0.00	1.37
30.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	7.579	0.00	5.20
30.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.023	0.000	7.821	0.00	1.37
35.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.023	0.000	7.821	0.00	5.20
35.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.024	0.000	8.038	0.00	1.37
40.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.024	0.000	8.038	0.00	5.20
40.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.025	0.000	8.235	0.00	1.37
45.00 45.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.025	0.000	8.235	0.00	5.20
	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.025	0.000	8.355	0.00	0.89
48.25 48.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.025	0.000	8.355	0.00	3.38
50.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.026	0.000	8.416	0.00	0.48
50.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.026	0.000	8.416	0.00	1.82
53.25	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.026	0.000	8.526	0.00	0.89
53.25	Step bolts (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.026	0.000	8.526	0.00	3.38
55.00	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.026	0.000	8.584	0.00	0.48
55.00	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.026	0.000	8.584	0.00	1.82
60.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.026	0.000	8.739	0.00	1.37
60.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.026	0.000	8.739	0.00	5.20
65.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.027	0.000	8.886	0.00	1.37
65.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.027	0.000	8.886	0.00	5.20
70.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.028	0.000	9.023	0.00	1.37
70.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.028	0.000	9.023	0.00	5.20
75.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.029	0.000	9.154	0.00	1.37
75.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.029	0.000	9.154	0.00	5.20
80.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.030	0.000	9.277	0.00	1.37
80.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.030	0.000	9.277	0.00	5.20
85.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.031	0.000	9.395	0.00	1.37
85.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.031	0.000	9.395	0.00	5.20
86.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.031	0.000	9.418	0.00	0.27
86.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.031	0.000	9.418	0.00	1.04
	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.032	0.000	9.507	0.00	1.09
90.00		Yes	4.00	0.000	0.63	0.21	0.00	0.032	0.000	9.507	0.00	4.16
	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.033	0.000	9.615	0.00	1.37
	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.033	0.000	9.615	0.00	5.20
	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.034	0.000	9.677	0.00	0.82
98.00		Yes :	3.00	0.000	0.63	0.16	0.00	0.034	0.000	9.677	0.00	3.12
100.00		Yes	2.00	0.000	0.38	0.06	0.00	0.035	0.000	9.718	0.00	0.55
100.00	Dalety Cable	100					o UC M	riabta roa	anne			

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# Linear Appurtenance Segment Forces (Factored)

Structure: CT13070-A-01

Site Name: Waterbury 4, CT

Height:

134.00 (ft)

Base Elev: 1.000 (ft) Gh:

1.1

Code:

TIA-222-H

Exposure: С Crest Height: 0.00

Site Class:

Struct Class: ||

D - Stiff Soil

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7/7/2023

**Iterations** 

SBA

23

Load Case: 1.0D + 1.0W 60 mph Wind

**Dead Load Factor** 

1.00

Topography: 1

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 (Ib)
100.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.035	0.000	9.718	0.00	2.08
101.75	Safety Cable	Yes	1.75	0.000	0.38	0.06	0.00	0.035	0.000	9.753	0.00	0.48
101.75	Step bolts (ladder)	Yes	1.75	0.000	0.63	0.09	0.00	0.035	0.000	9.753	0.00	1.82
105.00	Safety Cable	Yes	3.25	0.000	0.38	0.10	0.00	0.035	0.000	9.818	0.00	0.89
105.00	Step boits (ladder)	Yes	3.25	0.000	0.63	0.17	0.00	0.035	0.000	9.818	0.00	3.38
109.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.036	0.000	9.895	0.00	1.09
109.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.036	0.000	9.895	0.00	4.16
110.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	9.913	0.00	0.27
110.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	9.913	0.00	1.04
115.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.039	0.000	10.006	0.00	1.37
115.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.039	0.000	10.006	0.00	5.20
117.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	10.042	0.00	0.55
117.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	10.042	0.00	2.08
119.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	10.077	0.00	0.55
119.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	10.077	0.00	2.08
120.00	Safety Cable	Yes	1.00	0.000	0.38	0.03	0.00	0.039	0.000	10.095	0.00	0.27
120.00	Step bolts (ladder)	Yes	1.00	0.000	0.63	0.05	0.00	0.039	0.000	10.095	0.00	1.04
125.00	Safety Cable	Yes	5.00	0.000	0.38	0.16	0.00	0.039	0.000	10.181	0.00	1.37
125.00	Step bolts (ladder)	Yes	5.00	0.000	0.63	0.26	0.00	0.039	0.000	10.181	0.00	5.20
128.00	Safety Cable	Yes	3.00	0.000	0.38	0.10	0.00	0.039	0.000	10.232	0.00	0.82
128.00	Step bolts (ladder)	Yes	3.00	0.000	0.63	0.16	0.00	0.039	0.000	10.232	0.00	3.12
130.00	Safety Cable	Yes	2.00	0.000	0.38	0.06	0.00	0.039	0.000	10.265	0.00	0.55
130.00	Step bolts (ladder)	Yes	2.00	0.000	0.63	0.10	0.00	0.039	0.000	10.265	0.00	2.08
134.00	Safety Cable	Yes	4.00	0.000	0.38	0.13	0.00	0.039	0.000	10.330	0.00	1.09
134.00	Step bolts (ladder)	Yes	4.00	0.000	0.63	0.21	0.00	0.039	0.000	10.330	0.00	4.16
									To	tals:	0.0	175.9

#### Calculated Forces

CT13070-A-01 Structure:

Code:

Resultant

Moment

(ft-kips)

758.91

720.15

681.74

643.67

605.95

568.61

531.66

495.12

459.02

423.35

400.48

388.28

365.71

353.68

319.42

285.61

252.27

219.40

187.00

155.08

148.80

127.94

102.25

87.14

79.93

73.70

62.25

48.40

48 40

45.02

28.17

21.58

17.63

17.63

15.68

6.04

0.51

0.29

0.00

2116.52

2084.97

1611.41

1583.50

1548.36

933.38

933.38

933.38

933.38

933.38

950.95

950.95

950 95

950.95

950.95

950.95

TIA-222-H

285.53 41725.7

285.53 41725.7

285.53 41725.7

499.96

492.51

396.63

386.94

375.01

285.53

285.53

285.28

285.28

285.28

285.28

285.28

285.28

1191.45

1156.19

937.27

892.04

837.91

41725.7

41725.7

54712.4

54712.4

54712.4

54712.4

54712.4

54712.4

7/7/2023

Site Name: Waterbury 4, CT

Exposure: C

Iterations

SBA

Height:

134.00 (ft)

Crest Height: 0.00 D - Stiff Soil

1.000 (ft) Base Elev:

Pu

FY (-)

(kips)

-39.45

-38.23

-37.04

-35.86

-34.71

-33.58

-32.48

-31.39

-30.33

-29.29

-28.62

-28.03

-26.96

-26.65

-25.79

-24.94

-24.11

-23.30

-22.51

-21.74

-18.62

-18.10

-17.47

-12.82

-12.45

-12.14

-11.87

-11.54

-11.54

-11.44

-10.98

-7.00

-6.82

-6.82

-6.72

-6.18

-0.63

-0.42

0.00

Site Class:

Page: 36

Gh:

Seg

Elev

(ft)

0.00

5.00

10.00

15.00

20.00

25.00

30.00

35.00

40.00

45.00

48.25

50.00

53.25

55.00

60.00

65.00

70.00

75.00

00.08

85.00

86.00

90.00

95.00

98.00

100.00

101.75

105.00

109.00

109.00

110.00

115.00

117.00

119.00

119.00

120.00

125.00

128.00

130.00

134.00

1.1

Vu

FX (-)

(kips)

-7.75

-7.68

-7.61

-7.54

-7.47

-7.39

-7.31

-7.22

-7.13

-7.04

-6.97

-6.94

-6.87

-6.85

-6.76

-6.67

-6.57

-6.48

-6.38

-6.28

-5.21

-5.14

-5.04

-3.60

-3.56

-3.52

-3.46

-3.38

-3.38

-3.37

-3.29

-1.98

-1.95

-1.95

-1.93

-1.84

-0.11

-0.07

-0.06

Topography:

Mu

MX

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Mu

ΜZ

-758.91

-720.15

-681.74

-643.67

-605.95

-568.61

-531.66

-495.12

-459.02

-423.35

-400.48

-388.28

-365.71

-353.68

-319.42

-285.61

-252.27

-219.40

-187.00

-155.08

-148.80

-127.94

-102.25

-87.14

-79.93

-73.70

-62.25

-48.40

-48.40

-45.02

-28.17

-21.58

-17.63

-17.63

-15.68

-6.04

-0.51

-0.29

0.00

(ft-kips) (ft-kips)

Struct Class:

23

0.076

0.072

0.086

0.076

0.064

0.095

0.089

0.060

0.044

0.037

0.035

0.032

0.016

0.001

0.001

0.000

-0.001

-0.001

-0.001

-0.001

-0.002

-0.002

-0.002

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-0.002

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-0.002

-0.002

-0.002

-0.002

-0.002

-0.002

Load Case: 1.0D + 1.0W 60 mph Wind

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

Tu

MY (-)

(ft-kips)

-0.29

-0.29

-0.29

-0.29

-0.29

-0.29

-0.29

-0.29

-0.29

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0.00

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_
3976.93	1023.83	4163.63	4011.62	0.00	0.000	0.000	0.199
3920.48	1001.47	3983.76	3867.66	0.03	-0.059	0.000	0.196
3862.67	979.11	3807.86	3724.90	0.13	-0.120	0.000	0.193
3803.51	956.76	3635.94	3583.42	0.28	-0.180	0.000	0.189
3742.99	934.40	3467.98	3443.32	0.51	-0.242	0.000	0.185
3681.11	912.04	3304.00	3304.69	0.79	-0.304	0.000	0.181
3617.88	889.68	3143.99	3167.62	1.15	-0.367	0.000	0.177
3553.28	867.32	2987.95	3032.20	1.56	-0.429	0.000	0.172
3487.33	844.96	2835.88	2898.52	2.05	-0.492	0.000	0.167
3420.03	822.60	2687.78	2766.66	2.60	-0.555	0.000	0.162
3375.55	808.07	2593.65	2681.98	2.99	-0.597	0.000	0.158
3351.36	800.24	2543.66	2636.73	3.21	-0.620	0.000	0.156
2647.50	666.72	2118.80	2085.88	3.65	-0.661	0.000	0.186
2630.02	660.20	2077.55	2051.68	3.90	-0.683	0.000	0.183
2579.17	641.57	1961.94	1954.76	4.65	-0.753	0.000	0.174
2526.96	622.94	1849.64	1859.10	5.47	-0.822	-0.001	0.164
2473.39	604.31	1740.65	1764.79	6.37	-0.888	-0.001	0.153
2418.47	585.67	1634.96	1671.92	7.34	-0.952	-0.001	0.141
2362.18	567.04	1532.59	1580.58	8.37	-1.013	-0.001	0.128
2304.54	548.41	1433.52	1490.86	9.46	-1.069	-0.001	0.114
2292.85	544.68	1414.11	1473.12	9.68	-1.080	-0.001	0.109
2242.72	529.78	1337.77	1401.09	10.61	-1.121	-0.001	0.099
2163.84	511.14	1245.33	1303.79	11.81	-1.167	-0.001	0.087

1247.09

1209.99

943.49

904.30

856.74

590.00

590.00

590.00

590.00

590.00

624.60

624.60

624.60

624.60

624.60

624.60

12.55

13.05

13.50

14.34

15.39

15.39

15.66

17.02

17.57

18.12

18.12

18.40

19.78

20.62

21.17

22.29

-1.193

-1.209

-1.222

-1.245

-1.275

-1.275

-1.281

-1.307

-1.313

-1.319

-1.319

-1.321

-1.327

-1.328

-1.328

-1.328

## **Final Analysis Summary**

**Structure**: CT13070-A-01 **Code**: TIA-222-H 7/7/2023

Site Name:Waterbury 4, CTExposure:CHeight:134.00 (ft)Crest Height:0.00

Base Elev: 1.000 (ft) Site Class: D - Stiff Soil

Gh: 1.1 Topography: 1 Struct Class: II Page: 37



### **Reactions**

	Shear FX	Shear FZ	Axial FY	Moment MX	Moment MY	Moment MZ
Load Case	(kips)	(kips)	(kips)	(ft-kips)	(ft-kips)	(ft-kips)
1.2D + 1.0W 117 mph Wind	33.0	0.00	47.27	0.03	1.23	3250.36
0.9D + 1.0W 117 mph Wind	32.9	0.00	35.43	0.02	1.23	3205.72
1.2D + 1.0Di + 1.0Wi 50 mph Wind	8.8	0.00	66.42	0.00	0.26	869.52
1.2D + 1.0Ev + 1.0Eh	0.7	0.00	49.01	0.00	0.00	82.00
0.9D + 1.0Ev + 1.0Eh	0.7	0.00	37.12	0.00	0.00	80.96
1.0D + 1.0W 60 mph Wind	7.8	0.00	39.45	0.00	0.29	758.91

### **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 117 mph Wind	-47.27	-32.96	-1.23	-3250.3	-0.03	-3250.3	3976.93	1023.8	4163.63	4011.62	0.00	0.823
0.9D + 1.0W 117 mph Wind	-35.43	-32.93	-1.23	-3205.7	-0.02	-3205.7	3976.93	1023.8	4163.63	4011.62	0.00	0.809
1.2D + 1.0Di + 1.0Wi 50 mph Wind	-66.42	-8.78	-0.26	-869.52	0.00	-869.52	3976.93	1023.8	4163.63	4011.62	0.00	0.234
1.2D + 1.0Ev + 1.0Eh	-33.58	-0.71	0.00	-44.87	0.00	-44.87	2647.50	666.72	2118.80	2085.88	53.25	0.034
0.9D + 1.0Ev + 1.0Eh	-25.45	-0.70	0.00	-44.16	0.00	-44.16	2647.50	666.72	2118.80	2085.88	53.25	0.031
1.0D + 1.0W 60 mph Wind	-39.45	-7.75	-0.29	-758.91	0.00	-758.91	3976.93	1023.8	4163.63	4011.62	0.00	0.199

## **Base Plate Summary**

Structure: CT13070-A-01

Site Name: Waterbury 4, CT Height: 134.00 (ft)

Base Elev: 1.000 (ft)

**Gh:** 1.1

Code: TIA-222-H

Exposure: C

Crest Height: 0.00

Site Class: D - Stiff Soil

Topography: 1 Struct Class: II

SBA

7/7/2023

Page: 38

Reactions		Base Pla	ate	Anchor Bolts			
Original Design	n	Yield (ksi):	60.00	Bolt Circle:	55.75		
-	3142.00	Width (in):	53.25	Number Bolts:	12.00		
Moment (kip-ft):	42.00	Style:	Clipped	Bolt Type:	2.25" 18J		
Axial (kip): Shear (kip):	29.00	Polygon Sides:	0.00	Bolt Diameter (in):	2.25		
Streat (Kip).		Clip Length (in):	9.00	Yield (ksi):	75.00		
Analysis (1.2D + 1	.0W)		40.07	Ultimate (ksi):	100.00		
Moment (kip-ft):	3250.36	Effective Len (in):	10.37	Arrangement:	Clustered		
Axial (kip):	47.27	Moment (kip-in):	648.55	Cluster Dist (in):	6.00		
Shear (kip):	32.96	Allow Stress (ksi):	81.00	Start Angle (deg):	45.00		
•		Applied Stress (ksi):	41.31	•			
		Stress Ratio:	0.51	Compres			
				Force (kip):	170.59		
				Allowable (kip):	268.39		
				Ratio:	0.64		
				Tensio	n		
				Force (kip):	162.71		
				Allowable (kip):	243.75		
				Ratio:	0.67		



Mono	pole Mat Foun	dation Design	Date
	pole mat i ouii	dation besign	6/15/2023
Customer Name:	Verizon	TIA Standard:	TIA-222-H
Site Name:		Structure Height (Ft.):	135
Site Number:	CT13070-A	Engineer Name:	SBA Engineer
Engr. Number:	- State of the	Engineer Login ID:	

Foundation Info Obtained from:		Drawings/Calculations						
Structure Type:		Monopale				_		_
Analysis or Design?		Analysis		- 3	<b>)</b> .00	1	!1	0.00
Base Reactions (Factored):					***		_ \ \	4
Axial Load (Kips):	47.3	Shear Force (Kips):	33.0		1 7 7 1	X/		
Uplift Force (Kips):	0.0	Moment (Kips-ft):	3250.4	1	99.0		7 #	4
		( upo 11).	3230,-	•	99.0		35 # 35 #	8
Foundation Geometries:					5.5	//	35 #	8
		Mods required -Yes/No ?:	No			1///	35 #	8
Diameter of Pier (ft.):	7.0	Depth of Base BG (ft.):	5.5		0 0 0 0 0	1//	5	<u> </u>
Pier Height A. G. (ft.):	1.00	Thickness of Pad (ft):	2.00			1/1/		2.00
Length of Pad (ft.):	22	Width of Pad (ft.):	22		<u> </u>			V
					22.0			
Final Length of pad (ft)	22.0	Final width of pad (ft):	22.0		<b>T</b>			0.0
								0.5
								1-*
Material Properties and Reabr In	fo:				I i I	7.0		î
Concrete Strength (psi):	4000	Steel Elastic Modulus:	29000	ksi		1/2		1 1
Vertical bar yield (ksi)	60	Tie steel yield (ksi):	60		6 9			22.0
Vertical Rebar Size #:	8	Tie / Stirrup Size #:	4		22.0			w
Qty. of Vertical Rebars:	36	Tie Spacing (in):	12.0				1	
Pad Rebar Yield (Ksi):	60	Pad Steel Rebar Size (#):	8		36 # 8			
Concrete Cover (in.):	3	Unit Weight of Concrete:	150.0	pcf				1 1
Rebar at the bottom of the concre	te pad:			Ť				0.0
Qty. of Rebar in Pad (L):	35	Qty. of Rebar in Pad (W):	35		0.0	10 21		0.0
Rebar at the top of the concrete p	ad:	. ,			22.0	L	<b>←</b>	0.0
Qty. of Rebar in Pad (L):	35	Qty. of Rebar in Pad (W):	35		- 12.0			*
Soil Design Parameters:								
Soil Unit Weight (pcf):	130.0	Soil Buoyant Weight:	67.6	Pcf		8		
Water Table B.G.S. (ft):	99.0	Unit Weight of Water:	62.4	pcf		20		
Ultimate Bearing Pressure (psf):	16000	Ultimate Skin Friction:	02.4	Psf	Angle from Top of Pad: Angle from Bottm of Pad:	30 25		
Consider Friction for O.T.M. (Y/N):	No	Consider Friction for bearing	-	No	Angle from Bottm of Pad:	25 25		
Consider soil hor, resist, for OTM.:	No	Reduction factor on the ma				23		
Foundation Analysis and Decision	11-156 61							
Foundation Analysis and Design:	Uplift Str	ength Reduction Factor:	0.75		ression Strength Reduction Factor:	0.75		
Total Dry Soil Volume (cu. Ft.): Total Buoyant Soil Volume (cu.	C+ \.				Dry Soil Weight (Kips):	202.71		
Total Effective Soil Weight (Kip			0.00		Buoyant Soil Weight (Kips):	0.00		
Total Dry Concrete Volume (cu			202.71 1141.18		nt from the Concrete Block at Top (K): Dry Concrete Weight (Kips):	0.00		
Total Buoyant Concrete Volum	e (cu. Ft.):		0.00		Buoyant Concrete Weight (Kips):	171.18 0.00		
Total Effective Concrete Weigh	t (Kips):				Vertical Load on Base (Kips):	421.16		
Check Soil Capacities:							Load/ Capacity Ratio	
Calculated Maxium Net Soil Pressu	re under th	e base (psf):	3978	<	Allowable Factored Soil Bearing (psf):	12000	0.33	OK!
Allowable Foundation Overturning			4221.4	>	Design Factored Momont (kips-ft):	3465	0.82	OK!
Factor of Safety Against Overturnin	g (O. R. Mo	ment/Design Moment):	1.22	OK!				

Page 2/2 Date:

6/15/2023

<u>Check the capacities of Reinforceing Concrete:</u> Strength reduction factor (Flexure and axial tension):	0.90	Streng	th reduction factor (Shear):	0.75		
Strength reduction factor (Axial compression):	0.65	Wind	Load Factor on Concrete Design:	1.00	Load/ Capacity	
(1) Concrete Pier:				0.20	Ratio	
Vertical Steel Rebar Area (sq. in./each):	0.79		Tie / Stirrup Area (sq. in./each):	0.20	0.70	OK!
Calculated Moment Capacity (Mn, Kips-Ft):	4845.7	>	Design Factored Moment (Mu, Kips-Ft	3398.9		OK!
Calculated Shear Capacity (Kips):	660.1	>	Design Factored Shear (Kips):	33.0	0.05	OK!
Calculated Tension Capacity (Tn, Kips):	1535.8	>	Design Factored Tension (Tu Kips):	0.0	0.00	
Calculated Compression Capacity (Pn, Kips):	9747.6	>	Design Factored Axial Load (Pu Kips):	47.3	0.00	OK!
Moment & Axial Strength Combination:	0.70	OK!			1	OK!
Pier Reinforcement Ratio:	0.005		Reinforcement Ratio is satisfied per A	CI		
(2).Concrete Pad:			o w 5 walshard D Kinda	235.6	0.46	OK!
One-Way Design Shear Capacity (L-Direction, Kips):	513.4	>	One-Way Factored Shear (L-D. Kips):		0.46	OK!
One-Way Design Shear Capacity (W-Direction, Kips):	513.4	>	One-Way Factored Shear (W-D., Kips):	235.6	0.40	OK!
One-Way Design Shear Capacity (Corner-Corner. Kips):	483.0	>	One-Way Factored Shear (C-C, Kips):	245.1	0.51	OK:
Lower Steel Pad Reinforcement Ratio (L-Direct. ):	0.0051	OK!	Lower Steel Pad Reinf. Ratio (W-Direc	0.0051	0.40	OVI
Lower Steel Pad Moment Capacity (L-Direction. Kips-ft):	2435.7	>	Moment at Bottom ( L-Dir. K-Ft):	976.8	0.40	OK!
Lower Steel Pad Moment Capacity (W-Direction. Kips-ft):	2435.7	>	Moment at Bottom ( W-Dir. K-Ft):	976.8	0.40	OK!
Lower Steel Pad Moment Capacity (Corner-Corner,K-ft):	3397.4	>	Moment at Bottom ( C-C Dir. K-Ft):	1381.4	0.41	OK!
Upper Steel Pad Reinforcement Ratio (L-Direct. ):	0.0051	OK!	Upper Steel Reinf. Ratio (W-Dir. ):	0.0051		01/1
Upper Steel Pad Moment Capacity (L-Direc. Kips-ft):	2435.7	>	Moment at the top (L-Dir K-Ft):	460.1	0.19	OK!
Upper Steel Pad Moment Capacity (W-Direc. Kips-ft):	2435.7	>	Moment at the top (W-Dir K-Ft):	460.1	0.19	OK!
Upper Steel Pad Moment Capacity (Corner-Corner. K-ft):	3397.4	>	Moment at the top (C-C Dir. K-Ft):	434.4	0.13	OK!
(3).Check Punching Shear Capacity due to Moment in the Pier:					3.0	Psi
Moment transferred by punching shear:	1300.1	k-ft.	Max. factored shear stress v <sub>u_CD</sub> :			
Max. factored shear stress v <sub>u.AB</sub> :	14.8	Psi	Factored shear Strength φν <sub>n</sub> :		189.7	
Max. factored shear stress v <sub>u</sub> :	14.8	Psi	Check Usage of Punching Shear Cap	acity:	0.08	OK!
(4).Check Bending Capacity of the Pad Within the Effective Slab Width:					42.0	4
Overturning moment to be transferred by flexure:	975.1	k-ft.	Effective Width for resisting OT momer		13.0	π.
Calculated number of Rebar in Effective width:	21		Actual number of Rebar in Effective wid		21	014
Steel Pad Moment Capacity ( L-Direc. Kips-ft):	1460.4	k-ft.	Check Usage of the Flexure Capacit	v:	0.67	OK!





Colliers Engineering & Design CT. P. C. 1055 Washington Boulevard Stamford, CT 06901 203.324.0800 peter.albano@collierseng.com

# **Antenna Mount Analysis Report and PMI Requirements**

Mount ReAnalysis

SMART Tool Project #: 10206287 Colliers Engineering & Design CT. P. C. Project #: 23777052

July 7, 2023

Site Information

Site ID:

5000382125-VZW / WATERBURY EAST CT

Site Name:

WATERBURY EAST CT Verizon Wireless

Carrier Name:

940 Meriden Rd

Address:

Waterbury, Connecticut 06705

New Haven County

Latitude:

41.553278°

Longitude:

-72.993361°

Structure Information

Tower Type:

115-Ft Monopole

Mount Type:

13.83-Ft Platform

**FUZE ID # 17041976** 

### **Analysis Results**

Platform: 54.7% 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

Report Prepared By: Selene Chen

Digitally signed by Derek Hartzell Date: 2023.07.10 10:58 21-07'00'

### Executive Summary:

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

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

#### **Sources of Information:**

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 325070, dated December 16, 2020
Mount Mapping Report	Level-Up Towers, Site ID: 469379, dated February 15, 2021
Previous Mount Analysis Report	Maser Consulting Connecticut, Project #: 21777081, dated June 23, 2021
Post-Modification Inspection Report	Colliers Engineering & Design CT. P. C., Project #: 21777081, dated June 23, 2023
Filter Add Scope	Provided by Verizon Wireless

#### **Analysis Criteria:**

Codes and Standardet	ANCI/TIA 000 LI
Codes and Standards:	ANSI/TIA-222-H

2022 Connecticut State Building Code (CSBC), Effective October 1, 2022

Wind Parameters:	Basic Wind Speed (Ultimate 3-se	C Gust) Viii-	120 mph

Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: Ш Exposure Category: В Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, Ke: 0.978

Seismic Parameters: Ss: 0.193 g

S<sub>1</sub>: 0.054 g

Maintenance Parameters: Wind Speed (3-sec. Gust): 30 mph

Maintenance Load, Lv: 250 lbs.
Maintenance Load, Lm: 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
		3	Amphenol Antel	BXA-171063-12CF	
87.00 87.00	3 Samsung MT64	JMA Wireless	MX06FRO660-03		
		3	Samsung	MT6407-77A	Retained
		B2/B66A RRH-BR049	Retairied		
	07.00	3	Samsung	B5/B13 RRH-BR04C	
		Raycap	RVZDC-6627-PF-48		
	4	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:**

- 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.
- 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.
- 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.
- 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:

Channel, Solid Round, Angle, Plate

ASTM A36 (Gr. 36)

0 HSS (Rectangular) ASTM 500 (Gr. B-46)

Pipe 0

ASTM A53 (Gr. B-35)

Threaded Rod 0

F1554 (Gr. 36)

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
Face Horizontal	13.6 %	Pass
Standoff Horizontal	35.0 %	Pass
Platform Crossmember	19.2 %	Pass
Corner Plate	17.7 %	Pass
Grating Support	12.8 %	Pass
Cross Arm Plate	18.0 %	Pass
Mount Pipe	23.7 %	Pass
Replacement Pipe	13.4 %	Pass
Support Rail Corner	9.7 %	Pass
Support Rail	11.0 %	Pass
Connection Check	54.7 %	Pass

Structure Rating – (Controlling Utilization of all Components)	54.7%
--	-------

BASELINE mount weight per SBA agreement: 2106.06 lbs

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

The weights listed above include 3 sectors.

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

Ice	Mount Pipe	s Excluded	Mount Pipes Included	
Thickness (In)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)	Front (EPA)a (Sq. Ft.)	Side (EPA)a (Sq. Ft.)
0	25.2	25.1	38.7	38.6
0.5	32.7	32.7	51.7	51.5
1	39.8	39.8	64.2	64.0

- (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

July 7, 2023 Site ID: 5000382125-VZW / WATERBURY EAST CT Page I 5

#### 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.

Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is rubbing against the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.

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

### Attachments:

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

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

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

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

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

For additional questions and support, please reach out to pmisupport@colliersengineering.com

MDG #: 5000382125

SMART Project #: 10206287

Fuze Project ID: 17041976

<u>Purpose</u> – 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:

<ul> <li>The contractor shall certify that the antenna &amp; equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.</li> </ul>
☐ 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:
Contractor shall inspect climbing facilities and safety climb and ensure they are in good condition. Contractor shall install safety climb wire rope guides in locations where wire rope is rubbing against the mount or mount-to-tower connection steel. Wire brush clean any observed corrosion and protect with two (2) coats of cold galvanization (Zinga or Zinc Kote). Contractor shall provide photos of wire rope guide installation as part of PMI documents. Contact EOR if additional guidance is required.
Response:
Special Instruction Confirmation:
$\square$ The contractor has read and acknowledges the above special instructions.
$\square$ 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.

☐ The ma approval i	terial utilized was approved by a SM. s included as part of the contractor s	IART Tool engineering vendor as an "equivalent" and this abmission.
Comments:	411	
Contractor cortif	ing that the plimbing facility /	
Lontractor Certif	ies that the climbing facility / sar	fety climb was not damaged prior to starting work
☐ Yes	□No	
Contractor certif	ies no new damage created durir	ng the current installation:
□Yes	□No	
ontractor to cer	tify the condition of the safety c	limb and verify no damage when leaving the site:
☐ Safety (	Climb in Good Condition	☐ Safety Climb Damaged
Certifying Individ	lual:	
	· · · · · · · · · · · · · · · · · · ·	
Co Employee	ompany:	
• •	Phone:	
	Email: Date:	
	Date.	

# Structure: 5000382125-VZW - WATERBURY EAST CT

Sector:

Α

Structure Type: Monopole

10206287

7/7/2023

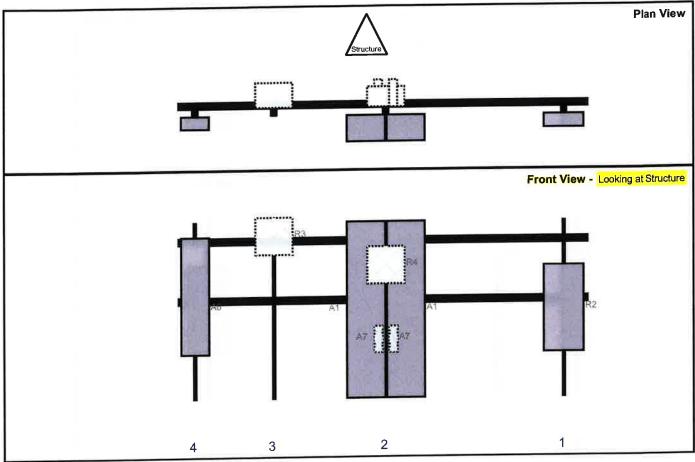
Colliers Engineering & Design

Mount Elev:

87.00

, O <u>C</u> O 1

Page: 1



		Height	Width	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant	Ant H Off	Status	Validation
Ref#	Model	(in)	(in)	FIIII L.	#*	- US V	1 03	1 1000 72	11011		
R2	MT6407-77A	35.1	16.1	156	1	а	Front	36	0	Retained	04/18/2023
A1	MX06FRO660-03	71.3	15.4	84	2	а	Front	36	8	Retained	04/18/2023
A1	MX06FRO660-03	71.3	15.4	84	2	b	Front	36	-8	Retained	04/18/2023
R4	B5/B13 RRH-BR04C	15	15	84	2	а	Behind	18	0	Retained	04/18/2023
A7	BSF0020F3V1-1	10.6	3.2	84	2	а	Behind	48	3	Added	
A7	BSF0020F3V1-1	10.6	3.2	84	2	b	Behind	48	-3	Added	Tag Nige
R3	B2/B66A RRH-BR049	15	15	39	3	а	Behind	6	0	Retained	04/18/2023
A6	BXA-171063-12CF	47.4	11.2	7	4	а	Front	30	0	Retained	04/18/2023
OVP	RVZDC-6627-PF-48	 28.9	15.7		Memb	er				Retained	04/18/2023

### Structure: 5000382125-VZW - WATERBURY EAST CT

Sector: B

Structure Type: Monopole

87.00

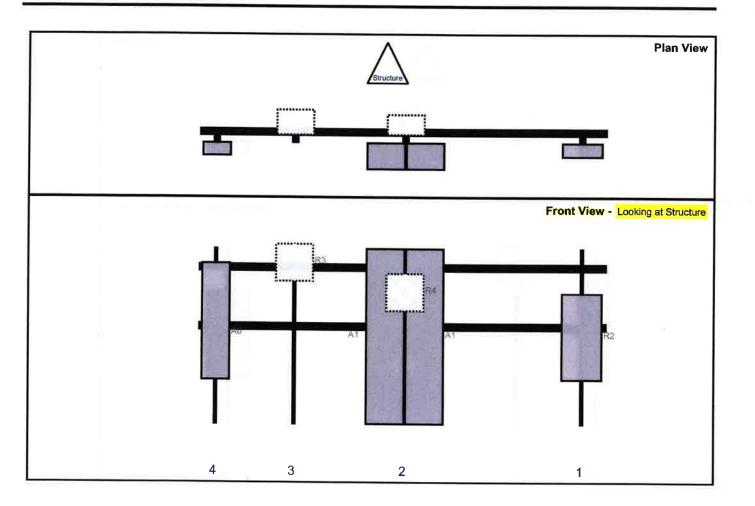
Mount Elev:

10206287

7/7/2023

Page: 2





Ref#	Model	He (ir	eight 1)	Width (in)	H Dist	Pipe #	Pipe Pos V	Ant Pos	C. Ant	Ant H Off	Status	Validation
R2	MT6407-77A	35	5.1	16.1	156	1	а	Front	36	0	Retained	04/18/2023
A1	MX06FRO660-03	71	.3	15.4	84	2	a	Front	36	В	Retained	04/18/2023
A1	MX06FRO660-03	71	.3	15.4	84	2	b	Front	36	-8	Retained	04/18/2023
R4	B5/B13 RRH-BR04C	15		15	84	2	a	Behind	18	0	Retained	04/18/2023
R3	B2/B66A RRH-BR049	15		15	39	3	а	Behind	6	0	Retained	04/18/2023
A6	BXA-171063-12CF	47	.4	11.2	7	4	а	Front	30	0	Retained	04/18/2023

# Structure: 5000382125-VZW - WATERBURY EAST CT

С Sector:

Mount Elev:

87.00

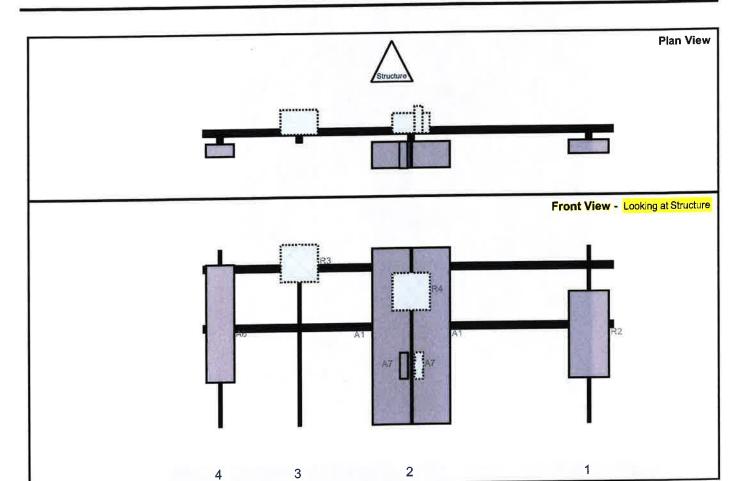
Structure Type: Monopole

10206287

Colliers Engineering & Design

Page: 3

7/7/2023



		Height	Width	H Dist	Pipe #	Pipe Pos V	Ant Pos	C. Ant	Ant H Off	Status	Validation
Ref#	Model	(in)	(in)	Frm L.	#	FUS V	F U S	Tim te	11011	Cuitad	
R2	MT6407-77A	35.1	16.1	156	1	а	Front	36	0	Retained	04/18/2023
A1	MX06FRO660-03	71.3	15.4	84	2	b	Front	36	8	Retained	04/18/2023
A1	MX06FRO660-03	71.3	15.4	84	2	С	Front	36	-8	Retained	04/18/2023
R4	B5/B13 RRH-BR04C	15	15	84	2	а	Behind	18	0	Retained	04/18/2023
A7	BSF0020F3V1-1	10.6	3.2	84	2	a	Behind	48	3	Added	
A7	BSF0020F3V1-1	10.6	3.2	84	2	b	Front	48	-3	Added	
R3	B2/B66A RRH-BR049	15	15	39	3	а	Behind	6	0	Retained	04/18/2023
A6	BXA-171063-12CF	47.4	11.2	7	4	а	Front	30	0	Retained	04/18/2023



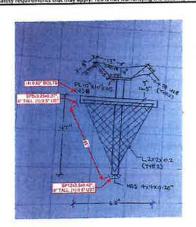




			V3.0 Updated on 6-31-2020
		(DATENT DENOMINO)	PCC #
	Antenna Mount Mapping F		2/15/2021
Tower Owner:	SBA	Mapping Date:	MONOPOLE
Site Name:	WATERBURY EAST OT	Towar Type:	115
Site Number or ID:	469379	Tower Height (Ft.):	87
Mapping Contractor:	LEVEL-UP TOWERS	Mount Elevation (Ft.):	

Imapping Contractor: LEVELUP FUYERS

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



Sector/ Position	Mount Pipe Size & Length	Vertical Offset Dimension	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension	Harizonta Offset "C: C2, C3, etc
A1	72"x2.38"x0.19	32.00	10.00	C1	72"x2.38"x0.22	32.00	15.00
A2	72"x2.38"x0.20	32,00	82.00	C2	72"x2.38"x0.23	32.00	87.00
A3	72"x2.38"x0.21	32.00	127,00	C3	72"x2_38"x0.24	32,00	134.00
A4	72"x2.38"x0.22	32.00	159.00	C4	72"x2.38"x0,25	32,00	158.00
A5				CS			
A6				C6	E		
B1	72"x2,38"x0.22	32.00	8.00	D1			
B2	72"x2,38"x0.23	32.00	82.50	DZ			
63	72"x2.38"x0.24	32.00	129,50	DB			
B4	72"x2.38"x0.25	32.00	158.00	D4			
85				DS			
86				D6			
	Distance between bottom ra	il and moun	t CL elevati	on (dim d	. Unit is inches. See 'Mount Elev Ref' ta	b for details. :	
	Distance from	op of botto	m support r	all to low	est tip of ant./eqpt. of Carrier above. (N	/A if > 10 ft.):	81
	Distance from to	op of botton	n support ra	all to high	est tip of ant./eqpt. of Carrier below. (N	/A if > 10 ft.):	
		Please ent	er additiona	I infomat	on or comments below.		
				Series Constitution Constitutio			

SECTOR B	//	SECTOR C	Ψ.
LEC B	FACE B	TEC C	
SECTOR A	E LEG		······································
220.00			Horizonta Offset "h
리 [Anthe ] 원	Antzı A	4	Tale of Antise

Tower Fac	e Width at Mount Elev. (	(t.):		Tower Leg	Size or Pole	Shaft Dian	neter at Mount Elev. (i	n.);		30
	Enter antenna	a model.	If not labe	led, enter '	Mountin [Units are incl	Photos of antennas				
Ants. Items	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center- line (Ft.)	Vertical Distances"b <sub>1a</sub> , b <sub>2a</sub> , b <sub>3a</sub> , b <sub>1b</sub> " (Inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	Antenna Azimuth (Degrees)	Photo Numbers
_		_			Sector A					
Ant <sub>la</sub>	Unmarked Antenna	6.00	4.00	72.00		86.6667	36.00	10.00	105.00	90
Antıb	Alcatel-Lucent 9442 R	8.50	12.00	20.50	Hybrid	88.1667	18.00	0.00		104, 105
Ant <sub>1c</sub>										
Ant <sub>2a</sub>	BXA-70063-6CF-EDIN	11.25	5.00	71.00	(2) 1-5/8	87	32.00	15.00	105.00	10-115, 12
Ant <sub>2b</sub>										
Ant <sub>2c</sub>										
Ant <sub>3a</sub>	BXA-171063-8BF-EDI	6.00	4.00	47.25	(2) 1-5/8	87.3333	28.00	6.00	105.00	116, 133
Ant <sub>3b</sub>										
Ant <sub>3c</sub>										
Ant <sub>4a</sub>	BXA-80063-4CF-EDIN	11.25	5.00	47.25	(2) 1-5/8	87.6667	24.00	11.00	105.00	120
Ant <sub>4b</sub>										
Ant <sub>4c</sub>										
Antsa										
Ant <sub>5b</sub>										
Ant <sub>5c</sub>		4								
Ant on Standoff										
Ant on Standoff										
Ant on Tower										
Ant on Tower		7								

Antha A	Antra A	Anta 3	Arte d	Antse
ă	ž	å,	šč	
_ii	i L			
Antie C2	Antas	Anta	Antec	Artse

Antenna Layout (Looking Out From Tower)

Mou	nt Azimut	h (Degre	e)	Tower Leg Az	rimuth (Degree)	7					Sector E					
	for Each S		250		ch Sector	Ant <sub>18</sub>	Unmarked Antenna	6.00	4.00	72.00	T	86,6667	36.00	10.00	225.00	90
Sector A:	105.00	Deg	Leg A:		Deg	Ant <sub>1b</sub>	Alcatel-Lucent 9442	R 8.50	12.00	20.50	Hybrid	88.1667	18.00	0.00		104, 105
Sector 8:	225.00	Deg	Leg B:		Deg	Ant <sub>1c</sub>										1
Sector C:	345.00	Deg	Leg C		Deg	Ant <sub>2a</sub>	BXA-70063-6CF-EDIN	11.25	5.00	71.00	(2) 1-5/8	87	32.00	15.00	225.00	10-115, 1
Sector D:		Deg	Leg D:		Deg	Ant <sub>2b</sub>										1
		Clim	bing Fac	lity Information		Ant <sub>2c</sub>										+
Location:	175.00	Deg		Inside Corner Leg B		Ant <sub>3a</sub>	BXA-171063-8BF-EDI	6.00	4.00	47.25	(2) 1-5/8	87.3333	28.00	6.00	225.00	116, 133
Climbing	Corre	slon Ty	oe:	Good condition.		Ant <sub>3b</sub>										
Facility	- 1	ccess:		Climbing path was	unobstructed.	Ant <sub>3c</sub>										
	Co	ndition:		Good condition.		Ant <sub>4s</sub>	BXA-80063-4CF-EDIN	11.25	5.00	47.25	(2) 1-5/8	87.6667	24.00	11.00	225.00	120
		. TT	TT.			Ant <sub>4b</sub>										
ŕ	1	4/11	III	Ľ.		Ant₄c										
		181	110			Antsa						7				
q	-	1				Ant <sub>5b</sub>										
1-7	2	7		C.h.c.sonon	ut-	Ant <sub>Sc</sub>		221								
		311	111		0000000	Ant on										
J	l[	וווור	ШГ	ΙΠ	COTTACE POOP HATCHER ECUSION TO COMPANY OF ATT/COTT OF CAMPING ABOVE (N/A IF A 10 IT)	Standoff Ant on		-	-	_				-		
7		TIT	TIT		(0.4 # + 10 11)	Standoff										
=		1			+	Ant on								1		
DON' NAME	200		1	e e	ENTRACE FORM TOWN OF MAN FLATION MEMBER TO HEALEST TO UP ANY ACCOUNT OF CAPACITY HEACH (WALT > 10 FL	Tower										
- 1	1 1		110	f. wanes	I many	Ant on Tower										
			HIM								Sector C					Ь
		316				Ant <sub>1a</sub>	Unmarked Antenna	6.00	4.00	72.00		86.6667	36.00	10.00	345.00	90
5		117		1		Antib	Alcatel-Lucent 9442 F	8.50	12.00	20.50	Hybrid	88.1667	18.00	0.00	2.3.00	104, 105
-		TIT!	٣	Ų.		Ant <sub>1c</sub>								1		1 1, 20,
100	0 9		-	print.		Ant <sub>2a</sub>	BXA-70063-6CF-EDIN	11.25	5.00	71.00	(2) 1-5/8	87	32.00	15.00	345.00	10-115, 1
		Is		. ] [		Ant <sub>2b</sub>										10,710,7
1 [	- 60		7	7		Ant <sub>2c</sub>								1		
1				<b>-</b>		Ant <sub>3a</sub>	BXA-171063-8BF-EDI	6.00	4.00	47.25	(2) 1-5/8	87.3333	28.00	6.00	345.00	116, 133
.a.		1	1	Tryong	Ť	Ant <sub>3b</sub>										
			/			Ant <sub>3c</sub>										
	l I	7	₹III	П	to the first of earth of the control	Ant <sub>4a</sub>	BXA-80063-4CF-EDIN	11.25	5.00	47.25	(2) 1-5/8	87.6667	24.00	11.00	345.00	120
-			4 H		Raft - Mi	Ant <sub>4b</sub>										
	-			<u> </u>		Ant <sub>4c</sub>										
Ļ	1	-	1	Ĺ,	ordered from the sortion	Ant <sub>5a</sub>										
World States Street		4			LOTTING THE THE STATE OF THE ST	Ant <sub>5b</sub>										
.1.	2		10	A		Ant <sub>Sc</sub>										
						Ant on Standoff										
1.	-		7 N	7 1		Ant on										_
9 4		/-	#   #	*·····		Standoff										
-	- 5			4		Ant on						-				
						Ant on			_					-		
						Tower										
											Sector D					
						Ant <sub>1a</sub>		= 1								
						Ant <sub>1b</sub>										
						Ant <sub>1c</sub>										
						Ant <sub>2a</sub>										
						Ant <sub>2b</sub>										
						Ant <sub>2c</sub>										
						Ant <sub>3a</sub>							1			
						Ant <sub>3b</sub>										
						Ant <sub>3c</sub>										
						Ant <sub>4a</sub>										
						Ant <sub>4b</sub>										
						Ant <sub>4c</sub>										
						Ant <sub>Sa</sub>										
						Ant <sub>5b</sub>										
						Ant <sub>Sc</sub>		_								
						Ant on Standoff										
					1	Ant on						_				
						Standoff										
						Ant on										
					l l	Tower Ant on		$\rightarrow$						-		

	Observed Safety and Structural Issues During the Mount Mapping	
Issue #	Description of Issue	Photo #

1		
2		
3		
4		
5		-
6		
7		
8		 

#### **Mapping Notes**

- 1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)
- 1. Please report any visible structural or safety issues observed on the antenna mounts (Damaged members, loose connections, tilting mounts, safety climb issues, etc.)

  1. If the thickness of the existing pipes or tubing can't be obtained from a general tool (such as Caliper), please use an ultrasonic measurement tool (thickness gauge) to measure the thickness.

  3. Please create all required detail sketches of the mounts and insert them into the "Sketches" tab.

  4. Please measure and enter the bolt sizes and types under the Members Box in the spreadsheet of the mount type.

  5. Take and label the photos of the tower, mounts, connections, antennas and all measurements. Minimum 50 photos are required.

  6. Please measure and report the size and length of all existing antenna mounting pipes.

  7. Please measure and report the antenna information for all sectors.

  8. Don't delete or rearrance any sheet or contents of any sheet from this manning form.

- Don't delete or rearrange any sheet or contents of any sheet from this mapping form.

#### Standard Conditions

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

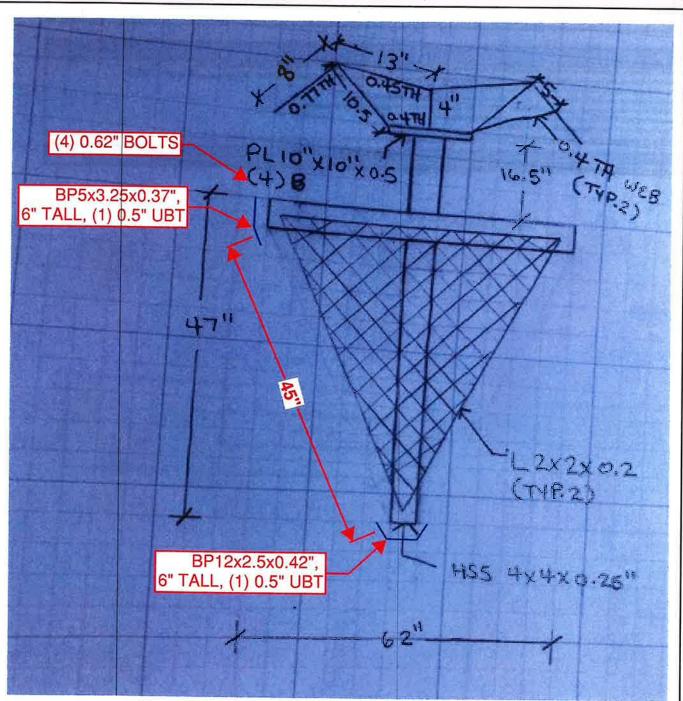
V3.0	Updated on 8-31-2020



	Antenna Mount Mapping	Form (PATENT PENDING)	V3.0 Updaled on 8-31-2020 FCC R
Tower Owner:	SBA	Mapping Date:	2/15/2021
Site Name:	WATERBURY EAST CT	Tower Type:	MONOPOLE
ite Number or ID:	469379	Tower Height (Ft.):	115
Mapping Contractor:	LEVEL-UP TOWERS	Mount Elevation (FL):	113

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#### Please Insert Sketches of the Antenna Mount

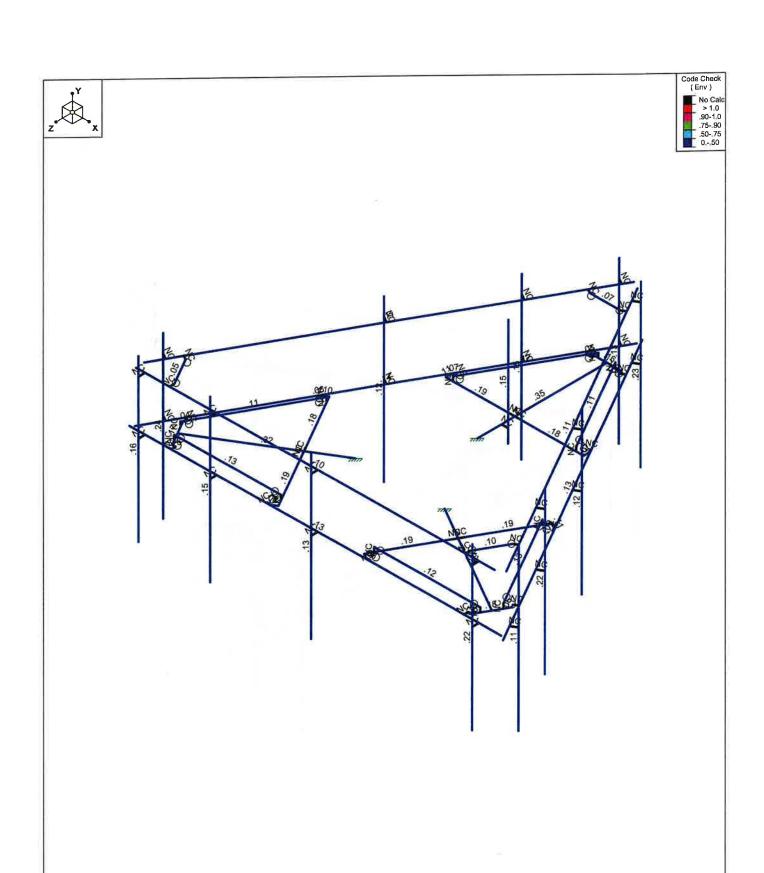






Envelope Only Solution

SK - 1
July 6, 2023 at 12:11 PM
5000382125-VZW_MT_LO_H.r3d

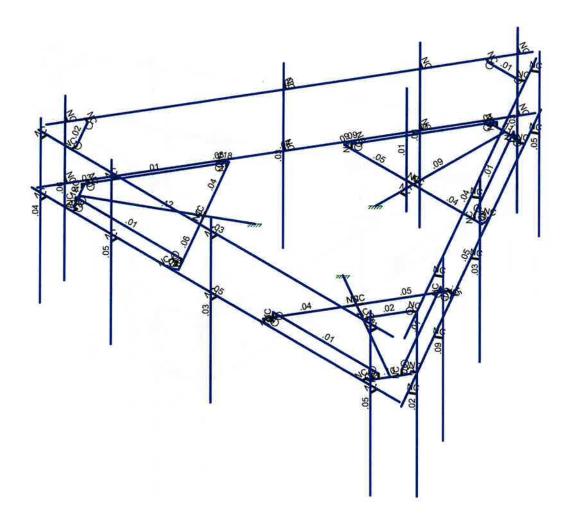


Member Code Checks Displayed (Enveloped) Envelope Only Solution

SK - 2
July 6, 2023 at 12:11 PM
5000382125-VZW_MT_LO_H.r3d







Member Shear Checks Displayed (Enveloped) Envelope Only Solution

SK - 3

July 6, 2023 at 12:11 PM

5000382125-VZW\_MT\_LO\_H.r3d

**Basic Load Cases** 

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point 99	Distributed	Area(Me	Surface(
1	Antenna D	None None					99			
2	Antenna Di		1				99			
3	Antenna Wo (0 Deg)	None	-				99			
_	Antenna Wo (30 Deg)	None					99			
_	Antenna Wo (60 Deg)	None	-				99			
6	Antenna Wo (90 Deg)	None	-				99			
7_	Antenna Wo (120 Deg)	None	1				99			
8	Antenna Wo (150 Deg)	None	-				99			
9	Antenna Wo (180 Deg)	None	-				99			
10	Antenna Wo (210 Deg)	None					99			
11	Antenna Wo (240 Deg)	None	-				99			
12	Antenna Wo (270 Deg)	None	-				99			
13	Antenna Wo (300 Deg)	None					99			
<u> 14</u>	Antenna Wo (330 Deg)	None	+				99			
15_	Antenna Wi (0 Deg)	None					99			
16_	Antenna Wi (30 Deg)	None					99			
17	Antenna Wi (60 Deg)	None	-				99			
18_	Antenna Wi (90 Deg)	None					99			
19	Antenna Wi (120 Deg)	None					99			
20_	Antenna Wi (150 Deg)	None	+				99			
21_	Antenna Wi (180 Deg)	None	_				99			
22	Antenna Wi (210 Deg)	None					99			
23_	Antenna Wi (240 Deg)	None	_				99			
24	Antenna Wi (270 Deg)	None					99			1
25	Antenna Wi (300 Deg)	None					99			
26	Antenna Wi (330 Deg)	None					99			
27	Antenna Wm (0 Deg)	None	-				99			
28_	Antenna Wm (30 Deg)	None					99			
29	Antenna Wm (60 Deg)	None					99			
30	Antenna Wm (90 Deg)	None		-			99	_		
31	Antenna Wm (120 Deg)	None						+		
32	Antenna Wm (150 Deg)	None					99			+
33	Antenna Wm (180 Deg)	None								1
34	Antenna Wm (210 Deg)	None					99	+		
35	Antenna Wm (240 Deg)	None					99		-	
36	Antenna Wm (270 Deg)	None					99		-	+
37	Antenna Wm (300 Deg)	None					99			-
38	Antenna Wm (330 Deg)	None					99		2	-
39	Structure D	None		1				50	3	
40	Structure Di	None					-	58	3	
	Structure Wo (0 Deg)	None						116	-	
42	Structure Wo (30 Deg)	None						116	-	
43	Structure Wo (60 Deg)	None						116		
44	Structure Wo (90 Deg)	None						116		-
45	Structure Wo (120 Deg)	None						116		
46	Structure Wo (150 Deg)	None						116	-	-
47	Structure Wo (180 Deg)	None						116		-
48	Structure Wo (210 Deg)	None						116		-
49	Structure Wo (240 Deg)	None						116	_	-
50	Structure Wo (270 Deg)	None						116		4
51	Structure Wo (300 Deg)	None						116		
52	Structure Wo (330 Deg)	None						116		4
53	Structure Wi (0 Deg)	None						116		-
	Structure Wi (30 Deg)	None						116		
54	Structure Wi (60 Deg)	None						116		4
55 56	Structure Wi (90 Deg)	None						116		1

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	7 Gravity	Joint	Point	Distributed A	rea(Me	Surface/
57	Structure Wi (120 Deg)	None		Cintra	_ Coloring	Joint	I OIII	116	Calivia	Janace(
58	Structure Wi (150 Deg)	None						116		
59	Structure Wi (180 Deg)	None						116		
60	Structure Wi (210 Deg)	None						116		
61	Structure Wi (240 Deg)	None						116		
62	Structure Wi (270 Deg)	None						116		
63	Structure Wi (300 Deg)	None						116		
64	Structure Wi (330 Deg)	None						116		
65	Structure Wm (0 Deg)	None						116		
66	Structure Wm (30 Deg)	None						116		
67	Structure Wm (60 Deg)	None						116		
68	Structure Wm (90 Deg)	None						116		
69	Structure Wm (120 Deg)	None						116		
70	Structure Wm (150 Deg)	None						116		
71	Structure Wm (180 Deg)	None						116		
72	Structure Wm (210 Deg)	None						116		1
73	Structure Wm (240 Deg)	None						116		
74	Structure Wm (270 Deg)	None						116		i -
75	Structure Wm (300 Deg)	None						116		
76	Structure Wm (330 Deg)	None						116		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	Antenna Ev	None					99			
82	Antenna Eh (0 Deg)	None					66			
83	Antenna Eh (90 Deg)	None					66			
84	Structure Ev	ELY		041					3	
85	Structure Eh (0 Deg)	ELZ			103				3	
86	Structure Eh (90 Deg)	ELX	.103						3	
	BLC 39 Transient Area L	None						30		
	BLC 40 Transient Area L	None						30		
	BLC 84 Transient Area L	None						30		
	BLC 85 Transient Area L	None						30		
91	BLC 86 Transient Area L	None						30		

#### Load Combinations

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

Load	d Combinations	(Co	nti	nued)												_	_		_		5 7,	20070	-
	Description	So	Р	S BLC	Fac.	BLC	Fac.	BLC	Fac	BLC	ac	BLC	Fac	BLC	Fac	BLC	Fac	BLC	Fac	BLCF	acF	BLCF	ac
18	1.2D + 1.0Di + 1.0Wi (			1	1.2	39	1.2	2	1	40	1	20	1	58	1					_	$\rightarrow$	_	-
	1.2D + 1.0Di + 1.0Wi (			1	1.2		1.2	2	1	40	1_	21	1	59	1			_		_	$\rightarrow$	_	-
	1.2D + 1.0Di + 1.0Wi (			1			1.2	2	1	40	1	22	1	60	1			$\Box$		_	_	-	_
	1.2D + 1.0Di + 1.0Wi (		Ÿ	1	1.2		1.2		1	40	1_	23	1	61	1					_		_	_
	1.2D + 1.0Di + 1.0Wi (			1	1.2		1.2	2	1	40	1_	24	1	62	1						_	_	
23	1.2D + 1.0Di + 1.0Wi (	Yes	Ÿ	1	1.2	_	1.2	2	1	40	1	25	1	63	1							_	_
	1.2D + 1.0Di + 1.0Wi (			1		_	1.2	2	1	40	1	26	1	64	1							_	
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2		1.5	27	1_	65	1_										
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2		1.5	28	1	66	1									_	
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2			29	1	67	1_									_	
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2		1.5	30	1	68	1									_	
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2			31	1	69	1									_	
	1.2D + 1.5Lm1 + 1.0W.			1					1.5	32	1	70	1										
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2		1.5	33	1	71	1										
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2			34	1	72	1										
	1.2D + 1.5Lm1 + 1.0W.			1	1.2					35	1	73	1										
	1.2D + 1.5Lm1 + 1.0W.			1	1.2				1.5	_	1	74	1										
	1.2D + 1.5Lm1 + 1.0W.			1	1.2		1.2		1.5	37	1	75	1										
-00				1	1.2	30	12		1.5		1	76	1										
90	1.2D + 1.5Lm1 + 1.0W.			$\frac{1}{1}$	1.2	30	12	78	1.5	27	1	65	1										
37	1.2D + 1.5Lm2 + 1.0W.	Vec	Y	1	1.2				1.5		1	66	1										
	1.2D + 1.5Lm2 + 1.0W.	Voc	V	1	1.2	30	12	78	1.5	20	1	67	1										
	1.2D + 1.5Lm2 + 1.0W				1.2				1.5		1	68	1										
	1.2D + 1.5Lm2 + 1.0W.			1					1.5		1	69											
41	1.2D + 1.5Lm2 + 1.0W,			1	1.2				1.5		1	70	1										
42	1.2D + 1.5Lm2 + 1.0W.			1	1.2				1.5		1	71	1										
	1.2D + 1.5Lm2 + 1.0W.			1	1.2		1.2		1.5		1	72	1										-
	1.2D + 1.5Lm2 + 1.0W.			1	1.2					35	1	73	1										
45	1.2D + 1.5Lm2 + 1.0W.			1	1.2				1.5		1	74	1										
_46	1.2D + 1.5Lm2 + 1.0W.			1	1.2				1.5		1	75	1										
47	1.2D + 1.5Lm2 + 1.0W.			1	1.2				1.5		1	76	1						5				
48	1.2D + 1.5Lm2 + 1.0W.			1	1.2	39	1.2	148	1.5	30		70		-	_								
49	1.2D + 1.5Lv1	Yes		1	1.2		1.2			$\vdash$		-											- 1
50	1.2D + 1.5Lv2	Yes		1	1.2	_	1.2	_	1.5		_	-	_	_	-		_			$\neg$			
51	1.4D	Yes	_	1	1.4		1.4		4	ELV	4	02	1	83		ELZ	1	ELX					
52	1.2D + 1.0Ev + 1.0Eh	. Yes	Y	1	1.2		1.2		-	ELY	1	82	.866				.866			$\neg$			$\neg$
53	1.2D + 1.0Ev + 1.0Eh	Yes		1	1.2		1.2		-	ELY	1	_	.5	00	.866				.866				
54	1.2D + 1.0Ev + 1.0Eh	Yes	Y	1	1.2		1.2			ELY	_1_	82	.5	_		ELZ		ELX			-		
55	1.2D + 1.0Ev + 1.0Eh	. Yes	_	1	1.2		1.2		-	ELY	1	82	-	83			5						
56	1.2D + 1.0Ev + 1.0Eh .	Yes	Y	1	1.2	39				ELY	1	82			.000		866		.5				
57	1.2D + 1.0Ev + 1.0Eh .	Yes	_	1	1.2					ELY	4		866 -1				-1						
58	1.2D + 1.0Ev + 1.0Eh .	Yes		1	1.2	39	1.2	81	1	ELY	1_	82	-1 866	83						-			
59	1.2D + 1.0Ev + 1.0Eh .	Yes	Y	1	1.2					ELY		102	5	03	0	旨	.000	EL X	- 866				
60	1.2D + 1.0Ev + 1.0Eh .	Yes	Y	1			1.2			ELY				03	000	===	5	鼠	1				
61	1.2D + 1.0Ev + 1.0Eh .	Yes	Y	1			1.2		_	ELY		82	F	03	966	岢	E		866	$\vdash$			
62	1.2D + 1.0Ev + 1.0Eh .	Yes	Y	1	1.2	39	1.2	81		ELY		82		03	000	E	900	타	.000				
63	1.2D + 1.0Ev + 1.0Eh .	Yes	Y	1		39	1.2	81	_	ELY	_	82					.866						
64	0.9D - 1.0Ev + 1.0Eh (.	. Yes	Y	1	.9		.9			ELY	_	82	1	83		ELZ		탅		$\rightarrow$		1	
65	0.9D - 1.0Ev + 1.0Eh (.	Yes	Y	1	.9			81		ELY	_		.866	83	.5	뜭	.000	뜴	000			-	
66	0.9D - 1.0Ev + 1.0Eh (.	Yes	Y	1			.9	81		ELY		82							.866			-	-
67	TOTAL A OFF			1	.9	39		81		ELY		82		83	1	===		ELX		$\rightarrow$	_		161
68	A LOTE /			1	.9	39		81		ELY			5			<u> </u>	5	달성	.000			-	
69	1			1		39		81	-1	ELY	_		866				866			$\vdash$		$\vdash$	- 12
70	0.9D - 1.0Ev + 1.0Eh (			1	.9	39	.9	81	-1	ELY		82	-1	83		ELZ	-1	ELX				-	
71	0.9D - 1.0Ev + 1.0Eh (			1	.9	39		81	-1	ELY		82	866	83	5	ELZ	866	ELX	5	$\vdash$		-	
72	0.9D - 1.0Ev + 1.0Eh (.			1	.9	39			-1	ELY		82	5	83	.866	ELZ	5	ELX	866				
73	0.9D - 1.0Ev + 1.0Eh (			1	.9	39	.9	81		ELY	-1	82		83	-1	ELZ			-1				
74	TOTAL A OFF /	Yes	Ý	1		39	.9			ELY	-1	82	.5	83	866	ELZ	.5	ELX	866				
14	D.00 1.001 . 1.0011 (		É						_	-		V.50	0020	044	VE \/	7101	MI	10	Ше	241		Pac	2.3



#### Load Combinations (Continued)

| Description | So., P., S., BLCFac, B

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap.
1	CP	0	0	0	Ó	
2	N36	-6.999996	0	4.012182	0.	
3	N53A	6.833329	0	4.012182	0	
4	N112A	-0.	0	-1.916664	0	
5	N113A	-0.	0	-3.315364	0	
6	N114	-0.	0	-6.75008	0	
7	N115	-2.572908	0	-3.315367	0	
8	N116A	2.299372	0.166667	-3.315367	0	
9	N117	-2.299368	0.166667	-3.315367	0	
10	N119	2.299372	0	-3.315367	0	
11	N120B	-2.299368	0	-3.315367	0	
12	N121	0.316678	0.166667	-6.749488	0	
13	N122	-0.315987	0.166667	-6.750678	0	
14	N123	0.317021	0	-6.750084	0	
15	N124A	-0.31633	0	-6.750084	0	
16	N125	2.572911	0	-3.315367	0	
17	N126	-0.166665	0	-3.315367	0	
18	N127	0.166669	0	-3.315367	0	
19	N128	0.546877	0	-6.750084	0	
20	N129	-0.546873	0	-6.750084	0	
21	N130	-2.572908	0	-3.502867	0	
22	N131	2.572911	0	-3.502867	0	
23	N132	-2.489574	0	-3.647205	0	
24	N133	-2.517759	0	-3.663478	0	
25	N134	-0.609373	0	-6.64183	0	
26	N135	-0.750998	0	-6.723598	0	
27	N136	2.489578	0	-3.647205	0	
28	N137	2.517763	0	-3.663478	0	
29	N138	0.609377	0	-6.64183	0	
30	N139	0.751002	0	-6.723598	0	
31	N34	-1.65988	0	0.958332	0	
32	N35	-2.87119	0	1.657682	0	
33	N36A	-5.845741	0	3.37504	Ö	
34	N37	-1.584739	0	3.885887	0	
35	N38	-4.020878	0.166667	-0.333631	0	
36	N39	-1.721508	0.166667	3.648995	Ö	
37	N40	-4.020878	0	-0.333631	Ō	
38	N41	-1.721508	0	3.648995	Ö	
39	N42	-6.003567	0.166667	3.100493	Ö	
40	N43	-5.688265	0.166667	3.648992	Ö	
41	N44	-6.004255	0	3.100493	0	
42	N45	-5.687579	0	3.648992	0	
43	N46	-4.157648	0	-0.570523	0	
44	N47	-2.78786	0	1.80202	0	
45	N48	-2.954527	0	1.513344	0	
46	N49	-6.119182	0	2.901432	0	
47	N50	-5.572307	0	3.848648	0	
48	N51	-1.747118	0	3.979637	0	
49	N52	-4.320028	0	-0.476773	0	
50	N53	-1.913785	0	3.979637	0	
51	N54	-1.913785	0	4.012182	0	



Joint Coordinates and Temperatures (Continued)

	Label	emperatures (Co	Y [ft]	Z [ft]	Temp [F]	Detach From Diag
52	N55	-5.447307	0	3.848648	0	
53	N56	-5.447307	0	4.012182	0	
54	N57	-4.403361	0	-0.332435	0	1 19-2
	N58	-4.431546	0	-0.348708	0	
55	N59	-6.056682	0	2.793179	0	
56	N60	-6.198308	0	2.711412	0	
57	N62	1.65988	0	0.958332	0	
58		2.87119	0	1.657682	0	
59	N63	5.845741	0	3.37504	0	
60	N64	4.157646	0	-0.57052	0	
61	N65	1.721507	0.166667	3.648998	0	
62	N66		0.166667	-0.333627	0	
63	N67	4.020876	0.100007	3.648998	Ö	
64	N68	1.721507	0	-0.333627	0	
65	N69	4.020876	0.166667	3.648995	0	
66	N70	5.686889		3.101686	0	
67	N71	6.004252	0.166667		0	
68	N72	5.687233	0	3.64959	0	
69	N73	6.003909	0	3.101092	Ö	
70	N74	1.584737	0	3.88589		
71	N75	2.954525	0	1.513348	0	
72	N76	2.787858	0	1.802023	0	1/4
73	N77	5.572305	0	3.848651	0	
74	N78	6.11918	0	2.901436	0	
75	N79	4.320026	0	-0.47677	0	
76	N80	1.747116	0	3.97964	0	
77	N81	4,403359	0	-0.332432	0	
78	N82	4.431544	0	-0.348705	0	
79	N83	6.05668	0	2.793183	0	
80	N84	6.198306	0	2.711415	0	13.01
	N85	1.913783	0	3.97964	0	
81	N86	1.913783	0	4.012186	0	
82	N87A	5.447305	0	3.848651	0	
83		5.447305	Ö	4.012186	0	M P
84	N88	7.016317	0	4.128252	0	
85	N86A	-0.067013	0	-8.140434	0	
86	N87	-0.057987	0	-7.923928	0	
87	N88A		0	3.911746	0	
88	N89	-6.891317	0	4.012182	0	
89	N89A	5.999996	0	4.012182	0	
90	N90	-0.000004	0	4.012182	0	
91	N91	-3.750004		4.012182	0	
92	N92	-6.416671	0		0	
93	N93	5.999996	0	4.262182	0	
94	N94	-0.000004	0	4.262182	0	
95	N95	-3.750004	0	4.262182		
96	N96	-6.416671	0	4.262182	0	
97	N97	5.999996	2.666667	4.262182	0	
98	N98	-0.000004	2.666667	4.262182	0	
99	N99	-3.750004	2.666667	4.262182	0	
100	N100	-6.416671	2.666667	4.262182	0	
101	N101	5.999996	-3.333333	4.262182	0	
102	N102	-0.000004	-3.333333	4.262182	0	
103	N103	-3,750004	-3.333333	4.262182	0	
104	N104	-6.416671	-3.333333	4.262182	0	
105	N104	0.474654	0	-7.20224	0	
	N107	3.474654	0	-2.006088	0	
106 107	N107	5.349654	0	1.241507	0	
1117 E	IN IUO	6.682987	0	3.550908	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap
109	N110	0.69116	0	-7.32724	Ó	
110	N111	3.69116	0	-2.131088	0	
111	N112	5.56616	0	1.116507	0	
112	N113	6.899494	0	3.425908	0	
113	N114A	0.69116	2.666667	-7.32724	0	
114	N115A	3.69116	2.666667	-2.131088	0	
115	N116	5.56616	2.666667	1.116507	0	
116	N117A	6.899494	2.666667	3.425908	0	
117	N118	0.69116	-3.333333	-7.32724	0	
118	N119A	3.69116	-3.333333	-2.131088	0	
119	N120	5.56616	-3.333333	1.116507	0	
120	N121A	6.899494	-3.333333	3.425908	0	
121	N123A	-6.47465	0	3.190058	0	
122	N124	-3.47465	0	-2.006095	0	1.66
123	N125A	-1.59965	0	-5.25369	0	
124	N126A	-0.266317	0	-7.563091	0	
125	N127A	-6.691156	0	3.065058	0	
126	N128A	-3.691156	0	-2.131095	0	
127	N129A	-1.816156	0	-5.37869	0	
128	N130A	-0.482823	0	-7.688091	0	
129	N131A	-6.691156	2.666667	3.065058	0	
130	N132A	-3.691156	2.666667	-2.131095	0	
131	N133A	-1.816156	2.666667	-5.37869	0	
132	N134A	-0.482823	2.666667	-7.688091	0	
133	N135A	-6.691156	-3.333333	3.065058	0	
134	N136A	-3.691156	-3.333333	-2.131095	0	
135	N137A	-1.816156	-3.333333	-5.37869	0	
136	N138A	-0.482823	-3.333333	<b>-7.688091</b>	0	
137	N137B	-0.	0	-2.815364		
138	N138B	0.25	0	-2.815364	0	
139	N139A	0.25	5			
140	N140	0.25	3.5	-2.815364 -2.815364	0	
141	N141	5.999996	-0.333333		0	
142	N142	5.999996	1.666667	4.262182	0	
143	N143	5.999996	-2.333333	4.262182	0	
144	N146	5.999996		4.262182	0	
145	N147	-0.000004	2	4.012182	0	
146	N148	-3.750004	2	4.012182	0	
147	N149	-6.416671	2	4.012182	0	
148	N150	5.999996		4.012182	0	
149	N151	-0.000004	2	4.262182	0	
150	N152	-3.750004	2 2	4.262182	0	
151	1115			4.262182	0	
152	N153 N154	-6.416671	2	4.262182	0	
153	N155	0.474654	2	-7.20224	0	
154	N156	3.474654	2	-2.006088	0	
155	N157	5.349654	2	1.241507	0	
156	N158	0.69116	2	-7.32724	0	
		3.69116	2	-2.131088	0	
157 158	N159 N160	5.56616	2	1.116507	0	
		-6.47465	2	3.190058	0	
159	N161	-3.47465	2	-2.006095	0	
160	N162	-1.59965	2	-5.25369	0	
161	N163	-0.266317	2	-7.563091	0	
162	N164	-6.691156	2	3.065058	0	
163	N165	-3.691156	2	-2.131095	0	
164	N166	-1.816156	2	-5.37869	0	
165	N167	-0.482823	2	-7.688091	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap
166	N172	-5.499996	2	4.012182	0	
167	N173	5,499999	2	4.012182	0	
168	N174	-5,499996	2	3.845516	0	
169	N175	5.499999	2	3.845516	0	
170	N178	6.22465	2	2.757045	0	
171	N179	0.724487	2	-6.769516	0	
172	N180	6.080312	2	2.840378	0	
173	N181	0.58015	2	-6.686183	0	
174	N184	-0.724654	2	-6.769228	0	
175	N185	-6.224817	2	2.757334	0	
176	N186	-0.580316	2	-6.685894	0	
177	N187	-6.080479	2	2.840667	0	
	N184A	6.583329	2	4.012182	0	
178 179	N185A	0.182987	2	-7.707422	0	
180	N186A	-6.766317	2	3.695239	0	
181	N187A	-6.750004	2	4.012182	0	
182	N188	6.849654	2	3.839584	0	
183	N189	-0.09965	2	-7.851766	0	

Hot Rolled Steel Section Sets

1701	Label	Shape	Type	Design List	Material	Design R	A [in2]	lyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	PIPE 3.0	Beam	Pipe	Q235	Typical	2.07	2.85	2.85	5.69
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	Q235	Typical	3.37	7.8	7.8	12.8
3	Support Rail	PIPE 2.5	Beam	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
4	Support Rail Corner	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical	1.44	1.23	1.23	.031
5	Corner Plate	PL1/2X6	Beam	BAR	Q235	Typical	3	.063	9	.237
6	Platform Crossme	HSS4X4X4	Beam	SquareTube	Q235	Typical	3.37	7.8	7.8	12.8
7	Grating Support	L2x2x3	Beam	Single Angle	Q235	Typical	.722	.271	.271	.009
8	Mount Pipe	PIPE 2.0	Column	Wide Flange	A53 Gr.B	Typical	1.02	.627	.627	1,25
9	Mount Pipe 1	PIPE 2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
10	Cross Arm Plate	PL3/8x6	Column	RECT	Q235	Typical	2.25	.026	6.75	.101
11	Replacement Pipe	PIPE 2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89

**Hot Rolled Steel Properties** 

	Label	E [ksi]	G [ksi]	Nu	Therm (/1	Density[k/f	Yield[ksi]	Ry	Fu[ksi]	Rt
4	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
2	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3		29000	11154	.3	.65	.527	42	1.4	58	1.3
4_	A500 Gr.B RND	29000	11154	3	.65	.527	46	1.4	58	1.3
5	A500 Gr.B Rect		11154	3	.65	.49	35	1.6	60	1.2
6	A53 Gr.B	29000		.3	.65	.49	50	1.4	65	1.3
7	A1085	29000	11154			.49	35	1.5	58	1.2
8	Q235	29000	11154	3	.65	.49	30	1.0	1 00 1	

Member Primary Data

	HATENCEY	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
	Label	N53A	N36	IX OOMA	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Face Horizontal		Pipe	Q235	Typical
1	M20		N114		1 3 7 3	Standoff Horiz	Beam	SquareTube	Q235	Typical
2	M72A	N112A				Platform Cross	Beam	SquareTube	Q235	Typical
3	M73	N125	N127		+	Platform Cross	Beam	SquareTube	Q235	Typical
4	M74	N126	N115		+	1007-00-100-00-00-00-00-00-00-00-00-00-00-00		BAR	Q235	Typical
5	M75	N129	N128			Corner Plate	Beam		RIGID	Typical
6	M76	N117	N120B			RIGID	None	None	RIGID	1 ypicai



### Member Primary Data (Continued)

	oc: r mnai			terrore or s	BANDAN VVV	7 B 100V 1 VVV	1500	7 TO 10 TO 1		
7	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
	M77	N116A	N119			RIGID	None	None	RIGID	Typical
8	M78	N121	N116A			Grating Support		Single Angle	Q235	Typical
9	M79	N117	N122			Grating Support		Single Angle	Q235	Typical
10	M80	N122	N124A			RIGID	None	None	RIGID	Typical
11	M81	N121	N123			RIGID	None	None	RIGID	Typical
12	M82	N126	N113A			RIGID	None	None	RIGID	Typical
13	M83	N113A	N127			RIGID	None	None	RIGID	Typical
14	M84	N115	N130			Cross Arm Plate	Column	RECT	Q235	Typical
15	M85	N130	N132			Cross Arm Plate	Column	RECT	Q235	Typical
16	M86A	N132	N133			RIGID	None	None	RIGID	Typical
17	M87A	N129	N134			Corner Plate	Beam	BAR	Q235	Typical
18	M88	N134	N135			RIGID	None	None	RIGID	Typical
19	M89A	N125	N131			Cross Arm Plate	Column	RECT	Q235	Typical
20	M90A	N131	N136			Cross Arm Plate	Column	RECT	Q235	Typical
21	M91	N136	N137			RIGID	None	None	RIGID	Typical
22	M92	N128	N138			Corner Plate	Beam	BAR	Q235	Typical
23	M93A	N138	N139			RIGID	None	None	RIGID	Typical
24	M25	N34	N36A			Standoff Horiz	Beam	SquareTube	Q235	Typical
25	M26	N46	N48			Platform Cross	Beam	SquareTube	Q235	
26	M27	N47	N37			Platform Cross				Typical
27	M28	N50	N49			Corner Plate	Beam Beam	SquareTube	Q235	Typical
28	M29	N39	N41			RIGID		BAR	Q235	Typical
29	M30	N38	N40			RIGID	None	None	RIGID	Typical
30	M31	N42	N38			Grating Support	None	None	RIGID	Typical
31	M32	N39	N43				Beam	Single Angle	Q235	Typical
32	M33	N43				Grating Support	Beam	Single Angle	Q235	Typical
33	M34	N43	N45 N44			RIGID	None	None	RIGID	Typical
34	M35	N47				RIGID	None	None	RIGID	Typical
35	M36		N35			RIGID	None	None	RIGID	Typical
36	M37	N35	N48			RIGID	None	None	RIGID	Typical
37		N37	N51			Cross Arm Plate	Column	RECT	Q235	Typical
	M38	N51	N53			Cross Arm Plate		RECT	Q235	Typical
38	M39	N53	N54			RIGID	None	None	RIGID	Typical
	M40	N50	N55			Corner Plate	Beam	BAR	Q235	Typical
40	M41	N55	N56			RIGID	None	None	RIGID	Typical
41	M42	N46	N52			Cross Arm Plate	Column	RECT	Q235	Typical
42	M43	N52	N57			Cross Arm Plate		RECT	Q235	Typical
43	M44	N57	N58			RIGID	None	None	RIGID	Typical
44	M45	N49	N59			Corner Plate	Beam	BAR	Q235	Typical
45	M46	N59	N60			RIGID	None	None	RIGID	Typical
46	M47	N62	N64			Standoff Horiz	Beam	SquareTube	Q235	Typical
47	M48	N74	N76			Platform Cross	Beam	SquareTube	Q235	Typical
48	M49	N75	N65			Platform Cross	Beam	SquareTube	Q235	Typical
49	M50	N78	N77			Corner Plate	Beam	BAR	Q235	Typical
50	M51	N67	N69			RIGID	None	None	RIGID	Typical
51	M52	N66	N68			RIĞID	None	None	RIGID	Typical
52	M53	N70	N66	4 9		Grating Support		Single Angle	Q235	Typical
53	M54	N67	N71			Grating Support	Beam	Single Angle	Q235	Typical
54	M55	N71	N73			RIGID	None	None	RIGID	Typical
55	M56	N70	N72			RIGID	None	None	RIGID	Typical
56	M57	N75	N63			RIGID	None	None	RIGID	Typical
57	M58	N63	N76			RIGID	None	None	RIGID	Typical
58	M59	N65	N79				Column	RECT	Q235	Typical
59	M60	N79	N81			Cross Arm Plate		RECT	Q235	Typical
60	M61	N81	N82			RIGID	None	None	RIGID	Typical
61	M62	N78	N83			Corner Plate	Beam	BAR	Q235	Typical
62	M63	N83	N84			RIGID	None	None	RIGID	Typical
63	M64	N74	N80			Cross Arm Plate	Column	RECT	Q235	Typical
							Columni	1(0)	G/ZUU	i ypicai

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint		Section/Shape	Type	Design List	Material	Design Rules
64	M65	N80	N85			Cross Arm Plate			Q235	Typical
65	M66	N85	N86			RIGID	None	None	RIGID	Typical
66	M67	N77	N87A			Corner Plate		BAR	Q235	Typical
67	M68A	N87A	N88			RIGID	None	None	RIGID	Typical
68	M68	N87	N86A			Face Horizontal	20001111	Pipe	Q235	Typical
69	M69	N89	N88A			Face Horizontal		Pipe	Q235	Typical
70	M70	N96	N92			RIGID	None	None	RIGID	Typical
71	M71	N95	N91			RIGID	None	None	RIGID	Typical
72	M72	N94	N90			RIGID	None	None	RIGID	Typical
73	M73A	N93	N89A			RIGID	None	None	RIGID	Typical
74	MP4A	N100	N104			Mount Pipe		Wide Flange		
75	МРЗА	N99	N103			Mount Pipe		Wide Flange		
76	MP2A	N98	N102			Replacement	Column	Pipe	A53 Gr.B	
77	MP1A	N97	N101			Mount Pipe	Column	Wide Flange		
78	M78A	N113	N109			RIGID	None	None	RIGID	Typical
79	M79A	N112	N108			RIGID	None	None	RIGID	Typical
80	M80A	N111	N107			RIGID	None	None	RIGID	Typical
81	M81A	N110	N106			RIGID	None	None	RIGID	Typical
82	MP4C	N117A	N121A			Mount Pipe	Column	Wide Flange	A53 Gr.B	
	MP3C	N116	N120			Mount Pipe		Wide Flange		
83	MP2C	N115A	N119A				Column		A53 Gr.B	Typical
84	MP1C	N114A	N118			Mount Pipe		Wide Flange		
85		N130A	N126A			RIGID	None	None	RIGID	Typical
86	M86	N129A	N125A			RIGID	None	None	RIGID	Typical
87	M87	N129A	N124			RIGID	None	None	RIGID	Typical
88	M88A	N126A N127A	N123A			RIGID	None	None	RIGID	Typical
89	M89					Mount Pipe		Wide Flange		
90	MP4B	N134A	N138A N137A			Mount Pipe	Column	Wide Flange	A53 Gr.B	Typical
91	MP3B	N133A	N137A N136A			Replacement	Column		A53 Gr.B	
92	MP2B	N132A				Mount Pipe		Wide Flange		
93	MP1B	N131A	N135A			Mount Pipe		Wide Flange		
94	OVP	N140	N139A			RIGID	None	None	RIGID	Typical
95	M95	N137B	N138B			RIGID	None	None	RIGID	Typical
96	M97	N153	N149			RIGID	None	None	RIGID	Typical
97	M98	N152	N148			RIGID	None	None	RIGID	Typical
98	M99	N151	N147		-	RIGID	None	None	RIGID	Typical
99	M100	N150	N146			RIGID	None	None	RIGID	Typical
100	M101	N159	N156			RIGID	None	None	RIGID	Typical
101	M102	N158	N155		<b> </b>	RIGID	None	None	RIGID	Typical
102	M103	N157	N154				None	None	RIGID	Typical
103	M104	N167	N163		-	RIGID		None	RIGID	Typical
104	M105	N166	N162		-	RIGID	None	None	RIGID	Typical
105	M106	N165	N161			RIGID	None	1111111	RIGID	Typical
106	M107	N164	N160			RIGID	None	None		Typical
107	M110	N172	N174			RIGID	None	None	RIGID	
108	M111	N173	N175			RIGID	None	None	RIGID	Typical Typical
109	M113	N178	N180			RIGID	None	None	RIGID	
110	M114	N179	N181			RIGID	None	None	RIGID	Typical
111	M116	N184	N186			RIGID	None	None	RIGID	Typical
112	M117	N185	N187			RIGID	None	None	RIGID	Typical
113	M118	N174	N187			Support Rail C	Beam	Single Angle	A36 Gr.36	Typical
114	M119	N186	N181			Support Rail C	Beam	Single Angle		Typical
115	M120	N180	N175		90	Support Rail C	Beam	Single Angle	A36 Gr.36	Typical
116	M119A	N184A	N187A			Support Rail		Pipe	A53 Gr.B	
117	M120A	N185A	N188			Support Rail	Beam	Pipe	A53 Gr.B	
118	M121	N186A	N189			Support Rail	Beam	Pipe	A53 Gr.B	Typical

### Member Advanced Data

_	Label	I Release	J Release	1 Offset[in]	J Offset[in]	T/C Only Ph	nysical	Defl RatAnalysis	Inactive	Seismic.
1	M20						Yes			None
2	M72A						Yes	Default		None
3	M73					,	Yes			None
4	M74						Yes			None
5	M75						Yes			None
6	M76						Yes	** NA **		None
7	M77						Yes	** NA **		None
8	M78	00000X	00000X			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes			None
9	M79	00000X	00000X			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes			None
10	M80						Yes	** NA **		None
11	M81						Yes	** NA **		None
12	M82					,	Yes	** NA **		None
13	M83						Yes	** NA **		None
14	M84					· ·	Yes	** NA **		None
15	M85					Y	Yes	** NA **		None
16	M86A		BenPIN			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Yes	** NA **		None
17	M87A					,	Yes			None
18	M88		BenPIN			Y	Yes	** NA **		None
19	M89A						Yes	** NA **		None
20	M90A						Yes	** NA **		None
21	M91		BenPIN				Yes	** NA **		None
22	M92						Yes			None
23	M93A		BenPIN				Yes	** NA **		None
24	M25						Yes	Default		None
25	M26						Yes			None
26	M27						Yes			None
27	M28						Yes			None
28	M29						Yes	** NA **		None
29	M30						Yes	** NA **		None
30	M31	00000X	00000X				Yes			None
31	M32	00000X					Yes			None
32	M33						Yes	** NA **		None
33	M34						Yes	** NA **		None
34	M35							** NA **		None
35	M36							** NA **		None
36	M37							** NA **		None
37	M38							** NA **		None
38	M39		BenPIN				Yes	** NA **		None
39	M40						Yes			None
40	M41		BenPIN					** NA **		None
41	M42		3,5					** NA **		None
42	M43							** NA **		None
43	M44		BenPIN					** NA **		None
44	M45						Yes			None
45	M46		BenPIN					** NA **		None
46	M47						Yes	Default		None
47	M48						Yes	Dolaur		None
48	M49						Yes		1	None
49	M50						Yes			None
50	M51						Yes	** NA **	<b>†</b>	None
51	M52							** NA **		None
52	M53	00000X	OOOOOX				Yes	IVA		None
53	M54	00000X					Yes			None
54	M55	JOCOCO	COCOON				Yes	** NA **		None
55	M56				-			** NA **		
56	M57	1						** NA **		None None

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physica	I Defl RatAnalysis	Inactive	Seismic
57	M58						Yes	** NA **		None
58	M59						Yes	** NA **		None
59	M60						Yes	** NA **		None
60	M61		BenPIN				Yes	** NA **		None
61	M62						Yes			None
62	M63		BenPIN				Yes	** NA **		None
63	M64						Yes	** NA **		None
64	M65						Yes	** NA **		None
65	M66		BenPIN				Yes	** NA **		None
66	M67						Yes			None
67	M68A		BenPIN				Yes	** NA **		None
68	M68						Yes			None
69	M69						Yes			None
70	M70						Yes	** NA **		None
71	M71						Yes	** NA **		None
72	M72						Yes	** NA **		None
73	M73A						Yes	** NA **		None
74	MP4A						Yes	** NA **		None
75	MP3A						Yes	** NA **		None
	MP2A	-					Yes	** NA **		None
76	MP1A						Yes	** NA **		None
77							Yes	** NA **		None
78	M78A						Yes	** NA **		None
79	M79A						Yes	** NA **		None
80	M80A						Yes	** NA **		None
81	M81A						Yes	** NA **		None
82	MP4C	-					Yes	** NA **		None
83	MP3C						Yes	** NA **		None
84	MP2C	-					Yes	** NA **		None
85	MP1C	_					Yes	** NA **		None
86	M86						Yes	** NA **		None
87	M87	-					Yes	** NA **		None
88	M88A						Yes	** NA **		None
89	M89	de la companya de la					Yes	** NA **		None
90	MP4B						Yes	** NA **		None
91	MP3B	<b>.</b>					Yes	** NA **		None
92	MP2B	-					Yes	** NA **		None
93	MP1B	<u> </u>					Yes	** NA **		None
94	OVP	-					Yes	** NA **		None
95	M95						Yes	** NA **		None
96	M97	<b>.</b>					Yes			None
97	M98						Yes			None
98	M99						Yes	** NA **		None
99	M100				-		Yes	** NA **		None
100	M101						Yes	** NA **		None
101	M102					-	Yes	** NA **		None
102	M103						Yes	** NA **		None
103	M104						Yes	** NA **		None
104	M105						Yes	** NA **		None
105	M106						Yes	** NA **		None
106	M107						Yes	** NA **		None
107	M110	00000X			-	-		** NA **		None
108	M111	00000X					Yes	** NA **		None
109	M113	00000X			-		Yes	** NA **		None
110	M114	00000X					Yes			None
111	M116	00000X					Yes	** NA **		None
112	M117	00000X					Yes	** NA **		None
113	M118						Yes			INOHE



Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical	Defl Rat.	Analysis	Inactive	Seismic
114	M119						Yes			moure	None
115	M120						Yes				None
116	M119A						Yes				None
117	M120A						Yes				None
118	M121						Yes				None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
1	MP2A	Y	-17.6	4	
2	MP2A	Mv	.009	4	
3	MP2A	Mz	0	4	
4	MP2C	Y	-17.6	4	
5	MP2C	Mv	002	4	
6	MP2C	Mz	009	4	
7	MP4A	Y	-4.95		
8	MP4A	My	002	1	
9	MP4A	Mz	0	1	
10	MP4A	Y	-4.95	5	
11	MP4A	My	002	5	
12	MP4A	Mz	0	5	
13	MP4B	Y	-4.95	1	
14	MP4B	Mv	.000846	1	
15	MP4B	Mz	002	1	
16	MP4B	Y	-4.95	5	
17	MP4B	Mv	.000846	5	
18	MP4B	Mz	002	5	
19	MP4C	Y	-4.95	1	
20	MP4C	My	.000846	1	
21	MP4C	Mz	.002	1	
22	MP4C	Y	-4.95	5	
23	MP4C	Mv	.000846		
24	MP4C	Mz	.002	5	
25	MP2A	Y	-23	5	
26	MP2A	My	017	1	
27	MP2A	Mz	.015	1	
28	MP2A	Y		1	
29	MP2A	Mv	-23	5	
30	MP2A	Mz	017	5	
31	MP2B	Y	.015	5	
32	MP2B		-23	1	
33	MP2B	My	009	1	
34	MP2B	Mz Y	021	11	
35	MP2B		-23	5	
36	MP2B	My	009	5	
37	MP2A	Mz Y	021	5	
38	MP2A		-23	11	
39	MP2A	My	017	11_	
40		Mz	015	11	
41	MP2A	Y	-23	5	
42	MP2A	My	017	5	
	MP2A	Mz	015	5	
43	MP2B	Y	-23	1	
44	MP2B	My	.02	1	
45	MP2B	Mz	011	1	
46	MP2B	Y	-23	5	
47	MP2B	My	.02	5	



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

	Member Label	: Antenna D) (Contin	Magnitude[lb,k-ft]	Location[ft,%]
48	MP2B	Mz	011	5
19	MP2C	Y	-23	1
50	MP2C	My	.018	1
51	MP2C	Mz	.014	11
52	MP2C	Y	-23	5
53	MP2C	My	.018	5
54	MP2C	Mz	.014	5
55	MP2C	Y	-23	11
56	MP2C	My	012	1
57	MP2C	Mz	.02	1
58	MP2C	Y	-23	5
59	MP2C	My	012	5
60	MP2C	Mz	.02	5
61	MP1A	Y	-43.55	2
62	MP1A	My	033	2
63	MP1A	Mz	0	2
64	MP1A	Y	-43.55	4
65	MP1A	My	033	4
66	MP1A	Mz	0	4
67	MP1B	Y	-43.55	2
68	MP1B	My	.011	2
69	MP1B	Mz	031	2
	MP1B	Y	-43.55	4
70	MP1B	My	.011	4
71	MP1B	Mz	031	4
72	MP1C	Y	-43.55	2
73	MP1C	My	.006	2
74	MP1C	Mz	.032	2
75	MP1C	Y	-43.55	4
76	MP1C	My	.006	4
77		Mz	.032	4
78	MP1C	Y	-84.4	.5
79	MP3A	My	.04	.5
80	MP3A	Mz	.014	.5
81	MP3A	Y	-84.4	.5
82	MP3B	Mv	.04	.5
83	MP3B	Mz	.014	.5
84	MP3B	Y	-84.4	.5
85	MP3C	My	.04	.5
86	MP3C	Mz	.014	.5
87	MP3C	Y	-70.3	1.5
88	MP2A	My	.033	1.5
89	MP2A	Mz	.012	1.5
90	MP2A	Y	-70.3	1.5
91	MP2B		.033	1.5
92	MP2B	My	.012	1.5
93	MP2B	Mz	-70.3	1.5
94	MP2C	Y	.033	1.5
95	MP2C	My	.012	1.5
96	MP2C	Mz	-32	1 1
97	OVP	Y	-32 0	
98	OVP	My	0	1
99	OVP	Mz	U	1

Member Point Loads (BLC 2 : Antenna Di)

Mom	hor Labol	Direction	Magnitude[lb,k-ft]	Location[ft,%]
	1 Member Label MP2A	Y	-16.399	4
L IV	IF ZA			

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
3	MP2A	My	.008	4
4	MP2A MP2C	Mz	0	4
5		Y	-16,399	4
6	MP2C	My	001	4
7	MP2C	Mz	008	4
	MP4A	Y	-33.87	1
8	MP4A	My	017	1
9	MP4A	Mz	0	1
10	MP4A	Υ	-33.87	5
11	MP4A	My	017	5
12	MP4A	Mz	0	5
13	MP4B	Y	-33.87	11
14	MP4B	My	.006	1
15	MP4B	Mz	016	111
16	MP4B	Y	-33.87	5
17	MP4B	My	.006	5
18	MP4B	Mz	016	5
19	MP4C	Y	-33.87	1
20	MP4C	My	.006	1
21	MP4C	Mz	.016	1
22	MP4C	Y	-33.87	5
23	MP4C	My	.006	5
24	MP4C	Mz	.016	5
25	MP2A	Y	-78.44	1
26	MP2A	My	059	1
27	MP2A	Mz	.052	1
28	MP2A	Y	-78.44	5
29	MP2A	My	059	5
30	MP2A	Mz	.052	5
31	MP2B	Y	-78.44	1
32	MP2B	My	029	1
33	MP2B	Mz	073	1
34	MP2B	Y	-78.44	5
35	MP2B	My	029	5
36	MP2B	Mz	073	5
37	MP2A	Y	-78.44	1
38	MP2A	My	059	1
39	MP2A	Mz	052	1
40	MP2A	Y	-78.44	5
41	MP2A	My	059	5
42	MP2A	Mz	052	5
43	MP2B	Y	-78.44	1
44	MP2B	My	.069	1
45	MP2B	Mz	037	1
46	MP2B	Y	-78.44	5
47	MP2B	My	.069	5
48	MP2B	Mz	037	5
49	MP2C	Y	-78.44	1
50	MP2C	My	.062	
51	MP2C	Mz	.062	
52	MP2C	Y	-78.44	1
53	MP2C	My		5
54	MP2C	Mz	.062	5
55	MP2C	Y	.049	5
56	MP2C		-78.44	11
57	MP2C	My	041	1
58	MP2C	Mz Y	.067	1
JU	IVIFZU	Y	-78.44	5



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

	Member Label	Antenna Di) (Conti	Magnitude[lb,k-ft]	Location[ft.%]
FO	MP2C	Mv	041	5
59 60	MP2C	Mz	.067	5
61	MP1A	Y	-33.828	2
	MP1A	My	025	2
62	MP1A	Mz	0	2
63	MP1A	Y	-33.828	4
64	MP1A	My	025	4
65	MP1A	Mz	0	4
66	MP1B	Y	-33.828	2
67	MP1B	My	.009	2
68		Mz	024	2
69	MP1B	Y	-33.828	4
70	MP1B	My	.009	4
71	MP1B	Mz	024	4
72	MP1B	Y	-33.828	2
73	MP1C	My	.004	2
74	MP1C	Mz	.025	2
75	MP1C	Y	-33.828	4
76	MP1C	My	.004	4
77	MP1C	Mz	.025	4
78	MP1C	Y	-42.617	.5
79	MP3A	My	.02	.5
80	MP3A		.007	.5
81	MP3A	Mz Y	-42.617	.5
82	MP3B	My	.02	.5
83	MP3B		.007	.5
84	MP3B	Mz	-42.617	.5
85	MP3C	Y	.02	.5
86	MP3C	My	.007	.5
87	MP3C	Mz	-38.312	1.5
88	MP2A	Y	.018	1.5
89	MP2A	My	.007	1.5
90	MP2A	Mz		1.5
91	MP2B	Y	-38.312 .018	1.5
92	MP2B	My		1.5
93	MP2B	Mz	.007	1.5
94	MP2C	Υ	-38.312	1.5
95	MP2C	My	.018	1.5
96	MP2C	Mz	.007	1.5
97	OVP	Y	-72.174	1
98	OVP	My	0	
99	OVP	Mz	0	

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-0	4
2	MP2A	Z	-28.11	4
	MP2A	Mx	0	4
3	MP2C	X	0	4
4	MP2C	7	-9.116	4
5	MP2C MP2C	Mx	.004	4
6	MP4A	X	0	11
0	MP4A	7	-69.103	11
8	MP4A	Mx	0	11
9	MP4A	X	0	5
10	MP4A	7	-69.103	5
12	MP4A MP4A	Mx	0	5



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

40 T	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
13	MP4B	X	0	1 1
15	MP4B		-40.623	1
16	MP4B	Mx	.019	1
17	MP4B	X	0	5
18	MP4B	Z	-40.623	5
	MP4B	Mx	.019	5
19	MP4C	X	0	1
	MP4C	Z	-40.623	1
21	MP4C	Mx	019	1
22	MP4C	X	0	5
23	MP4C	Z	-40.623	5
24	MP4C	Mx	019	5
25	MP2A	X	0	1
26	MP2A	Z	-69.25	1
27	MP2A	Mx	046	1
28	MP2A	X	0	5
29	MP2A	Z	-69.25	5
30	MP2A	Mx	046	5
31	MP2B	X	0	1
32	MP2B	Z	-53.865	1
33	MP2B	Mx	.05	1
34	MP2B	X	0	5
35	MP2B	Ž	-53.865	5
36	MP2B	Mx	.05	5
37	MP2A	X	0	
38	MP2A	Z	-69.25	1
39	MP2A	Mx	.046	
40	MP2A	X	0	1 5
41	MP2A	Z	-69.25	5
42	MP2A	Mx		5
43	MP2B	X	.046	5
44	MP2B	Ž	0	1
45	MP2B		-53.865	1
46	MP2B	Mx	.026	11
47	MP2B	X	0	5
48	MP2B	Z	-53.865	5
49		Mx	.026	5
50	MP2C	X	0 4	1
51	MP2C	Z	-52.353	11111
52	MP2C	Mx	033	8 1
53	MP2C	X	0	5
54	MP2C	Z	-52.353	5
	MP2C	Mx	033	5
55	MP2C	X Z	0	1
56	MP2C		-52.353	1
57	MP2C	Mx	045	1
58	MP2C	X	0	5
59	MP2C	Z	-52.353	5
60	MP2C	Mx	045	5
31	MP1A	X	0	2
32	MP1A	Z	-57.391	2
33	MP1A	Mx	0	2
64	MP1A	X	Ŏ	4
35	MP1A	Z	-57.391	4
66	MP1A	Mx	0	4
67	MP1B	X	0	2
88	MP1B	Z	-24.166	2
39	MP1B	Mx	.017	2



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

M	ember Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
70	MP1B	X	0	4
71	MP1B	Z	-24.166	4
72	MP1B	Mx	.017	4
73	MP1C	X	0	2
74	MP1C	Z	-20.899	2
75	MP1C	Mx	015	2
76	MP1C	X	0	4
77	MP1C	Z	-20.899	4
78	MP1C	Mx	015	4
79	MP3A	X	0	.5
80	MP3A	Z	-43.639	.5
81	MP3A	Mx	007	.5
82	MP3B	X	0	.5
83	MP3B	Z	-43.639	.5
	MP3B	Mx	007	.5
84	MP3C	X	0	.5
85 86	MP3C	Ž	-43.639	.5
	MP3C	Mx	007	.5
87	MP2A	X	0	1.5
88	MP2A	Z	-42.988	1.5
89	MP2A	Mx	007	1.5
90	MP2B	X	0	1.5
91	MP2B	Z	-42.988	1.5
92	MP2B	Mx	007	1.5
93	MP2C	X	0	1.5
94		Z	-42.988	1.5
95	MP2C	Mx	007	1.5
96	MP2C	X	0	1
97	OVP	Z	-90.218	1
98	OVP	Mx	0	1
99	OVP	I IVIX		

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	11.607	4
2	MP2A	Z	-20.104	4
3	MP2A	Mx	.006	4
4	MP2C	X	8.309	4
5	MP2C	Z	-14.391	4
6	MP2C	Mx	.006	4
7	MP4A	X	30.52	11
8	MP4A	Z	-52.862	1
9	MP4A	Mx	015	11
10	MP4A	X	30.52	5
	MP4A	Ž	-52.862	5
11	MP4A	Mx	015	5
12	MP4B	X	18.912	11_
13	MP4B	7	-32.756	
14	MP4B	Mx	.019	1
15	MP4B	X	18.912	5
16	MP4B	Ž	-32.756	5
17	MP4B	Mx	.019	5
18	MP4C	X	27.889	1
19	MP4C	Ž	-48.304	1
20		Mx	018	1
21	MP4C	X	27.889	5
22	MP4C	7	-48.304	5
23	MP4C		10.001	•

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
24	MP4C	Mx	018	5
25	MP2A	X	32.447	1
26	MP2A	Z	-56.2	1
27	MP2A	Mx	062	1
28	MP2A	X	32,447	5
29	MP2A	Z	-56.2	5
30	MP2A	Mx	062	5
31	MP2B	X	26.176	1
32	MP2B	Z	-45.339	
33	MP2B	Mx	.033	1
34	MP2B	X	26.176	5
35	MP2B	Z	-45.339	5
36	MP2B	Mx	.033	5
37	MP2A	X	32.447	1
38	MP2A	Z	-56.2	
39	MP2A	Mx	.013	1 1
0	MP2A	X	32.447	
1	MP2A	Z	-56.2	5
2	MP2A	Mx	-56.2 .013	5
3	MP2B	X	26.176	5
4	MP2B	Ž		1
5	MP2B	Mx	-45.339	1
6	MP2B		.045	<u>1</u>
7	MP2B	X	26.176	5
8	MP2B	Z	-45.339	5
9		Mx	.045	5
	MP2C MP2C	X	29.513	1
50		Z	-51.118	1
52	MP2C	Mx	009	1
53	MP2C	X	29.513	5
	MP2C	Z	-51,118	5
54	MP2C	Mx	009	5
55	MP2C	X	29.513	111
6	MP2C	Z	-51.118	11
7	MP2C	Mx	059	1
8	MP2C	X	29.513	5
9	MP2C	Z	-51.118	5
0	MP2C	Mx	059	5
1	MP1A	X	23.992	2
2	MP1A	Z	-41.556	2
3	MP1A	Mx	018	2
34	MP1A	X	23.992	4
5	MP1A	Z	-41.55 <del>6</del>	4
6	MP1A	Mx	018	4
7	MP1B	X	10.45	2
8	MP1B	Z	-18.099	2
9	MP1B	Mx	.015	2
0	MP1B	X	10.45	4
1	MP1B	Z	-18.099	4
2	MP1B	Mx	.015	4
3	MP1C	X	17.655	2
4	MP1C	Z	-30.58	2
5	MP1C	Mx	02	2
6	MP1C	X	17.655	4
7	MP1C	Z	-30.58	4
8	MP1C	Mx	02	4
9	MP3A	X	22.468	.5
0	MP3A	Z	-38.915	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
01	MP3A	Mx	.004	.5
81 82	MP3B	X	22.468	,5
83	MP3B	7	-38.915	.5
84	MP3B	Mx	.004	.5
85	MP3C	X	22.468	.5
86	MP3C	Z	-38.915	.5
87	MP3C	Mx	.004	.5
88	MP2A	X	22.384	1.5
89	MP2A	Z	-38.77	1.5
90	MP2A	Mx	.004	1.5
91	MP2B	X	22.384	1.5
92	MP2B	Z	-38.77	1.5
93	MP2B	Mx	.004	1.5
94	MP2C	X	22.384	1.5
95	MP2C	Z	-38.77	1.5
96	MP2C	Mx	.004	1.5
97	OVP	X	46.075	1
98	OVP	Z	-79.804	1
99	OVP	Mx	0	11

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	11.624	4
2	MP2A	Z	-6.711	4
	MP2A	Mx	.006	4
3	MP2C	X	22.36	4
4	MP2C	Z	-12.909	4
6	MP2C	Mx	.004	4
	MP4A	X	38.896	1
7	MP4A	Z	-22.457	1
8	MP4A	Mx	019	1
9	MP4A	X	38.896	5
10	MP4A MP4A	Z	-22.457	5
11	MP4A MP4A	Mx	019	5
12	MP4B	X	43.454	1
13		Z	-25.088	1111
14	MP4B	Mx	.019	1
15	MP4B	X	43,454	5
16	MP4B	7	-25.088	5
17	MP4B	Mx	.019	5
18	MP4B	X	59.003	1
19	MP4C	Z	-34.065	1
20	MP4C	Mx	006	1
21	MP4C	X	59.003	5
22	MP4C	Z	-34.065	5
23	MP4C	Mx	006	5
24	MP4C		48.656	1
25	MP2A	X	-28.091	
26	MP2A		055	1
27	MP2A	Mx	48.656	5
28	MP2A	X	-28.091	5
29	MP2A	Z	055	5
30	MP2A	Mx		1
31	MP2B	X	51.118	
32	MP2B	Z	-29.513	
33	MP2B	Mx	.009	5
34	MP2B	X	51.118	3

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

35	Member Label MP2B	Direction Z	Magnitude[lb,k-ft]	Location[ft,%]
36	MP2B	Mx	-29.513	5
37	MP2A		.009	5
38	MP2A	X	48.656	11
39	MP2A	Mx	-28.091	1
40	MP2A		018	11
41	MP2A	X	48.656	5
42	MP2A		-28.091	5
43	MP2B	Mx	018	5
44	MP2B	X	51.118	1
45	MP2B	Z	-29.513	1
46	MP2B	Mx	.059	11
47	MP2B	X	51.118	5
48	MP2B	Z	-29.513	5
49	MP2C	Mx	.059	5
50	MP2C MP2C	X	58.207	1
51	MP2C MP2C	Z	-33.606	1
52	MP2C	Mx	.025	1
53		X	58.207	5
54	MP2C MP2C	Z	-33.606	5
55	MP2C MP2C	Mx	.025	5
56		X	58.207	1
57	MP2C	Z	-33.606	1
58	MP2C	Mx	059	1
59	MP2C	X	58.207	5
60	MP2C	Z	-33.606	5
61	MP2C	Mx	059	5
	MP1A	X	25.263	2
62	MP1A	Z	-14.586	2
63	MP1A	Mx	019	2
64	MP1A	X	25.263	4
65	MP1A	Z	-14.586	4
66	MP1A	Mx	019	4
67	MP1B	X	30.58	2
68	MP1B	Z	-17.655	2
69	MP1B	Mx	.02	2
70	MP1B	X	30.58	4
71	MP1B	Z	-17.655	4
72	MP1B	Mx	.02	4
73	MP1C	X	45.89	2
74	MP1C	Z	-26.495	2
75	MP1C	Mx	014	2
76	MP1C	X	45.89	4
77	MP1C	Z	-26.495	4
78	MP1C	Mx	014	4
79	MP3A	X	33.962	.5
80	MP3A	Z	-19.608	.5
81	MP3A	Mx	.013	.5
82	MP3B	X	33.962	.5
83	MP3B	Z	-19.608	.5
84	MP3B	Mx	.013	.5
85	MP3C	X	33.962	.5
86	MP3C	Z	-19.608	.5
87	MP3C	Mx	.013	.5
88	MP2A	X	31.971	1.5
89	MP2A	Z	-18.458	1.5
90	MP2A	Mx	.012	1.5
91	MP2B	X	31.971	1.5



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

Direction	Magnitude(lb,k-ft)	Location[ft,%]
7	-18.458	1.5
Mx	.012	1.5
X	31.971	1.5
7		1.5
Mx	.012	1.5
X	72.422	11
7	-41.813	1
Mx	0	1
Member Label MP2B MP2B MP2C MP2C MP2C OVP OVP OVP	Member Label         Direction           MP2B         Z           MP2B         Mx           MP2C         X           MP2C         Z           MP2C         Mx           OVP         X           OVP         Z	Member Label         Direction         Magnitude[lb,k-ft]           MP2B         Z         -18.458           MP2B         Mx         .012           MP2C         X         31.971           MP2C         Z         -18.458           MP2C         Mx         .012           OVP         X         72.422           OVP         Z         -41.813

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

	Member Label	: Antenna Wo (90 De	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.526	4
2	MP2A	Z	0	4
3	MP2A	Mx	.004	4
4	MP2C	X	27.519	4
5	MP2C	Z	0	4
6	MP2C	Mx	002	4
7	MP4A	X	36.851	11
8	MP4A	Z	0	
9	MP4A	Mx	018	11
10	MP4A	X	36.851	5
11	MP4A	Z	0	5
12	MP4A	Mx	018	5
13	MP4B	X	65.33	1
14	MP4B	Z	0	1
15	MP4B	Mx	.011	1
16	MP4B	X	65.33	5
17	MP4B	Z	0	5
18	MP4B	Mx	.011	5
19	MP4C	X	65.33	1
	MP4C	Z	0	1
20	MP4C	Mx	.011	11
21	MP4C	X	65.33	5
22	MP4C	Z	0	5
23		Mx	.011	5
24	MP4C MP2A	X	51.827	1
25		Z	0	1
26	MP2A	Mx	039	1
27	MP2A	X	51.827	5
28	MP2A	Z	0	5
29	MP2A	Mx	039	5
30	MP2A	X	67.212	1
31	MP2B	Z	0	1
32	MP2B	Mx	025	1
33	MP2B	X	67.212	5
34	MP2B	Z	0	5
35	MP2B	Mx	025	5
36	MP2B		51.827	1
37	MP2A	X	0	1
38	MP2A		039	1
39	MP2A	Mx	51.827	5
40	MP2A	X	0	5
41	MP2A	Z	039	5
42	MP2A	Mx		1 1
43	MP2B	X	67.212	1
44	MP2B	Z	0	
45	MP2B	Mx	.059	



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

MP2B MP2B MP2B MP2C MP2C MP2C MP2C MP2C MP2C MP2C MP2C	X Z Mx X Z Mx X Z Mx X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Magnitude[lb.k-ft] 67.212 0 .059 68.724 0 .054	5 5 5 1
MP2B MP2C MP2C MP2C MP2C MP2C MP2C MP2C MP2C	Mx X Z Mx X Z	.059 68.724 0 .054	5 5 1 1
MP2C MP2C MP2C MP2C MP2C MP2C MP2C MP2C	X Z Mx X Z	68.724 0 .054	5 1 1
MP2C MP2C MP2C MP2C MP2C MP2C	Z Mx X Z	.054	
MP2C MP2C MP2C MP2C MP2C	Mx X Z	.054	
MP2C MP2C MP2C MP2C	X		
MP2C MP2C MP2C	Z	00.704	1
MP2C MP2C		68.724	5
MP2C		0	5
MP2C	Mx	.054	5
MP2C	X	68.724	1
	Z	0	1
MP2C	Mx	036	1
MP2C	X		5
	Z		5
	Mx		5
MP1A	X	19.765	2
	Z	0	2
	Mx	015	2
	X	19.765	4
	Z		4
	Mx		4
	X		2
	Z		2
	Mx		2
MP1B			4
MP1B	Z		4
MP1B			4
MP1C		56 256	2
MP1C			2
MP1C			2
MP1C			4
MP1C	7		4
			4
MP3A			.5
MP3A			.5
			.5
MP3B			.5
MP3B	Z		.5
			.5
MP3C			.5
MP3C			.5
MP3C			.5
			1.5
	Z		1.5
			1.5
			1.5
	7		1.5
		012	1.5
	7		1.5
		012	1.5
		72 17	1.5
			1
			1
	MP2C MP2C MP2C MP1A MP1A MP1A MP1A MP1A MP1A MP1A MP1B MP1B MP1B MP1B MP1B MP1C MP1C MP1C MP1C MP1C MP1C MP1C MP1C	MP2C         X           MP2C         Z           MP2C         Mx           MP1A         X           MP1A         X           MP1A         X           MP1A         X           MP1A         X           MP1B         X           MP1C         X           MP3A         X           MP3A         X           MP3B         X           MP3B         X           MP3B         X           MP3C         X	MP2C         X         68,724           MP2C         Z         0           MP2C         Mx        036           MP1A         X         19,765           MP1B         X         19,765           MP1B         X         10,00           MP1B         X         52,989           MP1B         X         56,256           MP1B         X         014           MP1B

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

Member Label Direction Magnitude(III) k ft) Legation[ft 9/1

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

	Member Label	: Antenna Wo (120 L	Magnitude[lb,k-ft]	Location[ft.%]
1	MP2A	X	11.624	4
2	MP2A	Z	6.711	4
3	MP2A	Mx	.006	4
4	MP2C	X	17.336	4
5	MP2C	Z	10.009	4
6	MP2C	Mx	006	4
7	MP4A	X	38.896	11
8	MP4A	Z	22.457	1
9	MP4A	Mx	019	11
10	MP4A	X	38.896	5
11	MP4A	Z	22.457	5
12	MP4A	Mx	019	5
13	MP4B	X	59.003	11
14	MP4B	Z	34.065	1
15	MP4B	Mx	006	11
16	MP4B	X	59.003	5
17	MP4B	Ž	34.065	5
18	MP4B	Mx	006	5
19	MP4C	X	43.454	1
20	MP4C	Z	25.088	1
21	MP4C	Mx	.019	1
	MP4C	X	43.454	5
22	MP4C	Ž	25.088	5
23		Mx	.019	5
24	MP4C	X	48.656	1
25	MP2A	Z	28.091	1
26	MP2A	Mx	018	1
27	MP2A	X	48.656	5
28	MP2A	Z	28.091	5
29	MP2A		018	5
30	MP2A	Mx X	59.517	1 1
31	MP2B	Z	34.362	1
32	MP2B		054	1
33	MP2B	Mx	59.517	5
34	MP2B	X	34.362	5
35	MP2B	Z	054	5
36	MP2B	Mx	48.656	1
37	MP2A	X		1
38	MP2A	Z	28.091 055	
39	MP2A	Mx	055 48.656	5
40	MP2A	X		5
41	MP2A	Z	28.091	5
42	MP2A	Mx	055 50.517	1
43	MP2B	X	59.517	
44	MP2B	Z	34.362	
45	MP2B	Mx	.036	5
46	MP2B	X	59.517	5
47	MP2B	Z	34.362	
48	MP2B	Mx	.036	5
49	MP2C	X	53.738	1
50	MP2C	Z	31.026	1
51	MP2C	Mx	.062	1
52	MP2C	X	53.738	5
53	MP2C	Z	31.026	5
54	MP2C	Mx	.062	5
55	MP2C	X	53.738	11
56	MP2C	Z	31.026	1
57	MP2C	Mx	002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2C	X	53.738	5
59	MP2C	Z	31.026	5
60	MP2C	Mx	002	5
61	MP1A	X	25.263	2
62	MP1A	Z	14.586	2
63	MP1A	Mx	019	2
64	MP1A	X	25.263	4
65	MP1A	Z	14.586	4
66	MP1A	Mx	019	4
67	MP1B	X	48.719	2
68	MP1B	Z	28.128	2
69	MP1B	Mx	007	2
70	MP1B	X	48.719	4
71	MP1B	Z	28.128	4
72	MP1B	Mx	007	4
73	MP1C	X	36.238	2
74	MP1C	Z	20.922	2
75	MP1C	Mx	.02	2
76	MP1C	X	36.238	4
77	MP1C	7	20.922	4
78	MP1C	Mx	.02	4
79	MP3A	X	26.762	.5
80	MP3A	Z	15.451	.5
81	MP3A	Mx	.015	.5
82	MP3B	X	26.762	.5
83	MP3B	Z	15.451	.5
84	MP3B	Mx	.015	.5
85	MP3C	X	26.762	.5
86	MP3C	Z	15.451	.5
87	MP3C	Mx	.015	.5
88	MP2A	X	22.09	1.5
89	MP2A	Z	12.753	1.5
90	MP2A	Mx	.013	1.5
91	MP2B	X	22.09	1.5
92	MP2B	Z	12.753	1.5
93	MP2B	Mx	.013	1.5
94	MP2C	X	22.09	1.5
95	MP2C	Z	12.753	1.5
96	MP2C	Mx	.013	1.5
97	OVP	X	61.694	1.5
98	OVP	Z	35.619	
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	11.607	4
2	MP2A	Z	20.104	4
3	MP2A	Mx	.006	4
4	MP2C	X	5.408	4
5	MP2C	Z	9.368	4
6	MP2C	Mx	005	4
7	MP4A	X	30.52	1
8	MP4A	Z	52.862	1
9	MP4A	Mx	015	1
10	MP4A	X	30.52	5
11	MP4A	Z	52.862	5

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

	Point Loads (BLC 8 : Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP4A	Mx	015	5
3	MP4B	X	27.889	11
4	MP4B	Z	48.304	
5	MP4B	Mx	018	11
16	MP4B	X	27.889	5
17	MP4B	Z	48.304	5
18	MP4B	Mx	018	5
19	MP4C	X	18.912	1
20	MP4C	Z	32.756	11
21	MP4C	Mx	.019	11
22	MP4C	X	18.912	5
23	MP4C	Z	32.756	5
24	MP4C	Mx	.019	5
25	MP2A	X	32.447	11
26	MP2A	Z	56.2	1
27	MP2A	Mx	.013	11
28	MP2A	X	32.447	5
29	MP2A	Z	56.2	5
30	MP2A	Mx	.013	5
31	MP2B	X	31.026	11
32	MP2B	Z	53.738	1
33	MP2B	Mx	062	1
34	MP2B	X	31.026	5
35	MP2B	Z	53.738	5
36	MP2B	Mx	062	5
37	MP2A	X	32.447	1
38	MP2A	Z	56.2	1
39	MP2A	Mx	062	11
40	MP2A	X	32.447	5
41	MP2A	Z	56.2	5
42	MP2A	Mx	062	5
43	MP2B	X	31,026	11
44	MP2B	Z	53.738	
45	MP2B	Mx	.002	11
46	MP2B	X	31.026	5
47	MP2B	Z	53.738	5
48	MP2B	Mx	.002	5
49	MP2C	X	26.933	1111
50	MP2C	Z	46.649	1
51	MP2C	Mx	.05	11
52	MP2C	X	26.933	5
53	MP2C	Z	46.649	5
54	MP2C	Mx	.05	5
55	MP2C	X	26.933	11
56	MP2C	Z	46.649	
57	MP2C	Mx	.026	11
58	MP2C	X	26.933	5
59	MP2C	Ž	46.649	5
60	MP2C	Mx	.026	5
61	MP1A	X	23.992	2
	MP1A	Z	41.556	2
62	MP1A	Mx	018	2
63	MP1A	X	23.992	4
64	MP1A MP1A	Ž	41.556	4
65	MP1A MP1A	Mx	018	4
66	MP1B	X	20.922	2
67	MP1B	7	36.238	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1B	Mx	02	2
70	MP1B	X	20.922	4
71	MP1B	Z	36.238	4
72	MP1B	Mx	02	4
73	MP1C	X	12.083	2
74	MP1C	Z	20.928	2
75	MP1C	Mx	.017	2
76	MP1C	X	12.083	4
77	MP1C	Z	20.928	4
78	MP1C	Mx	.017	4
79	MP3A	X	18.311	.5
80	MP3A	Z	31.716	.5
81	MP3A	Mx	.014	.5
82	MP3B	X	18.311	.5
83	MP3B	Z	31.716	.5
84	MP3B	Mx	.014	.5
85	MP3C	X	18.311	.5
86	MP3C	Z	31.716	.5
87	MP3C	Mx	.014	.5
88	MP2A	X	16.679	1.5
89	MP2A	Z	28.889	1.5
90	MP2A	Mx	.013	1.5
91	MP2B	X	16.679	1.5
92	MP2B	Z	28.889	1.5
93	MP2B	Mx	.013	1.5
94	MP2C	X	16.679	1.5
95	MP2C	Z	28.889	1.5
96	MP2C	Mx	.013	1.5
97	OVP	X	39.881	1.0
98	OVP	Z	69.076	
99	OVP	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	4
2	MP2A	Z	28.11	4
3	MP2A	Mx	0	4
4	MP2C	X	Ö	4
5	MP2C	Z	9.116	4
6	MP2C	Mx	004	4
7	MP4A	X	0	1
8	MP4A	Z	69,103	
9	MP4A	Mx	0	1
10	MP4A	X	0	5
11	MP4A	Ž	69.103	5
12	MP4A	Mx	0	5
13	MP4B	X	0	1
14	MP4B	Z	40.623	
15	MP4B	Mx	019	1
16	MP4B	X	0	5
17	MP4B	Z	40.623	5
18	MP4B	Mx		
19	MP4C	X	019 0	5
20	MP4C	7		
21	MP4C	Mx	40.623	+
22	MP4C	X	019 0	5



ds (BLC 9 : Antenna Wo (180 Dea)) (Continued)

	Member Label	: Antenna Wo (180 E	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4C	Z	40.623	5
24	MP4C	Mx	.019	5
25	MP2A	X	0	11
26	MP2A	Z	69.25	
27	MP2A	Mx	.046	1
28	MP2A	X	0	5
29	MP2A	Z	69.25	5
30	MP2A	Mx	.046	5
31	MP2B	X	0	1 1
32	MP2B	Z	53.865	
33	MP2B	Mx	05	1
34	MP2B	X	0	5
35	MP2B	Z	53.865	5
36	MP2B	Mx	05	5
37	MP2A	X	0	
38	MP2A	Z	69.25	
39	MP2A	Mx	046	
40	MP2A	X	0	5
41	MP2A	Z	69.25	5
42	MP2A	Mx	046	1 1
43	MP2B	X	0	
44	MP2B	Z	53.865	1
45	MP2B	Mx	026	5
46	MP2B	X	0	5
47	MP2B	Z	53.865	5
48	MP2B	Mx	026	1 1
49	MP2C	X	0	
50	MP2C	Z	52.353	1
51	MP2C	Mx	.033	5
52	MP2C	X	0	5
53	MP2C	Z	52.353	5
54	MP2C	Mx	.033	1 1
55	MP2C	X	0	
56	MP2C	Z	52.353	
57	MP2C	Mx	.045	5
58	MP2C	X	0	5
59	MP2C	Z	52.353	5
60	MP2C	Mx	.045	2
61	MP1A	X	0	2
62	MP1A	Z	57.391	2
63	MP1A	Mx	0	4
64	MP1A	X	0	4
65	MP1A	Z	57.391	4
66	MP1A	Mx	0	2
67	MP1B	X		2
68	MP1B	Z	24.166 017	2
69	MP1B	Mx	017	4
70	MP1B	X		4
71	MP1B	Z	24.166	4
72	MP1B	Mx	017 0	2
73	MP1C	X	20.899	2
74	MP1C	Z	.015	2
75	MP1C	Mx		4
76	MP1C	X	0 20.899	4
77	MP1C	Z		4
78	MP1C	Mx	.015	.5
79	MP3A	X	U	

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
80	MP3A	Z	43.639	.5
81	MP3A	Mx	.007	.5
82	MP3B	X	0	.5
83	MP3B	Z	43.639	.5
84	MP3B	Mx	.007	.5
85	MP3C	X	0	.5
86	MP3C	Z	43.639	.5
87	MP3C	Mx	.007	15
88	MP2A	X	0	1.5
89	MP2A	Z	42.988	1.5
90	MP2A	Mx	.007	1.5
91	MP2B	X	0	1.5
92	MP2B	Z	42.988	1.5
93	MP2B	Mx	.007	1.5
94	MP2C	X	0	1.5
95	MP2C	Z	42.988	1.5
96	MP2C	Mx	.007	1.5
97	OVP	X	0	1
98	OVP	Z	90.218	1
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
1	MP2A	X	-11.607	4
2	MP2A	Z	20,104	4
3	MP2A	Mx	006	4
4	MP2C	X	-8.309	4
5	MP2C	Z	14.391	4
6	MP2C	Mx	006	4
7	MP4A	X	-30.52	1
8	MP4A	Z	52.862	1
9	MP4A	Mx	.015	1
10	MP4A	X	-30.52	5
1	MP4A	Z	52.862	5
12	MP4A	Mx	.015	5
13	MP4B	X	-18.912	1
14	MP4B	Z	32.756	1
15	MP4B	Mx	019	
16	MP4B	X	-18.912	5
7	MP4B	Z	32.756	5
18	MP4B	Mx	019	5
19	MP4C	X	-27.889	1 1
20	MP4C	7	48.304	1
21	MP4C	Mx	.018	1
22	MP4C	X	-27.889	5
23	MP4C	Z	48.304	5
24	MP4C	Mx	.018	5
25	MP2A	X	-32.447	1
26	MP2A	Z	56.2	1
27	MP2A	Mx	.062	1
28	MP2A	X	-32.447	5
29	MP2A	Z	56.2	5
30	MP2A	Mx	.062	5
11	MP2B	X	-26.176	1
32	MP2B	7	45.339	1
33	MP2B	Mx	033	1



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

	Member Label	: Antenna Wo (210	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	-26.176	5
35	MP2B	Z	45.339	5
36	MP2B	Mx	033	5
37	MP2A	X	-32.447	11
38	MP2A	Z	56.2	1
39	MP2A	Mx	013	11
40	MP2A	X	-32.447	5
41	MP2A	Z	56.2	5
42	MP2A	Mx	013	5
43	MP2B	X	-26.176	11
44	MP2B	Z	45.339	
45	MP2B	Mx	045	1
46	MP2B	X	-26.176	5
47	MP2B	Z	45.339	5
48	MP2B	Mx	045	5
49	MP2C	X	-29.513	1
50	MP2C	Ž	51.118	1
51	MP2C	Mx	.009	1
52	MP2C	X	-29.513	5
53	MP2C	Z	51.118	5
	MP2C	Mx	.009	5
54	MP2C	X	-29.513	1
55	MP2C	Ž	51.118	1
56	MP2C MP2C	Mx	.059	1
57	MP2C	X	-29.513	5
58	MP2C MP2C	Z	51.118	5
59		Mx	.059	5
60	MP2C	X	-23.992	2
61	MP1A	Z	41.556	2
62	MP1A	Mx	.018	2
63	MP1A	X	-23.992	4
64	MP1A	Z	41.556	4
65	MP1A	Mx	.018	4
66	MP1A	X	-10.45	2
67	MP1B	Z	18.099	2
68	MP1B	Mx	015	2
69	MP1B	X	-10.45	4
70	MP1B	Z	18.099	4
71	MP1B		015	4
72	MP1B	Mx X	-17.655	2
73	MP1C	Z	30.58	2
74	MP1C		.02	2
75	MP1C	Mx	-17.655	4
76	MP1C	X	30.58	4
77	MP1C	Mx	.02	4
78	MP1C	X	-22.468	.5
79	MP3A	Z	38.915	.5
80	MP3A	Mx	004	.5
81	MP3A		-22.468	.5
82	MP3B	X	38.915	.5
83	MP3B	Z	004	.5
84	MP3B	Mx		.5
85	MP3C	X	-22.468	.5
86	MP3C	Z	38.915	.5
87	MP3C	Mx	004	1.5
88	MP2A	X	-22.384	1.5
89	MP2A	Z	38.77	1.5
90	MP2A	Mx	004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2B	X	-22.384	1.5
92	MP2B	Z	38.77	1.5
93	MP2B	Mx	004	1.5
94	MP2C	X	-22.384	1.5
95	MP2C	Z	38.77	1.5
96	MP2C	Mx	004	1.5
97	OVP	X	-46.075	1 1
98	OVP	Z	79.804	1
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-11.624	4
2	MP2A	Z	6.711	4
3	MP2A	Mx	006	4
4	MP2C	X	-22.36	4
5	MP2C	Z	12.909	4
6	MP2C	Mx	004	4
7	MP4A	X	-38.896	1
8	MP4A	Z	22.457	
9	MP4A	Mx	.019	1
10	MP4A	X	-38.896	5
11	MP4A	Z	22.457	5
12	MP4A	Mx	.019	5
13	MP4B	X	-43.454	1
14	MP4B	Z	25.088	
15	MP4B	Mx	019	
16	MP4B	X	-43.454	5
17	MP4B	Z	25.088	5
18	MP4B	Mx	019	5
19	MP4C	X	-59.003	
20	MP4C	Z	34.065	1
21	MP4C	Mx	.006	1
22	MP4C	X	-59.003	5
23	MP4C	Z	34.065	5
24	MP4C	Mx	.006	
25	MP2A	X	-48.656	5
26	MP2A	Ž		
27	MP2A	Mx	28.091	
28	MP2A	X	.055	1
29	MP2A	Z	-48.656	5
30	MP2A	Mx	28.091	5
31	MP2B		.055	5
32	MP2B	X	-51.118	1
33	MP2B	Z	29.513	
34	MP2B	Mx	009	11
35		X	-51.118	5
36	MP2B MP2B	Z	29.513	5
37		Mx	009	5
38	MP2A	X	-48.656	1
	MP2A	Z	28.091	
39	MP2A	Mx	.018	1
10	MP2A	X	-48,656	5
11	MP2A	Z	28.091	5
12	MP2A	Mx	.018	5
43	MP2B	X	-51.118	11
44	MP2B	Z	29.513	1



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

Location[ft,%]	Magnitude[lb,k-ft]	Direction	Point Loads (BLC 11  Member Label	
<u></u>	059	Mx	MP2B	45
5	-51.118	X	MP2B	6
5	29.513	Z	MP2B	17
5	059	Mx	MP2B	48
11	-58.207	X	MP2C	49
1	33,606	Z	MP2C	50
1	025	Mx	MP2C	51
5	-58.207	X	MP2C	52
5	33.606	Z	MP2C	53
5	025	Mx	MP2C	54
11	-58.207	X	MP2C	55
1	33.606	Z	MP2C	56
1	.059	Mx	MP2C	57
5	-58.207	X	MP2C	58
5	33.606	Z	MP2C	59
5	.059	Mx	MP2C	60
2	-25.263	X	MP1A	61
2	14.586	Z	MP1A	62
2	.019	Mx	MP1A	63
4	-25.263	X	MP1A	64
4	14.586	X	MP1A	65
4	.019	Mx	MP1A	66
2	-30.58	X	MP1B	67
2	17.655	X	MP1B	
2	02	Mx	MP1B	68
4	-30.58	X	MP1B	69
4	17.655	Z	MP1B	70
4	02	Mx		71
2	-45.89	X	MP1B MP1C	72
2	26.495	Z		73
2	.014	Mx	MP1C	74
4	-45.89	X	MP1C MP1C	75
4	26.495	Z	MPIC	76
4	.014	Mx	MP1C	77
.5	-33.962	X	MP1C	78
.5	19.608	Z	MP3A	79
.5	013	Mx	MP3A	80
.5	-33.962	X	MP3A	81
.5	19.608	Ž	MP3B	82
.5	013	Mx	MP3B	83
.5	-33.962	X	MP3B	84
.5	19.608	Z	MP3C	85
.5	013		MP3C	86
1.5	-31.971	Mx	MP3C	87
1.5	18.458	X	MP2A	88
1.5	012		MP2A	89
1.5	-31.971	Mx	MP2A	90
1.5	18.458	X	MP2B	91
1.5	012		MP2B	92
1.5		Mx	MP2B	93
1.5	-31.971	X	MP2C	94
1.5	18.458	Z	MP2C	95
1.5	012	Mx	MP2C	96
		X		97
	-72.422 41.813 0	X Z Mx	OVP OVP OVP	96 97 98 99



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.526	4
2	MP2A	Z	0	4
3	MP2A	Mx	004	4
4	MP2C	X	-27.519	4
5	MP2C	Z	0	4
6	MP2C	Mx	.002	4
7	MP4A	X	-36.851	1
8	MP4A	Z	0	1
9	MP4A	Mx	.018	1
10	MP4A	X	-36.851	5
11	MP4A	Z	0	5
12	MP4A	Mx	.018	5
13	MP4B	X	-65.33	1
14	MP4B	Z	0	1
15	MP4B	Mx	011	1
16	MP4B	X	-65.33	5
17	MP4B	Z	0	5
18	MP4B	Mx	011	5
19	MP4C	X	-65.33	1 1
20	MP4C	Z	0	1
21	MP4C	Mx	011	1
22	MP4C	X	-65.33	5
23	MP4C	Z	0	5
24	MP4C	Mx	011	5
25	MP2A	X	-51.827	1
26	MP2A	Z	0	
27	MP2A	Mx	.039	1
28	MP2A	X	-51.827	5
29	MP2A	Z	0	5
30	MP2A	Mx	.039	5
31	MP2B	X	-67.212	1
32	MP2B	Z	0	
33	MP2B	Mx	.025	
34	MP2B	X	-67.212	
35	MP2B	Z	0	5
36	MP2B	Mx	.025	5
37	MP2A	X		5
38	MP2A	Ž	-51.827	1
39	MP2A	Mx	0	1
40	MP2A	X	.039	11
41	MP2A	Z	-51.827	5
42	MP2A	Mx	0	5
43	MP2B		.039	5
43	MP2B MP2B	X	-67.212	1
45	MP2B		0	1
46	MP2B	Mx	059	11
47	MP2B	X	-67.212	5
48		Z	0	5
	MP2B	Mx	059	5
49	MP2C	X	-68.724	1
50	MP2C	Z	0	1
51	MP2C	Mx	054	11
52	MP2C	X	-68.724	5
53	MP2C	Z	0	5
54	MP2C	Mx	054	5
55	MP2C	X	-68.724	1
56	MP2C	Z	0	1
57	MP2C	Mx	.036	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2C	X	-68.724	5
59	MP2C	Z	0	5
60	MP2C	Mx	.036	5
61	MP1A	X	-19.765	2
62	MP1A	Z	0	2
63	MP1A	Mx	.015	2
64	MP1A	X	-19.765	4
65	MP1A	Z	0	4
66	MP1A	Mx	.015	4
67	MP1B	X	-52.989	2
68	MP1B	Z	0	2
69	MP1B	Mx	014	2
70	MP1B	X	-52.989	4
71	MP1B	Z	0	4
72	MP1B	Mx	014	4
73	MP1C	X	-56.256	2
74	MP1C	Z	0	2
75	MP1C	Mx	007	2
76	MP1C	X	-56.256	4
77	MP1C	Z	0	4
78	MP1C	Mx	007	4
	MP3A	X	-32.199	.5
79 80	MP3A	Z	0	.5
	MP3A	Mx	015	.5
81 82	MP3B	X	-32.199	.5
83	MP3B	Z	0	.5
84	MP3B	Mx	015	.5
85	MP3C	X	-32.199	.5
	MP3C	Z	0	.5
86 87	MP3C	Mx	015	.5
88	MP2A	X	-27.286	1.5
	MP2A	Z	0	1.5
89	MP2A	Mx	013	1.5
90	MP2B	X	-27.286	1.5
91		Z	0	1.5
92	MP2B	Mx	013	1.5
93	MP2B	X	-27.286	1.5
94	MP2C	Z	0	1.5
95	MP2C	Mx	013	1.5
96	MP2C	X	-73.17	1
97	OVP	Ž	0	i
98 99	OVP OVP	Mx	0	

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-11.624	44
2	MP2A	7	-6.711	4
3	MP2A	Mx	006	4
-	MP2C	X	-17.336	4
5	MP2C	7	-10.009	4
6	MP2C	Mx	.006	4
7	MP4A	X	-38.896	1
0	MP4A	7	-22,457	1
8	MP4A	Mx	.019	1
9	MP4A	X	-38.896	5
10	MP4A	Z	-22.457	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4A	Mx	.019	5
13	MP4B	X	-59.003	1
14	MP4B	Z	-34.065	1
15	MP4B	Mx	.006	
16	MP4B	X	-59.003	5
17	MP4B	Z	-34.065	5
18	MP4B	Mx	.006	5
19	MP4C	X	-43.454	1
20	MP4C	Z	-25.088	1
21	MP4C	Mx	019	1
22	MP4C	X	-43.454	5
23	MP4C	Z	-25.088	5
24	MP4C	Mx	019	5
25	MP2A	X	-48.656	
26	MP2A	Z	-28.091	1
27	MP2A	Mx	.018	1
28	MP2A	X		11
29	MP2A	Z	-48.656	5
30	MP2A		-28.091	5
31	MP2B	Mx	.018	5
32	MP2B	X	-59.517	1
33	MP2B	Z	-34.362	1
34		Mx	.054	1
	MP2B	X	-59.517	5
35	MP2B	Z	-34.362	5
36	MP2B	Mx	.054	5
7	MP2A	X	-48.656	1
8	MP2A	Z	-28.091	1
9	MP2A	Mx	.055	1
0	MP2A	X	-48.656	5
1	MP2A	Z	-28.091	5
2	MP2A	Mx	.055	5
3	MP2B	X	-59.517	1
4	MP2B	Z	-34.362	1
5	MP2B	Mx	036	1
6	MP2B	X	-59.517	5
7	MP2B	Z	-34.362	5
8	MP2B	Mx	036	5
9	MP2C	X	-53.738	1
0	MP2C	Z	-31.026	1
1	MP2C	Mx	062	
2	MP2C	X	-53.738	5
3	MP2C	Ž	-31.026	5
4	MP2C	Mx	062	5
5	MP2C	X	-53.738	1
6	MP2C	Z	-31.026	
7	MP2C	Mx	.002	1
8	MP2C	X	-53.738	
9	MP2C	Z		5
0	MP2C	Mx	<u>-31.026</u> .002	5
1	MP1A	X	002 -25.263	5
2	MP1A	Z		2
3	MP1A		-14.586	2
4	MP1A	Mx	.019	2
5		X	-25.263	4
6	MP1A MP1A	Z	-14.586	4
7		Mx	.019	4
	MP1B	X	-48.719	2
8	MP1B	Z	-28.128	2



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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69 MP1B	Mx	.007	2
70 MP1B	X	-48.719	4
71 MP1B	Z	-28.128	4
72 MP1B	Mx	.007	4
73 MP1C	X	-36.238	2
74 MP1C	Z	-20.922	2
75 MP1C	Mx	02	2
76 MP1C	X	-36.238	4
77 MP1C	Z	-20.922	4
78 MP1C	Mx	02	4
79 MP3A	X	-26.762	.5
80 MP3A	Z	-15.451	.5
81 MP3A	Mx	015	.5
82 MP3B	X	-26.762	.5
83 MP3B	Z	-15.451	.5
84 MP3B	Mx	015	.5
85 MP3C	X	-26.762	.5
86 MP3C	Z	-15.451	.5
87 MP3C	Mx	015	.5
88 MP2A	X	-22.09	1.5
89 MP2A	Z	-12.753	1.5
90 MP2A	Mx	013	1.5
91 MP2B	X	-22.09	1.5
92 MP2B	Z	-12.753	1.5
93 MP2B	Mx	013	1.5
94 MP2C	X	-22.09	1.5
95 MP2C	Z	-12.753	1.5
96 MP2C	Mx	-,013	1.5
97 OVP	X	-61.694	11
98 OVP	Z	-35.619	1
99 OVP	Mx	0	7- 1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP2A	X	-11.607	4
2	MP2A	7	-20.104	4
3	MP2A	Mx	006	4
4	MP2C	X	-5.408	4
5	MP2C	7	-9.368	4
6	MP2C	Mx	.005	4
7	MP4A	X	-30.52	111
8	MP4A	7	-52.862	1
9	MP4A	Mx	.015	1
	MP4A	X	-30.52	5
10	MP4A	7	-52.862	5
	MP4A	Mx	.015	5
12	MP4B	X	-27.889	4
13 14	MP4B	7	-48.304	
	MP4B	Mx	.018	11
15	MP4B	X	-27.889	5
16	MP4B	7	-48.304	5
17	MP4B	Mx	.018	5
18	MP4C	X	-18.912	1
19	MP4C	7	-32.756	
20	MP4C	Mx	019	1
21 22	MP4C	X	-18.912	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4C	Z	-32.756	5
24	MP4C	Mx	019	5
25	MP2A	X	-32.447	1
26	MP2A	Z	-56.2	1
27	MP2A	Mx	013	1
28	MP2A	X	-32.447	5
29	MP2A	Z	-56.2	5
30	MP2A	Mx	013	5
31	MP2B	X	-31.026	1
32	MP2B	Z	-53.738	1
33	MP2B	Mx	.062	1
34	MP2B	X	-31.026	5
35	MP2B	Z	-53.738	5
36	MP2B	Mx	.062	5
37	MP2A	X	-32.447	1
38	MP2A	Z	-56.2	1
39	MP2A	Mx	.062	1
40	MP2A	X	-32.447	5
41	MP2A	Z	-56.2	5
42	MP2A	Mx	.062	5
43	MP2B	X	-31.026	1
44	MP2B	Z	-53.738	1
45	MP2B	Mx	002	1
46	MP2B	X	-31.026	5
47	MP2B	Z	-53.738	5
48	MP2B	Mx	002	5
49	MP2C	X	-26.933	1
50	MP2C	Z	-46.649	1
51	MP2C	Mx	05	1
52	MP2C	X	-26.933	5
53	MP2C	Z	-46.649	5
54	MP2C	Mx	05	5
55	MP2C	X	-26.933	1
56	MP2C	Z	-46.649	1
57	MP2C	Mx	026	1
58	MP2C	X	-26.933	5
59	MP2C	Ž	-46.649	5
60	MP2C	Mx	026	5
61	MP1A	X	-23.992	2
62	MP1A	Z	-23.992 -41.556	2
63	MP1A	Mx	.018	2
64	MP1A	X	-23.992	4
65	MP1A	7	-41.556	4
66	MP1A	Mx	.018	4
67	MP1B	X	-20.922	2
68	MP1B	Z	-36.238	2
69	MP1B	Mx	.02	
70	MP1B	X	-20.922	2 4
71	MP1B	Z	-36.238	4 4
72	MP1B	Mx	-36.238 .02	
73	MP1C	X	-12.083	4
74	MP1C	Z	-12.083	2
75	MP1C	Mx	-20.928 017	2
76	MP1C	X	017	2
77	MP1C	Z		4
78	MP1C	Mx	-20.928 017	4
79	MP3A	X		4
	IVII U/1	^	-18.311	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
00	MP3A	7	-31.716	.5
80		Mx	014	.5
81	MP3A	X	-18.311	.5
82	MP3B MP3B	7	-31.716	.5
83	MP3B	Mx	014	.5
84	MP3C	X	-18.311	.5
85	MP3C	7	-31.716	.5
86 87	MP3C	Mx	014	.5
	MP2A	X	-16.679	1.5
88	MP2A	Z	-28.889	1.5
90	MP2A	Mx	013	1.5
91	MP2B	X	-16.679	1.5
92	MP2B	Z	-28.889	1.5
93	MP2B	Mx	013	1.5
94	MP2C	X	-16.679	1.5
95	MP2C	Z	-28.889	1.5
96	MP2C	Mx	013	1.5
97	OVP	X	-39.881	11
98	OVP	Z	-69.076	1
99	OVP	Mx	0	11

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

	Point Loads (BLC 15 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	4
2	MP2A	Z	-6.185	4
	MP2A	Mx	0	4
3	MP2C	X	0	4
4	MP2C	Z	-2.425	4
5	MP2C	Mx	.001	4
6		X	0	4
7	MP4A	Ž	-13.463	1
8	MP4A	Mx	0	1
9	MP4A	X	0	5
10	MP4A	7	-13.463	5
11	MP4A	Mx	0	5
12	MP4A	X	0	1
13	MP4B	Ž	-8.395	1
14	MP4B		.004	1
15	MP4B	Mx	.004	5
16	MP4B	X	-8.395	5
17	MP4B	Z	.004	5
18	MP4B	Mx	0	1
19	MP4C	X		
20	MP4C	Z	-8.395	+
21	MP4C	Mx	004	5
22	MP4C	X	0	5
23	MP4C	Z	-8.395	5
24	MP4C	Mx	004	1
25	MP2A	X	0	
26	MP2A	Z	-27.25	1
27	MP2A	Mx	018	
28	MP2A	X	0	5
29	MP2A	Z	-27.25	5
30	MP2A	Mx	018	5
31	MP2B	X	0	1
32	MP2B	Z	-21.376	
33	MP2B	Mx	.02	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	0	5
35	MP2B	Z	-21.376	5
36	MP2B	Mx	.02	5
37	MP2A	X	0	1
38	MP2A		-27.25	1
39	MP2A	Mx	.018	1
40	MP2A	X	0	5
41	MP2A	Z	-27.25	5
42	MP2A	Mx	.018	5
43	MP2B	X	0	1
44	MP2B	Z	-21.376	1
45	MP2B	Mx	.01	1
46	MP2B	X	0	5
47	MP2B	Z	-21.376	5
48	MP2B	Mx	.01	5
49	MP2C	X	0	1
50	MP2C	Z	-20.798	1
51	MP2C	Mx	013	1
52	MP2C	X	0	5
53	MP2C	Z	-20.798	5
54	MP2C	Mx	013	5
55	MP2C	X	0	1
56	MP2C	Z	-20.798	
57	MP2C	Mx	018	1
58	MP2C	X	018	
59	MP2C	Z	-20.798	5
30	MP2C	Mx		5
51	MP1A	X	018	5
62	MP1A	Ž	0	2
63	MP1A		-13.424	2
64	MP1A	Mx	0	2
65	MP1A	X	0	4
36 36		Z	-13.424	4
67	MP1A MP1B	Mx X	0	4
58 S	MP1B	X	0	2
	MP1B	Z	-6.6	2
39	MP1B	Mx	.005	2
70	MP1B	X	0	4
71	MP1B	Z	-6.6	4
72	MP1B	Mx	.005	4
73	MP1C	X	0	2
74	MP1C	Z	-5.929	2
75	MP1C	Mx	004	2
76	MP1C	X	0	4
77	MP1C	Z	-5.929	4
78	MP1C	Mx	004	4
79	MP3A	X	0	.5
30	MP3A	Z	-10.882	.5
31	MP3A	Mx	002	.5
32	MP3B	X	0	.5
33	MP3B	Z	-10.882	.5
34	MP3B	Mx	002	.5
35	MP3C	X	0	.5
36	MP3C	Z	-10.882	.5
37	MP3C	Mx	002	.5
38	MP2A	X	0	1.5
39	MP2A	Z	-10.728	1.5
90	MP2A	Mx	002	1.5



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

TOTTIO C.	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
04	MP2B	X	0	1.5
91	MP2B	Z	-10.728	1.5
92 93	MP2B	Mx	002	1.5
94	MP2C	X	0	1.5
95	MP2C	Z	-10.728	1.5
96	MP2C	Mx	002	1.5
97	OVP	X	0	
98	OVP	Z	-20.962	
99	OVP	Mx	0	

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1 MP2A	X	2.608	4
2 MP2A	Z	-4.517	4
3 MP2A	Mx	.001	4
4 MP2C	X	1.955	4
5 MP2C	Z	-3.386	4
6 MP2C	Mx	.001	4
7 MP4A	X	6.014	1
8 MP4A	Z	-10.417	
9 MP4A	Mx	003	1
10 MP4A	X	6.014	5
11 MP4A	Z	-10.417	5
12 MP4A	Mx	003	5
13 MP4B	X	3.949	11
	Z	-6.839	1
14 MP4B 15 MP4B	Mx	.004	1
	X	3.949	5
19	Z	-6.839	5
	Mx	.004	5
	X	5.546	11
	Z	-9.606	
	Mx	004	1
	X	5.546	5
	Ž	-9.606	5
23 MP4C	Mx	004	5
24 MP4C	X	12.793	11
25 MP2A	Ž	-22.159	1
26 MP2A	Mx	024	1
27 MP2A	X	12.793	5
28 MP2A	Ž	-22.159	5
29 MP2A	Mx	024	5
30 MP2A	X	10.399	1
31 MP2B	Z	-18.012	1
32 MP2B	Mx	.013	1
33 MP2B	X	10.399	5
34 MP2B	Z	-18.012	5
35 MP2B		.013	5
36 MP2B	Mx	12.793	1
37 MP2A	X	-22.159	1
38 MP2A	Z	.005	1
39 MP2A	Mx	12.793	5
40 MP2A	X	-22.159	5
41 MP2A	Z	.005	5
42 MP2A	Mx	10.399	1
43 MP2B	X	10.399	
44 MP2B	Z	-18.012	



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

4-11-	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	.018	1
46	MP2B	X	10.399	5
47	MP2B	Z	-18.012	5
48	MP2B	Mx	.018	5
49	MP2C	X	11.673	1
50	MP2C	Z	-20.218	1
51	MP2C	Mx	003	1
52	MP2C	X	11.673	5
53	MP2C	Z	-20.218	5
54 55	MP2C	Mx	003	5
	MP2C	X	11.673	1
56	MP2C	Z	-20.218	1
57 58	MP2C	Mx	023	11
59	MP2C	X	11.673	5
60	MP2C	Z	-20.218	5
61	MP2C	Mx	023	5
62	MP1A	X	5.746	2
63	MP1A	Z	-9.952	2
64	MP1A	Mx	004	2
65	MP1A	X	5.746	4
66	MP1A	Z	-9.952	4
67	MP1A	Mx	004	4
68	MP1B	X	2.964	2
69	MP1B MP1B	Z	-5.135	2
70	MP1B MP1B	Mx	.004	2
71	MP1B	X	2.964	4
72	MP1B	Z	-5.135	4
73	MP1C	Mx	.004	4
74	MP1C	X	4.444	2
75	MP1C	Z	-7.698	2
76	MP1C	Mx	005	2
77	MP1C MP1C	X	4,444	4
78	MP1C	Mx	-7.698	4
79	MP3A	X	005	4
80	MP3A	Z	5.591	.5
81	MP3A	Mx	-9.683	.5
82	MP3B	X	.000971	.5
83	MP3B	Z	5.591	.5
34	MP3B	Mx	-9.683 .000971	.5
35	MP3C	X		.5
36	MP3C	Ž	5.591	.5
37	MP3C	Mx	-9.683	.5
88	MP2A	X	.000971 5.571	.5
89	MP2A	Z	-9.649	1.5
90	MP2A	Mx	.000967	1.5
91	MP2B	X	5.571	1.5
32	MP2B	Ž	-9.649	1.5
93	MP2B	Mx	.000967	1.5
94	MP2C	X	5.571	1.5
95	MP2C	Z	-9.649	1.5
96	MP2C	Mx	.000967	1.5
97	OVP	X	10.781	1.5
98	OVP	Z	-18.673	1
99	OVP	Mx	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.839	4
2	MP2A	Z	-1.639	
3	MP2A	Mx	.001	4 4
4	MP2C	X	4.964	4
5	MP2C	Z	-2.866	4
3	MP2C	Mx	.00098	1
7	MP4A	X	7.932	
3	MP4A	Z	-4.579	
	MP4A	Mx	004	5
0	MP4A	X	7.932	5
1	MP4A	Z	-4.579	5
2	MP4A	Mx	004	
3	MP4B	X	8.743	1
4	MP4B	Z	-5.048	1
5	MP4B	Mx	.004	
6	MP4B	X	8.743	5
7	MP4B	Z	-5.048	5
8	MP4B	Mx	.004	5
9	MP4C	X	11.51	1
0	MP4C	Z	-6.645	
1	MP4C	Mx	001	
2	MP4C	X	11.51	5
3	MP4C	Z	-6.645	5
4	MP4C	Mx	001	5
5	MP2A	X	19.278	1
6	MP2A	Z	-11.13	
7	MP2A	Mx	022	
8	MP2A	X	19,278	5
9	MP2A	Z	-11.13	5
0	MP2A	Mx	022	5
1	MP2B	X	20.218	1
2	MP2B	Z	-11.673	
3	MP2B	Mx	.003	1
4	MP2B	X	20.218	5
5	MP2B	Z	-11.673	5
6	MP2B	Mx	.003	5
7	MP2A	X	19.278	1
8	MP2A	Z	-11.13	1
9	MP2A	Mx	007	1
0	MP2A	X	19.278	5
1	MP2A	Z	-11.13	5
2	MP2A	Mx	007	5
3	MP2B	X	20.218	1
4	MP2B	Z	-11.673	1
5	MP2B	Mx	.023	
6	MP2B	X	20.218	5
7	MP2B	Z	-11.673	5
8	MP2B	Mx	.023	5
9	MP2C	X	22.925	1 1
o l	MP2C	Z	-13.236	11
1	MP2C	Mx	.01	1 5
2	MP2C	X	22.925	5
3	MP2C	Z	-13.236	5
4	MP2C	Mx	.01	5
5	MP2C	X	22.925	1
66	MP2C	Z	-13.236	1
57	MP2C	Mx	023	11



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2C	X	22.925	5
59	MP2C	Z	-13.236	5
60	MP2C	Mx	023	5
61	MP1A	X	6.606	2
62	MP1A	Z	-3.814	2
63	MP1A	Mx	005	2
64	MP1A	X	6.606	4
65	MP1A	Z	-3.814	4
66	MP1A	Mx	005	4
67	MP1B	X	7.698	2
68	MP1B	Z	-4.444	2
69	MP1B	Mx	.005	2
70	MP1B	X	7.698	4
71	MP1B	Z	-4.444	4
72	MP1B	Mx	.005	4
73	MP1C	X	10.842	2
74	MP1C	Z	-6.26	2
75	MP1C	Mx	003	2
76	MP1C	X	10.842	4
77	MP1C	Z	-6.26	4
78	MP1C	Mx	003	4
79	MP3A	X	8.539	.5
80	MP3A	Ž	-4.93	.5
81	MP3A	Mx	.003	.5
82	MP3B	X	8.539	.5
83	MP3B	Z	-4.93	
84	MP3B	Mx	.003	.5
85	MP3C	X	8.539	.5
86	MP3C	Z	-4.93	.5
87	MP3C	Mx	.003	.5
88	MP2A	X	8.07	.5
89	MP2A	Z	-4.659	1.5
90	MP2A	Mx	.003	1.5
91	MP2B	X	8.07	1.5
92	MP2B	Z	-4.659	1.5
93	MP2B	Mx	<del>-4.659</del> .003	1.5
94	MP2C	X	8.07	1.5
95	MP2C	Z		1.5
96	MP2C	Mx	-4.659	1.5
97	OVP		.003	1.5
98	OVP	X	16.382	11
99	OVP	Mx	<u>-9.458</u> 0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.308	Δ
2	MP2A	Z	0	4
3	MP2A	Mx	.001	4
4	MP2C	X	6.068	1
5	MP2C	Z	0.000	1
6	MP2C	Mx	000527	1
7	MP4A	X	7.724	1
8	MP4A	Z	1.72	
9	MP4A	Mx	004	
10	MP4A	X	7.724	5
11	MP4A	Z	1,12+	5

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

	Member Label	: Antenna Wi (90 D	Magnitude[lb,k-ft]	Location[ft,%]
2	MP4A	Mx	004	5
3	MP4B	X	12.792	1
14	MP4B	Z	0	
15	MP4B	Mx	.002	1
16	MP4B	X	12.792	5
17	MP4B	Z	0	5
	MP4B	Mx	.002	5
18	MP4C	X	12.792	11
19	MP4C	Z	0	1
20		Mx	.002	1
21	MP4C	X	12.792	5
22	MP4C	Z	0	5
23	MP4C	Mx	.002	5
24	MP4C	X	20.598	1
25	MP2A	Ž	0	1
26	MP2A		015	1
27	MP2A	Mx	20.598	5
28	MP2A	X	0	5
29	MP2A	Z	015	5
30	MP2A	Mx	26.472	1
31	MP2B	X	0	
32	MP2B	Z	01	1
33	MP2B	Mx		5
34	MP2B	X	26.472	5
35	MP2B	Z	0	5
36	MP2B	Mx	01	1
37	MP2A	X	20.598	
38	MP2A	Z	0	
39	MP2A	Mx	015	1
40	MP2A	X	20.598	5
41	MP2A	Z	0	5
42	MP2A	Mx	015	5
43	MP2B	X	26.472	1
	MP2B	Z	0	1
44	MP2B	Mx	.023	1
45	MP2B	X	26.472	5
46	MP2B	Z	0	5
47		Mx	.023	5
48	MP2B	X	27.049	1
49	MP2C	Z	0	1
50	MP2C	Mx	.021	1
51	MP2C	X	27.049	5
52	MP2C		0	5
53	MP2C	Z	.021	5
54	MP2C	Mx	27.049	1
55	MP2C	X	0	1
56	MP2C	Z	014	1
57	MP2C	Mx		5
58	MP2C	X	27.049	5
59	MP2C	Z	0	5
60	MP2C	Mx	014	2
61	MP1A	X	5.696	2
62	MP1A	Z	0	
63	MP1A	Mx	004	2
64	MP1A	X	5.696	4
65	MP1A	Z	0,	4
66	MP1A	Mx	004	4
66	MP1B	X	12.52	2
67 68	MP1B	Z	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1B	Mx	.003	2
70	MP1B	X	12.52	4
71	MP1B	Z	0	4
72	MP1B	Mx	.003	4
73	MP1C	X	13.191	2
74	MP1C	Z	0	2
75	MP1C	Mx	.002	2
76	MP1C	X	13.191	4
77	MP1C	7	0	4
78	MP1C	Mx	.002	4
79	MP3A	X	8.239	.5
80	MP3A	Z	0.233	.5
81	MP3A	Mx	.004	.5
82	MP3B	X	8.239	.5
83	MP3B	Z	0	.5
84	MP3B	Mx	.004	.5
85	MP3C	X	8.239	.5
86	MP3C	Ž	0	.5
87	MP3C	Mx	.004	.5
88	MP2A	X	7.082	
89	MP2A	Z	0	1.5
90	MP2A	Mx	.003	1.5
91	MP2B	X	7.082	1.5
92	MP2B	Z	0	1.5
93	MP2B	Mx		1.5
94	MP2C	X	.003	1.5
95	MP2C	Ż	7.082	1.5
96	MP2C	Mx	0	1.5
97	OVP	X	.003	1.5
98	OVP	Z	15.672	1
99	OVP		0	1
55	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.839	4
2	MP2A	Z	1.639	4
3	MP2A	Mx	.001	4
4	MP2C	X	3.969	4
5	MP2C	Z	2.292	4
6	MP2C	Mx	001	4
7	MP4A	X	7.932	1
8	MP4A	7	4.579	1
9	MP4A	Mx	004	1
10	MP4A	X	7.932	5
11	MP4A	Z	4.579	5
12	MP4A	Mx	004	5
13	MP4B	X	11.51	1
14	MP4B	Ž	6.645	1
15	MP4B	Mx	001	1
16	MP4B	X	11.51	5
17	MP4B	7	6.645	5
18	MP4B	Mx	001	5
19	MP4C	X	8.743	1 2
20	MP4C	7	5.048	
21	MP4C	Mx	.004	
22	MP4C	X	8.743	5



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

	nber Label	: Antenna Wi (120 )	Magnitude[lb,k-ft]	Location[ft,%]
	MP4C	Z	5.048	5
4	MP4C	Mx	.004	5
5	MP2A	X	19.278	
	MP2A	Z	11.13	1
	MP2A	Mx	007	11
3	MP2A	X	19.278	5
	MP2A	Z	11.13	5
	MP2A	Mx	007	5
1	MP2B	X	23.426	11
	MP2B	Z	13.525	1
3	MP2B	Mx	021	11
4	MP2B	X	23.426	5
5	MP2B	Z	13.525	5
6	MP2B	Mx	021	5
	MP2A	X	19.278	11
8	MP2A	Z	11.13	1
	MP2A	Mx	022	
	MP2A	X	19,278	5
	MP2A	Z	11.13	5
	MP2A	Mx	022	5
	MP2B	X	23.426	11
	MP2B	Z	13.525	
5	MP2B	Mx	.014	1
	MP2B	X	23,426	5
	MP2B	Z	13.525	5
	MP2B	Mx	.014	5
	MP2C	X	21.219	1
	MP2C	X	12.251	1
	MP2C	Mx	.024	1
2	MP2C	X	21.219	5
	MP2C	Z	12.251	5
	MP2C	Mx	.024	5
	MP2C	X	21.219	1
	MP2C	Ž	12.251	1
	MP2C	Mx	000701	1
	MP2C	X	21.219	5
	MP2C	Ž	12.251	5
	MP2C	Mx	000701	5
	MP1A	X	6.606	2
	MP1A	Ž	3.814	2
	MP1A	Mx	005	2
	MP1A	X	6.606	4
	MP1A	Z	3.814	4
	MP1A	Mx	005	4
	MP1B	X	11.424	2
	MP1B	Ž	6.595	2
	MP1B	Mx	002	2
	MP1B	X	11.424	4
	MP1B	Z	6.595	4
1	MP1B	Mx	002	4
		X	8.86	2
	MP1C	X	5.115	2
	MP1C	Mx	.005	2
	MP1C	X	8.86	4
	MP1C	Z	5.115	4
	MP1C	Mx	.005	4
	MP1C	X	6.876	.5
9	MP3A		0.010 0.010 0.010 0.010	



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3A	Z	3.97	.5
81	MP3A	Mx	.004	.5
82	MP3B	X	6.876	.5
83	MP3B	Z	3.97	.5
84	MP3B	Mx	.004	.5
85	MP3C	X	6.876	.5
86	MP3C	Z	3.97	.5
87	MP3C	Mx	.004	.5
88	MP2A	X	5.775	1.5
89	MP2A	Z	3.334	1.5
90	MP2A	Mx	.003	1.5
91	MP2B	X	5.775	1.5
92	MP2B	7	3.334	1.5
93	MP2B	Mx	.003	1.5
94	MP2C	X	5.775	1.5
95	MP2C	Z	3.334	1.5
96	MP2C	Mx	.003	1.5
97	OVP	X	13.053	1.5
98	OVP	Ž	7.536	1
99	OVP	Mx	0	

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.608	4
2	MP2A	Z	4.517	4
3	MP2A	Mx	.001	4
4	MP2C	X	1.381	4
5	MP2C	Z	2.392	4
6	MP2C	Mx	001	4
7	MP4A	X	6.014	1
8	MP4A	Z	10.417	1
9	MP4A	Mx	003	
10	MP4A	X	6.014	5
11	MP4A	Z	10.417	5
12	MP4A	Mx	003	5
13	MP4B	X	5.546	1
14	MP4B	Z	9.606	1
15	MP4B	Mx	004	1
16	MP4B	X	5.546	5
17	MP4B	Z	9.606	5
18	MP4B	Mx	004	5
19	MP4C	X	3.949	1
20	MP4C	Z	6.839	
21	MP4C	Mx	.004	1
22	MP4C	X	3.949	5
23	MP4C	Z	6.839	5
24	MP4C	Mx	.004	5
25	MP2A	X	12.793	1
26	MP2A	Z	22.159	
27	MP2A	Mx	.005	1
28	MP2A	X	12.793	5
29	MP2A	7	22.159	5
30	MP2A	Mx	.005	5
31	MP2B	X	12.251	1
32	MP2B	Z	21.219	1
33	MP2B	Mx	-,024	1



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

	Point Loads (BLC 20  Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	12.251	5
35	MP2B	Z	21.219	
	MP2B	Mx	024	5
36	MP2A	X	12.793	1
37	MP2A	Z	22.159	1
38		Mx	024	1
39	MP2A	X	12.793	5
40	MP2A	Z	22.159	5
41	MP2A	Mx	024	5
42	MP2A	IVIX	12.251	1
43	MP2B	X	21.219	1
44	MP2B		.000701	1
45	MP2B	Mx	12.251	5
46	MP2B	X		5
47	MP2B	Z	21.219	5
48	MP2B	Mx	.000701	
49	MP2C	X	10.688	1
50	MP2C	Z	18.512	1
51	MP2C	Mx	.02	11
52	MP2C	X	10.688	5
53	MP2C	Z	18.512	5
54	MP2C	Mx	.02	5
	MP2C	X	10.688	1
55	MP2C	Z	18.512	1
56		Mx	.01	1.
57	MP2C	X	10.688	5
58	MP2C	Z	18.512	5
59	MP2C		.01	5
60	MP2C	Mx	5.746	2
61	MP1A	X	9.952	2
62	MP1A	Z	004	2
63	MP1A	Mx		4
64	MP1A	X	5.746	4
65	MP1A	Z	9.952	
66	MP1A	Mx	004	4
67	MP1B	X	5.115	2
68	MP1B	Z	8.86	2
69	MP1B	Mx	005	2
70	MP1B	X	5.115	4
71	MP1B	Z	8.86	4
	MP1B	Mx	005	4
72	MP1C	X	3.3	2
73		Z	5.716	2
74	MP1C	Mx	.005	2
75	MP1C		3.3	4
76	MP1C	X	5.716	4
77	MP1C		.005	4
78	MP1C	Mx		.5
79	MP3A	X	4.63	.5
80	MP3A	Z	8.02	.5
81	MP3A	Mx	.004	.5
82	MP3B	X	4.63	.5
83	MP3B	Z	8.02	.5
84	MP3B	Mx	.004	.5
85	MP3C	X	4.63	.5
86	MP3C	Z	8.02	.5
	MP3C	Mx	.004	.5
87		X	4.246	1.5
88	MP2A	Z	7.354	1.5
89	MP2A	Mx	.003	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2B	X	4.246	1.5
92	MP2B	Z	7.354	1.5
93	MP2B	Mx	.003	1.5
94	MP2C	X	4.246	1.5
95	MP2C	Z	7.354	1.5
96	MP2C	Mx	.003	1.5
97	OVP	X	8.859	1
98	OVP	Z	15.344	1
99	OVP	Mx	0	1 1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
1	MP2A	X	0	4
2	MP2A		6.185	4
3	MP2A	Mx	0	4
4	MP2C	X	0	4
5	MP2C	Z	2.425	4
6	MP2C	Mx	001	4
7	MP4A	X	0	1
8	MP4A	Z	13.463	1
9	MP4A	Mx	0	1
10	MP4A	X	0	5
11	MP4A	Z	13.463	5
12	MP4A	Mx	0	5
13	MP4B	X	0	1
14	MP4B	Z	8.395	1
15	MP4B	Mx	004	1
16	MP4B	X	0	5
17	MP4B	Z	8.395	5
18	MP4B	Mx	004	5
19	MP4C	X	0	1
20	MP4C	Z	8.395	1
21	MP4C	Mx	.004	
22	MP4C	X	0	5
23	MP4C	Z	8.395	5
24	MP4C	Mx	.004	5
25	MP2A	X	0	1
26	MP2A	Ž	27.25	1
27	MP2A	Mx	.018	1
28	MP2A	X	0	5
29	MP2A	Z	27.25	5
30	MP2A	Mx	.018	5
31	MP2B	X	0	1
32	MP2B	Z	21.376	1
33	MP2B	Mx	02	1
34	MP2B	X	0	5
35	MP2B	Z	21.376	5
36	MP2B	Mx	02	5
37	MP2A	X	- <u>02</u> 0	
38	MP2A	Z	27.25	1
39	MP2A	Mx	27.25 018	1
10	MP2A	X	018 0	1 5
11	MP2A	Z	07.05	5
	MP2A		27.25	5
			018	5
		1 2		1
42 43 44	MP2B MP2B	Mx X Z	018 0 21.376	•



	Member Label	Direction	Deg)) (Continued)  Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	01	11
46	MP2B	X	0	5
17	MP2B	Z	21.376	5
48	MP2B	Mx	01	5
49	MP2C	X	0	1
50	MP2C	Z	20.798	1
51	MP2C	Mx	.013	11
52	MP2C	X	0	5
53	MP2C	Z	20.798	5
54	MP2C	Mx	.013	5
55	MP2C	X	0	1
56	MP2C	Z	20.798	1
57	MP2C	Mx	.018	11
58	MP2C	X	0	5
59	MP2C	Z	20.798	5
60	MP2C	Mx	.018	5
61	MP1A	X	0	2
62	MP1A	Z	13.424	2
63	MP1A	Mx	0	2
64	MP1A	X	0	4
65	MP1A	Z	13.424	4
66	MP1A	Mx	0	4
67	MP1B	X	0	2
68	MP1B	Z	6.6	2
69	MP1B	Mx	005	2
70	MP1B	X	0	4
71	MP1B	Z	6.6	4
72	MP1B	Mx	005	4
73	MP1C	X	0	2
74	MP1C	Z	5.929	2
75	MP1C	Mx	.004	2
76	MP1C	X	0	4
77	MP1C	Z	5.929	4
78	MP1C	Mx	.004	4
79	MP3A	X	0	.5
80	MP3A	Z	10.882	.5
81	MP3A	Mx	.002	.5
82	MP3B	X	0	.5
83	MP3B	Z	10.882	.5
84	MP3B	Mx	.002	.5
85	MP3C	X	0	.5
86	MP3C	Z	10.882	.5
87	MP3C	Mx	.002	.5
88	MP2A	X	0	1.5
89	MP2A	Z	10.728	1.5
90	MP2A	Mx	.002	1.5
91	MP2B	X	0	1.5
92	MP2B	Z	10.728	1.5
93	MP2B	Mx	.002	1.5
94	MP2C	X	0	1.5
95	MP2C	Z	10.728	1.5
96	MP2C	Mx	.002	1.5
97	OVP	X	0	11
98	OVP	Z	20.962	1
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1 2	MP2A	X	-2.608	4
	MP2A	Z	4.517	4
3	MP2A	Mx	001	4
4	MP2C	X	-1.955	4
5	MP2C		3.386	4
6	MP2C	Mx	001	4
7	MP4A	X	-6.014	11
8	MP4A	Z	10.417	1
9	MP4A	Mx	.003	1
10	MP4A	X	-6.014	5
11	MP4A	Z	10.417	.5
12	MP4A	Mx	.003	5
13	MP4B	X	-3.949	1
14	MP4B	Z	6.839	1
15	MP4B	Mx	004	1
16	MP4B	X	-3.949	5
17	MP4B	Z	6.839	5
18	MP4B	Mx	004	5
19	MP4C	X	-5.546	1
20	MP4C	Z	9.606	1
21	MP4C	Mx	.004	1
22	MP4C	X	-5.546	5
23	MP4C	Z	9.606	5
24	MP4C	Mx	.004	5
25	MP2A	X	-12.793	1
26	MP2A	Z	22.159	1
27	MP2A	Mx	.024	1
28	MP2A	X	-12.793	5
29	MP2A	Z	22.159	5
30	MP2A	Mx	.024	5
31	MP2B	X	-10.399	1
32	MP2B	Z	18.012	
33	MP2B	Mx	013	1
34	MP2B	X	-10.399	
35	MP2B	Z	18.012	5
36	MP2B	Mx	013	5
37	MP2A	X	-12.793	5
38	MP2A	Z	22.159	1
39	MP2A	Mx	005	1
40	MP2A	X	-12.793	1
41	MP2A	Z		5
42	MP2A	Mx	22.159	5
43	MP2B	X	005 10.300	5
44	MP2B	Z	-10.399	1
45	MP2B	Mx	18.012	1
46	MP2B	X	018	1
47	MP2B		-10.399	5
48	MP2B	Z	18.012	5
49	MP2C	Mx	018	5
50		X	-11.673	1
51	MP2C MP2C	Z	20.218	1
		Mx	.003	1
52	MP2C	X	-11.673	5
53	MP2C	Z	20.218	5
54	MP2C	Mx	.003	5
55	MP2C	X	-11.673	11
56	MP2C	Z	20.218	1
57	MP2C	Mx	.023	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2C		-11.673	5
59	MP2C	X	20.218	5
60	MP2C	Mx	.023	5
61	MP1A	X	-5.746	2
62	MP1A	Z	9.952	2
63	MP1A	Mx	.004	2
64	MP1A	X	-5.746	4
65	MP1A	Z	9.952	4
66	MP1A	Mx	.004	4
67	MP1B	X	-2.964	2
68	MP1B	Z	5.135	2
69	MP1B	Mx	004	2
70	MP1B	X	-2.964	4
71	MP1B	Z	5.135	4
72	MP1B	Mx	004	4
73	MP1C	X	-4.444	2
74	MP1C	Z	7.698	2
74 75	MP1C	Mx	.005	2
76	MP1C	X	-4.444	4
77	MP1C	Z	7.698	4
78	MP1C	Mx	.005	4
78 79	MP3A	X	-5.591	5
80	MP3A	Ž	9.683	.5
81	MP3A	Mx	000971	.5
82	MP3B	X	-5.591	.5
	MP3B	Ž	9.683	.5
83 84	MP3B	Mx	000971	.5
	MP3C	X	-5.591	.5
85 86	MP3C	Z	9.683	.5
87	MP3C	Mx	000971	.5
88	MP2A	X	-5.571	1.5
89	MP2A	Z	9.649	1.5
90	MP2A	Mx	000967	1.5
91	MP2B	X	-5.571	1.5
92	MP2B	Z	9,649	1.5
93	MP2B	Mx	000967	1.5
	MP2C	X	-5.571	1.5
94	MP2C	Z	9.649	1.5
	MP2C	Mx	000967	1.5
96	OVP	X	-10.781	1
97	OVP	Z	18.673	1
98	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	-2.839	4
2	MP2A	7	1.639	4
-	MP2A	Mx	001	4
3	MP2C	X	-4.964	4
4	MP2C	7	2.866	4
6	MP2C	Mx	00098	4
7	MP4A	X	-7.932	11_
8	MP4A	Z	4.579	1 1 -
9	MP4A	Mx	.004	1
10	MP4A	X	-7.932	5
11	MP4A	Z	4.579	



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

12	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
13	MP4A MP4B	Mx	.004	5
14	MP4B	X	-8.743	1
15	MP4B	Z Mx	5.048	1
16	MP4B	X	004	<u> 1</u>
17	MP4B	Z	-8.743	5
18	MP4B	Mx	5.048 004	5
19	MP4C	X	-11.51	5
20	MP4C	Z	6.645	1
21	MP4C	Mx	.001	1
22	MP4C	X	-11.51	5
23	MP4C	Z	6.645	5
24	MP4C	Mx	.001	5
25	MP2A	X	-19.278	1
26	MP2A	Z	11.13	1
27	MP2A	Mx	.022	1
28	MP2A	X	-19.278	5
29	MP2A	Z	11.13	5
30	MP2A	Mx	.022	5
31	MP2B	X	-20.218	1
32	MP2B	Z	11.673	
33	MP2B	Mx	003	1
34	MP2B	X	-20.218	5
35	MP2B	Z	11.673	5
36	MP2B	Mx	003	5
37	MP2A	X	-19.278	1
38	MP2A	Z	11.13	1
39	MP2A	Mx	.007	1
40	MP2A	X	-19.278	5
41	MP2A	Z	11.13	5
42	MP2A	Mx	.007	5
43	MP2B	X	-20.218	11
44	MP2B	Z	11.673	
45 46	MP2B	Mx	023	1
47	MP2B MP2B	X	-20.218	5
48	MP2B	Z	11.673	5
49	MP2C	Mx	023	5
50	MP2C	X	-22.925	1
51	MP2C		13.236	1
52	MP2C	Mx X	01	1
53	MP2C	Z	-22.925	5
54	MP2C	Mx	13.236	5
55	MP2C	X	01 -22.925	5
56	MP2C	Z	-22.925 13.236	1
57	MP2C	Mx	.023	1 1
58	MP2C	X	-22.925	1
59	MP2C	Z	13.236	<u>5</u> 5
60	MP2C	Mx	.023	
61	MP1A	X	-6.606	5 2
62	MP1A	Z	3.814	2
63	MP1A	Mx	.005	2
64	MP1A	X	-6.606	4
65	MP1A	Z	3.814	4
66	MP1A	Mx	.005	4
67	MP1B	X	-7.698	2
68	MP1B	Z	4.444	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
69	MP1B	Mx	005	2
70	MP1B	X	-7.698	4
71	MP1B	Z	4.444	4
72	MP1B	Mx	005	4
73	MP1C	X	-10.842	2
74	MP1C	Z	6.26	2
75	MP1C	Mx	.003	2
76	MP1C	X	-10.842	4
77	MP1C	Z	6.26	4
78	MP1C	Mx	.003	4
79	MP3A	X	-8.539	.5
80	MP3A	Z	4.93	.5
81	MP3A	Mx	003	.5
82	MP3B	X	-8.539	.5
83	MP3B	Z	4.93	.5
84	MP3B	Mx	003	.5
85	MP3C	X	-8.539	.5
86	MP3C	Z	4.93	.5
87	MP3C	Mx	003	.5
88	MP2A	X	-8.07	1.5
	MP2A	Z	4.659	1.5
89 90	MP2A	Mx	003	1.5
91	MP2B	X	-8.07	1.5
92	MP2B	Z	4.659	1.5
93	MP2B	Mx	003	1.5
93	MP2C	X	-8.07	1.5
	MP2C	Z	4.659	1.5
95	MP2C	Mx	003	1.5
96	OVP	X	-16.382	1
97	OVP	Z	9.458	1
98 99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.308	4
2	MP2A	Z	0	4
3	MP2A	Mx	001	4
4	MP2C	X	-6.068	4
5	MP2C	Z	0	4
6	MP2C	Mx	.000527	4
7	MP4A	X	-7.724	1
8	MP4A	Z	0	1
9	MP4A	Mx	.004	11
10	MP4A	X	-7.724	5
11	MP4A	Z	0	5
12	MP4A	Mx	.004	5
13	MP4B	X	-12.792	11
14	MP4B	Z	0	11
15	MP4B	Mx	002	11
16	MP4B	X	-12.792	5
17	MP4B	Z	0	5
18	MP4B	Mx	002	5
19	MP4C	X	-12.792	
20	MP4C	Z	0	
21	MP4C	Mx	002	11
22	MP4C	X	-12.792	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4C	Z	0 "	5
24	MP4C	Mx	002	5
25	MP2A	X	-20.598	1
26	MP2A	Z	0	1
27	MP2A	Mx	.015	1
28	MP2A	X	-20.598	5
29	MP2A	Z	0	5
30	MP2A	Mx	.015	5
31	MP2B	X	-26.472	1
32	MP2B	Z	0	1
33	MP2B	Mx	.01	1
34	MP2B	X	-26.472	5
35	MP2B	Z	0	5
36	MP2B	Mx	.01	5
37	MP2A	X	-20.598	1
38	MP2A	Z	0	1
39	MP2A	Mx	.015	1
10	MP2A	X	-20.598	5
41	MP2A	Z	0	5
42	MP2A	Mx	.015	5
43	MP2B	X	-26.472	1
44	MP2B	Z	0	1
45	MP2B	Mx	023	1
46	MP2B	X	-26.472	5
47	MP2B	Z	0	5
48	MP2B	Mx	023	5
49	MP2C	X	-27.049	1
50	MP2C	Z	0	1
51	MP2C	Mx	021	1
52	MP2C	X	-27.049	5
53	MP2C	Z	0	5
54	MP2C	Mx	021	5
55	MP2C	X	-27.049	1
56	MP2C	Z	0	1
57	MP2C	Mx	.014	1
58	MP2C	X	-27.049	5
59	MP2C	Z	0	5
60	MP2C	Mx	.014	5
31	MP1A	X	-5.696	2
52	MP1A	Z	0	2
63	MP1A	Mx	.004	2
64	MP1A	X	-5.696	4
35	MP1A	Z	0	4
66	MP1A	Mx	.004	4
67	MP1B	X	-12.52	2
88	MP1B	Z	0	2
39	MP1B	Mx	003	2
0	MP1B	X	-12,52	4
1	MP1B	Z	-12.52	4
2	MP1B	Mx	003	
3	MP1C	X	003 -13.191	4
4	MP1C	Z		2
5	MP1C	Mx	0	2
76	MP1C	X	002	2
7	MP1C	Z	-13.191	4
8	MP1C	Mx	0	4
~	MP3A	X	002	4



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3A	Z	0	.5
81	MP3A	Mx	004	.5
	MP3B	X	-8.239	.5
82 83	MP3B	7	0	.5
	MP3B	Mx	004	.5
84	MP3C	X	-8.239	.5
85	MP3C	Z	0	.5
86	MP3C	Mx	004	.5
87	MP2A	X	-7.082	1.5
88	MP2A MP2A	Ž	0	1.5
89	MP2A	Mx	003	1.5
90		X	-7.082	1.5
91	MP2B	7	0	1.5
92	MP2B	Mx	003	1.5
93	MP2B	X	-7.082	1.5
94	MP2C	7	0	1.5
95	MP2C	Mx	003	1.5
96	MP2C	X	-15.672	1
97	OVP	<del></del>	0	1
98	OVP		0	1
99	OVP	Mx	<u> </u>	

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

	Point Loads (BLC 25 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
1	MP2A	X	-2.839	4
2	MP2A	Z	-1.639	4
3	MP2A	Mx	001	4
	MP2C	X	-3.969	4
4	MP2C	Z	-2.292	4
5	MP2C	Mx	.001	4
7	MP4A	X	-7.932	1
	MP4A	Z	-4.579	11
8	MP4A MP4A	Mx	.004	1
9		X	-7.932	5
10	MP4A MP4A	7.	-4.579	5
11	MP4A MP4A	Mx	.004	5
12	MP4B	X	-11.51	1
13	MP4B	Z	-6.645	1
14		Mx	.001	1
15	MP4B	X	-11.51	5
16	MP4B	Z	-6.645	5
17	MP4B	Mx	.001	5
18	MP4B	X	-8.743	1
19	MP4C	Z	-5.048	1
20	MP4C		004	1
21	MP4C	Mx	-8.743	5
22	MP4C	X	-5.048	5
23	MP4C		004	5
24	MP4C	Mx	-19.278	1
25	MP2A	X	-11.13	
26	MP2A	Z	.007	1
27	MP2A	Mx		5
28	MP2A	X	<u>-19.278</u>	5
29	MP2A	Z	-11.13	5
30	MP2A	Mx	.007	1
31	MP2B	X	-23.426	1
32	MP2B	Z	-13.525	
33	MP2B	Mx	.021	

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

04	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	-23.426	5
35	MP2B	Z	-13.525	5
36	MP2B	Mx	.021	5
37	MP2A	X	-19.278	1
38	MP2A	Z	-11.13	1
39	MP2A	Mx	.022	1
40	MP2A	X	-19.278	5
11	MP2A	Z	-11.13	5
2	MP2A	Mx	.022	5
13	MP2B	X	-23.426	1
14	MP2B	Z	-13.525	1
15	MP2B	Mx	014	1
16	MP2B	X	-23.426	5
7	MP2B	Z	-13.525	5
8	MP2B	Mx	014	5
.9	MP2C	X	-21.219	1
0	MP2C	Z	-12.251	1
1	MP2C	Mx	024	1
2	MP2C	X	-21.219	5
3	MP2C	Z	-12.251	
4	MP2C	Mx	024	5
5	MP2C	X	024	5
6	MP2C	Ž		1
7	MP2C	Mx	-12.251	1
8	MP2C		.000701	<u>1</u>
9	MP2C	X	-21.219	5
0	MP2C	Z	-12.251	5
1		Mx	.000701	5
2	MP1A	X	-6.606	2
	MP1A	Z	-3.814	2
3	MP1A	Mx	.005	2
4	MP1A	X	-6.606	4
5	MP1A	Z	-3.814	4
6	MP1A	Mx	.005	4
7	MP1B	X	-11.424	2
8	MP1B	Z	-6.595	2
9	MP1B	Mx	.002	2
0	MP1B	X	-11.424	4
1	MP1B	Z	-6.595	4
2	MP1B	Mx	.002	4
3	MP1C	X	-8.86	2
4	MP1C	Z	-5.115	2
5	MP1C	Mx	005	2
6	MP1C	X	-8.86	4
7	MP1C	Z	-5.115	4
8	MP1C	Mx	005	4
9	MP3A	X	-6.876	.5
0	MP3A	Z	-3.97	.5
1	MP3A	Mx	004	.5
2	MP3B	X	-6.876	.5
3	MP3B	Z	-3.97	.5
4	MP3B	Mx	004	.5
5	MP3C	X	-6.876	.5
6	MP3C	Z	-3.97	.5
7	MP3C	Mx		.5
В	MP2A	X	004	.5
9	MP2A	Z	-5.775	1.5
0	MP2A		-3.334	1.5
<u> </u>	IVIT ZF	Mx	003	1.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2B	X	-5.775	1.5
92	MP2B	Z	-3.334	1.5
93	MP2B	Mx	003	1.5
94	MP2C	X	-5.775	1.5
95	MP2C	Z	-3.334	1.5
95 96	MP2C	Mx	003	1.5
97	OVP	X	-13.053	11
98	OVP	Z	-7.536	111
99	OVP	Mx	0	

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP2A	X	-2.608	4
2	MP2A	Z	-4.517	4
3	MP2A	Mx	001	4
4	MP2C	X	-1.381	4
5	MP2C	Z	-2.392	4
6	MP2C	Mx	.001	4
7	MP4A	X	<b>-</b> 6.014	11
8	MP4A	Z	-10.417	1
9	MP4A	Mx	.003	11
10	MP4A	X	-6.014	5
11	MP4A	Z	-10.417	5
12	MP4A	Mx	.003	5
13	MP4B	X	-5.546	11
14	MP4B	Z	-9.606	1
15	MP4B	Mx	.004	11
16	MP4B	X	-5.546	5
17	MP4B	Z	-9.606	5
18	MP4B	Mx	.004	5
19	MP4C	X	-3.949	11
20	MP4C	Z	-6.839	1
21	MP4C	Mx	004	11
22	MP4C	X	-3.949	5
23	MP4C	Z	-6.839	5
24	MP4C	Mx	004	5
25	MP2A	X	-12.793	1
26	MP2A	Z	-22.159	1
27	MP2A	Mx	005	11
28	MP2A	X	-12.793	5
29	MP2A	Z	-22.159	5
30	MP2A	Mx	005	5
31	MP2B	X	-12.251	1
32	MP2B	Z	-21.219	1
33	MP2B	Mx	.024	1
	MP2B	X	-12.251	5
34 35	MP2B	Ž	-21.219	5
36	MP2B	Mx	.024	5
37	MP2A	X	-12.793	11
	MP2A	Ž	-22.159	1
38	MP2A	Mx	.024	1
39	MP2A	X	-12.793	5
40	MP2A MP2A	Z	-22.159	5
41	MP2A MP2A	Mx	.024	5
42	MP2B	X	-12.251	1
43	MP2B MP2B	Z	-21.219	1

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

4-1	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	000701	1
46	MP2B	X	-12.251	5
47	MP2B	Z	-21.219	5
48	MP2B	Mx	000701	5
49	MP2C	X	-10.688	1
50	MP2C	Z	-18.512	1
51	MP2C	Mx	02	1
52	MP2C	X	-10.688	5
53	MP2C	Z	-18.512	5
54	MP2C	Mx	02	5
55	MP2C	X	-10.688	1
56	MP2C	Z	-18.512	1
57	MP2C	Mx	01	1
58	MP2C	X	-10.688	5
59	MP2C	Z	-18.512	5
60	MP2C	Mx	01	5
61	MP1A	X	-5.746	2
62	MP1A	Z	-9.952	2
63	MP1A	Mx	.004	2
64	MP1A	X	-5.746	4
65	MP1A	Z	-9.952	4
66	MP1A	Mx	.004	4
67	MP1B	X	-5.115	2
68	MP1B	Z	-8.86	2
69	MP1B	Mx	.005	2
<b>70</b> 71	MP1B	X	-5.115	4
72	MP1B	Z	-8.86	4
73	MP1B	Mx	.005	4
74	MP1C MP1C	X	-3.3	2
75		Z	-5.716	2
	MP1C	Mx	005	2
76   77	MP1C MP1C	X	-3.3	4
78	MP1C	Z	-5.716	4
79	MP3A	Mx	005	4
30	MP3A	X	-4.63	.5
81	MP3A	Z	-8.02	.5
31	MP3B	Mx	004	.5
33	MP3B	X	-4.63	.5
34	MP3B	Z	-8.02	.5
35	MP3C	Mx	004	.5
36	MP3C	X	-4.63	.5
37	MP3C	Z	-8.02	.5
38	MP2A	Mx X	004	.5
39	MP2A	Z	-4.246 7.254	1.5
90	MP2A		-7.354 -003	1.5
91	MP2B	Mx	003	1.5
92	MP2B	X	-4.246	1.5
93	MP2B		-7.354	1.5
94	MP2C	Mx	003	1.5
95	MP2C MP2C	X	-4.246 7.254	1.5
96	MP2C		-7.354	1.5
97	OVP	Mx	003	1.5
88	OVP	X	-8.859	1
99	OVP	Mx	<b>-15.344</b> 0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	4
2	MP2A	Z	-1.757	4
3	MP2A	Mx	0	4
4	MP2C	X	0	4
5	MP2C	Z	57	4
6	MP2C	Mx	.000281	1
7	MP4A	X	0	1
8	MP4A	Z	-4.319	1
9	MP4A	Mx	0	5
10	MP4A	X	0 -4.319	5
11	MP4A	Z	-4.319	5
12	MP4A	Mx	0	1
13	MP4B	X	-2.539	
14	MP4B	Z	.001	1
15	MP4B	Mx X	0	5
16	MP4B	Z	-2.539	5
17	MP4B	Mx	.001	5
18	MP4B	X	0	1
19	MP4C	Ž	-2.539	1
20	MP4C	Mx	001	1
21	MP4C	X	0	5
22	MP4C	Z	-2.539	5
23	MP4C	Mx	001	5
24	MP4C	X	0	1
25	MP2A	Z	-4.328	1
26	MP2A	Mx	003	1
27	MP2A	X	0	5
28	MP2A	Z	-4.328	5
29	MP2A	Mx	003	5
30	MP2A MP2B	X	0	1
31	MP2B	Z	-3.367	1
32	MP2B	Mx	.003	1
33	MP2B	X	0	5
35	MP2B	Z	-3.367	5
36	MP2B	Mx	.003	5
37	MP2A	X	0	1
38	MP2A	Z	-4.328	1
39	MP2A	Mx	.003	11
40	MP2A	X	0	5
41	MP2A	Z	-4.328	5
42	MP2A	Mx	.003	5
43	MP2B	X	0	11
44	MP2B	Z	-3.367	
45	MP2B	Mx	.002	11
46	MP2B	X	0	5
47	MP2B	Z	-3.367	5
48	MP2B	Mx	.002	5
49	MP2C	X	0	11
50	MP2C	Z	-3.272	1
51	MP2C	Mx	002	11
52	MP2C	X	0	5
53	MP2C	Z	-3.272	5
54	MP2C	Mx	002	5
55	MP2C	X	0	11
56	MP2C	Z	-3.272	1
57	MP2C	Mx	003	1

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

Membe		Direction	Magnitude[lb,k-ft]	Location[ft,%]
58 MP	2C	X	0	5
59 MP		Z	-3.272	5
60 MP		Mx	003	5
61 MF		X	0	2
62 MF		Z	-3.587	2
63 MP		Mx	0	2
64 MP		X	0	4
65 MP		Z	-3.587	4
66 MP	1A	Mx	0	4
67 MP		X	0	2
68 MP		Z	-1.51	2
69 MP		Mx	.001	2
70 MP		X	0	4
71 MP		Z	-1.51	4
72 MP	1B	Mx	.001	4
73 MP	1C	X	0	2
74 MP	1C	Z	-1.306	2
75 MP	1C	Mx	000965	2
76 MP	1C	X	0	4
77 MP	1C	Z	-1.306	4
78 MP		Mx	000965	4
79 MP	3A	X	0	.5
80 MP		Z	-2.727	.5
81 MP	3A	Mx	000466	.5
82 MP		X	0	.5
83 MP		Z	-2.727	.5
84 MP		Mx	000466	.5
85 MP:		X	0	.5
86 MP:		Z	-2.727	.5
87 MP:	3C	Mx	000466	.5
88 MP	2A	X	0	1.5
89 MP		Z	-2.687	1.5
90 MP		Mx	00046	1.5
91 MP		X	0	1.5
92 MP		Z	-2.687	1.5
93 MP		Mx	00046	1.5
94 MP:		X	0	1.5
95 MP:		Z	-2.687	1.5
96 MP:		Mx	00046	1.5
97 OV		X	0	1.5
98 OV		Z	-5.639	1
99 OV		Mx	-5:559	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.725	4
2	MP2A	Z	-1.256	4
3	MP2A	Mx	.000362	4
4	MP2C	X	.519	4
5	MP2C	Z	899	4
6	MP2C	Mx	.000398	4
7	MP4A	X	1.907	1
8	MP4A	Z	-3.304	1
9	MP4A	Mx	000954	1
10	MP4A	X	1.907	5
11	MP4A	Z	-3.304	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4A	Mx	000954	5
13	MP4B	X	1.182	1
14	MP4B	Z	-2.047	1
15	MP4B	Mx	.001	11
16	MP4B	X	1.182	5
17	MP4B	Z	-2.047	5
18	MP4B	Mx	.001	5
19	MP4C	X	1.743	11
20	MP4C	Z	-3.019	
21	MP4C	Mx	001	11
22	MP4C	X	1.743	5
23	MP4C	Z	-3.019	5
24	MP4C	Mx	001	5
25	MP2A	X	2.028	11
26	MP2A	Z	-3.512	1
27	MP2A	Mx	004	11
28	MP2A	X	2.028	5
29	MP2A	Z	-3.512	5
30	MP2A	Mx	004	5
31	MP2B	X	1.636	1
32	MP2B	Z	-2.834	
33	MP2B	Mx	.002	1
34	MP2B	X	1.636	5
35	MP2B	Z	-2.834	5
36	MP2B	Mx	.002	5
37	MP2A	X	2.028	11
38	MP2A	Z	-3.512	1
39	MP2A	Mx	.00082	1
40	MP2A	X	2.028	5
41	MP2A	Z	-3.512	5
42	MP2A	Mx	.00082	5
43	MP2B	X	1.636	1
44	MP2B	Z	-2.834	
45	MP2B	Mx	.003	1
46	MP2B	X	1.636	5
47	MP2B	Z	-2.834	5
48	MP2B	Mx	.003	5
49	MP2C	X	1.845	1
50	MP2C	Z	-3.195	1
51	MP2C	Mx	000538	11
52	MP2C	X	1.845	5
53	MP2C	Z	-3.195	5
54	MP2C	Mx	000538	5
55	MP2C	X	1.845	1
56	MP2C	Z	-3.195	1
57	MP2C	Mx	004	11
58	MP2C	X	1.845	5
58	MP2C	Z	-3.195	5
	MP2C	Mx	004	5
60	MP1A	X	1.5	2
61	MP1A	Ž	-2.597	2
62	MP1A MP1A	Mx	001	2
63	MP1A	X	1.5	4
64	MP1A	Z	-2.597	4
65	MP1A	Mx	001	4
66	MP1B	X	.653	2
67	MP1B MP1B	Z	-1.131	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1B	Mx	.000965	2
70	MP1B	X	.653	4
71	MP1B	Z	-1.131	4
72	MP1B	Mx	.000965	4
73	MP1C	X	1.103	2
74	MP1C	Z	-1.911	2
75	MP1C	Mx	001	2
76	MP1C	X	1.103	4
77	MP1C	Z	-1.911	4
78	MP1C	Mx	001	4
79	MP3A	X	1.404	.5
80	MP3A	Z	-2.432	.5
81	MP3A	Mx	.000244	.5
82	MP3B	X	1.404	.5
83	MP3B	Z	-2.432	.5
84	MP3B	Mx	.000244	.5
85	MP3C	X	1.404	.5
86	MP3C	Z	-2.432	.5
87	MP3C	Mx	.000244	.5
88	MP2A	X	1.399	1.5
89	MP2A	Z	-2.423	1.5
90	MP2A	Mx	.000243	1.5
91	MP2B	X	1.399	1.5
92	MP2B	Z	-2.423	1.5
93	MP2B	Mx	.000243	1.5
94	MP2C	X	1.399	1.5
95	MP2C	Z	-2.423	1.5
96	MP2C	Mx	.000243	1.5
97	OVP	X	2.88	1.5
98	OVP	7	-4.988	
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.726	4
2	MP2A	Z	419	4
3	MP2A	Mx	.000363	4
4	MP2C	X	1.397	4
5	MP2C	Z	807	4
6	MP2C	Mx	.000276	4
7	MP4A	X	2.431	1
8	MP4A	Z	-1.404	1
9	MP4A	Mx	001	1
10	MP4A	X	2.431	5
11	MP4A	Z	-1.404	5
12	MP4A	Mx	001	5
13	MP4B	X	2.716	1
14	MP4B	Z	-1.568	1
15	MP4B	Mx	.001	1
16	MP4B	X	2.716	5
17	MP4B	7	-1.568	5
18	MP4B	Mx	.001	5
19	MP4C	X	3.688	1 1
20	MP4C	Z	-2.129	1
21	MP4C	Mx	00037	1
22	MP4C	X	3.688	5

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

	Member Label	: Antenna Wm (60 I	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4C	Z	-2.129	5
24	MP4C	Mx	00037	5
25	MP2A	X	3.041	1
26	MP2A	Z	-1.756	
27	MP2A	Mx	003	11
28	MP2A	X	3.041	5
29	MP2A	Z	-1.756	5
30	MP2A	Mx	003	5
31	MP2B	X	3.195	11
	MP2B	Z	-1.845	
32	MP2B	Mx	.000539	11
33	MP2B	X	3.195	5
34	MP2B	Z	-1.845	5
35	MP2B	Mx	.000539	5
36	MP2A	X	3.041	1
37		Z	-1.756	1
38	MP2A MP2A	Mx	001	1
39		X	3.041	5
40	MP2A	Z	-1.756	5
41	MP2A	Mx	001	5
42	MP2A	X	3.195	1
43	MP2B	Z	-1.845	1
44	MP2B	Mx	.004	1
45	MP2B	X	3.195	5
46	MP2B	Ž	-1.845	5
47	MP2B		.004	5
48	MP2B	Mx	3.638	1
49	MP2C	X	-2.1	1
50	MP2C	Z	.002	1
51	MP2C	Mx	3.638	5
52	MP2C	X		5
53	MP2C	Z	-2.1	5
54	MP2C	Mx	.002	1 1
55	MP2C	X	3,638	1
56	MP2C	Z	-2.1	1
57	MP2C	Mx	004	5
58	MP2C	X	3.638	5
59	MP2C	Z	-2.1	
60	MP2C	Mx	004	5
61	MP1A	X	1.579	2
62	MP1A	Z	912	2
63	MP1A	Mx	001	2
64	MP1A	X	1.579	4
65	MP1A	Z	912	4
66	MP1A	Mx	001	4
67	MP1B	X	1.911	2
68	MP1B	Z	-1.103	2
	MP1B	Mx	.001	2
69	MP1B	X	1.911	4
70	MP1B	Z	-1.103	4
71		Mx	.001	4
72	MP1B	X	2.868	2
73	MP1C	Ž	-1.656	2
74	MP1C	Mx	00085	2
75	MP1C	X	2.868	4
76	MP1C	Z	-1.656	4
77	MP1C		00085	4
78	MP1C	Mx	2.123	.5
79	MP3A	X	Z. 1ZJ	



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
80	MP3A	Z	-1.225	.5
81	MP3A	Mx	.000788	.5
82	MP3B	X	2.123	.5
83	MP3B	Z	-1.225	.5
84	MP3B	Mx	.000788	.5
85	MP3C	X	2.123	.5
86	MP3C	7	-1.225	.5
87	MP3C	Mx	.000788	.5
88	MP2A	X	1.998	1.5
89	MP2A	Ž	-1.154	1.5
90	MP2A	Mx	.000741	1.5
91	MP2B	X	1.998	1.5
92	MP2B	7	-1.154	1.5
93	MP2B	Mx	.000741	1.5
94	MP2C	X	1.998	1.5
95	MP2C	7	-1.154	1.5
96	MP2C	Mx	.000741	1.5
97	OVP	X	4.526	1.5
98	OVP	Z	-2.613	
99	OVP	Mx	-2:013	

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1 MP2A	X	.533	4
2 MP2A	Z	0	4
3 MP2A	Mx	.000266	4
4 MP2C	X	1.72	4
5 MP2C	Z	0	4
6 MP2C	Mx	000149	4
7 MP4A	X	2.303	1
8 MP4A	Z	0	1
9 MP4A	Mx	001	1
10 MP4A	X	2.303	5
11 MP4A	Z	0	5
12 MP4A	Mx	001	5
13 MP4B	X	4.083	1
14 MP4B	Z	0	1
15 MP4B	Mx	.000698	1
16 MP4B	X	4.083	5
17 MP4B	Z	0	5
18 MP4B	Mx	.000698	5
19 MP4C	X	4.083	1
20 MP4C	7	0	1
21 MP4C	Mx	.000698	1
22 MP4C	X	4.083	5
23 MP4C	Ž	0	5
24 MP4C	Mx	.000698	5
25 MP2A	X	3.239	1
26 MP2A	7	0	
27 MP2A	Mx	002	
28 MP2A	X	3.239	5
29 MP2A	7	<u> </u>	5
MP2A	Mx	002	
MP2B	X	4.201	5
32 MP2B	Ž	0	
MP2B			
33   MP2B	Mx	002	1



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

	mber Label	: Antenna Wm (90	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	4.201	5
35	MP2B	Z	0	
36	MP2B	Mx	002	5
37	MP2A	X	3.239	11
38	MP2A	Z	0	1
	MP2A	Mx	002	11
39	MP2A	X	3.239	5
10	MP2A	Z	0	5
11		Mx	002	5
12	MP2A	X	4.201	1
3	MP2B	Z	0	1
14	MP2B		.004	1
15	MP2B	Mx X	4,201	5
16	MP2B	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	0	5
7	MP2B	Z	.004	5
8	MP2B	Mx	4.295	1
19	MP2C	X		1
50	MP2C	Z	0	1
51	MP2C	Mx	.003	5
52	MP2C	X	4.295	
53	MP2C	Z	0	5
54	MP2C	Mx	.003	
55	MP2C	X	4.295	1
56	MP2C	Z	0	1
57	MP2C	Mx	002	1
58	MP2C	X	4.295	5
59	MP2C	Z	0	5
60	MP2C	Mx	002	5
	MP1A	X	1.235	2
61	MP1A	Z	0	2
52		Mx	000926	2
33	MP1A	X	1.235	4
64	MP1A	Z	0	4
35	MP1A		000926	4
66	MP1A	Mx X	3.312	2
67	MP1B		0	2
68	MP1B	Z	.00085	2
69	MP1B	Mx	3.312	4
70	MP1B	X	0	4
71	MP1B	Z		4
72	MP1B	Mx	.00085	2
73	MP1C	X	3.516	
74	MP1C	Z	0	2
75	MP1C	Mx	.000458	2
76	MP1C	X	3.516	4
77	MP1C	Z	0	4
78	MP1C	Mx	.000458	4
79	MP3A	X	2.012	.5
30	MP3A	Z	0	.5
	MP3A	Mx	.000945	.5
31	MP3B	X	2.012	.5
32		Z	0	.5
33	MP3B	Mx	.000945	.5
34	MP3B	X	2.012	.5
35	MP3C	Z	0	.5
36	MP3C		.000945	.5
87	MP3C	Mx	1.705	1.5
38	MP2A	X		1.5
39	MP2A	Z	0	1.5
90	MP2A	Mx	.000801	1.0



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
91	MP2B	X	1.705	1.5
92	MP2B	Z	1.700	1.5
93	MP2B	Mx	.000801	1.5
94	MP2C	X	1.705	1.5
95	MP2C	7	1.100	1.5
96	MP2C	Mx	.000801	1.5
97	OVP	X	4.573	1 1
98	OVP	Z	0	
99	OVP	Mx	<u> </u>	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.726	4
2	MP2A	Z	.419	4
3	MP2A	Mx	.000363	4
4	MP2C	X	1.084	4
5	MP2C	Z	.626	4
6	MP2C	Mx	000402	4
7	MP4A	X	2.431	1
8	MP4A	Z	1.404	1
9	MP4A	Mx	001	1
10	MP4A	X	2.431	5
11	MP4A	Z	1.404	5
12	MP4A	Mx	001	5
13	MP4B	X	3.688	1
14	MP4B	Z	2.129	1
15	MP4B	Mx	00037	1
16	MP4B	X	3.688	5
17	MP4B	Z	2.129	5
18	MP4B	Mx	00037	5
19	MP4C	X	2.716	1
20	MP4C	Z	1.568	
21	MP4C	Mx	.001	1
22	MP4C	X	2.716	5
23	MP4C	Z	1.568	5
24	MP4C	Mx	.001	5
25	MP2A	X	3.041	1
26	MP2A	Z	1.756	
27	MP2A	Mx	001	
28	MP2A	X	3.041	5
29	MP2A	Z	1.756	5
30	MP2A	Mx	001	5
31	MP2B	X	3.72	1
32	MP2B	Z	2.148	
33	MP2B	Mx	003	
34	MP2B	X	3.72	1
35	MP2B	Z	2.148	5
36	MP2B	Mx		5
37	MP2A	X	<u>003</u> 3.041	5
38	MP2A	Z		1
39	MP2A	Mx	1.756	1
40	MP2A	X	003	11
41	MP2A	Z	3.041	5
42	MP2A		1.756	5
43	MP2B	Mx	003	5
44	MP2B	X	3.72	1
-	IVIFZD		2.148	1



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

Me	ember Label	: Antenna Wm (120	Magnitude[lb,k-ft]	Location[ft,%]
15	MP2B	Mx	.002	11
16	MP2B	X	3.72	5
17	MP2B	Z	2.148	5
48	MP2B	Mx	.002	5
49	MP2C	X	3.359	1
50	MP2C	Z	1.939	1
51	MP2C	Mx	.004	111
52	MP2C	X	3.359	5
53	MP2C	Z	1.939	5
54	MP2C	Mx	,004	5
55	MP2C	X	3.359	11
56	MP2C	Z	1.939	1
57	MP2C	Mx	000111	11
58	MP2C	X	3.359	5
59	MP2C	Z	1.939	5
60	MP2C	Mx	000111	5
61	MP1A	X	1.579	2
62	MP1A	Z	.912	2
63	MP1A	Mx	001	2
64	MP1A	X	1.579	4
65	MP1A	Z	.912	4
66	MP1A	Mx	001	4
67	MP1B	X	3.045	2
68	MP1B	7	1.758	2
69	MP1B	Mx	000458	2
70	MP1B	X	3.045	4
	MP1B	Z	1.758	4
71	MP1B	Mx	000458	4
72	MP1C	X	2.265	2
73	MP1C	Z	1.308	2
74	MP1C	Mx	.001	2
75	MP1C	X	2.265	4
76	MP1C	Z	1.308	4
77	MP1C	Mx	.001	4
78	MP3A	X	1.673	.5
79	MP3A	Z	.966	.5
80	MP3A	Mx	.000951	.5
81		X	1.673	.5
82	MP3B MP3B	Z	.966	.5
83		Mx	.000951	.5
84	MP3B	X	1.673	.5
85	MP3C	Z	.966	.5
86	MP3C	Mx	.000951	.5
87	MP3C	X	1.381	1.5
88	MP2A	Z	.797	1.5
89	MP2A	Mx	.000785	1.5
90	MP2A	X	1.381	1.5
91	MP2B	Z	.797	1.5
92	MP2B	Mx	.000785	1.5
93	MP2B	X	1.381	1.5
94	MP2C	Z	.797	1.5
95	MP2C	NAV.	.000785	1.5
96	MP2C	Mx	3.856	1 1
97	OVP	X	2.226	
98	OVP	Z		1
99	OVP	Mx	0	

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	.725	4
2	MP2A	Z	1.256	4
3	MP2A	Mx	.000362	4
4	MP2C	X	.338	4
5	MP2C	Z	.585	4
6	MP2C	Mx	000317	4
7	MP4A	X	1.907	1
8	MP4A	Z	3.304	1
9	MP4A	Mx	000954	1
10	MP4A	X	1.907	5
11	MP4A	Z	3.304	5
12	MP4A	Mx	000954	5
13	MP4B	X	1.743	1
14	MP4B	Z	3.019	1
15	MP4B	Mx	001	
16	MP4B	X	1.743	5
17	MP4B	Z	3.019	5
18	MP4B	Mx	001	5
19	MP4C	X	1.182	1
20	MP4C	Z	2.047	1
21	MP4C	Mx	.001	1
22	MP4C	X	1.182	5
23	MP4C	Z	2.047	5
24	MP4C	Mx	.001	5
25	MP2A	X	2.028	1
26	MP2A	Z	3.512	1
27	MP2A	Mx	.00082	1
28	MP2A	X	2.028	5
29	MP2A	Z	3.512	5
30	MP2A	Mx	.00082	5
31	MP2B	X	1.939	1
32	MP2B	Z	3.359	1
33	MP2B	Mx	004	1
34	MP2B	X	1.939	5
35	MP2B	Z	3.359	5
36	MP2B	Mx	004	5
37	MP2A	X	2.028	1
38	MP2A	Z	3.512	
39	MP2A	Mx	004	1
40	MP2A	X	2.028	5
41	MP2A	Z	3.512	5
12	MP2A	Mx	004	5
13	MP2B	X	1.939	1
14	MP2B	Ž	3.359	
15	MP2B	Mx		
6	MP2B	X	1.939	5
7	MP2B	Z	3.359	5
8	MP2B	Mx	.000111	5
9	MP2C	X	1.683	5
0	MP2C	Ž	2.916	11
51	MP2C	Mx	.003	1 1
2	MP2C	X		1
3	MP2C	Z	1.683	5
4	MP2C		2.916	5
55	MP2C	Mx	.003	5
66	MP2C	X	1.683	1
7	MP2C	Mx	2.916	1
	IVII ZU	I IVIX	.002	1



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

	Point Loads (BLC 32 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2C	X	1.683	5
59	MP2C	X	2.916	5
60	MP2C	Mx	.002	5
	MP1A	X	1.5	2
61	MP1A	Z	2.597	2
62	MP1A	Mx	001	2
63	MP1A	X	1.5	4
64	MP1A	Z	2.597	4
65		Mx	001	4
66	MP1A MP1B	X	1.308	2
67	MP1B	Z	2.265	2
86	MP1B	Mx	001	2
69	MP1B	X	1.308	4
70	MP1B	Z	2.265	4
71	MP1B	Mx	001	4
72	MP1B	X	.755	2
73	MP1C	Z	1.308	2
74	MP1C	Mx	.001	2
75	MP1C	X	.755	4
76	MP1C	Z	1.308	4
77	MP1C		.001	4
78	MP1C	Mx	1.144	.5
79	MP3A	X	1.982	.5
80	MP3A		.000876	.5
81	MP3A	Mx	1.144	.5
82	MP3B	X	1.982	.5
83	MP3B	Z	.000876	.5
84	MP3B	Mx	1.144	.5
85	MP3C	X	1.982	.5
86	MP3C	Z	.000876	.5
87	MP3C	Mx	1.042	1.5
88	MP2A	X		1.5
89	MP2A	Z	1.806	1.5
90	MP2A	Mx	.000798	1.5
91	MP2B	X	1.042	1.5
92	MP2B	Z	1.806	1.5
93	MP2B	Mx	.000798	
94	MP2C	X	1.042	1.5
95	MP2C	Z	1.806	1.5
96	MP2C	Mx	.000798	1.5
97	OVP	X	2.493	1
98	OVP	Z	4.317	1
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
4	MP2A	X	0	4
2	MP2A	7	1.757	4
3	MP2A MP2A	Mx	0	4
4	MP2C	X	0	4
5	MP2C	Z	.57	4
6	MP2C	Mx	000281	4
7	MP4A	X	0	11
8	MP4A	Z	4.319	11
9	MP4A	Mx	0	1
10	MP4A	X	0	5
11	MP4A	Z	4.319	5



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

40	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP4A	Mx	0	5
13	MP4B	X	0	1
14	MP4B	Z	2.539	1
15	MP4B	Mx	001	11
16	MP4B	X	0	5
17	MP4B	Z	2.539	5
18	MP4B	Mx	001	5
19	MP4C	X	0	1
20	MP4C	Z	2.539	1
21	MP4C	Mx	.001	1
22	MP4C	X	0	5
23	MP4C	Z	2.539	5
24	MP4C	Mx	.001	5
25	MP2A	X	0	1
26	MP2A	Z	4.328	1
27	MP2A	Mx	.003	1
28	MP2A	X	0	5
29	MP2A	Z	4.328	5
30	MP2A	Mx	.003	5
31	MP2B	X	0	1
32	MP2B	Z	3.367	1
33	MP2B	Mx	003	1
34	MP2B	X	0	5
35	MP2B	Z	3.367	5
36	MP2B	Mx	003	5
37	MP2A	X	0	1
38	MP2A	Z	4.328	
39	MP2A	Mx	003	1
40	MP2A	X	0	5
41	MP2A	Z	4.328	5
42	MP2A	Mx	003	5
43	MP2B	X	003	1
44	MP2B	Z	3.367	
45	MP2B	Mx	002	1
46	MP2B	X	0	5
47	MP2B	Z	3.367	5
48	MP2B	Mx	002	5
49	MP2C	X	0	1
50	MP2C	Z	3.272	
51	MP2C	Mx	.002	
52	MP2C	X	0	1
53	MP2C	Z	3.272	5
54	MP2C	Mx		5
55	MP2C	X	.002	5
56	MP2C	Z	0 3.272	11
57	MP2C	Mx		1 1
58	MP2C		.003	1
59	MP2C	X	0	5
60	MP2C		3.272	5
61	MP1A	Mx	.003	5
62	MP1A	X	0	2
63		Z	3.587	2
64	MP1A	Mx	0	2
	MP1A	X	0	4
65	MP1A	Z	3.587	4
66	MP1A	Mx	0	4
67	MP1B MP4B	X	0	2
68	MP1B	Z	1.51	2



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1B	Mx	001	2
70	MP1B	X	0	4
71	MP1B	Z	1.51	4
72	MP1B	Mx	001	4
73	MP1C	X	0	2
74	MP1C	Z	1.306	2
75	MP1C	Mx	.000965	2
76	MP1C	X	0	4
77	MP1C	Z	1.306	4
78	MP1C	Mx	.000965	4
79	MP3A	X	0	.5
80	MP3A	Z	2.727	.5
81	MP3A	Mx	.000466	.5
82	MP3B	X	0	.5
83	MP3B	Z	2.727	.5
84	MP3B	Mx	.000466	.5
85	MP3C	X	0	.5
86	MP3C	Z	2.727	.5
87	MP3C	Mx	.000466	.5
88	MP2A	X	0	1.5
89	MP2A	Z	2.687	1.5
90	MP2A	Mx	.00046	1.5
91	MP2B	X	0	1.5
92	MP2B	Z	2.687	1.5
93	MP2B	Mx	.00046	1.5
94	MP2C	X	0	1.5
95	MP2C	Z	2.687	1.5
96	MP2C	Mx	.00046	1.5
97	OVP	X	0	11
98	OVP	Z	5.639	1
99	OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	725	4
2	MP2A	Z	1.256	4
3	MP2A	Mx	000362	4
4	MP2C	X	519	4
5	MP2C	7	.899	4
6	MP2C	Mx	000398	4
7	MP4A	X	-1.907	1
	MP4A	7	3.304	111
9	MP4A	Mx	.000954	11
10	MP4A	X	-1.907	5
	MP4A	7	3.304	5
11	MP4A	Mx	.000954	5
12 13	MP4B	X	-1.182	11
	MP4B	7	2.047	11
14	MP4B	Mx	001	1
15 16	MP4B	X	-1.182	5
	MP4B	7	2.047	5
17	MP4B	Mx	001	5
18	MP4C	X	-1.743	1
19	MP4C	Ž	3.019	1
20	MP4C MP4C	Mx	.001	1
21	MP4C	X	-1.743	5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
23	MP4C	Z	3.019	5
24	MP4C	Mx	.001	5
25	MP2A	X	-2.028	1
26	MP2A	Z	3.512	1
27	MP2A	Mx	.004	1
28	MP2A	X	-2.028	5
29	MP2A	Z	3.512	5
30	MP2A	Mx	.004	5
31	MP2B	X	-1.636	1 1
32	MP2B	Z	2.834	1
33	MP2B	Mx	002	1
34	MP2B	X	-1.636	5
35	MP2B	Z	2.834	5
36	MP2B	Mx	002	5
37	MP2A	X	-2.028	1
38	MP2A	Z	3.512	1
39	MP2A	Mx	00082	1
40	MP2A	X	-2.028	5
41	MP2A	Z	3.512	5
12	MP2A	Mx	00082	5
43	MP2B	X	-1.636	1
14	MP2B	Ž	2.834	1
45	MP2B	Mx	003	
46	MP2B	X	-1.636	5
17	MP2B	Z	2.834	5
8	MP2B	Mx	003	5
19	MP2C	X	-1.845	1
50	MP2C	Z	3.195	1
51	MP2C	Mx	.000538	1
52	MP2C	X	-1.845	5
53	MP2C	Z	3.195	5
54	MP2C	Mx	.000538	
55	MP2C	X	-1.845	5
56	MP2C	Z	3.195	1
57	MP2C	Mx	.004	1
58	MP2C	X	-1.845	
9	MP2C	Z	3.195	5
60	MP2C	Mx	.004	5
61	MP1A	X	-1.5	5
2	MP1A	Z	2.597	2
33	MP1A	Mx		2
4	MP1A	X	.001 -1.5	2
55	MP1A	Z		4
66	MP1A	Mx	2.597	4
7	MP1B	X	.001 653	4
8	MP1B	Z		2
39	MP1B		1.131	2
0	MP1B	Mx	000965	2
1	MP1B	X	653	4
2	MP1B	Z	1.131	4
3	MP1C MP1C	Mx	000965	4
		X	-1.103	2
4	MP1C	Z	1.911	2
5	MP1C	Mx	.001	2
6	MP1C	X	-1.103	4
7	MP1C	Z	1.911	4
8	MP1C	Mx	.001	4
9	MP3A	X	-1.404	.5



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
00	MP3A	7	2.432	.5
80	MP3A	Mx	000244	.5
81		X	-1.404	.5
82	MP3B	7	2.432	.5
83	MP3B	Mx	000244	.5
84	MP3B	X	-1.404	.5
85	MP3C	Z	2.432	.5
86	MP3C		000244	.5
87	MP3C	Mx	-1.399	1.5
88	MP2A	X		1.5
89	MP2A	Z	2.423	1.5
90	MP2A	Mx	000243	1.5
91	MP2B	X	-1.399	1.5
92	MP2B	Z	2.423	
93	MP2B	Mx	000243	1.5
94	MP2C	X	-1.399	1.5
95	MP2C	Z	2.423	1.5
96	MP2C	Mx	000243	1.5
97	OVP	X	-2.88	1
98	OVP	Z	4.988	1
99	OVP	Mx	0	1

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

	Point Loads (BLC 35 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	726	4
	MP2A	Z	.419	4
2	MP2A	Mx	000363	4
3	MP2C	X	-1.397	4
4	MP2C	Z	.807	4
5	MP2C	Mx	000276	4
6	MP2C	X	-2.431	1
7	MP4A	Ž	1.404	1
8	MP4A	Mx	.001	1
9	MP4A	X	-2.431	5
10	MP4A	7	1.404	5
11	MP4A	Mx	.001	5
12	MP4A		-2.716	1
13	MP4B	X	1.568	1
14	MP4B		001	1
15	MP4B	Mx	-2.716	5
16	MP4B	X	1.568	5
17	MP4B	Z	001	5
18	MP4B	Mx		1
19	MP4C	X	-3.688	1
20	MP4C	Z	2.129	1
21	MP4C	Mx	.00037	5
22	MP4C	X	-3.688	5
23	MP4C	Z	2.129	
24	MP4C	Mx	.00037	5
25	MP2A	X	-3.041	+
26	MP2A	Z	1.756	
27	MP2A	Mx	.003	1
28	MP2A	X	-3.041	5
29	MP2A	Z	1.756	5
30	MP2A	Mx	.003	5
31	MP2B	X	-3.195	1111
32	MP2B	Ž	1.845	1
33	MP2B	Mx	000539	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
34	MP2B	X	-3.195	5
35	MP2B	Z	1.845	5
36	MP2B	Mx	000539	5
37	MP2A	X	-3.041	1
38	MP2A	Z	1.756	1
39	MP2A	Mx	.001	1
40	MP2A	X	-3.041	5
41	MP2A	Z	1.756	5
42	MP2A	Mx	.001	5
43	MP2B	X	-3.195	Ĭ
44	MP2B	Z	1.845	1
45	MP2B	Mx	004	1
46	MP2B	X	-3.195	5
47	MP2B	Z	1.845	5
48	MP2B	Mx	004	5
49	MP2C	X	-3.638	1
50	MP2C	Ž	2.1	1
51	MP2C	Mx	002	1
52	MP2C	X	-3.638	5
53	MP2C	Z	2.1	5
54	MP2C	Mx	002	5
55	MP2C	X	-3.638	
56	MP2C	Z	2.1	1 1
57	MP2C	Mx	.004	
58	MP2C	X	-3.638	
59	MP2C	Z		5
60	MP2C	Mx	2.1 .004	5
61	MP1A	X		5
62	MP1A	Z	-1.579	2
63	MP1A		.912	2
64	MP1A	Mx	.001	2
65	MP1A	X	-1.579	4
66	MP1A		.912	4
67	MP1B	Mx	.001	4
68	MP1B	X	-1.911	2
69	MP1B	Z	1.103	2
70		Mx	001	2
71	MP1B MP4B	X	-1.911	4
72	MP1B MP1B	Z	1.103	4
73	MP1B MP1C	Mx	001	4
74	MP1C	X	-2.868	2
75	MP1C	Z	1.656	2
	MP1C	Mx	.00085	2
76 77	MP1C	X	-2.868	4
	MP1C	Z	1.656	4
78	MP1C	Mx	.00085	4
79	MP3A	X	-2.123	.5
30	MP3A	Z	1.225	.5
31	MP3A	Mx	000788	.5
32	MP3B	X	-2.123	.5
33	MP3B	Z	1.225	.5
34	MP3B	Mx	000788	.5
35	MP3C	X	-2.123	.5
36	MP3C	Z	1.225	.5
37	MP3C	Mx	000788	.5
38	MP2A	X	-1.998	1.5
39	MP2A	Z	1.154	1.5
90	MP2A	Mx	000741	1.5

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
	X	-1.998	1.5
91 MP2B	7	1.154	1.5
92 MP2B	Mx	000741	1.5
93 MP2B	Y	-1.998	1.5
94 MP2C	7	1.154	1.5
95 MP2C	Mx	000741	1.5
96 MP2C	Y Y	-4.526	1
97 OVP	7	2.613	1
98 OVP	My	0	1
99 OVP	Mx		

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

	Point Loads (BLC 36 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
4	MP2A	X	533	4
1	MP2A	Z	0	4
2	MP2A	Mx	-,000266	4
3	MP2C	X	-1.72	4
4		Z	0	4
5	MP2C	Mx	.000149	4
6	MP2C	X	-2.303	1
7	MP4A	Z	0	1
8	MP4A	Mx	.001	1
9	MP4A	X	-2.303	5
10	MP4A	Z	0	5
11	MP4A	Mx	.001	5
12	MP4A	X	-4.083	1
13	MP4B	Ž	0	1
14	MP4B		000698	1
15	MP4B	Mx	-4.083	5
16	MP4B	X	0	5
17	MP4B		000698	5
18	MP4B	Mx	-4.083	1
19	MP4C	X	0	1
20	MP4C	Z	000698	i
21	MP4C	Mx	-4.083	5
22	MP4C	X	-4.083 0	5
23	MP4C	Z		5
24	MP4C	Mx	000698	1
25	MP2A	X	-3.239	1
26	MP2A	Z	0	1
27	MP2A	Mx	.002	5
28	MP2A	X	-3.239	5
29	MP2A	Z	0	5 5
30	MP2A	Mx	.002	5
31	MP2B	X	-4,201	
32	MP2B	Z	0	11
33	MP2B	Mx	.002	11
34	MP2B	X	-4.201	5
35	MP2B	Z	0	5
36	MP2B	Mx	.002	5
37	MP2A	X	-3.239	11
	MP2A	Z	0	
38	MP2A	Mx	.002	11
39	MP2A	X	-3.239	5
40		Z	0	5
41	MP2A MP2A	Mx	.002	5
42		X	-4.201	1
43	MP2B MP2B	Z	0	1



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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
45	MP2B	Mx	004	1
46	MP2B	X	-4.201	5
47	MP2B	Z	0	5
18	MP2B	Mx	004	5
19	MP2C	X	-4.295	1
50	MP2C	Z	0	1
51	MP2C	Mx	003	1
52	MP2C	X	-4.295	5
53	MP2C	Z	0	5
54	MP2C	Mx	003	5
55	MP2C	X	-4.295	1
56	MP2C	Z	0	1
57	MP2C	Mx	.002	1
58	MP2C	X	-4.295	5
59	MP2C	Z	0	5
60	MP2C	Mx	.002	5
61	MP1A	X	-1.235	2
52	MP1A	Z	0	2
63	MP1A	Mx	.000926	2
54	MP1A	X	-1.235	4
65	MP1A	Z	0	4
36	MP1A	Mx	.000926	4
67	MP1B	X	-3.312	2
58	MP1B	Z	0	2
59	MP1B	Mx	00085	2
70	MP1B	X	-3.312	4
71 72	MP1B	Z	0	4
	MP1B	Mx	00085	4
73	MP1C	X	-3.516	2
74	MP1C	Z	0	2
75	MP1C	Mx	000458	2
76	MP1C	X	-3.516	4
77 78	MP1C	Z	0	4
79	MP1C	Mx	000458	4
30	MP3A	X	-2.012	.5
31	MP3A	Z	0	.5
32	MP3A	Mx	000945	.5
33	MP3B MP3B	X	-2.012	.5
34	MP3B	Z	0	.5
35		Mx	000945	.5
36	MP3C MP3C	X	-2.012	.5
37		Z	0	.5
38	MP3C MP2A	Mx	000945	.5
9	MP2A	X	-1.705	1.5
0	MP2A MP2A	Z	0	1.5
1		Mx	000801	1.5
2	MP2B MP2B	X	-1.705	1.5
3		Z	0	1.5
4	MP2B	Mx	000801	1.5
5	MP2C	X	-1.705	1.5
16	MP2C	Z	0	1.5
7	MP2C	Mx	000801	1.5
	OVP	X	-4.573	1
8	OVP	Z	0	37: 4
9	OVP	Mx	0	1



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

	Member Label	: Antenna Wm (300	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	726	4
2	MP2A	Z	419	4
3	MP2A	Mx	000363	4
i l	MP2C	X	-1.084	4
	MP2C	Z	626	4
3	MP2C	Mx	.000402	4
	MP4A	X	-2.431	1
3	MP4A	Z	-1.404	1
	MP4A	Mx	.001	1
0	MP4A	X	-2.431	5
1	MP4A	Z	-1.404	5
2	MP4A	Mx	.001	5
3	MP4B	X	-3.688	1
4	MP4B	Z	-2,129	1
5	MP4B	Mx	.00037	11
6	MP4B	X	-3.688	5
7	MP4B	Z	-2.129	5
8	MP4B	Mx	.00037	5
9	MP4C	X	-2.716	11
o l	MP4C	Z	-1.568	1
1	MP4C	Mx	001	1
2	MP4C	X	-2.716	5
3	MP4C	Z	-1.568	5
4	MP4C	Mx	001	5
5	MP2A	X	-3.041	11
6	MP2A	Z	-1.756	1
7	MP2A	Mx	.001	11
8	MP2A	X	-3.041	5
9	MP2A	Z	-1.756	5
ő	MP2A	Mx	.001	5
1	MP2B	X	-3.72	11
2	MP2B	Z	-2.148	
3	MP2B	Mx	.003	11
4	MP2B	X	-3.72	5
5	MP2B	Z	-2.148	5
6	MP2B	Mx	.003	5
7	MP2A	X	-3.041	11
8	MP2A	Z	-1.756	1
9	MP2A	Mx	.003	1
0	MP2A	X	-3.041	5
1	MP2A	Z	-1.756	5
2	MP2A	Mx	.003	5
3	MP2B	X	-3.72	11
4	MP2B	Z	-2.148	1
5	MP2B	Mx	002	11
6	MP2B	X	-3.72	5
7	MP2B	Z	-2.148	5
8	MP2B	Mx	002	5
9	MP2C	X	-3.359	
0	MP2C	Z	-1.939	1
1	MP2C	Mx	004	1
2	MP2C	X	-3.359	5
3	MP2C	Ž	-1.939	5
	MP2C	Mx	004	5
4	MP2C	X	-3.359	11
6	MP2C	Z	-1.939	1
1 (DI	MP2C	Mx	.000111	1

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

1	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP2C	X	-3.359	5
59	MP2C	Z	-1.939	5
60	MP2C	Mx	.000111	5
61	MP1A	X	-1.579	2
62	MP1A	Z	912	2
63	MP1A	Mx	.001	2
64	MP1A	X	-1.579	4
65	MP1A	Z	912	4
66	MP1A	Mx	.001	4
67	MP1B	X	-3.045	2
68	MP1B	Z	-1.758	2
69	MP1B	Mx	.000458	2
70	MP1B	X	-3.045	4
71	MP1B	Z	-1.758	4
72	MP1B	Mx	.000458	4
73	MP1C		-2.265	2
74	MP1C	X Z	-1.308	2
75	MP1C	Mx	001	2
76	MP1C	X	-2.265	4
77	MP1C	Ž	-1.308	4
78	MP1C	Mx	001	4
79	MP3A	X	-1.673	.5
80	MP3A	Ž	966	.5
81	MP3A	Mx	000951	.5
82	MP3B	X	-1.673	.5
83	MP3B	Z	966	.5
84	MP3B	Mx	000951	.5
35	MP3C	X	-1.673	.5
86	MP3C	Ž	966	.5
87	MP3C	Mx	000951	.5
38	MP2A	X	-1.381	1.5
39	MP2A	Z	797	1.5
90	MP2A	Mx	000785	
91	MP2B	X	-1.381	1.5
92	MP2B	Ž	797	1.5
93	MP2B	Mx	000785	1.5 1.5
94	MP2C	X	-1.381	
95	MP2C	Ž	-1.381	1.5
96	MP2C	Mx	000785	1.5
97	OVP	X		1.5
98	OVP	Ž	-3.856	1
99	OVP	Mx	<b>-2.226</b> 0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	725	4
2	MP2A	Z	-1.256	4
3	MP2A	Mx	000362	4
4	MP2C	X	338	4
5	MP2C	Z	585	Á
6	MP2C	Mx	.000317	4
7	MP4A	X	-1.907	1
8	MP4A	Z	-3.304	
9	MP4A	Mx	.000954	1
10	MP4A	X	-1.907	5
11	MP4A	Z	-3.304	5



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

	Point Loads (BLC 38  Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP4A	Mx	.000954	5
3	MP4B	X	-1.743	1
4	MP4B	Z	-3.019	1
15	MP4B	Mx	.001	11
16	MP4B	X	-1.743	5
17	MP4B	Z	-3.019	5
18	MP4B	Mx	.001	5
19	MP4C	X	-1.182	1
20	MP4C	Z	-2.047	11
21	MP4C	Mx	001	11
22	MP4C	X	-1.182	5
23	MP4C	Z	-2.047	5
24	MP4C	Mx	001	5
25	MP2A	X	-2.028	11
26	MP2A	Z	-3.512	1
27	MP2A	Mx	00082	11
28	MP2A	X	-2.028	5
29	MP2A	Z	-3.512	5
30	MP2A	Mx	00082	5
31	MP2B	X	-1.939	1
32	MP2B	Z	-3.359	
33	MP2B	Mx	.004	11
34	MP2B	X	-1.939	5
35	MP2B	Z	-3.359	5
36	MP2B	Mx	.004	5
37	MP2A	X	-2.028	11
38	MP2A	Z	-3.512	1
39	MP2A	Mx	.004	11
40	MP2A	X	-2.028	5
41	MP2A	Z	-3.512	5
42	MP2A	Mx	.004	5
43	MP2B	X	-1.939	11
44	MP2B	Z	-3.359	
45	MP2B	Mx	000111	11
46	MP2B	X	-1.939	5
47	MP2B	Z	-3.359	5
48	MP2B	Mx	000111	5
49	MP2C	X	-1.683	11
50	MP2C	Z	-2.916	
51	MP2C	Mx	003	11
52	MP2C	X	-1.683	5
53	MP2C	Z	-2.916	5
54	MP2C	Mx	003	5
55	MP2C	X	-1.683	11
56	MP2C	Z	-2.916	1
57	MP2C	Mx	002	1
58	MP2C	X	-1.683	5
58 59	MP2C	Ž	-2.916	5
60	MP2C	Mx	002	5
61	MP1A	X	<b>-1.5</b>	2
	MP1A	Ž	-2.597	2
62	MP1A	Mx	.001	2
63	MP1A MP1A	X	-1.5	4
64	MP1A	Z	-2.597	4
65	MP1A	Mx	.001	4
66		X	-1,308	2
67 68	MP1B MP1B	Z	-2.265	2

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
69	MP1B	Mx	.001	2
70	MP1B	X	-1.308	4
71	MP1B	Z	-2.265	4
72	MP1B	Mx	.001	4
73	MP1C	X	755	2
74	MP1C	Z	-1.308	2
75	MP1C	Mx	001	2
76	MP1C	X	755	4
77	MP1C	7	-1.308	4
78	MP1C	Mx	001	4
79	MP3A	X	-1.144	.5
80	MP3A	Z	-1.982	.5
81	MP3A	Mx	000876	5
82	MP3B	X	-1.144	.5
83	MP3B	Z	-1.982	.5
84	MP3B	Mx	000876	.5
85	MP3C	X	-1.144	.5
86	MP3C	Z	-1.982	.5
87	MP3C	Mx	000876	.5
88	MP2A	X	-1.042	1.5
89	MP2A	Z	-1.806	1.5
90	MP2A	Mx	000798	1.5
91	MP2B	X	-1.042	1.5
92	MP2B	Z	-1.806	1.5
93	MP2B	Mx	000798	1.5
94	MP2C	X	-1.042	1.5
95	MP2C	Z	-1.806	1.5
96	MP2C	Mx	000798	1.5
97	OVP	X	-2.493	1.0
98	OVP	Ž	-4.317	1
99	OVP	Mx	0	1

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

Member Label	Direction	Magnitude[lb.k-ft]	Location[ft %]
M20	Υ	-500	%49

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

 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
M20	Y	-500	%76

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

Member Labe	I Direction	Magnitude[]b.k-ft]	Location[ft %]
1 M20	Y	-250	%50

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

 Member Label	Direction	Magnitude[lb,k-ft]	Location[ft.%]
M20	Υ	-250	%100
			70100

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	728	4
2	MP2A	My	.000364	À
3	MP2A	Mz	0	1
4	MP2C	Y	728	4

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

	Member Label	1 : Antenna Ev) (Con	Magnitude[lb,k-ft]	Location[ft,%]
5	MP2C	My	-6.3e-5	4
6	MP2C	Mz	000359	4
7	MP4A	Y	205	11
8	MP4A	My	000102	
9	MP4A	Mz	0	1
10	MP4A	Y	205	5
11	MP4A	My	000102	5
12	MP4A	Mz	0	5
13	MP4B	Y	205	1
14	MP4B	My	3.5e-5	
15	MP4B	Mz	-9.6e-5	1 1
16	MP4B	Y	205	5
17	MP4B	My	3.5e-5	5
18	MP4B	Mz	-9.6e-5	5
19	MP4C	Y	205	1
20	MP4C	My	3.5e-5	
21	MP4C	Mz	9.6e-5	11
22	MP4C	Y	205	5
23	MP4C	My	3.5e-5	5
24	MP4C	Mz	9.6e-5	5
25	MP2A	Y	952	
26	MP2A	My	000714	
27	MP2A	Mz	.000635	1
28	MP2A	Υ	952	5
29	MP2A	My	000714	5
30	MP2A	Mz	.000635	1
31	MP2B	Y	952	1
32	MP2B	My	000352	1
33	MP2B	Mz	000888	5
34	MP2B	Y	952	5
35	MP2B	My	000352	5
36	MP2B	Mz	000888	1
37	MP2A	Y	952	1
38	MP2A	My	000714	
39	MP2A	Mz	000635	5
40	MP2A	Y	-,952	5
41	MP2A	My	000714	5
42	MP2A	Mz	000635	1
43	MP2B	Y	952	1
44	MP2B	My	.00084	1
45	MP2B	Mz	000454	5
46	MP2B	Y	952	5
47	MP2B	My	.00084	5
48	MP2B	Mz	000454	1 1
49	MP2C	Y	952	1
50	MP2C	My	.000749	1
51	MP2C	Mz	.000593	5
52	MP2C	Υ	952	5
53	MP2C	My	.000749	5
54	MP2C	Mz	.000593	1
55	MP2C	Y	952	1
56	MP2C	My	000501	1
57	MP2C	Mz	.000813	5
58	MP2C	Y	952	5
59	MP2C	My	000501	5
60	MP2C	Mz	.000813	2
61	MP1A	Y	-1.802	

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
62	MP1A	My	001	2
63	MP1A	Mz	0	2
64	MP1A	Y	-1.802	4
65	MP1A	My	001	4
66	MP1A	Mz	0	4
67	MP1B	Y	-1.802	2
68	MP1B	Mv	.000462	2
69	MP1B	Mz	001	2
70	MP1B	Y	-1.802	4
71	MP1B	Mv	.000462	4
72	MP1B	Mz	001	4
73	MP1C	Y	-1.802	2
74	MP1C	My	.000235	2
75	MP1C	Mz	.001	2
76	MP1C	Y	-1.802	4
77	MP1C	Mv	.000235	4
78	MP1C	Mz	.000233	4
79	MP3A	Y	-3.493	.5
80	MP3A	Mv	.002	.5
81	MP3A	Mz	.000597	.5
82	MP3B	Y	-3.493	.5
83	MP3B	My	.002	.5
84	MP3B	Mz	.000597	.5
85	MP3C	Y	-3.493	.5
86	MP3C	Mv	.002	.5
87	MP3C	Mz	.000597	.5 .5
88	MP2A	Y	-2.909	1.5
89	MP2A	My	.001	1.5
90	MP2A	Mz	.000498	1.5
91	MP2B	Y	-2.909	1.5
92	MP2B	My	.001	1.5
93	MP2B	Mz	.000498	
94	MP2C	Y	-2.909	1.5
95	MP2C	Mv	-2.909 .001	1.5
96	MP2C	Mz	.000498	1.5
97	OVP	Y	-1.324	1.5
98	OVP	Mv	-1.324	
99	OVP	Mz	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Z	-1.821	Δ
2	MP2A	Mx	0	4
3	MP2C	Z	-1.821	4
4	MP2C	Mx	.000897	4
5	MP4A	Z	512	1
6	MP4A	Mx	0	1
7	MP4A	Z	512	5
8	MP4A	Mx	0	5
9	MP4B	Z	512	1
10	MP4B	Mx	.000241	
11	MP4B	Z	512	5
12	MP4B	Mx	.000241	5
13	MP4C	Z	512	1
14	MP4C	Mx	000241	
15	MP4C	Z	512	5



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

	Point Loads (BLC 82  Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP4C	Mx	000241	5
7	MP2A	Z	-2.38	11
8	MP2A	Mx	002	11
19	MP2A	Z	-2.38	5
20	MP2A	Mx	002	5
21	MP2B	Z	-2.38	1
22	MP2B	Mx	.002	11
23	MP2B	Z	-2.38	5
24	MP2B	Mx	.002	5
25	MP2A	Z	-2.38	11
26	MP2A	Mx	.002	1
27	MP2A	Z	-2.38	5
28	MP2A	Mx	.002	5
29	MP2B	Z	-2.38	1
30	MP2B	Mx	.001	11
31	MP2B	Z	-2.38	5
32	MP2B	Mx	.001	5
33	MP2C	Z	-2.38	1
34	MP2C	Mx	001	1
35	MP2C	Z	-2.38	5
36	MP2C	Mx	001	5
37	MP2C	Z	-2.38	1
	MP2C	Mx	002	11
38	MP2C	Z	-2.38	5
39	MP2C	Mx	002	5
40	MP1A	Z	-4.506	2
41	MP1A	Mx	0	2
42	MP1A	Z	-4.506	4
43	MP1A	Mx	0	4
44	MP1B	Z	-4.506	2
45	MP1B	Mx	.003	2
46	MP1B	Z	-4.506	4
47	MP1B MP1B	Mx	.003	4
48	MP1C	Z	-4.506	2
49	MP1C	Mx	003	2
50	MP1C	Z	-4.506	4
51	MP1C	Mx	003	4
52	MP3A	Z	-8.733	1.5
53	MP3A	Mx	001	.5
54		Z	-8.733	.5
55	MP3B	Mx	001	.5
56	MP3B	7	-8.733	.5
57	MP3C	Mx	001	.5
58	MP3C	Z	-7.274	1.5
59	MP2A	Mx	001	1.5
60	MP2A	Z	-7.274	1.5
61	MP2B	Mx	001	1.5
62	MP2B	Z	-7.274	1.5
63	MP2C	Mx	001	1.5
64	MP2C	Z	-3.311	1
65 66	OVP OVP	Mx	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]	
4 T	MP2A	X	1.821	4	
1		Mx	.000911	4	
2	MP2A	IVIX	.000011		

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

3 4	MP2C			Location[ft,%]
	1911. 20	X	Magnitude[lb,k-ft] 1.821	4
	MP2C	Mx	000158	4
5	MP4A	X	.512	1
6	MP4A	Mx	000256	1
7	MP4A	X	.512	5
8	MP4A	Mx	000256	5
9	MP4B	X	.512	1
10	MP4B	Mx	8.8e-5	1
11	MP4B	X	.512	5
12	MP4B	Mx	8.8e-5	5
13	MP4C	X	.512	1
14	MP4C	Mx	8.8e-5	1
15	MP4C	X	.512	5
16	MP4C	Mx	8.8e-5	5
17	MP2A	X	2.38	1
18	MP2A	Mx	002	1
9	MP2A	X	2.38	5
20	MP2A	Mx	002	5
21	MP2B	X	2.38	1
22	MP2B	Mx	00088	
23	MP2B	X	2.38	5
24	MP2B	Mx	00088	5
25	MP2A	X	2.38	1
26	MP2A	Mx	002	1
27	MP2A	X	2.38	5
28	MP2A	Mx	002	5
29	MP2B	X	2.38	1
30	MP2B	Mx	.002	
31	MP2B	X	2.38	5
32	MP2B	Mx	.002	5
33	MP2C	X	2.38	1
34	MP2C	Mx	.002	
35	MP2C	X	2,38	5
36	MP2C	Mx	.002	5
37	MP2C	X	2.38	1
38	MP2C	Mx	001	1
39	MP2C	X	2.38	
10	MP2C	Mx	001	5
11	MP1A	X	4.506	5
2	MP1A	Mx	003	2 2
3	MP1A	X	4.506	
4	MP1A	Mx	003	4
5	MP1B	X	4.506	
6	MP1B	Mx	.001	2
7	MP1B	X	4.506	2
8	MP1B	Mx	.001	4
9	MP1C	X	4.506	4
o l	MP1C	Mx	.000587	2
1	MP1C	X	4.506	2
2	MP1C	Mx		4
3	MP3A	X	.000587	4
4	MP3A	Mx	8.733	.5
5	MP3B	X	.004	.5
6	MP3B		8.733	.5
7	MP3C	Mx X	.004	.5
8	MP3C		8.733	.5
9	MP2A	Mx X	.004 7.274	.5 1.5



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

TOTTING	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
60	MP2A	Mx	.003	1.5
60	MP2B	X	7.274	1.5
61	MP2B	Mx	.003	1.5
62	MP2C	X	7.274	1.5
63	MP2C	Mx	.003	1.5
64 65	OVP	X	3.311	11
66	OVP	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	M20	Y	-6.194	-6.194	0	%100
2	M72A	Y	-9.098	-9.098	0	%100
3	M73	Y	-9.098	-9.098	0	%100
4	M74	Y	-9.098	-9.098	0	%100
5	M75	Y	-9.588	-9.588	0	%100
6	M78	Y	-5.29	-5.29	0	%100
7	M79	Y	-5.29	-5.29	0	%100
8	M84	Y	-9.575	-9.575	0	%100
9	M85	Y	<b>-</b> 9.575	-9.575	0	%100
10	M87A	Y	-9.588	-9.588	0	%100
11	M89A	Ý	-9.575	-9.575	0	%100
12	M90A	Ý	-9.575	-9.575	0	%100
13	M92	Y	-9.588	-9.588	0	%100
14	M25	Ý	-9.098	-9.098	0	%100
15	M26	Ý	-9.098	-9.098	0	%100
	M27	Ý	-9.098	-9.098	0	%100
16	M28	Y	-9.588	-9.588	0	%100
17	M31	Ý	-5.29	-5.29	0	%100
18 19	M32	Y	-5.29	-5.29	0	%100
	M37	Y	-9.575	-9.575	0	%100
20	M38	Y	-9.575	-9.575	0	%100
21	M40	Y	-9.588	-9.588	0	%100
22	M42	Y	-9.575	-9.575	0	%100
23		Y	-9.575	-9.575	0	%100
24	M43	Y	-9.588	-9.588	0	%100
25	M45	Y	-9.098	-9.098	0	%100
26	M47	Y	-9.098	-9.098	0	%100
27	M48	Y	-9.098	-9.098	0	%100
28	M49	Y	-9.588	-9.588	0	%100
29	M50	Y	-5.29	-5.29	0	%100
30	M53		-5.29	-5.29	0	%100
31	M54	Y	-9.575	-9.575	0	%100
32	M59		-9.575	-9.575	0	%100
33	M60	Y	-9.588	-9.588	0	%100
34	M62			-9.575	0	%100
35	M64	Y	-9.575	-9.575	Ö	%100
36	M65	Y	-9.575	-9.588	0	%100
37	M67	Y	-9.588	-6.194	0	%100
38	M68	Y	-6.194	-6.194	0	%100
39	M69	Y	-6.194	-4.68	0	%100
40	MP4A	Y	-4.68	-4.68	0	%100 %100
41	MP3A	Y	-4.68		0	%100
42	MP2A	Y	-5,353	-5.353	0	%100 %100
43	MP1A	Y	-4.68	-4.68	0	%100
44	MP4C	Y	-4.68	-4.68	0	%100 %100
45	MP3C	Y	-4.68	-4.68	U	70100



### 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,%]
46	MP2C	Y	-5.353	-5.353	0	%100
47	MP1C	Y	-4.68	-4.68	0	%100
48	MP4B	Υ	-4.68	-4.68	Ô	%100
49	MP3B	Y	-4.68	-4.68	0	%100
50	MP2B	Y	-5.353	-5.353	0	%100
51	MP1B	Y	-4.68	-4.68	0	%100 %100
52	OVP	Y	-4.68	-4.68	Ô	%100
53	M118	Y	-7.194	-7.194	0	%100 %100
54	M119	Y	-7.194	-7.194	Ŏ	%100 %100
55	M120	Y	-7.194	-7.194	0	%100
56	M119A	Y	-5.353	-5.353	n	0
57	M120A	Y	-5.353	-5.353	0	0
58	M121	Y	-5.353	-5.353	0	0

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

1	Member Label	Direction		End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft,%]
2	M20	X	0	0	0	%100
	M20	Z	-10.248	-10.248	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	-8.826	-8.826	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	-8.826	-8.826	0	%100
9	M75	X	0	.0	0	%100
10	M75	Z	-17.569	-17.569	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	-2.391	-2.391	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	-2.391	-2.391	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	-4.473	-4.473	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	-4.636	-4.636	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	Ö	%100
24	M90A	Z	-4.473	-4.473	0	%100
25	M92	X	0	0	Ŏ	%100
26	M92	Z	-4.636	-4.636	Ŏ	%100 %100
27	M25	X	0	0	Ö	%100 %100
28	M25	Z	-7.656	-7.656	Ö	%100
29	M26	X	0	0	ŏ	%100 %100
30	M26	Z	-2.206	-2.206	Ŏ	%100
31	M27	X	0	0	0	%100
32	M27	Z	-2.206	-2.206	ő	%100 %100
33	M28	X	0	-2.200	0	%100 %100
34	M28	Z	-4.392	-4.392	0	%100 %100
35	M31	X	0	0	0	%100 %100
36	M31	Z	-2.391	-2.391	0	%100 %100
37	M32	X	0	-2.391	0	%100 %100
38	M32	Ž	-9.565	-9.565	0	
39	M37	X	-9.565	-9.565		%100 %100
40	M37	7	-13.258	-13.258	0	%100 %100

# Company Designer Job Number Model Name

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

	Member Label	Direction	Start Magnitude[lb/ft	o (0 Deg)) (Cont End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft,% %100
41	M38	Z	-17.894	-17.894	0	%100
42	M38		0	0	0	%100
43	M40	X		-18.545	Ö	%100
44	M40	Z	-18.545	0	0	%100
45	M42	X	0	-13.258	0	%100
46	M42	Z	-13.258		0	%100
47	M43	X	0	0	0	%100
48	M43	Z	-4.473	-4.473		%100 %100
49	M45	X	0	0	0	%100
50	M45	Z	-4.636	-4.636	0	
51	M47	X	0	00	0	%100
52	M47	Z	-7.656	-7.656	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	-2.206	-2.206	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	-2.206	-2.206	0	%100
		X	0	0	0	%100
57	M50	Z	-4.392	-4.392	0	%100
58	M50	X	0	0	0	%100
59	M53	Z	-9.564	-9.564	0	%100
60	M53	<del></del>	0	0	0	%100
61	M54	X	-2.391	-2.391	Ö	%100
62	M54	Z		0	0	%100
63	M59	X	0	-13.258	0	%100
64	M59	Z	-13.258		0	%100 %100
65	M60	X	0	0		%100 %100
66	M60	Z	-4.473	-4.473	0	%100 %100
67	M62	X	0	0	0	
68	M62	Z	-4.636	-4.636	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	-13.258	-13.258	0	%100
71	M65	X	0	0	5 0	%100
72	M65	Z	-17.894	-17.894	0	%100
	M67	X	0	0	0	%100
73		Z	-18.545	-18.545	0	%100
74	M67	X	0	0	0	%100
75	M68	Z	-2.562	-2.562	0	%100
76	M68		-2.502	0	0	%100
77	M69	X		-2.562	Ö	%100
78	M69	Z	-2.562	0	0	%100
79	MP4A	X	0	-6.954	0	%100
80	MP4A	Z	-6.954		0	%100
81	MP3A	X	0	0		%100 %100
82	MP3A	Z	-6.954	-6.954	0	%100 %100
83	MP2A	X	0	0	0	
84	MP2A	Z	-8.418	-8.418	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	-6.954	-6.954	0	%100
87	MP4C	X	0	0	0	%100
	MP4C	Z	-6.954	-6.954	0	%100
88		X	0.001	0	0	%100
89	MP3C	Z	-6.954	-6.954	0	%100
90	MP3C		0	0.001	0	%100
91	MP2C	X	-8.418	-8.418	Ů Ů	%100
92	MP2C	Z			0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	-6.954	-6.954	0	%100
95	MP4B	X	0	0		%100
96	MP4B	Z	-6.954	-6.954	0	%100 %100
97	MP3B	X	0	0	0	/6100

# 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,%]
98	MP3B	Z	-6.954	-6.954	0	%100
99	MP2B	X	0	0	0	%100
100	MP2B	Z	-8.418	-8.418	0	%100
101	MP1B	X	0	1	0	%100
102	MP1B	Z	-6.954	-6.954	0	%100 %100
103	OVP	X	0	0.007	0	%100 %100
104	OVP	Z	-6.337	-6.337	0	%100 %100
105	M118	X	0	0	0	%100 %100
106	M118	Z	-2.372	-2.372	0	%100 %100
107	M119	X	0	0	0	%100 %100
108	M119	Z	-9.481	-9.481	0	%100 %100
109	M120	X	0	0.101	0	%100 %100
110	M120	Z	-2.37	-2.37	0	%100 %100
111	M119A	X	0	0	0	0
112	M119A	Z	-8.418	-8.418	Ö	0
113	M120A	X	0	0.770	0	0
114	M120A	Z	-2.105	-2.105	0	0
115	M121	X	0	2.100	0	0
116	M121	Z	-2.105	-2.105	0	0

# 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	M20	X	3.843	3.843	0	%100
2	M20	Z	-6.656	-6.656	0	%100
3	M72A	X	1.276	1.276	0	%100
4	M72A	Z	-2.21	-2.21	0	%100
5	M73	X	3.31	3.31	0	%100
6	M73	Z	-5.733	-5.733	0	%100
7	M74	X	3.31	3.31	0	%100
8	M74	Z	-5.733	-5.733	0	%100
9	M75	X	6.588	6.588	0	%100
10	M75	Z	-11.411	-11.411	Ö	%100
11	M78	X	3.586	3.586	0	%100
12	M78	Z	-6.212	-6.212	0	%100 %100
13	M79	X	0	0.212	0	%100 %100
14	M79	Z	0	0	0	%100 %100
15	M84	X	2.21	2.21	0	%100 %100
16	M84	Z	-3.827	-3.827	0	%100 %100
17	M85	X	0	0.027	0	%100 %100
18	M85	Z	0	0	0	%100 %100
19	M87A	X	0	0	0	%100 %100
20	M87A	Z	0	0	0	%100 %100
21	M89A	X	2.21	2.21	0	%100 %100
22	M89A	Z	-3.827	-3.827	0	%100 %100
23	M90A	X	6.71	6.71	0	%100 %100
24	M90A	Z	-11.622	-11.622	0	%100
25	M92	X	6.954	6.954	0	%100 %100
26	M92	Z	-12.045	-12.045	Ö	%100 %100
27	M25	X	1.276	1.276	0	
28	M25	Z	-2.21	-2.21	0	%100 %100
29	M26	X	3.31	3.31	0	<u>%100</u>
30	M26	Z	-5.733	-5.733	0	%100
31	M27	X	3.31	3.31		%100
32	M27	Z	-5.733	-5.733	0	%100
33	M28	X	6.588	6.588	0	%100
34	M28	Z	-11.411		0	%100
-	IVILO		-11.411	-11.411	0	%100



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

	er Distributed Lo Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft.% %100
35	M31	X	0	0	0	%100 %100
36	M31	Z	0	0	0	%100 %100
37	M32	X	3.587	3.587	0	%100 %100
38	M32	Z	-6.213	-6.213	0	%100 %100
39	M37	X	2.21	2.21	0	%100 %100
40	M37	Z	-3.827	-3.827	0	%100 %100
41	M38	X	6.71	6.71	0	%100 %100
42	M38	Z	-11.622	-11,622	0	%100 %100
43	M40	X	6.954	6.954	0	%100 %100
44	M40	Z	-12.045	-12.045	0	%100 %100
45	M42	X	2.21	2.21	0	%100 %100
46	M42	Z	-3.827	-3.827	0	%100 %100
47	M43	X	0	0	0	
48	M43	Z	0	0	0	%100 %100
49	M45	X	0	0	0	%100 %100
50	M45	Z	0	0	0	%100
51	M47	X	5.104	5.104	0	%100 %100
52	M47	Z	-8.84	-8.84	0	%100 %100
53	M48	X	00	0	0	%100 %100
54	M48	Z	0	0	0	%100 %100
55	M49	X	0	0	0	%100 %100
56	M49	Z	0	0	0	
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	3.586	3.586	0	%100
60	M53	Z	-6.212	-6.212	0	%100
61	M54	X	3.587	3.587	0	%100
62	M54	Z	-6.213	-6.213	0	%100
63	M59	X	8.839	8.839	0	%100
64	M59	Z	-15.309	-15.309	0	%100
65	M60	X	6.71	6.71	0	%100
66	M60	Z	-11.622	-11.622	0	%100
67	M62	X	6.954	6.954	0	%100
68	M62	Z	-12.045	-12.045	0	%100
69	M64	X	8.839	8.839	0	%100
70	M64	Z	-15.309	-15.309	0	%100
71	M65	X	6.71	6.71	0	%100
72	M65	Z	-11.622	-11.622	0	%100
73	M67	X	6.954	6.954	0	%100
74	M67	Z	-12.045	-12.045	0	%100
75	M68	X	3.843	3.843	0	%100
76	M68	Z	-6.656	-6.656	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	3.477	3.477	0	%100
80	MP4A	Z	-6.023	-6.023	0	%100
81	MP3A	X	3.477	3.477	0	%100
82	MP3A	Z	-6.023	-6.023	0	%100
83	MP2A	X	4.209	4.209	0	%100
84	MP2A	Ž	-7.29	-7.29	0	%100
85	MP1A	X	3.477	3.477	0	%100
	MP1A	Z	-6.023	-6.023	0	%100
86	MP4C	X	3.477	3.477	0	%100
87	MP4C MP4C	Z	-6.023	-6.023	0	%100
88		X	3.477	3.477	0	%100
89	MP3C	Ż	-6.023	-6.023	0	%100
90	MP3C MP2C	X	4.209	4.209	0	%100



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

	Member Label	Direction	Start MagnitudeIlb/ft	End Magnitude[lb/ft,F	Start Location[ft %]	End Location[ft,%]
92	MP2C	Z	-7.29	-7.29	0	%100
93	MP1C	X	3.477	3.477	0	%100
94	MP1C	Z	-6.023	-6.023	0	%100
95	MP4B	X	3.477	3.477	0	%100
96	MP4B	Z	-6.023	-6.023	0	%100
97	MP3B	X	3,477	3.477	0	%100 %100
98	MP3B	Z	-6.023	-6.023	0	%100
99	MP2B	X	4.209	4.209	0	%100 %100
100	MP2B	Z	-7.29	-7.29	Õ	%100 %100
101	MP1B	X	3.477	3.477	0	%100 %100
102	MP1B	Z	-6.023	-6.023	0	%100 %100
103	OVP	X	3.169	3.169	0	%100 %100
104	OVP	7	-5.488	-5.488	0	%100 %100
105	M118	X	3.556	3.556	0	%100 %100
106	M118	7	-6.16	-6.16	0	%100
107	M119	X	3.554	3.554	0	%100 %100
108	M119	Z	-6.156	-6.156	0	%100 %100
109	M120	X	0.100	0.130	0	%100 %100
110	M120	Z	0	0	0	%100 %100
111	M119A	X	3.157	3.157	0	
112	M119A	Z	-5.468	-5.468	0	0
113	M120A	X	3.157	3.157	0	0
114	M120A	Z	-5.468	-5.468	0	0
115	M121	X	-0.400	-5.406	0	
116	M121	Z	o o	0	0	0

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

	Member Label	Direction	Start MagnitudeIlb/ft	End Magnitude[lb/ft,F	Start Location[ft %]	End Location[ft,%]
1	M20	X	2.219	2.219	0	%100
2	M20	Z	-1.281	-1.281	0	%100
3	M72A	X	6.63	6.63	0	%100
4	M72A	Z	-3.828	-3.828	0	%100
5	M73	X	1,911	1.911	0	%100 %100
6	M73	Z	-1.103	-1.103	0	%100
7	M74	X	1.911	1.911	0	%100 %100
8	M74	Z	-1.103	-1.103	0	%100 %100
9	M75	X	3.804	3.804	0	%100 %100
10	M75	Z	-2.196	-2.196	Ö	%100 %100
11	M <b>7</b> 8	X	8.283	8.283	0	%100 %100
12	M78	Z	-4.782	-4.782	0	%100 %100
13	M79	X	2.071	2.071	0	%100 %100
14	M79	7	-1.196	-1.196	0	%100 %100
15	M84	X	11.482	11.482	0	%100 %100
16	M84	Z	-6.629	-6.629	0	%100 %100
17	M85	X	3.874	3.874	0	%100 %100
18	M85	Z	-2.237	-2.237	0	%100 %100
19	M87A	X	4.015	4.015	0	%100 %100
20	M87A	Z	-2.318	-2.318	0	%100 %100
21	M89A	X	11.482	11.482	0	%100 %100
22	M89A	Z	-6.629	-6.629	0	%100
23	M90A	X	15.497	15.497	0	%100 %100
24	M90A	Z	-8.947	-8.947	0	
25	M92	X	16.06	16.06	0	%100 %100
26	M92	7	-9.272	-9.272	0	
27	M25	X	0	-9.272		%100
28	M25	7	0	0	0	%100 %100
		4			U	%100



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

29	Member Label			End Magnitude[lb/ft,F		
	M26	X	7.643	7.643	0	%100
.30	M26	Z	-4.413	-4.413	0	%100
31	M27	X	7.643	7.643	00	%100
32	M27	Z	-4.413	-4.413	0	%100
33	M28	X	15.215	15.215	0	%100
	M28	Z	-8.784	-8.784	0	%100
34		X	2.071	2.071	0	%100
35	M31	Z	-1.195	-1.195	0	%100
36	M31	X	2.071	2.071	0	%100
37	M32	Z	-1.196	-1.196	0	%100
38	M32		0	0	0	%100
39	M37	X		0	Ö	%100
40	M37	Z	0	3.874	0	%100
41	M38	X	3.874	-2.237	0	%100
42	M38	Z	-2.237		0	%100
43	M40	X	4.015	4.015		%100
44	M40	Z	-2.318	-2.318	0	%100
45	M42	X	0	0	0	
46	M42	Z	0	0	0	%100
47	M43	X	3.874	3.874	0	%100
48	M43	Z	-2.237	-2.237	0	%100
49	M45	X	4.015	4.015	0	%100
50	M45	Z	-2.318	-2.318	0	%100
51	M47	X	6.63	6.63	0	%100
		Z	-3.828	-3.828	0	%100
52	M47	X	1.911	1.911	0	%100
53	M48		-1.103	-1.103	0	%100
54	M48	Z	1.911	1.911	0	%100
55	M49	X	-1.103	-1.103	Ö	%100
56	M49	Z		3.804	0	%100
57	M50	X	3.804		0	%100
58	M50	Z	-2.196	-2.196	0	%100
59	M53	X	2.071	2.071	0	%100
60	M53	Z	-1.195	-1.195		%100 %100
61	M54	X	8.284	8.284	0	
62	M54	Z	-4.783	-4.783	0	%100
63	M59	X	11.482	11.482	0	%100
64	M59	Z	-6.629	-6.629	0	%100
65	M60	X	15.497	15.497	0	%100
66	M60	Z	-8.947	-8.947	0	%100
67	M62	X	16.06	16.06	0	%100
	M62	Z	-9.272	-9.272	0	%100
68		X	11.482	11.482	0	%100
69	M64	Z	-6.629	-6.629	0	%100
70	M64		3.874	3.874	Ō	%100
71	M65	X	-2.237	-2.237	Ö	%100
72	M65	Z		4.015	Ö	%100
73	M67	X	4.015	-2.318	0	%100
74	M67	Z	-2.318		0	%100 %100
75	M68	X	8.875	8.875		%100 %100
76	M68	Z	-5.124	-5.124	0	
77	M69	X	2.219	2.219	0	%100
78	M69	Z	-1.281	-1.281	0	%100
79	MP4A	X	6.023	6.023	0	%100
80	MP4A	Z	-3.477	-3.477	0	%100
81	MP3A	X	6.023	6.023	0	%100
	MP3A	Z	-3.477	-3.477	0	%100
82		X	7.29	7.29	0	%100
83	MP2A	Ž	-4.209	-4.209	0	%100
84 85	MP2A MP1A	X	6.023	6.023	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft.	End Magnitude[lb/ft,F	. Start Location[ft.%]	End Location(ft,%)
86	MP1A	Z	-3.477	-3.477	0	%100
87	MP4C	X	6.023	6.023	0	%100
88	MP4C	Z	-3.477	-3.477	0	%100
89	MP3C	X	6.023	6.023	0	%100
90	MP3C	Z	-3.477	-3.477	0	%100
91	MP2C	X	7.29	7.29	0	%100
92	MP2C	Z	-4.209	-4.209	0	%100
93	MP1C	X	6.023	6.023	0	%100
94	MP1C	Z	-3.477	-3.477	Ö	%100
95	MP4B	X	6.023	6.023	0	%100 %100
96	MP4B	Z	-3.477	-3.477	Ö	%100
97	MP3B	X	6.023	6.023	0	%100 %100
98	MP3B	Z	-3.477	-3.477	Ö	%100 %100
99	MP2B	X	7.29	7.29	0	%100 %100
100	MP2B	Z	-4.209	-4.209	0	%100
101	MP1B	X	6.023	6.023	Ö	%100 %100
102	MP1B	Z	-3.477	-3.477	Ŏ	%100 %100
103	OVP	X	5.488	5.488	Ô	%100 %100
104	OVP	Z	-3.169	-3.169	Ó	%100 %100
105	M118	X	8.211	8.211	ő	%100 %100
106	M118	Z	-4.741	-4.741	Ö	%100 %100
107	M119	X	2.051	2.051	Ö	%100 %100
108	M119	Z	-1.184	-1.184	ő	%100
109	M120	X	2.053	2.053	0	%100 %100
110	M120	Z	-1.185	-1.185	o l	%100 %100
111	M119A	X	1.823	1.823	o l	0
112	M119A	Z	-1.052	-1.052	Ö	0
113	M120A	X	7.29	7.29	0	0
114	M120A	Z	-4.209	-4.209	0	0
115	M121	X	1.823	1.823	0	0
116	M121	Z	-1.052	-1.052	0	0

## 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	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	10.208	10.208	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	7.173	7.173	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	7.174	7.174	0	%100
14	M79	Z	0	0	0	%100
15	M84	Х	17.677	17.677	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	13.42	13.42	0	%100 %100
18	M85	Z	0	0	Ö	%100 %100
19	M87A	X	13,908	13.908	0	%100 %100
20	M87A	Z	0	0	0	%100 %100
21	M89A	X	17.677	17.677	0	%100 %100
22	M89A	Z	0	0	0	%100 %100



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

	Member Label	Direction	Start Magnitude[lb/ft	o (90 Deg)) (Con End Magnitude[lb/ft,F	Start Location[ft.%]	End Location[ft,%
23	M90A	X	13.42	13.42	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	13.908	13.908	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	2.552	2.552	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	6.619	6.619	0	%100
		Ž	0	0	0	%100
30	M26 M27	X	6.619	6.619	0	%100
31		Z	0.010	0	0	%100
32	M27	X	13.176	13.176	0	%100
33	M28	Ž	0	0	0	%100
34	M28		7,173	7.173	0	%100
35	M31	X		0	Ö	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0		0	%100
39	M37	X	4.419	4.419		%100
40	M37	Z	0	0	0	%100 %100
41	M38	X	0	0	0	
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	4.419	4.419	0	%100
46	M42	Z	0	0	0	%100
	M43	X	13.42	13.42	0	%100
47	M43	Z	0	0	0	%100
48		X	13.908	13.908	0	%100
49	M45	Z	0	0	0	%100
50	M45	X	2.552	2.552	0	%100
51	M47		0	0	0	%100
52	M47	Z	6.619	6.619	0	%100
53	M48	X		0.013	0	%100
54	M48	Z	0 0 0 0 0	6.619	0	%100
55	M49	X	6.619	0.019	0	%100
56	M49	Z	0			%100 %100
57	M50	X	13.176	13.176	0	%100 %100
58	M50	Z	0	0	0	
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	7.174	7.174	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	4.419	4.419	0	%100
		Z	0	0	0	%100
64	M59 M60	X	13.42	13.42	0	%100
65	M60	Z	0	0	0	%100
66	M60	X	13.908	13.908	0	%100
67	M62	Z	0	0	0	%100
68	M62		4.419	4.419	0	%100
69	M64	X		0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0		0	%100
72	M65	Z	0	0		%100 %100
73	M67	X	0	0	0	
74	M67	Z	0	0	0	%100
75	M68	X	7.686	7.686	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	7.686	7.686	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	6.954	6.954	0	%100

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

	Member Label	Direction	Start Magnitudellb/ft	End Magnitude[lb/ft,F	. Start Location[ft %]	End Location[ft,%]
80	MP4A	Z	0	0	0	%100
81	MP3A	X	6.954	6.954	0	%100
82	MP3A	Z	0	0	Ö	%100
83	MP2A	X	8.418	8.418	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	6.954	6.954	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	6.954	6.954	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	6.954	6.954	0	%100 %100
90	MP3C	Z	0	0	0	%100 %100
91	MP2C	X	8.418	8.418	0	%100 %100
92	MP2C	Z	0	0.110	0	%100 %100
93	MP1C	X	6.954	6.954	0	%100
94	MP1C	Z	0	0	0	%100 %100
95	MP4B	X	6.954	6.954	0	%100 %100
96	MP4B	Z	0	0.004	0	%100 %100
97	MP3B	X	6.954	6.954	0	%100 %100
98	MP3B	Z	0	0.007	Ö	%100 %100
99	MP2B	X	8.418	8.418	0	%100 %100
100	MP2B	Z	0	0.410	0	%100 %100
101	MP1B	X	6.954	6.954	0	%100 %100
102	MP1B	Z	0	0.001	0	%100 %100
103	OVP	X	6.337	6.337	0	%100 %100
104	OVP	Z	0	0	0	%100 %100
105	M118	X	7.109	7.109	0	%100 %100
106	M118	Z	0	0	0	%100 %100
107	M119	X	1e-6	1e-6	0	%100 %100
108	M119	Z	0	0	0	%100 %100
109	M120	X	7.111	7.111	0	%100 %100
110	M120	Z	0	0	Ö	%100 %100
111	M119A	X	0	0	0	0
112	M119A	Z	0	0	0	0
113	M120A	X	6.314	6.314	0	0
114	M120A	Z	0.014	0.514	0	0
115	M121	X	6.314	6.314	0	0
116	M121	7	0.014	0.514	0	0

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	M20	X	2.219	2.219	0	%100
2	M20	Z	1.281	1.281	0	%100 %100
3	M72A	X	6.63	6.63	0	%100
4	M72A	Z	3.828	3.828	0	%100
5	M73	X	1.911	1.911	0	%100
6	M73	Z	1,103	1.103	0	%100
7	M74	X	1.911	1.911	0	%100
8	M74	Z	1.103	1.103	0	%100
9	M75	X	3.804	3.804	0	%100
10	M75	Z	2.196	2.196	0	%100 %100
11	M78	X	2.071	2.071	0	%100
12	M78	Z	1.195	1.195	0	%100
13	M79	X	8.284	8.284	0	%100
14	M79	Z	4,783	4.783	0	%100
15	M84	X	11.482	11.482	0	%100
16	M84	Z	6.629	6.629	0	%100



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

	Member Label	Direction		.End Magnitude[lb/ft,F.,		End Location[ft.% %100
17	M85	X	15.497	15.497	0	
18	M85	Z	8.947	8.947	0	%100 %100
19	M87A	X	16.06	16.06	0	%100 %100
20	M87A	Z	9.272	9.272	0	%100 %100
21	M89A	X	11.482	11.482	0	%100 %100
22	M89A	Z	6.629	6.629	0	%100 %100
23	M90A	X	3.874	3.874	0	
24	M90A	Z	2.237	2.237	0	%100 %100
25	M92	X	4.015	4.015	0	%100
26	M92	Z	2.318	2.318	0	%100 %100
27	M25	X	6.63	6.63	0	%100 %100
28	M25	Z	3.828	3.828	0	%100 %100
29	M26	X	1.911	1.911	0	
30	M26	Z	1,103	1.103	0	%100
31	M27	X	1.911	1.911	0	%100 %400
32	M27	Z	1.103	1.103	0	%100
33	M28	X	3.804	3.804	0	%100 %100
34	M28	Z	2.196	2.196	0	%100 %100
35	M31	X	8.283	8.283	0	%100 %100
36	M31	Z	4.782	4.782	0	
37	M32	X	2.071	2.071	0	%100
38	M32	Z	1,196	1.196	0	%100
39	M37	X	11.482	11.482	0	%100
40	M37	Z	6.629	6.629	0	%100
41	M38	X	3.874	3.874	0	%100
42	M38	Z	2.237	2.237	0	%100 %100
43	M40	X	4.015	4.015	0	
44	M40	Z	2.318	2.318	0	%100
45	M42	X	11.482	11.482	0	%100
46	M42	Z	6.629	6.629	0	%100
47	M43	X	15.497	15.497	0	%100
48	M43	Z	8.947	8.947	0	%100
49	M45	X	16.06	16.06	0	%100
50	M45	Z	9.272	9.272	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	7.643	7.643	0	%100
54	M48	Z	4.413	4.413	0	%100
55	M49	X	7.643	7.643	0	%100
56	M49	Z	4.413	4.413	0	%100
57	M50	X	15.215	15.215	0	%100 %100
58	M50	Z	8.784	8.784	0	%100 %100
59	M53	X	2.071	2.071	0	%100 %100
60	M53	Z	1.195	1.195	0	%100 %100
61	M54	X	2.071	2.071	0	%100
62	M54	Z	1.196	1.196	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	3.874	3.874	0	%100
66	M60	Z	2.237	2.237	0	%100
67	M62	X	4.015	4.015	0	%100
68	M62	Z	2.318	2.318	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	3.874	3.874	0	%100
72	M65	Z	2.237	2.237	0	%100
73	M67	X	4.015	4.015	0	%100

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

74	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
74	M67	Z	2.318	2.318	0	%100
75	M68	X	2,219	2.219	0	%100
76	M68	Z	1.281	1.281	0	%100
77	M69	X	8.875	8.875	0	%100
78	M69	Z	5.124	5.124	Q	%100
79	MP4A	X	6.023	6.023	0	%100
80	MP4A	Z	3.477	3.477	0	%100
81	MP3A	X	6.023	6.023	0	%100
82	MP3A	Z	3.477	3.477	0	%100
83	MP2A	X	7.29	7.29	0	%100
84	MP2A	Z	4.209	4.209	0	%100
85	MP1A	X	6.023	6.023	0	%100
86	MP1A	Z	3.477	3.477	0	%100
87	MP4C	X	6.023	6.023	0	%100
88	MP4C	Z	3.477	3.477	0	%100
89	MP3C	X	6.023	6.023	Ŏ	%100
90	MP3C	Z	3.477	3,477	0	%100
91	MP2C	X	7.29	7.29	0	%100
92	MP2C	Z	4.209	4.209	0	%100
93	MP1C	X	6.023	6.023	0	%100
94	MP1C	Z	3.477	3,477	0	%100
95	MP4B	X	6.023	6.023	Ö	%100
96	MP4B	Z	3.477	3,477	Ö	%100
97	MP3B	X	6.023	6.023	0	%100 %100
98	MP3B	Z	3.477	3.477	Ö	%100
99	MP2B	X	7.29	7.29	0	%100 %100
100	MP2B	Z	4.209	4.209	0	%100 %100
101	MP1B	X	6.023	6.023	0	%100 %100
102	MP1B	Z	3.477	3.477	Ö	%100 %100
103	OVP	X	5.488	5.488	0	%100
104	OVP	Z	3.169	3.169	Ö	%100 %100
105	M118	X	2.051	2.051	0	%100 %100
106	M118	Z	1.184	1.184	0	%100 %100
107	M119	X	2.054	2.054	0	%100 %100
108	M119	Z	1.186	1.186	0	%100 %100
109	M120	X	8.211	8.211	0	%100 %100
110	M120	Z	4.741	4.741	0	%100 %100
111	M119A	X	1.823	1.823	0	0
112	M119A	Z	1.052	1.052	0	0
113	M120A	X	1.823	1.823	0	0
114	M120A	Z	1.052	1.052	0	0
115	M121	X	7.29	7.29	0	0
116	M121	Z	4.209	4 209	0	0

## 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	M20	X	3.843	3.843	0	%100
2	M20	Z	6.656	6.656	0	%100
3	M72A	X	1.276	1.276	0	%100
4	M72A	Z	2.21	2.21	0	%100
5	M73	X	3.31	3.31	0	%100 %100
6	M73	Z	5.733	5.733	n n	%100 %100
7	M74	X	3.31	3.31	0	%100 %100
8	M74	Z	5.733	5.733	Ď.	%100
9	M75	X	6.588	6.588	0	%100
10	M75	Z	11.411	11.411	Ö	%100

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

	Member Label	Direction	Start Magnitude[lb/ft	.End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft.%] %100
11	M78	X	0	0	0	%100 %100
12	M78	Z	0	0	0	%100 %100
13	M79	X	3.587	3.587	0	%100 %100
14	M79	Z	6.213	6.213	0	
15	M84	X	2.21	2.21	0	%100
16	M84	Z	3.827	3.827	0	%100
17	M85	X	6.71	6.71	0	%100
18	M85	Z	11.622	11.622	0	%100
19	M87A	X	6.954	6.954	0	%100
20	M87A	Z	12.045	12.045	0	<u>%100</u>
	M89A	X	2.21	2.21	0	%100
21		Z	3.827	3.827	0	%100
22	M89A	X	0	0	0	%100
23	M90A	Ž	0	0	0	%100
24	M90A		0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z		5.104	Ő	%100
27	M25	X	5.104		0	%100
28	M25	Z	8.84	8.84	0	%100
29	M26	X	0	0		%100
30	M26	Z	0	0	0	%100 %100
31	M27	X	0	0	0	
32	M27	Z	0	0	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	3.586	3.586	0	%100
36	M31	Z	6.212	6.212	0	%100
	M32	X	3.587	3.587	0	%100
37	M32	Z	6.213	6.213	0	%100
38		X	8.839	8.839	0	%100
39	M37	Z	15.309	15.309	0	%100
40	M37		6.71	6.71	0	%100
41	M38	X	11.622	11.622	0	%100
42	M38	Z		6.954	0	%100
43	M40	X	6.954	12.045	Ö	%100
44	M40	Z	12.045		0	%100
45	M42	X	8.839	8.839	0	%100
46	M42	Z	15.309	15.309		%100
47	M43	X	6.71	6.71	0	
48	M43	Z	11.622	11.622	0	%100
49	M45	X	6.954	6.954	0	%100
50	M45	Z	12.045	12.045	0	%100
51	M47	X	1.276	1.276	0	%100
52	M47	Ž	2.21	2.21	0	%100
		X	3.31	3.31	0	%100
53	M48	Z	5.733	5.733	0	%100
54	M48	X	3.31	3.31	0	%100
55	M49		5.733	5.733	0	%100
56	M49	Z		6.588	0	%100
57	M50	X	6.588	11.411	Ö	%100
58	M50	Z	11.411		0	%100
59	M53	X	3.586	3.586	0	%100 %100
60	M53	Z	6.212	6.212		%100 %100
61	M54	X	0	0	0	
62	M54	Z	0	0	0	%100
63	M59	X	2.21	2.21	0	%100
64	M59	Z	3.827	3.827	0	%100
65	M60	X	0	0	0	%100
	M60	Z	Ö	0	0	%100
66 67	M62	X	0	0	0	%100



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

68 69	M62				Start Location[ft,%]	End Location[ft,%]
69 1		Z	0	0	0	%100
	M64	X	2.21	2.21	0	%100
70	M64	Z	3.827	3.827	0	%100
71	M65	X	6.71	6.71	0	%100
72	M65	Z	11.622	11.622	0	%100
73	M67	X	6.954	6.954	0	%100
74	M67	Z	12.045	12.045	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	3.843	3.843	0	%100
78	M69	Z	6.656	6.656	0	%100
79	MP4A	X	3.477	3.477	0	%100
80	MP4A	Z	6.023	6.023	0	%100
81	MP3A	X	3.477	3.477	Ô	%100
82	MP3A	Z	6.023	6.023	0	%100
83	MP2A	X	4.209	4.209	0	%100 %100
84	MP2A	Z	7.29	7.29	0	%100
85	MP1A	X	3.477	3.477	0	%100
86	MP1A	Z	6.023	6.023	Ö	%100
87	MP4C	X	3,477	3.477	Ö	%100 %100
88	MP4C	Z	6.023	6.023	Ö	%100
89	MP3C	X	3.477	3.477	Ö	%100 %100
90	MP3C	Z	6.023	6.023	0	%100 %100
91	MP2C	X	4.209	4.209	Ŏ	%100 %100
92	MP2C	Z	7.29	7.29	ŏ	%100 %100
93	MP1C	X	3.477	3.477	Ö	%100 %100
94	MP1C	Z	6.023	6.023	Ŏ	%100 %100
95	MP4B	X	3.477	3.477	Ö	%100 %100
96	MP4B	Z	6.023	6.023	ŏ	%100 %100
97	MP3B	X	3.477	3.477	ő	%100 %100
98	MP3B	Z	6.023	6.023	0	%100 %100
99	MP2B	X	4.209	4.209	0	%100 %100
100	MP2B	Z	7.29	7.29	0	%100
101	MP1B	X	3.477	3.477	0	%100 %100
102	MP1B	Z	6.023	6.023	0	%100 %100
103	OVP	X	3.169	3.169	Ö	%100 %100
104	OVP	Z	5.488	5.488	0	%100 %100
105	M118	X	0.100	0	0	%100 %100
106	M118	Z	1e-6	1e-6	0	%100 %100
107	M119	X	3.556	3.556	0	%100 %100
108	M119	Z	6.16	6.16	0	%100 %100
109	M120	X	3.555	3.555	0	%100 %100
110	M120	Z	6.158	6.158	0	%100 %100
111	M119A	X	3.157	3.157	0	
112	M119A	Z	5.468	5.468	0	0
113	M120A	X	0	0	0	0
114	M120A	Z	0	0		0
115	M121	X	3.157	3.157	0	0
116	M121	Z	5.468	5.468	0	0

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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft,%]
1	M20	X	0	0	0	%100
2	M20	Z	10.248	10.248	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,	.End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft,%]
5	M73	X	0	0	0	%100
6	M73	Z	8.826	8.826	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	8.826	8.826	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	17.569	17.569	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	2.391	2.391	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	2.391	2.391	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	4.473	4.473	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	4.636	4.636	0	%100
	M89A	X	0	0	0	%100
21	M89A	Z	0	0	0	%100
22	M90A	X	0	0	0	%100
23		Z	4.473	4.473	0	%100
24	M90A M92	X	0	0	0	%100
25		Z	4,636	4.636	0	%100
26	M92	X	0	0	0	%100
27	M25	Z	7.656	7.656	0	%100
28	M25	X	0	0	0	%100
29	M26		2.206	2.206	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	2.206	2.206	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	4,392	4.392	0	%100
34	M28	Z	4,392	0	0	%100
35	M31	X		2.391	Ö	%100
36	M31	Z	2.391	0	O O	%100
37	M32	X	0 505	9.565	0	%100
38	M32	Z	9.565	9.565	0	%100
39	M37	X	0	13.258	0	%100
40	M37	Z	13.258	0	0	%100
41	M38	X	0	17.894	0	%100
42	M38	Z	17.894		0	%100
43	M40	X	0	0 18.545	0	%100
44	M40	Z	18.545		0	%100
45	M42	X	0	0	0	%100
46	M42	Z	13.258	13.258	0	%100
47	M43	X	0	0	0	%100 %100
48	M43	Z	4.473	4.473	0	%100 %100
49	M45	X	0	0		%100
50	M45	Z	4.636	4.636	0	%100 %100
51	M47	X	0	0	0	%100 %100
52	M47	Z	7.656	7.656	0	
53	M48	X	0	0	0	%100 %100
54	M48	Z	2.206	2.206	0	
55	M49	X	0	0	0	%100
56	M49	Z	2.206	2.206	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	4.392	4.392	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	9.564	9.564	0	%100
61	M54	X	0	0	0	%100

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

00: 1	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F.	Start Location[ft,%]	End Location[ft,%]
62	M54	Z	2.391	2.391	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	13.258	13.258	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	4.473	4.473	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	4.636	4.636	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	13.258	13.258	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	17.894	17.894	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	18.545	18.545	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	2.562	2.562	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	2.562	2.562	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	6.954	6.954	Ŏ	%100
81	MP3A	X	0	0	Ö	%100
82	MP3A	Z	6.954	6.954	0	%100 %100
83	MP2A	X	0	0	Ö	%100 %100
84	MP2A	Z	8.418	8.418	Ö	%100
85	MP1A	X	0	0	Ö	%100 %100
86	MP1A	Z	6.954	6.954	Ö	%100 %100
87	MP4C	X	0	0.007	0	%100 %100
88	MP4C	Z	6.954	6.954	0	%100 %100
89	MP3C	X	0	0.504	o l	%100 %100
90	MP3C	Z	6.954	6.954	0	%100 %100
91	MP2C	X	0	0.504	0	%100
92	MP2C	Z	8.418	8.418	0	%100 %100
93	MP1C	X	0.710	0.410	0	%100 %100
94	MP1C	Z	6.954	6.954	0	%100 %100
95	MP4B	X	0	0.354	0	%100 %100
96	MP4B	Z	6.954	6.954	0	%100
97	MP3B	X	0.004	0.334	0	%100 %100
98	MP3B	Z	6.954	6.954	0	%100
99	MP2B	X	0.004	0.354	0	%100 %100
100	MP2B	Z	8.418	8.418	0	%100 %100
101	MP1B	X	0.410	0.418	0	%100 %100
102	MP1B	Z	6.954	6.954	0	
103	OVP	X	0.554	0.934	0	%100
104	OVP	7	6.337	6.337		%100 %400
105	M118	X	0.557	0.337	0	%100
106	M118	Z	2.372	2.372	0	%100
107	M119	X	0		0	%100
108	M119	Z	9.481	0	0	%100
109	M120	X	9.461	9.481	0	%100
110	M120	Z	2.37		0	%100
111	M119A	X		2.37	0	%100
112	M119A	Z	0	0	0	0
113	M120A	X	8.418	8.418	0	0
114	M120A	Z	0	0	0	0
115	M121		2,105	2.105	0	0
116	M121	Z	2.105	0 2.105	0	0

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

	er Distributed Lo  Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%] %100
1	M20	X	-3.843	-3.843	0	%100 %100
2	M20	Z	6.656	6.656	0	%100 %100
3	M72A	X	-1.276	-1.276	0	
4	M72A	Z	2.21	2.21	0	%100 %100
5	M73	X	-3.31	-3.31	0	%100
6	M73	Z	5.733	5.733	0	%100
7	M74	X	-3.31	-3.31	0	%100
8	M74	Z	5.733	5.733	0	%100
9	M75	X	-6.588	-6.588	0	%100
10	M75	Z	11.411	11.411	0	%100
11	M78	X	-3.586	-3.586	0	%100
12	M78	Z	6.212	6.212	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-2.21	-2.21	0	%100
16	M84	Z	3.827	3.827	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-2.21	-2.21	0	%100
22	M89A	Z	3.827	3.827	0	%100
23	M90A	X	-6.71	-6.71	0	%100
24	M90A	Z	11.622	11.622	0	%100
25	M92	X	-6.954	-6.954	0	%100
26	M92	Z	12.045	12.045	0	%100
27	M25	X	-1.276	-1.276	0	%100
28	M25	Z	2.21	2.21	0	%100
29	M26	X	-3.31	-3.31	00	%100
30	M26	Z	5.733	5.733	0	%100
31	M27	X	-3.31	-3.31	0	%100
32	M27	Z	5.733	5.733	0	%100
33	M28	X	-6.588	-6.588	0.	%100
34	M28	Z	11.411	11.411	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	-3.587	-3.587	00	%100
38	M32	Z	6.213	6.213	0	%100
39	M37	X	-2.21	-2.21	0	%100
40	M37	Z	3.827	3.827	0	%100
41	M38	X	-6.71	-6.71	0	%100
42	M38	Z	11.622	11.622	0	%100
43	M40	X	-6.954	-6.954	0	%100
44	M40	Z	12.045	12.045	0	%100
45	M42	X	-2.21	-2.21	0	%100
46	M42	Z	3.827	3.827	0	%100
47	M43	X	0	0	.0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Ž	0	0	0	%100
51	M47	X	-5.104	-5.104	0	%100
	M47	Z	8.84	8.84	0	%100
52	M48	X	0	0	0	%100
53	M48	Z	0	0	0	%100
54	M49	X	0	0	0	%100
55	M49	Z	0	0	.0	%100
56 57	M50	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft	.End Magnitude[lb/ft,F	Start Location[ft.%]	End Location[ft,%]
58	M50	Z	0	0	0	%100
59	M53	X	-3.586	-3.586	0	%100
60	M53	Z	6.212	6.212	0	%100
61	M54	X	-3.587	-3.587	0	%100
62	M54	Z	6.213	6.213	0	%100
63	M59	X	-8.839	-8.839	0	%100
64	M59	Z	15.309	15.309	0	%100
65	M60	X	-6.71	-6.71	0	%100
66	M60	Z	11.622	11.622	0	%100
67	M62	X	-6.954	-6.954	0	%100 %100
68	M62	Z	12.045	12.045	Ö	%100
69	M64	X	-8.839	-8.839	Ö	%100 %100
70	M64	Z	15.309	15.309	Ö	%100 %100
71	M65	X	-6.71	-6.71	Ŏ	%100 %100
72	M65	Z	11.622	11.622	Ö	%100 %100
73	M67	X	-6.954	-6.954	Ö	%100 %100
74	M67	Z	12.045	12.045	Ö	%100 %100
75	M68	X	-3.843	-3.843	0	%100 %100
76	M68	Z	6.656	6.656	Ö	%100 %100
77	M69	X	0	0.000	0	%100 %100
78	M69	Z	Ö	0	0	%100 %100
79	MP4A	X	-3.477	-3.477	0	%100 %100
80	MP4A	Z	6.023	6.023	0	%100 %100
81	MP3A	X	-3.477	-3.477	0	%100 %100
82	MP3A	Z	6.023	6.023	0	%100 %100
83	MP2A	X	-4.209	-4.209	0	%100 %100
84	MP2A	Z	7.29	7.29	0	%100 %100
85	MP1A	X	-3.477	-3.477	0	%100 %100
86	MP1A	Z	6.023	6.023	0	%100 %100
87	MP4C	X	-3.477	-3.477	0	%100 %100
88	MP4C	Z	6.023	6.023	0	%100 %100
89	MP3C	X	-3.477	-3.477	0	%100 %100
90	MP3C	Z	6.023	6.023	0	%100 %100
91	MP2C	X	-4.209	-4.209	0	%100 %100
92	MP2C	Z	7.29	7.29	0	%100 %100
93	MP1C	X	-3.477	-3.477	0	%100 %100
94	MP1C	Z	6.023	6.023	0	
95	MP4B	X	-3.477	-3.477	0	%100 %100
96	MP4B	Z	6.023	6.023	0	
97	MP3B	X	-3.477	-3.477		%100
98	MP3B	Z	6.023	6.023	0	%100 %100
99	MP2B	X	-4.209	-4.209	0	%100 %100
100	MP2B	Z	7.29			%100
101	MP1B	X	-3.477	7.29	0	%100
102	MP1B	Z	6.023	-3.477	0	%100
103	OVP	X	-3.169	6.023	0	%100
104	OVP	Z		-3.169	0	%100
105	M118	X	5.488	5.488	0	%100
106	M118	Z	-3.556	-3.556	0	%100
107	M119	X	6.16	6.16	0	%100
108	M119		-3.554	-3.554	0	%100
109	M120	Z X	6.156	6.156	0	%100
110	M120	Z	0	0	0	%100
111	M119A		0	0	0	%100
112	M119A M119A	Z	-3.157	-3.157	0	0
113	M120A		5.468	5.468	0	0
114	M120A	X	-3.157	-3.157	0	0
1141	IVITZUA	Z	5.468	5.468	0	0



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

Wichibe	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
115	M121	X	0	0	0	0
116	M121	Z	0	0	0	0

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.%] %100
1	M20	X	-2.219	-2.219	0	%100 %100
2	M20	Z	1.281	1.281	0	%100 %100
3	M72A	X	-6.63	-6.63	0	%100 %100
4	M72A	Z	3.828	3.828	0	
5	M73	X	-1.911	-1.911	0	%100
6	M73	Z	1.103	1.103	0	%100
7	M74	X	-1.911	-1.911	0	%100
8	M74	Z	1.103	1.103	0	%100
9	M75	X	-3.804	-3.804	0	%100
10	M75	Z	2.196	2.196	0	%100
11	M78	X	-8.283	-8.283	0	%100
12	M78	Z	4.782	4.782	0	%100
13	M79	X	-2.071	-2.071	0	%100
14	M79	Z	1.196	1.196	0	%100
15	M84	X	-11.482	-11.482	0	%100
16	M84	Z	6.629	6.629	0	%100
17	M85	X	-3.874	-3,874	0	%100
18	M85	Z	2.237	2.237	0	%100
19	M87A	X	-4.015	-4.015	0	%100
20	M87A	Z	2.318	2.318	0	%100
21	M89A	X	-11.482	-11.482	0	%100
22	M89A	Z	6.629	6.629	0	%100
23	M90A	X	-15.497	-15.497	0	%100
24	M90A	Z	8.947	8.947	0	%100
25	M92	X	-16.06	-16.06	0	%100
26	M92	Z	9.272	9.272	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-7.643	-7.643	0	%100
30	M26	Z	4.413	4.413	0	%100
31	M27	X	-7.643	-7.643	0	%100
32	M27	Z	4.413	4.413	0	%100
33	M28	X	-15.215	-15.215	0	%100
34	M28	Z	8.784	8.784	0	%100
35	M31	X	-2.071	-2.071	0	%100
36	M31	Z	1.195	1.195	0	%100
37	M32	X	-2.071	-2.071	0	%100
38	M32	Z	1.196	1.196	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	-3.874	-3.874	0	%100
42	M38	Ž	2.237	2.237	0	%100
43	M40	X	-4.015	-4.015	0	%100
	M40	Z	2.318	2.318	0	%100
44 45	M42	X	0	0	0	%100
	M42	Z	0	0	0	%100
46	M43	X	-3.874	-3.874	0	%100
47	M43	Z	2.237	2.237	0	%100
48		X	-4.015	-4.015	0	%100
49	M45	Z	2.318	2.318	0	%100
50 51	M45 M47	X	-6.63	-6.63	0	%100

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

F F	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	. Start Location[ft,%]	End Location[ft,%]
52	M47	Z	3.828	3.828	0	%100
53	M48	X	-1.911	-1.911	0	%100
54	M48	Z	1.103	1.103	0	%100
55	M49	X	-1.911	-1.911	0	%100
56	M49	Z	1.103	1,103	0	%100
57	M50	X	-3.804	-3.804	0	%100
58	M50	Z	2.196	2.196	0	%100
59	M53	X	-2.071	-2.071	0	%100
60	M53	Z	1.195	1.195	0	%100
61	M54	X	-8.284	-8.284	0	%100
62	M54	Z	4.783	4.783	0	%100
63	M59	X	-11.482	-11.482	0	%100
64	M59	Z	6.629	6.629	Ö	%100
65	M60	X	-15.497	-15.497	0	%100 %100
66	M60	Z	8.947	8.947	0	%100 %100
67	M62	X	-16.06	-16.06	Ŏ	%100
68	M62	Z	9.272	9.272	Ö	%100 %100
69	M64	X	-11.482	-11.482	Ö	%100
70	M64	Z	6.629	6.629	Ö	%100 %100
71	M65	X	-3.874	-3.874	Ŏ	%100 %100
72	M65	Z	2.237	2.237	0	%100 %100
73	M67	X	-4.015	-4.015	Ö	%100 %100
74	M67	Z	2.318	2.318	0	%100 %100
75	M68	X	-8.875	-8.875	0	%100 %100
76	M68	Z	5.124	5.124	0	%100 %100
77	M69	X	-2.219	-2.219	0	%100 %100
78	M69	Z	1.281	1.281	Ö	%100 %100
79	MP4A	X	-6.023	-6.023	0	%100 %100
80	MP4A	Z	3.477	3.477	0	%100 %100
81	MP3A	X	-6.023	-6.023	0	%100 %100
82	MP3A	Z	3.477	3.477	0	%100 %100
83	MP2A	X	-7.29	-7.29	0	%100 %100
84	MP2A	Z	4.209	4.209	ŏ	%100 %100
85	MP1A	X	-6.023	-6.023	0	%100
86	MP1A	Z	3.477	3.477	0	%100
87	MP4C	X	-6.023	-6.023	0	%100
88	MP4C	Z	3.477	3.477	0	%100 %100
89	MP3C	X	-6.023	-6.023	0	%100
90	MP3C	Z	3.477	3.477	0	%100 %100
91	MP2C	X	-7.29	-7.29	0	%100 %100
92	MP2C	Z	4.209	4.209	Ö	%100
93	MP1C	X	-6.023	-6.023	0	%100
94	MP1C	Z	3,477	3.477	0	%100
95	MP4B	X	-6.023	-6.023	0	%100
96	MP4B	Z	3.477	3.477	0	%100
97	MP3B	X	-6.023	-6.023	0	%100 %100
98	MP3B	Z	3.477	3.477	Ö	%100 %100
99	MP2B	X	-7.29	-7.29	0	%100 %100
100	MP2B	Z	4.209	4.209	0	%100 %100
101	MP1B	X	-6.023	-6.023	0	%100 %100
102	MP1B	Z	3.477	3.477	0	%100
103	OVP	X	-5.488	-5.488	0	%100 %100
104	OVP	Z	3.169	3.169	0	%100 %100
105	M118	X	-8.211	-8.211	0	%100 %100
106	M118	Z	4.741	4.741	0	%100 %100
107	M119	X	-2.051	-2.051	0	%100 %100
108	M119	Z	1.184	1.184	0	/0 I <b>UU</b>



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

1101112		Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft.%]
100	Member Label	Direction	-2.053	-2.053	0	%100
109	M120	<del></del>	1.185	1.185	0	%100
110	M120	<del></del>	-1.823	-1.823	0	0
111	M119A		1.052	1.052	0	0
112	M119A			-7.29	0	0
113	M120A	<u> </u>	-7.29	4.209	0	0
114	M120A		4.209		0	0
115	M121	X	-1.823	-1.823	0	0
116	M121	Z	1.052	1.052	U	0

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

	Member Label	Direction		End Magnitude[lb/ft,F.	Start Location[ft,%]	End Location[ft,% %100
1	M20	X	0	0	0	%100 %100
2	M20	Z	0	0	0	%100 %100
3	M72A	X	-10.208	-10.208	0	
4	M72A	Z	0	0	0	%100
5	M73	X	0	00	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	-7.173	-7.173	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	-7.174	-7.174	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	-17.677	-17.677	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	-13.42	-13.42	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	-13.908	-13.908	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	-17.677	-17.677	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	13.42	-13.42	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	-13.908	-13.908	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-2.552	-2.552	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	-6.619	-6.619	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	-6.619	-6.619	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	-13.176	-13.176	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	-7.173	-7.173	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	-4.419	-4.419	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
	M38	Z	0	0	0	%100
42 43	M40	X	0	0	0	%100
44	M40	Ž	0	0	0	%100
45	M42	X	-4.419	-4.419	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft	.End Magnitude[lb/ft,F	. Start Location[ft %]	End Location[ft,%]
46	M42	Z	0	0	0	%100
47	M43	X	-13.42	-13.42	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	-13.908	-13.908	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	-2.552	-2.552	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-6.619	-6.619	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	-6.619	-6.619	0	%100
56	M49	Z	0	0	0	%100 %100
57	M50	X	-13.176	-13.176	Ô	%100
58	M50	Z	0	0	Ö	%100
59	M53	X	0	0	0	%100 %100
60	M53	Z	0	0	0	%100 %100
61	M54	X	-7.174	-7.174	0	%100 %100
62	M54	Z	0	0	ő	%100 %100
63	M59	X	-4.419	-4.419	Ö	%100 %100
64	M59	Z	0	0	Ö	%100 %100
65	M60	X	-13.42	-13.42	0	%100 %100
66	M60	Z	0	0	Ö	%100 %100
67	M62	X	-13.908	-13.908	0	%100 %100
68	M62	Z	0	0	0	%100 %100
69	M64	X	-4.419	-4.419	0	%100 %100
70	M64	Z	0	0	0	
71	M65	X	0	0	0	%100
72	M65	Ž	0	0	0	%100 %100
73	M67	X	0	0	0	%100
74	M67	Z	0	0		%100
75	M68	X	-7.686	-7.686	0	%100
76	M68	Ž	0	0		%100
77	M69	X	-7.686	-7.686	0	%100
78	M69	Z	-7.000	-7.000	0	%100
79	MP4A	X	-6.954		0	%100
80	MP4A	Z	-0.954	-6.954	0	%100
81	MP3A	X	-6.954	0	0	%100
82	MP3A	Z	-0.954	-6.954	0	%100
83	MP2A	X		0	0	%100
84	MP2A	Ž	-8.418	-8.418	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A		-6.954	-6.954	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C		-6.954	-6.954	0	%100
89	MP3C	Z	0	0	0	%100
90	MP3C	X	-6.954	-6.954	0	%100
91		Z	0	0	0	%100
	MP2C	X	-8.418	-8.418	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-6.954	-6.954	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	-6.954	-6.954	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-6.954	-6.954	0	%100
98	MP3B	Z	0	0	0	%100
99	MP2B	X	-8.418	-8.418	0	%100
100	MP2B	Z	0	0	0	%100
101	MP1B	X	-6.954	-6.954	0	%100
102	MP1B	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	. Start Location[ft,%]	End Location[ft,%]
400	OVP	Y	-6.337	-6.337	0	%100
103	OVP	7	0.007	0	0	%100
104	M118	Y	-7.109	-7.109	0	%100
105	M118	7	0	0	0	%100
106	M119	Y	-1e-6	-1e-6	0	%100
107	M119	7	0	0	0	%100
108	M120	Y	-7.111	-7.111	0	%100
109	M120	7		0	0	%100
110	M119A	X	0	0	0	0
111		7	0	0	0	0
112	M119A	Y	-6.314	-6.314	0	0
113	M120A	+	0	0	0	0
114	M120A	Y	-6.314	-6.314	0	0
115	M121 M121	Z	0	0	0	0

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

	Member Label	Direction		End Magnitude[lb/ft.F	Start Location[ft,%]	End Location[ft,%]
1	M20	X	-2.219	-2.219	0	%100
2	M20	Z	-1.281	-1.281	0	%100
3	M72A	X	-6.63	-6.63	0	%100
4	M72A	Z	-3.828	-3.828	0	%100
5	M73	X	-1.911	-1.911	0	%100
6	M73	Z	-1.103	-1.103	0	%100
7	M74	X	-1.911	-1.911	0	%100
8	M74	Z	-1.103	-1.103	0	%100
9	M75	X	-3.804	-3.804	0	%100
10	M75	Z	-2.196	-2.196	0	%100
11	M78	X	-2.071	-2.071	0	%100
12	M78	Z	-1.195	-1.195	0	%100
13	M79	X	-8.284	-8.284	0	%100
	M79	Z	-4.783	-4.783	0	%100
14	M84	X	-11.482	-11.482	0	%100
15	M84	Z	-6.629	-6.629	0	%100
16		X	-15.497	-15.497	0	%100
17	M85	Ž	-8.947	-8.947	0	%100
18	M85	X	-16.06	-16.06	0	%100
19	M87A	Ž	-9.272	-9.272	0	%100
20	M87A	X	-11.482	-11.482	0	%100
21	M89A		-6.629	-6.629	0	%100
22	M89A	Z	-3.874	-3.874	0	%100
23	M90A	X	-3.674	-2.237	O O	%100
24	M90A	Z		-4.015	0	%100
25	M92	X	-4.015	-2.318	0	%100
26	M92	Z	-2.318		0	%100 %100
27	M25	X	-6.63	-6.63	0	%100 %100
28	M25	Z	-3.828	-3.828	0	%100 %100
29	M26	X	-1.911	-1.911	0	%100 %100
30	M26	Z	-1.103	-1.103		%100 %100
31	M27	X	-1.911	-1.911	0	%100 %100
32	M27	Z	-1.103	-1.103	0	
33	M28	X	-3.804	-3.804	0	%100
34	M28	Z	-2.196	-2.196	0	%100
35	M31	X	-8.283	-8.283	0	%100
36	M31	Z	-4.782	-4.782	0	%100
37	M32	X	-2.071	-2.071	0	%100
38	M32	Z	-1.196	-1.196	0	%100
39	M37	X	-11.482	-11.482	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude(lb/ft,F.	Start Location(ft.%)	End Location[ft,%]
40	M37	Z	-6.629	-6.629	0	%100
41	M38	X	-3.874	-3.874	0	%100
42	M38	Z	-2.237	-2.237	0	%100
43	M40	X	-4.015	-4.015	0	%100
44	M40	Z	-2.318	-2.318	0	%100
45	M42	X	-11.482	-11.482	0	%100
46	M42	Z	-6.629	-6.629	0	%100
47	M43	X	-15.497	-15.497	0	%100
48	M43	Z	-8.947	-8.947	0	%100
49	M45	X	-16.06	-16.06	0	%100
50	M45	Z	-9.272	-9.272	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	-7.643	-7.643	0	%100
54	M48	Z	-4.413	-4.413	0	%100 %100
55	M49	X	-7.643	-7.643	0	%100
56	M49	Z	-4.413	-4.413	Ö	%100
57	M50	X	-15.215	-15.215	0	%100
58	M50	Z	-8.784	-8.784	0	%100 %100
59	M53	X	-2.071	-2.071	0	%100
60	M53	Z	-1.195	-1.195	0	%1 <b>0</b> 0
61	M54	X	-2.071	-2.071	0	%100 %100
62	M54	Z	-1.196	-1.196	0	%100 %100
63	M59	X	0	0	0	%100 %100
64	M59	Ž	0	0		
65	M60	X	-3.874	-3.874	0	%100
66	M60	Z	-2.237		0	%100
67	M62	X		-2.237	0	%100
68	M62	Z	-4.015	-4.015	0	%100
69	M64	X	-2.318	-2.318	0	%100
70	M64	Ž	0	0	0	%100
71	M65	X		0	0	%100
72	M65	Z	-3.874	-3.874	0	%100
73	M67		-2.237	-2.237	0	%100
74	M67	X	-4.015	-4.015	0	%100
75	M68	Z	-2.318	-2.318	0	%100
76		X	-2.219	-2.219	0	%100
77	M68	Z	-1.281	-1.281	0	%100
	M69	X	-8.875	-8.875	0	%100
78	M69	Z	-5.124	-5.124	0	%100
79	MP4A	X	-6.023	-6.023	0	%100
80	MP4A	Z	-3.477	-3.477	0	%100
81	MP3A	X	-6.023	-6.023	0	%100
82	MP3A	Z	-3.477	-3.477	0	%100
83	MP2A	X	-7.29	-7.29	0	%100
84	MP2A	Z	-4.209	-4.209	0	%100
85	MP1A	X	-6.023	-6.023	0	%100
86	MP1A	Z	-3.477	-3.477	0	%100
87	MP4C	X	-6.023	-6.023	0	%100
88	MP4C	Z	-3.477	-3.477	0	%100
89	MP3C	X	-6.023	-6.023	0	%100
90	MP3C	Z	-3.477	-3.477	0	%100
91	MP2C	X	-7.29	-7.29	0	%100
92	MP2C	Z	-4.209	-4.209	0	%100
93	MP1C	X	-6.023	-6.023	Ö	%100
94	MP1C	Z	-3.477	-3.477	0	%100
95	MP4B	X	-6.023	-6.023	ő	%100
96	MP4B	Z	-3.477	-3.477	0	%100



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

W OI I I I	Member Label	Direction	Start MagnitudeIlb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
07.	MP3B	X	-6.023	-6.023	0	%100
97		Z	-3.477	-3.477	0	%100
98	MP3B	X	-7.29	-7.29	0	%100
99	MP2B		-4.209	-4.209	0	%100
100	MP2B	Z		-6.023	0	%100
101	MP1B	X	-6.023		0	%100
102	MP1B	Z	-3.477	-3.477	0	%100
103	OVP	X	-5.488	-5.488	0	%100
104	OVP	Z	-3.169	-3.169		%100
105	M118	X	-2.051	-2.051	0	
106	M118	Z	-1.184	-1.184	0	%100
107	M119	X	-2.054	-2.054	. 0	%100
	M119	7	-1.186	-1.186	0	%100
108	M120	X	-8.211	-8.211	0	%100
109		7	-4.741	-4.741	0	%100
110	M120	X	-1.823	-1.823	0	0
111	M119A	7	-1.052	-1.052	0	0
112	M119A			-1.823	0	0
113	M120A	X	-1.823	-1.052	0	0
114	M120A	Z	-1.052		0	0
115	M121	X	-7.29	-7.29		0
116	M121	Ż	-4.209	-4.209	0	U

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

	er Distributed Lo	Direction	Start Magnitude[lb/ft	.End Magnitude[lb/ft,F	. Start Location[ft,%]	End Location[ft,%]
4 1	Member Label	X	-3.843	-3.843	0	%100
1	M20	Z	-6.656	-6.656	0	%100
2	M20	X	-1.276	-1.276	0	%100
3	M72A	Z	-2.21	-2.21	0	%100
4	M72A	X	-3.31	-3.31	0	%100
5	M73		-5.733	-5.733	0	%100
6	M73	Z	-3.31	-3.31	0	%100
7	M74	X	-5.733	-5.733	0	%100
8	M74	Z		-6.588	0	%100
9	M75	X	-6.588	-11.411	0	%100
10	M75	Z	-11.411		0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0		%100 %100
13	M79	X	-3.587	-3.587	0	%100 %100
14	M79	Z	-6.213	-6.213		%100 %100
15	M84	X	-2.21	-2.21	0	
16	M84	Z	-3.827	-3.827	0	%100
17	M85	X	-6.71	-6.71	0	%100
18	M85	Z	-11.622	-11.622	0	%100
19	M87A	X	-6.954	-6.954	0	%100
20	M87A	Z	-12.045	-12.045	0	%100
21	M89A	X	-2.21	-2.21	0	%100
	M89A	Z	-3.827	-3.827	0	%100
22	M90A	X	0	0	0	%100
23		Z	0	0	0	%100
24	M90A	X	0	0	0	%100
25	M92	Z	0	0	0	%100
26	M92	X	-5.104	-5.104	0	%100
27	M25	Z	-8.84	-8.84	0	%100
28	M25		0	0	0	%100
29	M26	X		0	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	0		0	%100
32	M27	Z	0	0	0	%100
33	M28	X	0	0	<u> </u>	70100

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

	Member Label	Direction	Start Magnitude[lb/ft,	.End Magnitude[lb/ft,F		End Location[ft,%]
34	M28	Z	0	0	0	%100
35	M31	X	-3.586	-3.586	0	%100
36	M31	Z	-6.212	-6.212	0	%100
37	M32	X	-3.587	-3.587	0	%100
38	M32	Z	-6.213	-6.213	0	%100
39	M37	X	-8.839	-8.839	0	%100
40	M37	Z	-15.309	-15.309	0	%100
41	M38	X	-6.71	-6.71	0	%100
42	M38	Z	-11.622	-11.622	0	%100
43	M40	X	-6.954	-6.954	0	%100
44	M40	Z	-12.045	-12.045	0	%100
45	M42	X	-8.839	-8.839	0	%100
46	M42	Z	-15.309	-15.309	0	%100
47	M43	X	-6.71	-6.71	0	%100
48	M43	Z	-11.622	-11.622	0	%100
49	M45	X	-6.954	-6.954	Ö	%100
50	M45	Z	-12.045	-12.045	Ö	%100
51	M47	X	-1.276	-1.276	Ŏ	%100 %100
52	M47	Z	-2.21	-2.21	ŏ	%100 %100
53	M48	X	-3.31	-3.31	0	%100 %100
54	M48	Z	-5.733	-5.733	0	%100 %100
55	M49	X	-3.31	-3.31	o l	%100 %100
56	M49	Z	-5.733	-5.733	ő	%100 %100
57	M50	X	-6.588	-6.588	0	%100 %100
58	M50	Z	-11.411	-11.411	o l	%100 %100
59	M53	X	-3.586	-3.586	0	%100 %100
60	M53	Z	-6.212	-6.212	Ö	%100 %100
61	M54	X	0	0	0	%100 %100
62	M54	Z	i o	0	0	%100 %100
63	M59	X	-2.21	-2.21	0	%100 %100
64	M59	Z	-3.827	-3.827	0	%100 %100
65	M60	X	0	0	0	%100 %100
66	M60	Z	0	0	0	%100 %100
67	M62	X	Ö	0	0	%100 %100
68	M62	Z	i o	0	0	%100 %100
69	M64	X	-2.21	-2.21	0	
70	M64	Z	-3.827	-3.827	0	%100
71	M65	X	-6.71	-6.71		<u>%100</u>
72	M65	Ž	-11.622	-11.622	0	%100
73	M67	X	-6.954	-6.954		<u>%100</u>
74	M67	Z	-12.045		0	%100
75	M68	X		-12.045	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	-3.843		0	%100
78	M69	Z		-3.843	0	%100
79	MP4A	X	<u>-6.656</u> -3.477	-6.656	0	%100
80	MP4A	Ž		-3.477	0	%100
81	MP3A	X	-6.023	-6.023	0	%100
82	MP3A	Z	-3.477	-3.477	0	%100
83	MP2A	X	-6.023	-6.023	0	%100
84	MP2A		-4.209	-4.209	0	%100
85	MP1A	Z	-7.29	-7.29	0	%100
		X	-3.477	-3.477	0	%100
86	MP1A	Z	-6.023	-6.023	0	%100
88	MP4C MP4C	X	-3.477	-3.477	0	%100
89		Z	-6.023	-6.023	0	%100
90	MP3C	X	-3.477	-3.477	0	%100
Tan I	MP3C	Z	-6.023	-6.023	0	%100



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

	Member Label	Direction	Start Magnitudellb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft.%]
01	MP2C	X	-4.209	-4.209	0	%100
91	MP2C	Z	-7.29	-7.29	0	%100
92	MP1C	X	-3.477	-3.477	0	%100
93	MP1C	7	-6.023	-6.023	0	%100
94		X	-3.477	-3.477	0	%100
95	MP4B	7	-6.023	-6.023	0	%100
96	MP4B		-3.477	-3.477	0	%100
97	MP3B	X	-6.023	-6.023	0	%100
98	MP3B			-4.209	0	%100
99	MP2B	X 7	-4.209 -7.29	-7.29	0	%100
100	MP2B			-3.477	0	%100
101	MP1B	X	-3.477	-6.023	0	%100
102	MP1B	Z	-6.023		0	%100
103	OVP	X	-3.169	-3.169	0	%100
104	OVP	Z	-5.488	-5.488	0	%100 %100
105	M118	X		0	0	%100
106	M118	Z	-1e-6	-1e-6		%100 %100
107	M119	X	-3.556	-3.556	0	%100
108	M119	Z	-6.16	-6.16	0	
109	M120	X	-3,555	-3.555	0	%100
110	M120	Z	-6.158	-6.158	0	%100
111	M119A	X	-3.157	-3.157	0	0
112	M119A	Z	-5.468	-5.468	0	0
113	M120A	X	0	0	0	0
114	M120A	Z	0	0	0	0
115	M121	X	-3.157	-3.157	0	0
116	M121	Z	-5.468	-5.468	0	0

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,%
4	M20	X	0.00	0	0	%100
1		Ž	-2.899	-2.899	0	%100
2	M20	X	0	0	0	%100
3	M72A	Ž	0	0	0	%100
4	M72A	X	0	0	0	%100
5	M73	7	-2.406	-2.406	0	%100
6	M73	X	-2.400	0	0	%100
7	M74	7	-2.406	-2.406	0	%100
8	M74		-2.400	0	0	%100
9	M75	X	-3.775	-3.775	0	%100
10	M75	Z		-3.773	0	%100
11	M78	X	0	677	0	%100
12	M78	Z	677		0	%100
13	M79	X	0	0	0	%100
14	M79	Z	678	678	0	%100
15	M84	X	0	0	0	%100
16	M84	Z	0	0		%100
17	M85	X	0	0	0	%100 %100
18	M85	Z	94	94	0	
19	M87A	X	0	0	0	%100
20	M87A	Z	968	968	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	94	94	0	%100
25	M92	X	0	0	0	%100
26	M92	7	968	968	0	%100
27	M25	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude(lb/ft	F Start Location[ft,%]	End Location[ft,
28	M25	Z	-2.169	-2.169	0	%100
29	M26	X	0	0	Ö	%100
30	M26	Z	601	601	0	%100
31	M27	X	0	0	Ö	%100
32	M27	Z	601	601	Ö	%100 %100
33	M28	X	0	0	0	%100 %100
34	M28	Z	944	944	Ŏ	%100 %100
35	M31	X	0	0	0	%100 %100
36	M31	Z	677	677	Ö	%100 %100
37	M32	X	0	0	0	%100 %100
38	M32	Z	-2.71	-2.71	Ö	%100 %100
39	M37	X	0	0	Ö	%100
10	M37	Z	-2.792	-2.792	0	%100 %100
11	M38	X	0	0	0	%100
12	M38	Z	-3.76	-3.76	0	%100 %100
13	M40	X	0	0	0	%100 %100
14	M40	Z	-3.873	-3.873	Ö	%100
15	M42	X	0	0	0	%100 %100
6	M42	Z	-2.792	-2.792	Ö	%100 %100
7	M43	X	0	0	0	%100 %100
-8	M43	Z	94	94	0	%100
9	M45	X	0	0	0	%100 %100
60	M45	Z	968	968	Ö	%100 %100
51	M47	X	0	0	0	%100 %100
2	M47	Z	-2.169	-2.169	Ö	%100 %100
3	M48	X	0	0	0	%100 %100
4	M48	Z	601	601	0 0	%100 %100
5	M49	X	0	0	0	%100 %100
6	M49	Z	601	601	0	%100 %100
7	M50	X	0	0	i o	%100 %100
8	M50	Z	944	944	ŏ	%100 %100
9	M53	X	0	0	Ŏ	%100 %100
0	M53	Z	-2.71	-2.71	0	%100 %100
1	M54	X	0	0	Ŏ	%100 %100
2	M54	Z	678	678	0	%100 %100
3	M59	X	0	0	Ö	%100 %100
4	M59	Z	-2.792	-2.792	0	%100 %100
5	M60	X	0	0	0	%100 %100
6	M60	Z	94	94	0	%100 %100
7	M62	X	0	0	0	%100 %100
8	M62	Z	968	968	0	%100 %100
9	M64	X	0	0	0	%100 %100
0	M64	Z	-2.792	-2.792	0	%100 %100
1	M65	X	0	0	0	%100 %100
2	M65	Z	-3.76	-3.76	0	%100 %100
3	M67	X	0	0	0	%100 %100
4	M67	Z	-3.873	-3.873	0	%100 %100
5	M68	X	0	0	0	%100 %100
3	M68	Z	725	725		
7	M69	X	0	725	0	%100 %100
3	M69	Z	725	725	0	%100
9	MP4A	X	0			%100
0	MP4A	Z	-2.328	0 -2.328	0	%100
1	MP3A	X	-2.320		0	%100
2	MP3A	Z	-2.328	-2.328	0	%100
3	MP2A	X	-2.320	-2.328	0	%100
1	MP2A	Ž	-2.582	-2.582	0	%100

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

	Member Label	Direction	Start Magnitude(lb/ft	End Magnitude[lb/ft,F	Start Location[ft.%]	End Location[ft.%]
85	MP1A	X	1 0	0	0	%100
86	MP1A	Ž	-2.328	-2.328	0	%100
87	MP4C	X	0	0	0	%100
	MP4C	Z	-2.328	-2.328	0	%100
88	MP3C	X	0	0	0	%100
89	MP3C	Z	-2.328	-2.328	0	%100
90	MP2C	X	0	0	0	%100
91		Z	-2.582	-2.582	0	%100
92	MP2C	X	0	0	0	%100
93	MP1C	Z	-2.328	-2.328	0	%100
94	MP1C	X	0	0	0	%100
95	MP4B	Z	-2.328	-2.328	0	%100
96	MP4B		-2.320	0	0	%100
97	MP3B	X	-2.328	-2.328	0	%100
98	MP3B	Z	-2.320	0	0	%100
99	MP2B	X		-2.582	0	%100
100	MP2B	Z	-2.582	-2.362	0	%100
101	MP1B	X	0	-2.328	0	%100
102	MP1B	Z	-2.328	-2.326	0	%100
103	OVP	X	0		0	%100 %100
104	OVP	Z	-2.154	-2.154	0	%100 %100
105	M118	X	0	0	0	%100 %100
106	M118	Z	595	595		%100 %100
107	M119	X	0	0	0	%100 %100
108	M119	Z	-2.379	-2.379	0	%100 %100
109	M120	X	0	0	0	
110	M120	Z	595	595	0	%100
111	M119A	X	0	0	0	0
112	M119A	Z	-2.582	-2.582	0	0
113	M120A	X	0	0	0	0
114	M120A	Z	645	645	0	0
115	M121	X	0	0	0	0
116	M121	Z	645	645	0	0

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	M20	X	1.087	1.087	0	%100
2	M20	7	-1.883	-1.883	0	%100
2	M72A	X	.362	.362	0	%100
3	M72A	7	626	626	0	%100
4		X	.902	.902	0	%100
5	M73 M73	7	-1.563	-1.563	0	%100
7		X	.902	.902	0	%100
_	M74	7	-1.563	-1.563	0	%100
8	M74	X	1.416	1.416	0	%100
9	M75	+ 2	-2.452	-2.452	0	%100
10	M75		1.016	1.016	0	%100
11	M78	X	-1.76	-1.76	0	%100
12	M78	Z		0	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0		0	%100
15	M84	X	.465	.465		
16	M84	Z	806	806	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	.465	.465	0	%100

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

20	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
22	M89A	Z	806	806	0	%100
23	M90A	X	1.41	1.41	0	%100
24	M90A	Z	-2.442	-2.442	0	%100
25	M92	X	1.452	1.452	0	%100
26	M92	Z	-2.516	-2.516	0	%100
27	M25	X	.362	.362	0	%100
28	M25	Z	626	626	0	%100
29	M26	X	.902	.902	0	%100
30	M26	Z	-1.563	-1.563	0	%100
31	M27	X	.902	.902	0	%100
32	M27	Z	-1.563	-1.563	0	%100
33	M28	X	1.416	1.416	0	%100
34	M28	Z	-2.452	-2.452	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	1.016	1.016	0	%100
38	M32	Z	-1.76	-1.76	0	%100
39	M37	X	.465	.465	0	%100
40	M37	Z	806	806	0	%100
41	M38	X	1.41	1.41	0	%100
42	M38	Z	-2.442	-2.442	0	%100
43	M40	X	1.452	1.452	0	%100
44	M40	Z	-2.516	-2.516	0	%100
45	M42	X	.465	.465	0	%100
46	M42	Z	806	806	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	1.446	1,446	0	%100
52	M47	Z	-2.505	-2.505	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100 %100
59	M53	X	1.016	1.016	0	%100 %100
60	M53	Z	-1.76	-1.76	Ö	%100
61	M54	X	1.016	1.016	0	%100
62	M54	Z	-1.76	-1.76	0	%100
63	M59	X	1.861	1.861	0	%100
64	M59	Z	-3.224	-3.224	Ö	%100 %100
65	M60	X	1.41	1.41	0	%100 %100
66	M60	Z	-2.442	-2.442	Ö	%100 %100
67	M62	X	1.452	1.452	0	%100 %100
68	M62	Z	-2.516	-2.516	0	%100 %100
69	M64	X	1.861	1.861	0	%100 %100
70	M64	Z	-3.224	-3.224	0	%100 %100
71	M65	X	1.41	1.41	0	%100 %100
72	M65	Z	-2.442	-2.442	0	%100
73	M67	X	1.452	1.452	0	
74	M67	Z	-2.516	-2.516	0	%100 %100
75	M68	X	1.087	1.087		%100 %100
76	M68	Z	-1.883	-1.883	0	%100
77	M69	X	0	-1.883	0	%100 %100
						V/_ 11 11 1



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

	er Distributed Lo  Member Label	Direction	Start Magnitude(lb/ft	End Magnitude[lb/ft,F.,	. Start Location[ft,%]	End Location[ft.%]
79	MP4A	X	1.164	1.164	0	%100
	MP4A	Z	-2.016	-2.016	0	%100
80	MP3A	X	1,164	1.164	0	%100
81		Z	-2.016	-2.016	0	%100
82	MP3A	X	1.291	1.291	0	%100
83	MP2A	Ž	-2.236	-2.236	0	%100
84	MP2A	X	1.164	1.164	0	%100
85	MP1A	Ž	-2.016	-2.016	0	%100
86	MP1A		1,164	1.164	0	%100
87	MP4C	X	-2.016	-2.016	Ŏ	%100
88	MP4C	Z	1.164	1,164	Ö	%100
89	MP3C	X	-2.016	-2.016	0	%100
90	MP3C	Z		1.291	Ö	%100
91	MP2C	X	1.291	-2.236	0	%100
92	MP2C	Z	-2.236	1.164	0	%100
93	MP1C	X	1.164	-2.016	0	%100
94	MP1C	Z	-2.016	1.164	0	%100 %100
95	MP4B	X	1.164		0	%100
96	MP4B	Z	-2.016	-2.016		%100 %100
97	MP3B	X	1.164	1.164	0	%100 %100
98	MP3B	Z	-2.016	-2.016		%100
99	MP2B	X	1.291	1.291	0	%100 %100
100	MP2B	Z	-2.236	-2.236	0	%100 %100
101	MP1B	X	1.164	1.164	0	
102	MP1B	Z	-2.016	-2.016	0	%100
103	OVP	X	1.077	1.077	0	%100
104	OVP	Z	-1.865	-1.865	0	%100
105	M118	X	.892	.892	00	%100
106	M118	Z	-1.545	-1.545	0	%100
107	M119	X	.892	.892	0	%100
108	M119	Z	-1.545	-1.545	0	%100
109	M120	X	0	0	0	%100
110	M120	Z	0	0	0	%100
111	M119A	X	.968	.968	0	0
112	M119A	Z	-1.677	-1.677	0	0
113	M120A	X	.968	.968	0	0
	M120A	Z	-1.677	-1.677	0	0
114	M121	X	0	0	0	0
115 116	M121	Z	0	0	0	0

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,%]
4	M20	X	.628	.628	0	%100
		7	362	362	0	%100
2	M20	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.879	1.879	0	%100
3	M72A	<del></del>		-1.085	0	%100
4	M72A		-1.085		0	%100
5	M73	X	.521	.521	0	%100
6	M73	Z	301	301		%100 %100
7	M74	X	.521	.521	0	
8	M74	Z	301	301	0	%100
9	M75	X	.817	.817	00	%100
10	M75	7	472	472	0	%100
	M78	Y	2.347	2.347	0	%100
11		7	-1.355	-1.355	0	%100
12	M78	- Z	.587	.587	0	%100
13	M79	<del></del>		339	0	%100
14	M79	Z	339		0	%100
15	M84	X	2.418	2.418	0	70100



## 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,%]
16	<u>M84</u>	Z	-1.396	-1.396	0	%100
17	M85	X	.814	.814	0	%100
18	M85	Z	47	47	0	%100
19	M87A	X	.839	.839	0	%100
20	M87A	Z	484	484	0	%100
21	M89A	X	2.418	2.418	0	%100
22	M89A	Z	-1.396	-1.396	0	%100
23	M90A	X	3.256	3.256	0	%100
24	M90A	Z	-1.88	-1.88	0	%100
25	M92	X	3.354	3.354	0	%100
26	M92	Z	-1.937	-1.937	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	2.083	2.083	0	%100
30	M26	Z	-1.203	-1.203	0	%100
31	M27	X	2.083	2.083	0	%100
32	M27	Z	-1.203	-1.203	0	%100
33	M28	X	3.269	3.269	0	%100
34	M28	Z	-1.888	-1.888	0	%100
35	M31	X	.587	.587	0	%100
36	M31	Z	339	339	0	%100
37	M32	X	.587	.587	0	%100
38	M32	Z	339	339	0	%100
39	M37	X	0	0	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	.814	.814	0	%100
42	M38	Z	47	47	0	%100
43	M40	X	.839	.839	0	%100
44	M40	Z	484	484	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	.814	.814	0	%100
49	M43	Z	47	47	0	%100
50	M45 M45	X	.839	.839	0	%100
51	M47	Z	484	484	0	%100
52	M47	X	1.879	1.879	0	%100
53	M48		-1.085	-1.085	0	%100
54	M48	Z	.521	.521	0	%100
55	M49		301	301	0	%100
56	M49	X	.521	.521	0	%100
57	M50	Z X	301	301	0	%100
58	M50	Z	.817	.817	0	%100
59	M53	X	472	472	0	<u>%100</u>
60	M53	Z	.587	.587	0	%100
61	M54	X	339	339	0	%100
62	M54	Z	2.347	2.347	0	%100
63	M59	X	-1.355	-1.355	0	%100
64	M59	Z	2.418	2.418	0	%100
65	M60	X	-1.396	-1.396	0	%100
66	M60	Z	3.256	3.256	0	%100
67	M62	X	-1.88	-1.88	0	%100
68	M62	Z	3.354 -1.93 <b>7</b>	3.354	0	%100
69	M64	X		-1.937	0	%100
70	M64	Ž	2.418	2.418	0	%100
71	M65	X	-1.396	-1.396	0	%100
72	M65	Ž	.814 47	.814	0	%100
	IVIOU		4/	47	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
73	M67	X	.839	.839	0	%100
74	M67	Z	484	484	0	%100
75	M68	X	2.511	2.511	0	%100
76	M68	Z	-1.45	-1.45	0	%100
77	M69	X	.628	.628	0	%100
78	M69	Z	362	362	0	%100
79	MP4A	X	2.016	2.016	0	%100
80	MP4A	Z	-1.164	-1.164	0	%100
81	MP3A	X	2.016	2.016	0	%100
82	MP3A	Z	-1.164	-1.164	0	%100
83	MP2A	X	2.236	2.236	0	%100
84	MP2A	Z	-1.291	-1.291	0	%100
85	MP1A	X	2.016	2.016	0	%100
86	MP1A	Z	-1.164	-1.164	0	%100
87	MP4C	X	2.016	2.016	0	%100
88	MP4C	Z	-1.164	-1.164	0	%100
89	MP3C	X	2.016	2.016	0	%100
	MP3C	Z	-1.164	-1.164	0	%100
90	MP2C	X	2.236	2.236	0	%100
	MP2C	Z	-1.291	-1.291	0	%100
92	MP1C	X	2.016	2.016	0	%100
93	MP1C	Z	-1.164	-1.164	0	%100
94	MP4B	X	2.016	2.016	0	%100
95	MP4B	Z	-1.164	-1.164	0	%100
96		X	2.016	2.016	0	%100
97	MP3B MP3B	Z	-1.164	-1.164	0	%100
98	MP2B	X	2.236	2,236	0	%100
99	MP2B	Z	-1.291	-1.291	0	%100
100	MP1B	X	2.016	2.016	0	%100
101	MP1B	Z	-1,164	-1.164	0	%100
102	OVP	X	1.865	1.865	0	%100
103	OVP	Z	-1.077	-1.077	0	%100
104		X	2.06	2.06	0	%100
105	M118 M118	Z	-1.189	-1.189	0	%100
106	M118 M119	X	.515	.515	0	%100
107	M119	Z	297	297	0	%100
108		X	.515	.515	0	%100
109	M120	Z	297	297	0	%100
110	M120	X	.559	.559	0	0
111	M119A	Z	323	323	0	0
112	M119A	X	2.236	2.236	0	0
113	M120A	Z	-1.291	-1.291	0	0
114	M120A	X	.559	.559	0	0
115	M121 M121	Z	323	323	Ö	0

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

	Member Label	Direction		End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
4	M20	X	0	0	0	%100
<del>-</del>	M20	7	0	0	0	%100
2	M72A	X	2.892	2.892	0	%100
4	M72A	7	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	7	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	7	0	0	0	%100
9	M75	X	0	0	0	%100



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

10	Member Label	Direction	Start Magnitude[lb/ft,	.End Magnitude(lb/ft,F.,	Start Location[ft,%]	End Location[ft,%]
10	M75	Z	0	0	0	%100
11	M78	X	2.032	2.032	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	2.033	2.033	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	3.722	3.722	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	2.82	2.82	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	2.905	2.905	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	3.722	3.722	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	2.82	2.82	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	2.905	2.905	Ō	%100
26	M92	Z	0	0	Ö	%100
27	M25	X	.723	.723	Ő	%100
28	M25	Z	0	0	Ö	%100
29	M26	X	1.804	1.804	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	1.804	1.804	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	2.831	2.831	Ö	%100
34	M28	Z	0	0	0	%100
35	M31	X	2.032	2.032	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	.931	.931	0	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	0	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	.931	.931	0	%100 %100
46	M42	Z	0	0	0	%100 %100
47	M43	X	2.82	2.82	0	%100
48	M43	Z	0	0	0	%100 %100
49	M45	X	2.905	2.905	0	%100 %100
50	M45	Z	0	0	0	%100
51	M47	X	.723	.723	0	%100 %100
52	M47	Z	0	0	Ö	%100 %100
53	M48	X	1.804	1.804	0	%100 %100
54	M48	Z	0	0	Ö	%100 %100
55	M49	X	1.804	1.804	0	%100 %100
56	M49	Z	0	0	0	%100 %100
57	M50	X	2.831	2.831	0	%100 %100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100 %100
60	M53	Z	Ö	0	0	%100 %100
61	M54	X	2.033	2.033	0	%100 %100
62	M54	Z	0	0	0	%100 %100
63	M59	X	.931	.931	0	%100 %100
64	M59	Z	.931	.931	0	
65	M60	X	2.82	2.82	0	%100 %100
66	M60	Z	0	0	0	%100 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft.%] %100
67	M62	X	2.905	2.905	0	%100 %100
68	M62	Z	0	0	0	%100 %100
69	M64	X	.931	.931	0	
70	M64	Z	0	0	0	%100 %100
71	M65	X	0	0	0	
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	2.175	2.175	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	2.175	2.175	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	2.328	2.328	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	2.328	2.328	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	2.582	2.582	0	%100
84	MP2A	Z	0	0	0	%100
85	MP1A	X	2.328	2.328	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	2.328	2.328	0	%100
88	MP4C	Z	0	0	0	%100
	MP3C	X	2.328	2.328	0	%100
89	MP3C	Z	0	0	0	%100
90	MP2C	X	2.582	2.582	0	%100
91	MP2C	Z	0	0	0	%100
92	MP1C	X	2.328	2.328	0	%100
93		Z	0	0	0	%100
94	MP1C	X	2.328	2.328	0	%100
95	MP4B	Z	0	0	0	%100
96	MP4B	X	2.328	2.328	0	%100
97	MP3B	Z	0	0	0	%100
98	MP3B	X	2.582	2.582	0	%100
99	MP2B		0	0	0	%100
100	MP2B	Z X	2.328	2.328	0	%100
101	MP1B	Ž	0	0	0	%100
102	MP1B		2.154	2.154	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	1.784	1.784	0	%100
105	M118	X		0	0	%100
106	M118	Z	0	0	0	%100
107	M119	X		0	0	%100
108	M119	Z	0 1 704			%100
109	M120	X	1.784	1.784 0	0	%100 %100
110	M120	Z	0	0	0	0
111	M119A	X	0		0	Ö
112	M119A	Z	0	0	0	0
113	M120A	X	1.936	1.936	0	0
114	M120A	Z	0	0		0
115	M121	X	1.936	1.936	0	0
116	M121	Z	0	0	0	U

## 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,%]
4	M20	X	.628	.628	0	%100
2	M20	7	.362	.362	0	%100
2	M72A	X	1.879	1.879	0	%100

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

	Member Label	Direction	Start Magnitude(lb/ft	.End Magnitude[lb/ft.F	Start Location[ft %]	End Location[ft,%]
4	M72A	Z	1.085	1.085	O C	%100
5	M73	X	.521	.521	0	%100
6	M73	Z	.301	.301	0	%100 %100
7	M74	X	.521	.521	0	%100 %100
8	M74	Z	.301	.301	0	%100 %100
9	M75	X	.817	.817	0	%100 %100
10	M75	Z	.472	.472	0	%100 %100
11	M78	X	.587	.587	0	%100 %100
12	M78	Z	.339	.339	0	%100 %100
13	M79	X	2.347	2.347	0	%100 %100
14	M79	Z	1.355	1.355	0	%100 %100
15	M84	X	2.418	2.418	0	%100 %100
16	M84	Z	1.396	1.396	Ö	%100 %100
17	M85	X	3.256	3.256	0	%100 %100
18	M85	Z	1.88	1.88	0	%100 %100
19	M87A	X	3.354	3.354	0	%100 %100
20	M87A	Ž	1.937	1.937	0	%100 %100
21	M89A	X	2.418	2.418	0	%100 %100
22	M89A	Z	1,396	1.396	0	
23	M90A	X	.814	.814	0	%100
24	M90A	Z	.47	.47	0	%100 %100
25	M92	X	.839	.839	0	%100
26	M92	Z	.484	.484	0	%100 %100
27	M25	X	1.879	1.879	0	
28	M25	Z	1.085	1.085	0	%100 %100
29	M26	X	.521	.521		
30	M26	Z	.301	.301	0	%100
31	M27	X	.521	.521	0	%100
32	M27	Ž	.301	.301	0	%100 %100
33	M28	X	.817	.817	0	%100 %100
34	M28	Z	.472	.472	0	%100 %100
35	M31	X	2.347	2.347	0	%100 %100
36	M31	Z	1.355	1.355	0	%100 %100
37	M32	X	.587	.587	0	%100 %100
38	M32	Z	.339	.339	0	
39	M37	X	2.418	2.418	0	%100 %100
40	M37	Z	1.396	1.396	0	%100 %100
41	M38	X	.814	.814	0	%100 %100
42	M38	Z	.47	.47	0	%100
43	M40	X	.839	.839	0	%100 %100
44	M40	Ž	.484	.484	0	%100 %100
45	M42	X	2.418	2.418	0	%100 %100
46	M42	Z	1.396	1.396	0	%100 %100
47	M43	X	3.256	3.256	0	%100 %100
48	M43	Z	1.88	1.88	0	%100 %100
49	M45	X	3.354	3.354	0	%100 %100
50	M45	Z	1.937	1.937	0	
51	M47	X	0	0	0	%100 %100
52	M47	Z	0	0	0	
53	M48	X	2.083	2.083	0	%100 %100
54	M48	Z	1.203	1.203	0	
55	M49	X	2.083	2.083	0	<u>%100</u>
56	M49	Z	1.203	1.203	0	%100 %100
57	M50	X	3.269	3.269		%100 %100
58	M50	Z	1.888	1.888	0	%100 %100
59	M53	X	.587	.587	0	%100 %100
60	M53	Z	.339	.339	0	%100 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F.,	Start Location[ft.%]	End Location[ft.% %100
61	M54	X	.587	.587	0	%100 %100
62	M54	Z	.339	.339	0	
63	M59	X	0	0	0	%100
64	M59	Z	0	0	0	%100
35	M60	X	.814	.814	0	%100
36	M60	Z	.47	.47	0	%100
37	M62	X	.839	.839	0	%100
68	M62	Z	.484	.484	0	%100
39	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	.814	.814	0	%100
72	M65	Z	.47	.47	0	%100
73	M67	X	.839	.839	0	%100
74	M67	Z	.484	.484	0	%100
75	M68	X	.628	.628	0	%100
76	M68	Z	.362	.362	0	%100
77	M69	X	2.511	2.511	0	%100 %100
78	M69	Z	1.45	1.45	0	%100 %100
79	MP4A	X	2.016	2.016	0	
30	MP4A	Z	1.164	1.164	0	%100
31	МР3А	X	2.016	2.016	0	%100
82	MP3A	Z	1.164	1.164	0	%100
83	MP2A	X	2.236	2.236	0	%100
84	MP2A	Z	1.291	1.291	0	%100
35	MP1A	X	2.016	2.016	0	%100
36	MP1A	Z	1.164	1.164	0	%100
37	MP4C	X	2.016	2.016	0	%100
88	MP4C	Z	1.164	1.164	0	%100
89	MP3C	X	2.016	2.016	0	%100
90	MP3C	Z	1.164	1.164	0	%100
91	MP2C	X	2.236	2.236	0	%100
92	MP2C	Z	1.291	1.291	0	%100
93	MP1C	X	2.016	2.016	0	%100
94	MP1C	Z	1.164	1.164	0	%100
95	MP4B	X	2.016	2.016	0	%100
96	MP4B	Z	1.164	1.164	0	%100
97	MP3B	X	2.016	2.016	0	%100
98	MP3B	Z	1.164	1.164	0	%100
99	MP2B	X	2.236	2.236	0	%100
100	MP2B	Z	1.291	1.291	0	%100
01	MP1B	X	2.016	2.016	0	%100
102	MP1B	Z	1.164	1.164	0	%100
103	OVP	X	1.865	1.865	0	%100
104	OVP	Z	1.077	1.077	0	%100
105	M118	X	.515	.515	0	%100
106	M118	Z	.297	.297	0	%100
107	M119	X	.515	.515	0	%100
108	M119	Ž	.298	.298	0	%100
109	M120	X	2.06	2.06	0	%100
110	M120	Z	1.189	1.189	0	%100
111	M119A	X	.559	.559	0	0
	M119A	Z	.323	.323	0	0
112	M120A	X	.559	.559	0	0
113	M120A	Z	.323	.323	0	0
114		X	2.236	2.236	0	0
115	M121 M121	Z	1.291	1.291	0	0



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	M20	X	1.087	1.087	0	%100
2	M20	Z	1.883	1.883	0	%100
3	M72A	X	.362	.362	0	%100
4	M72A	Z	.626	.626	0	%100
5	M73	X	.902	.902	0	%100
6	M73	Z	1.563	1.563	0	%100
7	M74	X	.902	.902	0	%100
8	M74	Z	1.563	1.563	0	%100
9	M75	X	1.416	1.416	0	%100
10	M75	Z	2.452	2.452	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	1.016	1.016	0	%100
14	M79	Z	1.76	1.76	0	%100
15	M84	X	.465	.465	0	%100
16	M84	Z	.806	.806	0	%100
17	M85	X	1.41	1.41	0	%100
18	M85	Z	2.442	2.442	Ö	%100 %100
19	M87A	X	1.452	1.452	0	%100 %100
20	M87A	Z	2.516	2.516	Ö	%100 %100
21	M89A	X	.465	.465	0	%100 %100
22	M89A	Z	.806	.806	0	%100 %100
23	M90A	X	0	0	0	%100 %100
24	M90A	Z	0	Ö	0	%100 %100
25	M92	X	0	0	0	%100 %100
26	M92	Z	Ö	0	0	%100 %100
27	M25	X	1.446	1.446	0	%100 %100
28	M25	Z	2.505	2.505	0	%100 %100
29	M26	X	0	0	0	%100 %100
30	M26	Z	Ö	0	0	%100 %100
31	M27	X	O	0	0	
32	M27	Z	Ö	0	0	%100 %100
33	M28	X	0	0	0	%100 %100
34	M28	Z	0	0	0	%100 %100
35	M31	X	1.016	1.016	0	
36	M31	Z	1.76	1.76	0	%100
37	M32	X	1.016	1.016	0	%100 %400
38	M32	Z	1.76	1.76	0	%100
39	M37	X	1.861	1.861	0	%100
40	M37	Z	3.224	3.224	0	%100
41	M38	X	1.41	1.41		%100
42	M38	Z	2.442	2.442	0	%100 %100
43	M40	X	1.150		0	%100 %100
44	M40	Z	1.452 2.516	1.452	0	%100
45	M42	X	1.861	2.516	0	%100
46	M42	Z		1.861	0	%100
47	M43	X	3.224 1.41	3.224	0	%100
48	M43	Z	2.442	1.41	0	%100
49	M45	X		2.442	0	%100
50	M45	Z	1.452	1.452	0	%100
51	M47		2.516	2.516	0	%100
52	M47	X	.362	.362	0	%100
53	M48	Z	.626	.626	0	%100
54	M48	X	.902	.902	0	%100
55		Z	1.563	1.563	0	%100
56	M49 M49	X	.902	.902	0	%100
57		Z	1.563	1.563	0	%100
3/	M50	X	1.416	1.416	0	%100

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

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,%]		
58	M50	Z	2.452	2.452	0	%100		
59	M53	X	1.016	1.016	0	%100		
60	M53	Z	1.76	1.76	0	%100		
61	M54	X	0	0	0	%100		
62	M54	Z	0	0	0	%100		
63	M59	X	.465	.465	0	%100		
	M59	Z	.806	.806	0	%100		
64	M60	X	0	0	0	%100		
65	M60	Z	Ŏ	0	0	%100		
66		X	Ō	0	0	%100		
67	M62	Z	Ö	0	0	%100		
68	M62	X	.465	.465	0	%100		
69	M64		.806	.806	0	%100		
70	M64	Z	1.41	1.41	0	%100		
71	M65	X	2,442	2.442	0	%100		
72	M65	Z		1.452	0	%100		
73	M67	X	1.452		ő	%100		
74	M67	Z	2.516	2.516	0	%100		
75	M68	X	0	0	0	%100		
76	M68	Z	0	0		%100		
77	M69	X	1.087	1.087	0	%100		
78	M69	Z	1.883	1.883	0	%100 %100		
79	MP4A	X	1.164	1.164	0			
80	MP4A	Z	2.016	2.016	0	%100		
81	MP3A	X	1.164	1.164	0	%100		
82	MP3A	Z	2.016	2.016	0	%100		
83	MP2A	X	1.291	1.291	0	%100		
84	MP2A	Z	2.236	2.236	0	%100		
	MP1A	X	1.164	1.164	0	%100		
85	MP1A	Z	2.016	2.016	0	%100		
86	MP4C	X	1.164	1.164	0	%100		
87		Z	2.016	2.016	0	%100		
88	MP4C	X	1.164	1.164	0	%100		
89	MP3C	Ž	2.016	2.016	0	%100		
90	MP3C		1.291	1.291	0	%100		
91	MP2C	X	2.236	2.236	0	%100		
92	MP2C	Z		1.164	0	%100		
93	MP1C	X	1.164	2.016	0	%100		
94	MP1C	Z	2.016	1.164	0	%100		
95	MP4B	X	1.164		0	%100		
96	MP4B	Z	2.016	2.016	0	%100		
97	MP3B	X	1.164	1.164	0	%100		
98	MP3B	Z	2.016	2.016		%100 %100		
99	MP2B	X	1.291	1.291	0	%100 %100		
100	MP2B	Z	2.236	2.236	0			
101	MP1B	X	1.164	1.164	0	%100		
102	MP1B	Z	2.016	2.016	0	%100		
103	OVP	X	1.077	1.077	0	%100		
104	OVP	Z	1.865	1.865	0	%100		
	M118	X	0	0	0	%100		
105		Z	Ö	0	0	%100		
106	M118	X	.892	.892	0	%100		
107	M119	Z	1.545	1.545	0	%100		
108	M119		.892	.892	0	%100		
109	M120	X	1,545	1.545	0	%100		
110	M120	Z		.968	0	0		
111	M119A	X	.968		0	Ö		
112	M119A	Z	1.677	1.677	0	0		
113	M120A	X	0	0	0	0		
114	M120A	Z	0	0	U	U		



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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[]b/ft,F	Start Location[ft.%]	End Location[ft.%]
115	M121	X	968	.968	0	0
116	M121	Z	1.677	1.677	0	n n

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

1	Member Label M20	Direction X		.End Magnitude[lb/ft.F		End Location[ft,%]
2	M20	7	0	0	0	%100
3	M72A	X	2.899	2.899	0	%100
4	M72A	Ż	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z		0	0	%100
7	M74		2.406	2.406	0	%100
8	M74	X	0	0	0	%100
9	M75	Z X	2.406	2.406	0	%100
10	M75	Z	0 775	0	0	%100
11	M78		3.775	3.775	0	%100
12	M78	X	0	0	0	%100
13		Z	.677	.677	0	%100
14	M79	X	0	0	0	%100
15	M79 M84	Z	.678	.678	0	%100
16		X	0	0	0	%100
17	M84	Z	0	0	0	%100
	M85	X	0	0	0	%100
18	M85	Z	.94	.94	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	.968	.968	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	.94	.94	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	.968	.968	0	%100
27	M25	X	0	0	0	%100
28	M25	Z	2.169	2.169	0	%100
29	M26	X	0	0	0	%100
30	M26	Z	.601	.601	0	%100
31	M27	X	0	0	0	%100
32	M27	Z	.601	.601	0	%100
33	M28	X	0	0	0	%100
34	M28	Z	.944	.944	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	.677	.677	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	2.71	2.71	0	%100
39	M37	X	0	0	0	%100 %100
40	M37	Z	2.792	2.792	0	%100
41	M38	X	0	0	0	%100 %100
42	M38	Z	3.76	3.76	0	%100 %100
43	M40	X	0	0	0	%100 %100
44	M40	Z	3.873	3.873	0	%100 %100
45	M42	X	0	0	0	%100 %100
46	M42	Z	2.792	2.792	0	%100
47	M43	X	0	0	0	%100 %100
48	M43	Z	.94	.94	0	%100 %100
49	M45	X	0	0	0	%100 %100
50	M45	Z	.968	.968	0	%100 %100
51	M47	X	0	0	0	%100 %100



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

rembe			9 : Structure WI	- 111 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Ctart Legation(ft 0/1	End Location[ft,%
	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F., 2.169	. Start Location[π,%]	%100
52	M47	Z	2.169	2.103	0	%100 %100
53	M48	X	0	.601	0	%100
54	M48	Z	.601		0	%100 %100
55	M49	X	0	0	0	%100 %100
56	M49	Z	.601	.601		%100 %100
57	M50	X	0	0	0	
58	M50	Z	.944	.944	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	2.71	2.71	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	.678	.678	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	2.792	2.792	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	.94	.94	0	%100
67	M62	X	0	0	0	%100
	M62	Z	.968	.968	0	%100
68	NICA	X	0	0	0	%100
69	M64	Ž	2.792	2.792	0	%100
70	M64		0	0	Ö	%100
71	M65	X	3.76	3.76	0	%100
72	M65	Z		0	0	%100
73	M67	X	0	3.873	0	%100
74	M67	Z	3.873		0	%100
75	M68	X	0	0	0	%100 %100
76	M68	Z	.725	.725		%100 %100
77	M69	X	0	0	0	
78	M69	Z	.725	.725	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	2.328	2.328	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	2.328	2.328	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	2.582	2.582	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	2.328	2.328	0	%100
87	MP4C	X	0	0	0	%100
	MP4C	Z	2.328	2.328	0	%100
88	MP3C	X	0	0	0	%100
89		Z	2.328	2.328	0	%100
90	MP3C	X	0	0	0	%100
91	MP2C	Z	2.582	2.582	0	%100
92	MP2C	X	0	0	0	%100
93	MP1C		2.328	2.328	Ö	%100
94	MP1C	Z		0	0	%100
95	MP4B	X	0	2.328	0	%100 %100
96	MP4B	Z	2.328		0	%100
97	MP3B	X	0	0	0	%100 %100
98	MP3B	Z	2.328	2.328		%100 %100
99	MP2B	X	0	0	0	
100	MP2B	Z	2.582	2.582	0	%100 %400
101	MP1B	X	0	0	0	%100
102	MP1B	Z	2.328	2.328	0	%100
103	OVP	X	0	0	0	%100
104	OVP	Z	2.154	2.154	0	%100
105	M118	X	0	0	0	%100
	M118	Z	.595	.595	0	%100
106	M119	X	0	0	0	%100
107 108	M119	Ž	2.379	2.379	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,%]
109	M120	X	0	0	0	%100
109 110	M120	Z	.595	.595	Ō	%100
111	M119A	X	0	0	0	0
112	M119A	Z	2.582	2.582	0	0
113	M120A	X	0	0	0	0
114	M120A	Z	.645	.645	0	0
115	M121	X	0	0	0	0
116	M121	Z	.645	.645	0	0

#### 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	M20	X	-1.087	-1.087	0	%100
2	M20	Z	1.883	1.883	0	%100
3	M72A	X	362	362	0	%100
4	M72A	Z	.626	.626	0	%100
5	M73	X	902	902	0	%100
6	M73	Z	1.563	1.563	0	%100
7	M74	X	902	902	0	%100
8	M74	Z	1.563	1.563	0	%100
9	M75	X	-1.416	-1.416	0	%100
10	M75	Z	2.452	2.452	0	%100
11	M78	X	-1.016	-1.016	0	%100
12	M78	Z	1.76	1.76	0	%100
13	M79	X	0	0	Ö	%100 %100
14	M79	Z	Ö	Ö	0	%100 %100
15	M84	X	465	465	0	%100 %100
16	M84	Z	.806	.806	0	%100 %100
17	M85	X	0	0	0	%100 %100
18	M85	Z	0	0	0	%100 %100
19	M87A	X	0	0	0	%100 %100
20	M87A	Z	0	0	0	%100 %100
21	M89A	X	465	465	0	%100 %100
22	M89A	Z	.806	.806	0	%100 %100
23	M90A	X	-1.41	-1.41	0	%100 %100
24	M90A	Z	2.442	2.442	0	%100 %100
25	M92	X	-1.452	-1.452	0	%100 %100
26	M92	Z	2.516	2.516	0	%100 %100
27	M25	X	362	362	0	%100 %100
28	M25	Z	.626	.626	0	%100 %100
29	M26	X	902	902	0	%100 %100
30	M26	Z	1.563	1.563	0	%100 %100
31	M27	X	902	902	0	
32	M27	Ž	1.563	1.563	0	%100 %100
33	M28	X	-1.416	-1.416	0	%100 %100
34	M28	Z	2.452	2.452	0	%100 %100
35	M31	X	0	0	0	
36	M31	Z	0	0		%100
37	M32	X	-1.016	-1.016	0	%100
38	M32	Z	1.76	1.76	0	%100
39	M37	X	465		0	%100
40	M37	Z	.806	465	0	%100
41	M38	X	-1.41	.806	0	%100
42	M38	Ž	2.442	-1.41	0	%100
43	M40	X		2.442	0	%100
44	M40	Z	-1.452	-1.452	0	%100
45	M42		2.516	2.516	0	%100
40	IVI4Z	X	465	465	0	%100

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

	Member Label	Direction		End Magnitude(lb/ft.F	Start Location[ft,%]	End Location[ft,%]
46	M42	Z	.806	.806	0	%100 %100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100 %100
49	M45	X	0	0	0	
50	M45	Z	0	0	0	%100
51	M47	X	-1.446	-1.446	0	%100
52	M47	Z	2.505	2.505	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	-1.016	-1.016	0	%100
60	M53	Z	1.76	1.76	0	%100
61	M54	X	-1.016	-1.016	0	%100
62	M54	Z	1.76	1.76	0	%100
63	M59	X	-1.861	-1.861	0	%100
64	M59	Z	3.224	3.224	0	%100
65	M60	X	-1.41	-1.41	0	%100
66	M60	Z	2.442	2.442	0	%100
67	M62	X	-1.452	-1.452	0	%100
68	M62	Z	2.516	2.516	0	%100
69	M64	X	-1.861	-1.861	0	%100
70	M64	Z	3.224	3.224	0	%100
71	M65	X	-1.41	-1.41	0	%100
72	M65	Z	2.442	2.442	0	%100
73	M67	X	-1.452	-1.452	0	%100
74	M67	Z	2.516	2.516	0	%100
75	M68	X	-1.087	-1.087	0	%100
76	M68	Z	1.883	1.883	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	-1.164	-1.164	0	%100
80	MP4A	Z	2.016	2.016	0	%100
81	MP3A	X	-1.164	-1.164	0	%100
82	MP3A	Z	2.016	2.016	0	%100
83	MP2A	X	-1.291	-1.291	0	%100
84	MP2A	Z	2.236	2.236	0	%100
85	MP1A	X	-1.164	-1.164	0	%100
86	MP1A	Z	2.016	2.016	0	%100
87	MP4C	X	-1.164	-1.164	0	%100
88	MP4C	Z	2.016	2.016	0	%100
89	MP3C	X	-1.164	-1.164	0	%100
90	MP3C	Z	2.016	2.016	0	%100
	MP2C	X	-1.291	-1.291	0	%100
91	MP2C	Z	2.236	2.236	0	%100
92 93	MP1C	X	-1.164	-1.164	0	%100
	MP1C	Z	2.016	2.016	0	%100
94	MP4B	X	-1.164	-1.164	0	%100
95		Z	2.016	2.016	0	%100
96	MP4B	X	-1.164	-1.164	0	%100
97	MP3B	Z	2.016	2.016	0	%100
98	MP3B	X	-1.291	-1.291	0	%100
99	MP2B	Z	2.236	2.236	0	%100
100	MP2B		-1.164	-1.164	0	%100
101	MP1B MP1B	X Z	2.016	2.016	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft.%]	End Location[ft,%]
103	OVP	X	-1.077	-1.077	0	%100
104	OVP	Z	1.865	1.865	0	%100
105	M118	X	892	892	0	%100
106	M118	Z	1.545	1.545	0	%100
107	M119	X	892	892	0	%100 %100
108	M119	Z	1.545	1.545	0	%100 %100
109	M120	X	0	0	0	%100
110	M120	Z	0	0	ñ	%100 %100
111	M119A	X	968	968	0	0
112	M119A	Z	1.677	1.677	0	Ď.
113	M120A	X	968	968	n	0
114	M120A	Z	1,677	1.677	ň	Ô
115	M121	X	0	0	0	0
116	M121	Z	Ö	Ö	0	0

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

r 4 T	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
1	M20	X	628	628	0	%100
2	M20	Z	.362	.362	0	%100
3	M72A	X	-1.879	-1.879	0	%100
4	M72A	Z	1.085	1.085	0	%100
5	M73	X	521	521	0	%100
6	M73	Z	.301	.301	0	%100
7	M74	X	521	521	0	%100
8	M74	Z	.301	.301	0	%100
9	M75	X	817	817	0	%100
10	M75	Z	.472	.472	0	%100
11	M78	X	-2.347	-2.347	0	%100
12	M78	Z	1.355	1.355	0	%100
13	M79	X	587	587	0	%100 %100
14	M79	Z	.339	.339	0	%100
15	M84	X	-2.418	-2.418	0	%100 %100
16	M84	Z	1.396	1.396	Ö	%100
17	M85	X	814	814	0	%100
18	M85	Z	.47	.47	0	%100 %100
19	M87A	X	839	839	0	%100 %100
20	M87A	Z	.484	.484	0	%100 %100
21	M89A	X	-2.418	-2.418	0	%100 %100
22	M89A	Z	1.396	1.396	0	%100 %100
23	M90A	X	-3.256	-3.256	0	%100 %100
24	M90A	Z	1.88	1.88	0	%100 %100
25	M92	X	-3.354	-3.354	0	%100 %100
26	M92	Z	1.937	1.937	0	%100 %100
27	M25	X	0	0	0	%100 %100
28	M25	Z	0	0	0	%100 %100
29	M26	X	-2.083	-2.083	0	%100 %100
30	M26	Z	1.203	1.203	0	
31	M27	X	-2.083	-2.083	0	%100 %100
32	M27	Z	1.203	1.203	0	%100 %100
33	M28	X	-3.269	-3.269	0	
34	M28	Ž	1.888	1.888		%100
35	M31	X	587	587	0	<u>%100</u>
36	M31	Z	.339	.339		%100
37	M32	X	587		0	%100
38	M32	Ž	.339	587	0	%100
39	M37	X	.339	.339	0	%100
00	IVIO		U	0	0	%100



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

	Member Label	Direction	1 : Structure Wi Start Magnitude(lb/ft	End Magnitude[lb/ft,F.	. Start Location[ft,%]	End Location[ft,%]
40	M37	Z	0	0	0	%100
	M38	X	814	814	0	%100
41	M38	Z	.47	.47	0	%100
42	M40	X	839	839	0	%100
43		Z	.484	.484	0	%100
44	M40		0	0	0	%100
45	M42	Z	0	0	Ō	%100
46	M42		814	814	0	%100
47	M43	X	.47	.47	0	%100
48	M43	Z	839	839	Ö	%100
49	M45	X		.484	Ö	%100
50	M45	Z	.484	-1.879	Ö	%100
51	M47	X	-1.879	1.085	0	%100
52	M47	Z	1.085		0	%100 %100
53	M48	X	521	521	0	%100 %100
54	M48	Z	.301	.301		%100 %100
55	M49	X	521	521	0	%100 %100
56	M49	Z	.301	.301	0	%100 %100
57	M50	X	817	817	0	
58	M50	Z	.472	.472	0	%100
59	M53	X	587	587	0	%100
60	M53	Z	.339	.339	0	%100
61	M54	X	-2.347	-2.347	0	%100
62	M54	Z	1.355	1.355	0	%100
63	M59	X	-2.418	-2.418	0	%100
64	M59	Z	1.396	1.396	0	%100
65	M60	X	-3.256	-3.256	0	%100
	M60	Z	1.88	1.88	0	%100
66	M62	X	-3.354	-3.354	0	%100
67	M62	Z	1.937	1.937	0	%100
68		X	-2.418	-2.418	0	%100
69	M64	Z	1.396	1.396	0	%100
70	M64	X	814	814	0	- %100
71	M65		.47	.47	0	%100
72	M65	Z X	839	839	0	%100
73	M67		.484	.484	0	%100
74	M67	Z	-2.511	-2.511	Ö	%100
75	M68	X	1.45	1.45	0	%100
76	M68	Z		628	0	%100
77	M69	X	628	.362	0	%100
78	M69	Z	.362	-2.016	0	%100
79	MP4A	X	-2.016		0	%100
80	MP4A	Z	1.164	1.164	0	%100
81	MP3A	X	-2.016	-2.016		%100 %100
82	MP3A	Z	1.164	1.164	0	
83	MP2A	X	-2.236	-2.236	0	%100
84	MP2A	Z	1.291	1.291	0	%100
85	MP1A	X	<b>-</b> 2.016	-2.016	0	%100
86	MP1A	Z	1.164	1.164	0	%100
87	MP4C	X	-2.016	-2.016	0	%100
88	MP4C	Z	1.164	1.164	0	%100
89	MP3C	X	-2.016	-2.016	0	%100
90	MP3C	Z	1.164	1.164	0	%100
	MP2C	X	-2.236	-2.236	0	%100
91		Z	1.291	1.291	0	%100
92	MP2C	X	-2.016	-2.016	0	%100
93	MP1C	Ž	1.164	1.164	0	%100
94	MP1C		-2.016	-2.016	0	%100
95	MP4B	X	1,164	1.164	0	%100
96	MP4B	Z		0\DICA\500028212		

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,%]
97	MP3B	X	-2.016	-2.016	0	%100
98	MP3B	Z	1.164	1.164	0	%100
99	MP2B	X	-2.236	-2.236	0	%100
100	MP2B	Z	1.291	1.291	0	%100 %100
101	MP1B	X	-2.016	-2.016	0	%100 %100
102	MP1B	Z	1.164	1.164	0	%100 %100
103	OVP	X	-1.865	-1.865	0	%100 %100
104	OVP	Z	1.077	1.077	Ö	%100 %100
105	M118	X	-2.06	-2.06	0	%100 %100
106	M118	Z	1.189	1.189	0	%100 %100
107	M119	X	515	515	0	%100 %100
108	M119	Z	.297	.297	0	%100 %100
109	M120	X	515	515	0	%100 %100
110	M120	Z	.297	.297	0	%100 %100
111	M119A	X	559	559	0	0
112	M119A	Z	.323	.323	0	0
113	M120A	X	-2.236	-2.236	0	0
114	M120A	Z	1.291	1.291	0	0
115	M121	X	559	559	0	0
116	M121	Z	.323	.323	0	0

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	M20	X	0	0	0	%100
2	M20	Z	0	0	0	%100
3	M72A	X	-2.892	-2.892	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	Ö	%100
8	M74	Z	0	0	Ö	%100
9	M75	X	0	0	0	%100 %100
10	M75	Z	0	0	0	%100 %100
11	M78	X	-2.032	-2.032	0	%100
12	M78	Z	0	0	0	%100 %100
13	M79	X	-2.033	-2.033	0	%100 %100
14	M79	Z	0	0	0	%100 %100
15	M84	X	-3.722	-3.722	0	%100 %100
16	M84	Z	0	0	0	%100 %100
17	M85	X	-2.82	-2.82	0	%100 %100
18	M85	Z	0	0	Ö	%100 %100
19	M87A	X	-2.905	-2.905	0	%100 %100
20	M87A	Z	0	0	0	%100 %100
21	M89A	X	-3.722	-3.722	0	%100 %100
22	M89A	Z	0	0	0	%100 %100
23	M90A	X	-2.82	-2.82	0	%100 %100
24	M90A	Z	0	0	Ö	%100 %100
25	M92	X	-2.905	-2.905	0	%100
26	M92	Z	0	0	0	%100 %100
27	M25	X	723	723	0	%100 %100
28	M25	7	0	725	0	
29	M26	X	-1.804	-1.804	0	%100 %100
30	M26	Z	-1.004	-1.604	0	%100
31	M27	X	-1,804	-1.804	0	%100
32	M27	Z	-1.004	-1.804		%100
33	M28	X	-2.831	-2.831	0	%100
50	TUEC		-2.031	-2.031	0	%100



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

	Member Label	Direction	Start MagnitudeIlb/ft	End Magnitude[lb/ft,F	. Start Location[ft,%]	End Location[ft,%]
24	M28	Z	0	0	0	%100
34	M31	X	-2.032	-2.032	0	%100
35		Z	0	0	0	%100
36	M31	X	0	0	0	%100
37	M32	Ž	0	0	0	%100
38	M32		931	931	0	%100
39	M37	X		0	Ö	%100
40	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0		0	%100 %100
44	M40	Z	0	0		%100 %100
45	M42	X	931	931	0	%100 %100
46	M42	Z	0	0	0	
47	M43	X	-2.82	-2.82	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	-2.905	-2.905	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	723	723	0	%100
52	M47	Z	0	0	0	%100
	M48	X	-1.804	-1.804	0	%100
53	M48	Z	0	0	0	%100
54		X	-1.804	-1.804	0	%100
55	M49	Ž	0	0	0	%100
56	M49		-2.831	-2.831	0	%100
57	M50	X	0	0	0	%100
58	M50	Z		0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0		0	%100
61	M54	X	-2.033	-2.033	0	%100
62	M54	Z	0	0		%100 %100
63	M59	X	931	931	0	%100 %100
64	M59	Z	0	0	0	
65	M60	X	-2.82	-2.82	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	-2.905	-2.905	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	931	931	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
	M67	X	0	0	0	%100
73		Z	0	0	0	%100
74	M67	X	-2.175	-2.175	0	%100
75	M68		0	0	0	%100
76	M68	Z	-2.175	-2.175	0	%100
77	M69	X	-2.173	0	Ö	%100
78	M69	Z		-2.328	0	%100
79	MP4A	X	-2.328		0	%100
80	MP4A	Z	0	0	0	%100 %100
81	MP3A	X	-2.328	-2.328		%100 %100
82	MP3A	Z	0	0	0	%100 %100
83	MP2A	X	-2.582	-2.582	0	
84	MP2A	Z	0	0	0	%100
85	MP1A	X	-2.328	-2.328	0	%100
86	MP1A	Z	0	0	0	%100
87	MP4C	X	-2.328	-2.328	0	%100
88	MP4C	Z	0	0	0	%100
89	MP3C	X	-2.328	-2.328	0	%100
09	MP3C	Z	0	0	0	%100

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

	Member Label	Direction	Start MagnitudeIlb/ft.	End Magnitude[lb/ft.F.,	Start Location[ft %]	End Location[ft,%]
91	MP2C	X	-2.582	-2.582	0	%100
92	MP2C	Z	0	0	0	%100
93	MP1C	X	-2.328	-2.328	0	%100
94	MP1C	Z	0	0	0	%100
95	MP4B	X	-2.328	-2.328	0	%100
96	MP4B	Z	0	0	0	%100
97	MP3B	X	-2.328	-2.328	0	%100 %100
98	MP3B	Z	0	0	Ö	%100
99	MP2B	X	-2.582	-2.582	0	%100 %100
100	MP2B	Z	0	0	Ö	%100 %100
101	MP1B	X	-2.328	-2.328	Ö	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	-2.154	-2.154	0	%100 %100
104	OVP	Z	0	0	Ö	%100 %100
105	M118	X	-1.784	-1.784	Ö	%100
106	M118	Z	0	1.704	0	%100 %100
107	M119	X	0	i o	0	%100 %100
108	M119	Z	0	Ŏ	0	%100 %100
109	M120	X	-1.784	-1.784	0	%100 %100
110	M120	Z	0	0	0	%100 %100
111	M119A	X	0	0	0	0
112	M119A	7	0	ő	0	0
113	M120A	X	-1.936	-1.936	0	0
114	M120A	Z	0	1.550	0	0
115	M121	X	-1.936	-1.936	0	0
116	M121	Z	0	0	0	0

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

	Member Label	Direction	Start Magnitude(lb/ft	End Magnitude[lb/ft,F	Start Location(# 9/1	End Landing (ft 0/1
1	M20	X	628	628	O Start Location[it,76]	End Location[ft,%] %100
2	M20	Z	362	362	0	%100
3	M72A	X	-1.879	-1.879	0	%100
4	M72A	Z	-1.085	-1.085	0	%100
5	M73	X	521	521	0	%100 %100
6	M73	7	301	301	0	%100 %100
7	M74	X	521	521	0	%100 %100
8	M74	Z	301	301	0	%100 %100
9	M75	X	817	817	0	%100 %100
10	M75	Z	472	472	0	%100 %100
11	M78	X	587	587	0	%100 %100
12	M78	Z	339	339	0	%100 %100
13	M79	X	-2.347	-2.347	0	%100 %100
14	M79	Z	-1.355	-1.355	0	%100 %100
15	M84	X	-2.418	-2.418	0	%100 %100
16	M84	Z	-1.396	-1.396	0	%100 %100
17	M85	X	-3.256	-3.256	0	%100 %100
18	M85	Z	-1.88	-1.88	0	%100 %100
19	M87A	X	-3.354	-3.354	0	%100 %100
20	M87A	Z	-1.937	-1.937	0	%100 %100
21	M89A	X	-2.418	-2.418	0	%100 %100
22	M89A	Z	-1.396	-1.396	0	%100 %100
23	M90A	X	814	814	0	%100 %100
24	M90A	7	47	47	0	%100 %100
25	M92	X	839	839	0	%100 %100
26	M92	Z	484	484	0	%100 %100
27	M25	X	-1.879	-1.879	0	%100 %100

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

	Member Label	Direction	3 : Structure Wi Start Magnitude[lb/ft,	. End Magnitude[lb/ft,F.	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	-1.085	-1.085	0	%100
29	M26	X	521	521	0	%100
30	M26	Z	301	301	0	%100
31	M27	X	521	521	0	%100
32	M27	Z	301	301	0	%100
33	M28	X	817	817	0	%100
	M28	Z	-,472	472	0	%100
34	M31	X	-2.347	-2.347	0	%100
35	M31	Ž	1.355	-1.355	0	%100
36		X	587	587	0	%100
37	M32	Z	339	339	0	%100
38	M32	X	-2.418	-2.418	0	%100
39	M37	Ž	-1.396	-1.396	0	%100
40	M37		814	814	0	%100
41	M38	X	47	47	0	%100
42	M38	Z	839	839	0	%100
43	M40	X		484	0	%100
44	M40	Z	484	-2.418	0	%100
45	M42	X	-2.418	-1.396	0	%100
46	M42	Z	-1.396	-3.256	0	%100
47	M43	X	-3.256		0	%100
48	M43	Z	-1.88	-1.88	0	%100
49	M45	X	-3,354	-3.354	0	%100 %100
50	M45	Z	-1.937	-1.937	0	%100 %100
51	M47	X	0	0		%100
52	M47	Z	0	0	0	%100
53	M48	X	-2.083	-2.083	0	%100 %100
54	M48	Z	-1.203	-1.203	0	
55	M49	X	-2.083	-2.083	0	%100
56	M49	Z	-1.203	-1.203	0	%100
57	M50	X	-3.269	-3.269	0	%100
58	M50	Z	-1.888	-1.888	0	%100
59	M53	X	587	587	0	%100
60	M53	Z	339	339	0	%100
61	M54	X	587	587	0	%100
62	M54	Z	339	339	0	%100
63	M59	X	0	0	0	%100
	M59	Z	0	0	0	%100
64		X	814	814	0	%100
65	M60 M60	Z	47	47	0	%100
66		X	839	839	0	%100
67	M62	Z	484	484	0	%100
68	M62	X	0	0	0	%100
69	M64	Ž	0	Ö	0	%100
70	M64		814	814	0	%100
71	M65	Z	014	47	Ö	%100
72	M65		839	839	Ö	%100
73	M67	X		484	0	%100
74	M67	Z	484	628	0	%100
75	M68	X	628	362	0	%100
76	M68	Z	362	-2.511	0	%100
77	M69	X	-2.511		0	%100
78	M69	Z	-1.45	-1.45		%100 %100
79	MP4A	X	-2.016	-2.016	0	%100 %100
80	MP4A	Z	-1.164	-1.164	0	%100 %100
81	мР3А	X	-2.016	-2.016	0	
82	MP3A	Z	-1.164	-1.164	0	%100
83	MP2A	X	-2.236	-2.236	0	%100
84	MP2A	Z	-1.291	-1.291	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F	Start Location[ft.%]	End Location[ft,%]
85	MP1A	X	-2.016	-2.016	0	%100
86	MP1A	Z	-1.164	-1.164	0	%100
87	MP4C	X	-2.016	-2.016	0	%100
88	MP4C	Z	-1.164	-1.164	0	%100
89	MP3C	X	-2.016	-2.016	0	%100 %100
90	MP3C	Z	-1.164	-1.164	0	%100 %100
91	MP2C	X	-2.236	-2.236	0	%100 %100
92	MP2C	Z	-1.291	-1.291	0	%100 %100
93	MP1C	X	-2.016	-2.016	0	%100 %100
94	MP1C	Z	-1.164	-1.164	0	%100 %100
95	MP4B	X	-2.016	-2.016	0	%100 %100
96	MP4B	Z	-1.164	-1.164	0	%100 %100
97	MP3B	X	-2.016	-2.016	0	%100 %100
98	MP3B	7	-1.164	-1.164	0	%100 %100
99	MP2B	X	-2.236	-2.236	0	%100 %100
100	MP2B	Z	-1.291	-1.291	0	%100 %100
101	MP1B	X	-2.016	-2.016	0	
102	MP1B	7	-1.164	-1.164	0	%100
103	OVP	X	-1.865	-1.865	0	<u>%100</u>
104	OVP	7	-1.077	-1.003	0	%100
105	M118	X	515	515	0	%100
106	M118	7	297	297	0	%100
107	M119	X	515	515		<u>%100</u>
108	M119	Z	298		0	%100
109	M120	X	-2.06	298	0	%100
110	M120	Z	-1.189	-2.06	0	%100
111	M119A	X		-1.189	0	%100
112	M119A	Ž	559	559	0	0
113	M120A	X	323	323	0	0
114	M120A	7	559	559	0	0
115	M121	X	323	323	0	0
116	M121	7	-2.236	-2.236	0	0
1101	IVIIZI		-1.291	-1.291	0	0

#### 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	M20	X	-1.087	-1.087	0	%100
2	M20	Z	-1.883	-1.883	0	%100
3	M72A	X	362	362	0	%100
4	M72A	Z	626	626	0	%100
5	M73	X	902	902	0	%100 %100
6	M73	Z	-1.563	-1.563	0	%100 %100
7	M74	X	902	-,902	0	%100 %100
8	M74	Z	-1.563	-1,563	0	%100
9	M75	X	-1.416	-1.416	0	%100 %100
10	M75	Z	-2.452	-2.452	0	%100
11	M78	X	0	0	0	%100 %100
12	M78	Z	0	0	Ö	%100 %100
13	M79	X	-1.016	-1.016	0	%100 %100
14	M79	Z	-1.76	-1.76	0	%100 %100
15	M84	X	465	465	0	%100 %100
16	M84	Z	806	-,806	0	%100 %100
17	M85	X	-1.41	-1.41	0	%100 %100
18	M85	Z	-2.442	-2.442	0	%100 %100
19	M87A	X	-1.452	-1.452	0	%100 %100
20	M87A	Z	-2.516	-2.516	0	%100 %100
21	M89A	X	465	465	0	%100 %100



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

	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F		End Location[ft,%]
22	M89A	Z	806	806	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	0	0	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	-1.446	-1.446	0	%100
	M25	Z	-2.505	-2.505	0	%100
28	M26	X	0	0	0	%100
29	M26	Z	0	0	0	%100
30	M27	X	0	0	0	%100
31		Z	0	0	0	%100
32	M27	X	0	0	0	%100
33	M28	Z	0	Ö	0	%100
34	M28	X	-1.016	-1.016	0	%100
35	M31		-1.76	-1.76	0	%100
36	M31	Z	-1.016	-1.016	0	%100
37	M32	X		-1.76	0	%100
38	M32	Z	-1.76	-1.861	0	%100
39	M37	X	-1.861	-3.224	0	%100
40	M37	Z	-3.224		0	%100
41	M38	X	-1.41	-1.41	0	%100
42	M38	Z	-2.442	-2.442		%100 %100
43	M40	X	-1.452	-1.452	0	%100
44	M40	Z	-2.516	-2.516	0	%100
45	M42	X	-1,861	-1.861	0	
46	M42	Z	-3.224	-3.224	0	%100
47	M43	X	-1.41	-1.41	0	%100
48	M43	Z	-2.442	-2.442	0	%100
49	M45	X	-1.452	-1.452	0	%100
50	M45	Z	-2.516	-2.516	0	%100
51	M47	X	362	362	0	%100
52	M47	Z	626	626	0	%100
	M48	X	902	902	0	%100
53	M48	Z	-1.563	-1.563	0	%100
54	M49	X	902	902	0	%100
55	M49	Z	-1.563	-1.563	0	%100
56		X	-1.416	-1.416	0	%100
57	M50	Z	-2.452	-2.452	0	%100
58	M50	X	-1.016	-1.016	0	%100
59	M53		-1.76	-1.76	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	0	0	0	%100
62	M54	Z		465	0	%100
63	M59	<u> </u>	465	806	0	%100
64	M59	Z	806	606	0	%100
65	M60	X	0		0	%100
66	M60	Z	0	0		%100
67	M62	X	0	0	0	%100 %100
68	M62	Z	0	0	0	
69	M64	X	465	465	0	%100
70	M64	Z	806	806	0	%100
71	M65	X	-1.41	-1.41	0	%100
72	M65	Z	-2.442	-2.442	0	%100
73	M67	X	-1.452	-1.452	0	%100
74	M67	Z	-2.516	-2.516	0	%100
	M68	X	0	0	0	%100
75	M68	Z	Ů Ů	0	0	%100
76		X	-1.087	-1.087	0	%100
77 78	M69 M69	Z	-1.883	-1.883	0	%100



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

70	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
79	MP4A	X	-1.164	-1.164	0	%100
80	MP4A	Z	-2.016	-2.016	0	%100
81	MP3A	X	-1.164	-1.164	0	%100
82	MP3A	Z	-2.016	-2.016	0	%100
83	MP2A	X	-1.291	-1.291	0	%100
84	MP2A	Z	-2.236	-2.236	0	%100
85	MP1A	X	-1.164	-1.164	0	%100
86	MP1A	Z	-2.016	-2.016	0	%100
87	MP4C	X	-1.164	-1.164	0	%100
88	MP4C	Z	-2.016	-2.016	0	%100
89	MP3C	X	-1.164	-1.164	0	%100 %100
90	MP3C	Z	-2.016	-2.016	Ō	%100
91	MP2C	X	-1.291	-1.291	0	%100 %100
92	MP2C	Z	-2.236	-2.236	Ö	%100
93	MP1C	X	-1.164	-1.164	Ö	%100 %100
94	MP1C	Z	-2.016	-2.016	ő	%100 %100
95	MP4B	X	-1.164	-1.164	0	%100 %100
96	MP4B	Z	-2.016	-2.016	ŏ i	%100 %100
97	MP3B	X	-1.164	-1.164	Ö	%100 %100
98	MP3B	Z	-2.016	-2.016	ő	%100 %100
99	MP2B	X	-1.291	-1.291	0	%100 %100
100	MP2B	Z	-2.236	-2.236	Ö	%100 %100
101	MP1B	X	-1.164	-1.164	0	%100 %100
102	MP1B	Z	-2.016	-2.016	0	%100 %100
103	OVP	X	-1.077	-1.077	0	%100 %100
104	OVP	Z	-1.865	-1.865	0	%100 %100
105	M118	X	0	0	0	%100 %100
106	M118	Z	0	0	0	%100 %100
107	M119	X	892	892	0	%100 %100
108	M119	Z	-1.545	-1.545	0	%100
109	M120	X	892	892	0	%100 %100
110	M120	Z	-1.545	-1.545	0	%100 %100
111	M119A	X	968	968	0	0
112	M119A	Z	-1.677	-1.677	0	0
113	M120A	X	0	0	0	
114	M120A	Ž	0	0	0	0
115	M121	X	968	968	0	0
116	M121	Z	-1.677	-1.677	0	0

#### 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	M20	X	0	0	0	%100
2	M20	Z	641	641	0	%100
3	M72A	X	0	0	0	%100 %100
4	M72A	Z	0	0	0	%100 %100
5	M73	X	0	0	0	%100 %100
6	M73	Z	552	552	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	552	552	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	-1.098	-1.098	Ö	%100
11	M78	X	0	0	0	%100 %100
12	M78	Z	149	149	0	%100
13	M79	X	0	0	0	%100 %100
14	M79	Z	149	149	0	%100 %100
15	M84	X	0	0	0	%100 %100

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

Me	ember Label	Direction	Start Magnitude[lb/ft	.End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft.%
16	M84	Z	0	0	0	<u>%100</u>
17	M85	X	0	0	0	%100
18	M85	Z	28	28	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	29	29	0	%100
21	M89A	X	0	0	0	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	0	0	%100
24	M90A	Z	-,28	28	0	%100
	M92	X	0	0	0	%100
25	M92	Z	-,29	29	0	%100
26	M25	X	0	0	0	%100
27		Z	478	478	0	%100
28	M25	X	0	0	0	%100
29	M26	Z	138	138	0	%100
30	M26	X	0	0	0	%100
31	M27	Z	138	138	0	%100
32	M27		-,136	0	0	%100
33	M28	X	275	275	Ö	%100
34	M28	Z	215	0	0	%100
35	M31	X	149	149	0	%100
36	M31	Z		0	0	%100
37	M32	X	0	598	0	%100
38	M32	Z	598		0	%100
39	M37	X	0	0	0	%100
40	M37	Z	829	829	0	%100
41	M38	X	0	0		%100
42	M38	Z	-1.118	-1.118	0	%100 %100
43	M40	X	0	0	0	%100 %100
44	M40	Z	-1.159	-1.159	0	
45	M42	X	0	0	0	%100 %100
46	M42	Z	829	829	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	28	28	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	-,29	29	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	478	478	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	138	138	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	138	138	0	%100
57	M50	X	0	0	0	%100
	M50	Z	275	275	0	%100
58	M53	X	0	0	0	%100
59	M53	Z	598	598	0	%100
60		X	0	0	0	%100
61	M54	Z	149	149	0	%100
62	M54	X	0	0	0	%100
63	M59	Z	829	829	0	%100
64	M59		029	0	0	%100
65	M60	X	28	28	Ö	%100
66	M60	Z	26	0	0	%100
67	M62	X		29	0	%100
68	M62	Z	29	29	0	%100 %100
69	M64	X	0		0	%100 %100
70	M64	Z	829	829	0	%100 %100
71	M65	X	0	0	0	%100 %100
72	M65	Z	-1.118	-1.118		70100



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

73	Member Label M67	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F		End Location[ft,%]
74	M67	X	0	0	0	%100
75	M68	Z	-1.159	-1.159	0	%100
76	M68	X	0	0	0	%100
77		Z	16	16	0	%100
78	M69	X	0	0	0	%100
	M69	Z	16	16	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	-,435	435	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	435	435	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	526	526	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	435	435	0	%100
87	MP4C	X	0	0	0	%100
88	MP4C	Z	435	435	0	%100
89	MP3C	X	0	0	0	%100
90	MP3C	Z	435	435	0	%100
91	MP2C	X	0	0	Ō	%100
92	MP2C	Z	526	526	0	%100
93	MP1C	X	0	0	0	%100
94	MP1C	Z	435	435	Ö	%100
95	MP4B	X	0	0	0	%100
96	MP4B	Z	435	435	Ö	%100
97	MP3B	X	0	0	0	%100 %100
98	MP3B	Z	435	435	0	%100 %100
99	MP2B	X	0	0	0	%100 %100
100	MP2B	Z	526	526	0	%100 %100
101	MP1B	X	0	0	Ö	%100
102	MP1B	Z	435	435	Ö	%100
103	OVP	X	0	0	0	%100 %100
104	OVP	Z	396	396	0	%100 %100
105	M118	X	0	0	0	%100 %100
106	M118	Z	148	148	0	%100 %100
107	M119	X	0	0	0	%100 %100
108	M119	Z	593	593	0	%100
109	M120	X	0	095	0	%100 %100
110	M120	Z	148	148	0	%100 %100
111	M119A	X	0	140	0	
112	M119A	Z	526	526	0	0
113	M120A	X	0	526	0	0
114	M120A	Z	132	132		0
115	M121	X	0	132	0	0
116	M121	Z	132	132	0	0

### 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	M20	X	.24	.24	n	%100
2	M20	Z	416	416	0	%100
3	M72A	X	.08	.08	0	%100 %100
4	M72A	Z	138	138	0	%100 %100
5	M73	X	.207	.207	n	%100 %100
6	M73	Z	358	358	0	%100 %100
7	M74	X	.207	207	n	%100 %100
8	M74	Z	358	358	0	%100 %100
9	M75	X	.412	.412	0	%100 %100



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

M	lember Label	Direction		.End Magnitude[lb/ft.F.,		End Location[ft.%]
10	M75	Z	713	713	0	%100
11	M78	X	.224	.224	0	%100
12	M78	Z	388	388	0	%100
13	M79	X	0	0	0	%100
14	M79	Z	0	0	0	%100
15	M84	X	.138	.138	0	%100
16	M84	Z	239	239	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	0	0	0	%100
21	M89A	X	.138	.138	0	%100
22	M89A	Z	-,239	239	0	%100
23	M90A	X	.419	.419	0	%100
24	M90A	Z	726	726	0	%100
25	M92	X	.435	.435	0	%100
26	M92	Z	753	753	0	%100
27	M25	X	.08	.08	0	%100
28	M25	Z	138	138	0	%100
29	M26	X	.207	.207	0	%100
30	M26	Z	358	358	0	%100
31	M27	X	.207	.207	0	%100
32	M27	Z	358	358	0	%100
33	M28	X	.412	.412	0	%100
34	M28	Z	713	713	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	.224	.224	0	%100
38	M32	Z	388	388	0	%100
39	M37	X	.138	.138	0	%100
40	M37	Z	239	239	0	%100
41	M38	X	.419	.419	0	%100
42	M38	Z	726	726	0	%100
43	M40	X	.435	.435	0	%100
44	M40	Z	753	753	0	%100
45	M42	X	.138	.138	0	%100
46	M42	Z	239	239	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	0	0	0	%100
	M45	X	0	0	0	%100
49	M45	Z	0	0	0	%100
50		X	.319	.319	0	%100
51	M47	Z	553	553	0	%100
52	M47 M48	X	0	0	0	%100
53		Z	Ö	0	0	%100
54	M48	X	0	0	0	%100
55	M49	Ž	0	0	0	%100
56	M49	X	0	0	0	%100
57	M50	Z	0	0	0	%100
58	M50	X	.224	.224	0	%100
59	M53	Z	388	388	0	%100
60	M53		.224	300	0	%100
61	M54	X	388	388	0	%100
62	M54	Z		.552	0	%100
63	M59	X	.552	957	0	%100
64	M59	Z	957	.419	0	%100 %100
65	M60	X	.419	726	0	%100 %100
66	M60	Z	726	/20	U	70100



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

[ oz 1	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
67	M62	X	.435	.435	0	%100
68	M62	Z	753	-,753	0	%100
69	M64	X	.552	.552	0	%100
70	M64	Z	957	957	0	%100
71	M65	X	.419	.419	0	%100
72	M65	Z	726	726	0	%100
73	M67	X	.435	.435	0	%100
74	M67	Z	753	753	0	%100
75	M68	X	.24	.24	0	%100
76	M68	Z	416	416	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	.217	.217	0	%100
80	MP4A	Z	376	376	0	%100
81	MP3A	X	.217	.217	0	%100
82	MP3A	Z	376	376	0	%100
83	MP2A	X	.263	.263	Ö	%100
84	MP2A	Z	456	456	0	%100
85	MP1A	X	.217	.217	Ö	%100
86	MP1A	Z	376	376	Ō	%100 %100
87	MP4C	X	.217	.217	Ö	%100 %100
88	MP4C	Z	376	376	0	%100
89	MP3C	X	.217	.217	0	%100 %100
90	MP3C	Z	376	376	Ö	%100
91	MP2C	X	.263	.263	Ö	%100 %100
92	MP2C	Z	456	456	Ö	%100 %100
93	MP1C	X	.217	.217	Ŏ	%100
94	MP1C	Z	376	376	Ö	%100
95	MP4B	X	.217	.217	Ö	%100 %100
96	MP4B	Z	376	376	Ö	%100
97	MP3B	X	.217	.217	0	%100
98	MP3B	Z	376	376	0	%100
99	MP2B	X	.263	.263	Ö	%100
100	MP2B	Z	456	456	0	%100
101	MP1B	X	.217	.217	Ō	%100
102	MP1B	Z	376	376	0	%100
103	OVP	X	.198	.198	0	%100
104	OVP	Z	343	343	0	%100
105	M118	X	.222	.222	0	%100
106	M118	Z	385	385	0	%100 %100
107	M119	X	.222	.222	0	%100
108	M119	Z	385	385	0	%100
109	M120	X	0	0	0	%100 %100
110	M120	Z	0	0	0	%100
111	M119A	X	.197	.197	0	0
112	M119A	Z	342	342	Ö	0
113	M120A	X	.197	.197	0	0
114	M120A	Z	342	342	0	0
115	M121	X	0	0	0	0
116	M121	Z	0	Ŏ	0	Ŏ

### 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	M20	X	.139	.139	0	%100
2	M20	Z	08	08	0	%100
3	M72A	X	.414	.414	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
4	M72A	Z	239	239	0	%100
5	M73	X	.119	.119	0	%100
6	M73	Z	069	069	0	%100
7	M74	X	.119	.119	0	%100
8	M74	Z	069	069	0	%100
9	M75	X	.238	.238	0	%100
10	M75	Z	137	137	0	%100
11	M78	X	.518	.518	0	%100
12	M78	Z	299	299	0	%100
13	M79	X	.129	.129	0	%100
14	M79	Z	075	075	0	%100
15	M84	X	.718	.718	0	%100
16	M84	Z	414	414	0	%100
17	M85	X	.242	.242	0	%100
18	M85	Z	14	14	0	%100
19	M87A	X	.251	.251	0	%100
20	M87A	Z	145	145	0	%100
21	M89A	X	.718	.718	0	%100
22	M89A	Z	414	414	0	%100
23	M90A	X	.969	.969	0	%100
	M90A	Z	559	559	0	%100
24	M92	X	1.004	1.004	0	%100
25	M92	Z	58	58	0	%100
26		X	0	0	0	%100
27	M25 M25	Z	0	0	0	%100
28		X	.478	.478	0	%100
29	M26	Z	276	276	0	%100
30	M26	X	.478	.478	0	%100
31	M27	Z	276	276	0	%100
32	M27	X	.951	.951	0	%100
33	M28	Z	549	549	0	%100
34	M28	X	.129	.129	0	%100
35	M31	Z	075	075	0	%100
36	M31		.129	.129	0	%100
37	M32	Z	075	075	Ö	%100
38	M32		0	0	0	%100
39	M37	X	0	0	Ö	%100
40	M37	Z	.242	.242	Ö	%100
41	M38	X	14	14	0	%100
42	M38	Z	.251	.251	0	%100
43	M40	X	145	145	Ö	%100
44	M40	Z		0	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	.242	.242	0	%100
47	M43	X		14	0	%100
48	M43	Z	14	.251	0	%100
49	M45	X	.251	145	0	%100
50	M45	Z	145	145 .414	0	%100 %100
51	M47	X	.414		0	%100 %100
52	M47	Z	239	239	0	%100 %100
53	M48	X	.119	.119	0	%100 %100
54	M48	Z	069	069	0	%100 %100
55	M49	X	.119	.119		%100 %100
56	M49	Z	069	069	0	%100 %100
57	M50	X	.238	.238		%100 %100
58	M50	Z	137	137	0	%100 %100
59	M53	X	.129	.129	0	%100 %100
60	M53	Z	075	075	0	/6100

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

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[lb/ft.l	F Start Location[ft,%]	End Location[ft,
61	M54	X	.518	.518	0	%100
62	M54	Z	299	299	0	%100
63	M59	X	.718	.718	0	%100
64	M59	Z	414	414	0	%100
65	M60	X	.969	.969	0	%100
66	M60	Z	559	559	0	%100
67	M62	X	1.004	1.004	0	%100
68	M62	Z	58	58	Ŏ	%100
39	M64	X	.718	.718	0	%100 %100
70	M64	Z	414	414	0	%100 %100
71	M65	X	.242	.242	0	%100
72	M65	Z	14	14	0	%100
73	M67	X	.251	.251	0	%100 %100
74	M67	Z	145	145	0	%100 %100
75	M68	X	.555	.555	0	%100 %100
76	M68	Z	32	32	0	%100 %100
7	M69	X	.139	.139	0	%100 %100
8	M69	Z	08	08	0	
9	MP4A	X	.376	.376		%100 %100
30	MP4A	Z	217	217	0	%100
11	MP3A	X	.376		0	%100
32	MP3A	Z	217	.376	0	%100
3	MP2A	X	.456	217	0	%100
4	MP2A	Ž		.456	0	%100
5	MP1A		263	263	0	%100
6	MP1A	Z	.376	.376	0	%100
7	MP4C		217	217	0	%100
8	MP4C	X	.376	.376	0	%100
9	MP3C	Z	217	217	0	%100
		X	.376	.376	0	%100
00	MP3C	Z	217	217	0	%100
1	MP2C	X	.456	.456	0	%100
2	MP2C	Z	263	263	0	%100
3	MP1C	X	.376	.376	0	%100
4	MP1C	Z	217	217	0	%100
5	MP4B	X	.376	.376	0	%100
6	MP4B	Z	217	217	0	%100
7	MP3B	X	.376	.376	0	%100
8	MP3B	Z	217	217	0	%100
9	MP2B	X	.456	.456	0	%100
00	MP2B	Z	263	263	0	%100
)1	MP1B	X	.376	.376	0	%100
)2	MP1B	Z	217	217	0	%100
)3	OVP	X	.343	.343	0	%100
)4	OVP	Z	198	198	0	%100
)5	M118	X	.513	.513	0	%100 %100
)6	M118	Z	296	296	0	%100 %100
7	M119	X	.128	.128	0	%100 %100
8	M119	Z	074	074	0	%100 %100
9	M120	X	.128	.128	0	%100 %100
0	M120	Ž	074	074	0	%100 %100
1	M119A	X	.114	.114	0	
2	M119A	Z	066	066	0	0
3	M120A	X	.456	.456	0	0
4	M120A	Ž	263	263		0
5	M121	X	263		0	0
16	M121	Z	066	.114 066	0	0



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

	Member Label	Direction		.End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft.%]
1	M20	X	0	0	0	%100 %100
2	M20	Z	0	0	0	%100
3	M72A	X	.638	.638	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
6	M73	Z	0	0	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	0	0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0	0	0	%100
11	M78	X	.448	.448	0	%100
12	M78	Z	0	0	0	%100
	M79	X	.448	.448	0	%100
13	M79	Z	0	0	0	%100
14		X	1.105	1,105	0	%100
15	M84	Z	0	0	0	%100
16	M84	X	.839	.839	0	%100
17	M85		0	0	0	%100
18	M85	Z	.869	.869	0	%100
19	M87A	X	0	0	0	%100
20	M87A	Z	1.105	1,105	0	%100
21	M89A	X		0	0	%100
22	M89A	Z	0	.839	0	%100
23	M90A	X	.839		0	%100
24	M90A	Z	0	0	0	%100 %100
25	M92	X	.869	.869	0	%100
26	M92	Z	0	0		%100
27	M25	X	.159	.159	0	%100
28	M25	Z	0	0	0	%100 %100
29	M26	X	.414	.414	0	
30	M26	Z	0	0	0	%100
31	M27	X	.414	.414	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	.824	.824	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	.448	.448	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
39	M37	X	.276	.276	0	%100
40	M37	Z	0	0	0	%100
	M38	X	0	0	0	%100
41	M38	Z	, o	0	0	%100
42		X	0	0	0	%100
43	M40 M40	Z	0	0	0	%100
44		X	.276	.276	0	%100
45	M42	Ž	0	0	0	%100
46	M42	X	.839	.839	Ö	%100
47	M43	Z	0	0	0	%100
48	M43		.869	.869	Ö	%100
49	M45	X	0	0	Ö	%100
50	M45	Z	.159	.159	0	%100
51	M47	X		0	0	%100
52	M47	Z	0	.414	0	%100
53	M48	X	.414		0	%100
54	M48	Z	0	0	0	%100 %100
55	M49	X	.414	.414	0	%100
56	M49	Z	0	0		%100 %100
57	M50	X	.824	.824	0	70100

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

	Member Label	Direction	Start Magnitude[lb/ft,E	End Magnitude(Ib/ft F	Start Location(ft %)	End Location[ft,%
58	M50	Z	0 1	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	.448	.448	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	.276	.276	0	%100
64	M59	Z	0	0	Ö	%100
65	M60	X	.839	.839	Ö	%100
66	M60	Z	0	0	0	%100 %100
67	M62	X	.869	.869	Ö	%100
68	M62	Z	0	0	Ö	%100 %100
69	M64	X	.276	.276	Ö	%100 %100
70	M64	Z	0	0	Ö	%100
71	M65	X	0	0	0	%100 %100
72	M65	Z	0	0	0	%100 %100
73	M67	X	0	0	0	%100 %100
74	M67	Z	0	0	0	%100 %100
75	M68	X	.48	.48	0	%100 %100
76	M68	Z	0	0	Ö	%100 %100
77	M69	X	.48	.48	0	%100 %100
78	M69	Z	0	0	0	%100 %100
79	MP4A	X	.435	.435	0	%100 %100
80	MP4A	Z	0	0	0	%100 %100
B1	MP3A	X	.435	.435	0	%100 %100
32	MP3A	Z	0	0	Ö	%100 %100
33	MP2A	X	.526	.526	0	%100 %100
34	MP2A	Z	0	0	0	%100 %100
85	MP1A	X	.435	.435	0	%100 %100
36	MP1A	Ž	0	0	0	%100 %100
37	MP4C	X	.435	.435	0	%100 %100
38	MP4C	Z	0	0	0	%100 %100
39	MP3C	X	.435	.435	0	%100 %100
90	MP3C	Z	0	.433	0	%100 %100
91	MP2C	X	.526	.526	0	%100 %100
92	MP2C	Z	0	.520	0	%100 %100
93	MP1C	X	.435	.435	0	%100 %100
94	MP1C	Z	0	0	0	%100 %100
95	MP4B	X	.435	.435	0	%100 %100
96	MP4B	Z	0	0	0	%100 %100
97	MP3B	X	.435	.435	0	%100 %100
98	MP3B	Z	0	0	0	%100 %100
9	MP2B	X	.526	.526	0	%100 %100
00	MP2B	Z	0	0		
01	MP1B	X	.435	.435	0	%100 %400
02	MP1B	Z	0	.435	0	%100 %100
03	OVP	X	.396	.396	0	%100 %100
04	OVP	Z	.396	.396	0	%100 %100
05	M118	X	.444	.444		%100 %100
06	M118	Z	0		0	%100 %100
07	M119	X	0	0	0	%100 %100
08	M119	Ž	0	0	0	%100 %100
09	M120	X			0	%100
10	M120	Z	.444	.444	0	%100
11	M119A	X	0	0	0	%100
12	M119A		0	0	0	0
13	M120A	Z	0	0	0	0
1.3 (	IVITZUA		.395	.395	0	0



# 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,%]
115	M121	X	.395	.395	0	0
116	M121	7	0	0	0	0

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

	Member Label	Direction		End Magnitude[lb/ft.F	Start Location[ft,%]	End Location[ft.%
1	M20	X	.139	.139	0	%100
2	M20	Z	.08	.08	0	%100
3	M72A	X	.414	.414	0	%100
4	M72A	Z	.239	.239	0	%100
5	M73	X	.119	.119	0	%100
6	M73	Z	.069	.069	0	%100
7	M74	X	.119	.119	0	%100
8	M74	Z	.069	.069	0	%100
9	M75	X	.238	.238	0	%100
10	M75	Z	.137	.137	0	%100
11	M78	X	.129	.129	0	%100
12	M78	Z	.075	.075	0	%100
13	M79	X	.518	.518	0	%100
14	M79	Z	.299	.299	0	%100
15	M84	X	.718	.718	0	%100
	M84	Z	.414	.414	0	%100
16	M85	X	.969	.969	0	%100
17	M85	Z	.559	.559	0	%100
18		X	1.004	1.004	0	%100
19	M87A	Z	.58	.58	0	%100
20	M87A M89A	X	.718	.718	0	%100
21		Z	.414	.414	0	%100
22	M89A	X	.242	.242	0	%100
23	M90A	Z	.14	.14	0	%100
24	M90A	X	.251	.251	0	%100
25	M92		.145	.145	0	%100
26	M92	Z	.414	.414	0	%100
27	M25	X	.239	.239	0	%100
28	M25	Z	.119	.119	0	%100
29	M26	X	.069	.069	0	%100
30	M26	Z		.119	0	%100
31	M27	X	.119	.069	Ö	%100
32	M27	Z	.069	.238	0	%100
33	M28	X	.238	.137	0	%100
34	M28	Z	.137		0	%100
35	M31	X	.518	.518	0	%100
36	M31	Z	.299	.299	0	%100 %100
37	M32	X	.129	.129	0	%100 %100
38	M32	Z	.075	.075	0	%100 %100
39	M37	X	.718	.718		%100 %100
40	M37	Z	.414	.414	0	%100 %100
41	M38	X	.242	.242	0	%100 %100
42	M38	Z	.14	.14	0	%100 %100
43	M40	X	.251	.251	0	%100 %100
44	M40	Z	.145	.145	0	%100 %100
45	M42	X	.718	.718	0	
46	M42	Z	.414	.414	0	%100
47	M43	X	.969	.969	0	%100
48	M43	Z	.559	.559	0	%100
49	M45	X	1.004	1.004	0	%100
50	M45	Z	.58	.58	0	%100
51	M47	X	0	0	0	%100

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

52	Member Label M47	Direction		.End Magnitude[lb/ft,F		End Location[ft,%]
53	M48	<u>Z</u>	0	0	0	%100
54	M48	X	.478	.478	0	%100
55	M49	Z	.276	.276	0	%100
56	M49	X	.478	.478	0	%100
57	M50	Z	.276	.276	0	%100
58		X	.951	.951	0	%100
59	M50	Z	.549	.549	0	%100
60	M53	X	.129	.129	0	%100
61	M53	Z	.075	.075	0	%100
62	M54	X	.129	.129	0	%100
63	M54	Z	.075	.075	0	%100
64	M59	X	0	0	0	%100
65	M59	Z	0	0	0	%100
	M60	X	.242	.242	0	%100
66	M60	Z	.14	.14	0	%100
67	M62	X	.251	.251	0	%100
68	M62	Z	.145	.145	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	.242	.242	0	%100
72	M65	Z	.14	.14	0	%100
73	M67	X	.251	.251	0	%100
74	M67	Z	.145	.145	0	%100
75	M68	X	.139	.139	0	%100
76	M68	Z	.08	.08	0	%100
77	M69	X	.555	.555	0	%100
78	M69	Z	.32	.32	0	%100
79	MP4A	X	.376	.376	0	%100
80	MP4A	Z	.217	.217	0	%100
81	MP3A	X	.376	.376	0	%100
82	MP3A	Z	.217	.217	0	%100
83	MP2A	X	.456	.456	0	%100
84	MP2A	Z	.263	.263	0	%100
85	MP1A	X	.376	.376	0	%100
86	MP1A	Z	.217	.217	0	%100
87	MP4C	X	.376	.376	0	%100
88	MP4C	Z	.217	.217	0	%100
89	MP3C	X	.376	.376	0	%100
90	MP3C	Z	.217	.217	0	%100
91	MP2C	X	.456	.456	0	%100
92	MP2C	Z	.263	.263	0	%100
93	MP1C	X	.376	.376	0	%100
94	MP1C	Z	.217	.217	0	%100
95	MP4B	X	.376	.376	0	%100
96	MP4B	Z	.217	.217	0	%100
97	MP3B	X	.376	.376	0	%100
98	MP3B	Z	.217	.217	0	%100
99	MP2B	X	.456	.456	0	%100
100	MP2B	Z	.263	.263	0	%100
101	MP1B	X	.376	.376	0	%100
102	MP1B	Z	.217	.217	0	%100
103	OVP	X	.343	.343	0	%100
104	OVP	Z	.198	.198	ő	%100
105	M118	X	.128	.128	0	%100 %100
106	M118	Z	.074	.074	0	%100 %100
107	M119	X	.128	.128	0	%100 %100
108	M119	7	.074	.074	0	%100 %100



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

5 and 50 70 2 y 30		Start Magnitude[lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
	X		.513	0	%100
	7		.296	0	%100
	X		.114	0	0
	7		.066	0	0
	X		.114	0	0
	7		.066	0	0
	X		.456	0	0
	7		.263	0	0
	Member Label M120 M120 M120 M119A M119A M120A M120A M121 M121	M120 X M120 Z M119A X M119A Z M120A X M120A Z M121 X	Member Label         Direction         Start Magnitude[lb/ft           M120         X         .513           M120         Z         .296           M119A         X         .114           M119A         Z         .066           M120A         X         .114           M120A         Z         .066           M121         X         .456	Member Label         Direction         Start Magnitude[lb/ft End Magnitude]lb/ft.F.           M120         X         .513         .513           M120         Z         .296         .296           M119A         X         .114         .114           M119A         Z         .066         .066           M120A         X         .114         .114           M120A         Z         .066         .066           M121         X         .456         .456           M121         X         .262         .263	Member Label         Direction         Start Magnitude[lb/ft, End Magnitude[lb/ft, F Start Location[ft,%]           M120         X         .513         .513         0           M120         Z         .296         .296         0           M119A         X         .114         .114         0           M119A         Z         .066         .066         0           M120A         X         .114         .114         0           M120A         Z         .066         .066         0           M121         X         .456         .456         .0

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	M20	X	.24	.24	0	%100
2	M20	Z	.416	.416	0	%100
3	M72A	X	.08	.08	0	%100
4	M72A	Z	.138	.138	0	%100
5	M73	X	.207	.207	0	%100
6	M73	Z	.358	.358	0	%100
7	M74	X	.207	.207	0	%100
8	M74	Z	.358	.358	0	%100
9	M75	X	.412	.412	0	%100
10	M75	Z	.713	.713	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	.224	.224	0	%100
14	M79	Z	.388	.388	0	%100
15	M84	X	.138	.138	0	%100
	M84	Z	.239	.239	0	%100
16 17	M85	X	.419	.419	0	%100
18	M85	Z	.726	.726	0	%100
19	M87A	X	.435	.435	0	%100
	M87A	Z	.753	.753	0	%100
20	M89A	X	.138	.138	0	%100
21	M89A	Z	.239	.239	0	%100
22	M90A	X	0	0	0	%100
23	M90A	Z	0	0	0	%100
24	M92	X	0	0	0	%100
25	M92	Z	0	0	0	%100
26	M25	X	.319	.319	0	%100
27	M25	Z	.553	.553	0	%100
28	M26	X	0	0	0	%100
29	M26	Z	0	0	0	%100
30		X	0	0	0	%100
31	M27 M27	Ž	Ö	0	0	%100
32	M28	X	0	0	0	%100
33		Ž	0	0	0	%100
34	M28	X	.224	.224	0	%100
35	M31	7	.388	.388	0	%100
36	M31	X	.224	.224	0	%100
37	M32	Ž	.388	.388	0	%100
38	M32	X	.552	.552	0	%100
39	M37		.957	.957	0	%100
40	M37	Z	.419	.419	0	%100
41	M38	Z	.726	.726	0	%100
42	M38		.435	.435	0	%100
43	M40	X	.753	.753	0	%100
44	M40 M42	Z	.552	.552	0	%100

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

46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M42 M43 M43 M45 M45 M47 M47 M47 M48 M48 M49 M50 M50 M50 M53 M53 M54 M54 M59 M59 M60 M60 M60 M62 M62 M62	Z X Z X Z X Z X Z X Z X Z X Z X Z X Z X	.957 .419 .726 .435 .753 .08 .138 .207 .358 .207 .358 .412 .713 .224 .388 .0	.957 .419 .726 .435 .753 .08 .138 .207 .358 .207 .358 .412 .713 .224 .388 0	0 0 0 0 0 0 0 0 0 0 0 0 0	End Location[ft,%] %100 %100 %100 %100 %100 %100 %100 %1
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M43 M45 M45 M47 M47 M48 M48 M49 M50 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60 M62	Z X Z X Z X Z X Z X Z X Z X Z X Z	.726 .435 .753 .08 .138 .207 .358 .207 .358 .412 .713 .224 .388 .0	.726 .435 .753 .08 .138 .207 .358 .207 .358 .412 .713 .224	0 0 0 0 0 0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M45 M45 M47 M47 M48 M48 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	X Z X Z X Z X Z X Z X Z X Z X Z X Z	.435 .753 .08 .138 .207 .358 .207 .358 .412 .713 .224 .388 .0	.435 .753 .08 .138 .207 .358 .207 .358 .412 .713 .224	0 0 0 0 0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M45 M47 M47 M48 M48 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	Z X Z X Z X Z X Z X Z X Z X Z	.753 .08 .138 .207 .358 .207 .358 .412 .713 .224 .388 .0	.753 .08 .138 .207 .358 .207 .358 .412 .713 .224 .388	0 0 0 0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M47 M47 M48 M48 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	X Z X Z X Z X Z X Z X Z X Z	.08 .138 .207 .358 .207 .358 .412 .713 .224 .388 .0	.08 .138 .207 .358 .207 .358 .412 .713 .224 .388	0 0 0 0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M47 M48 M48 M49 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	Z X Z X Z X Z X Z X Z X Z	.138 .207 .358 .207 .358 .412 .713 .224 .388 .0	.138 .207 .358 .207 .358 .412 .713 .224 .388	0 0 0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M48 M48 M49 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	X Z X Z X Z X Z X Z X Z	.207 .358 .207 .358 .412 .713 .224 .388 0	.207 .358 .207 .358 .412 .713 .224 .388	0 0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M48 M49 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	Z X Z X Z X Z X Z X Z	.358 .207 .358 .412 .713 .224 .388 0 0	.358 .207 .358 .412 .713 .224 .388	0 0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100 %100
55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M49 M49 M50 M50 M53 M53 M54 M54 M59 M60 M60 M60	X Z X Z X Z X Z X Z	.207 .358 .412 .713 .224 .388 0 0	.207 .358 .412 .713 .224 .388	0 0 0 0 0	%100 %100 %100 %100 %100 %100 %100
56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M49 M50 M50 M53 M53 M54 M54 M59 M69 M60 M60	Z X Z X Z X Z X Z	.358 .412 .713 .224 .388 0 0	.358 .412 .713 .224 .388	0 0 0 0	%100 %100 %100 %100 %100 %100
57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	M50 M50 M53 M53 M54 M54 M59 M59 M60 M60	X Z X Z X Z X Z	.412 .713 .224 .388 0 0	.412 .713 .224 .388 0	0 0 0 0	%100 %100 %100 %100 %100
58 59 60 61 62 63 64 65 66 67 68 69 70 71	M50 M53 M53 M54 M54 M59 M59 M60 M60 M62	Z X Z X Z X Z	.713 .224 .388 0 0	.713 .224 .388 0	0 0 0	%100 %100 %100 %100
59 60 61 62 63 64 65 66 67 68 69 70	M53 M54 M54 M59 M59 M60 M60 M62	X Z X Z X Z Z	.224 .388 0 0 .138	.224 .388 0	0	%100 %100 %100
60 61 62 63 64 65 66 67 68 69 70 71	M53 M54 M54 M59 M59 M60 M60 M62	Z X Z X	.388 0 0 .138	.388	0	%100 %100
61 62 63 64 65 66 67 68 69 70 71	M54 M54 M59 M59 M60 M60 M62	X Z X Z	0 0 .138	.388	0	%100
62 63 64 65 66 67 68 69 70	M54 M59 M59 M60 M60 M62	Z X Z	.138	0		
63 64 65 66 67 68 69 70 71	M59 M59 M60 M60 M62	X	.138	0		/D 11 III
64 65 66 67 68 69 70 71	M59 M60 M60 M62	Z		U	0	%100
65 66 67 68 69 70	M60 M60 M62			.138	0	%100
66 67 68 69 70 71	M60 M62	X	.239	.239	0	%100
67 68 69 70 71	M62		0	0	0	%100
68 69 70 71		Z	0	0	0	%100 %100
69 70 71	M62	X	0	0	0	%100
70 71		Z	0	0	0	%100
71	M64	X	.138	.138	0	%100 %100
	M64	Z	.239	.239	Ö	%100 %100
72	M65	X	.419	.419	0	%100 %100
	M65	Z	.726	.726	0	%100 %100
73	M67	X	.435	.435	Ö	%100 %100
74	M67	Z	.753	.753	Ō	%100
75	M68	X	0	0	Ö	%100
76	M68	Z	0	0	O I	%100 %100
77	M69	X	.24	.24	0	%100 %100
78	M69	Z	.416	.416	Ö	%100 %100
79	MP4A	X	.217	.217	0	%100 %100
80	MP4A	Z	.376	.376	0	%100 %100
81	MP3A	X	.217	.217	0	%100
82	MP3A	Z	.376	.376	0	%100
83	MP2A	X	.263	.263	Ō	%100
84	MP2A	Z	.456	.456	Ö	%100 %100
85	MP1A	X	.217	.217	0	%100
86	MP1A	Z	.376	.376	Ö	%100
87	MP4C	X	.217	.217	Ö	%100
88	MP4C	Z	.376	.376	0	%100 %100
89	MP3C	X	.217	.217	0	%100
90	MP3C	Z	.376	.376	0	%100
91	MP2C	X	.263	.263	0	%100 %100
92	MP2C	Z	.456	.456	0	%100 %100
93	MP1C	X	.217	.217	0	%100 %100
94	MP1C	Z	.376	.376	0	%100 %100
95	MP4B	X	.217	.217	0	%100 %100
96	MP4B	Z	.376	.376	0	%100 %100
97	MP3B	X	.217	.217	0	
98	MP3B	Z	.376	.376	0	%100 %100
99	MP2B	X	.263	.263	0	
100	MP2B	Z	.456	.456	0	%100 %100
101	MP1B	X	.217	.217	0	%100 %100
102	MP1B	Z	.376	.376	0	%100 %100



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

	Member Label	Direction	Start Magnitude(lb/ft	End Magnitude[lb/ft,F	. Start Location[ft,%]	End Location[ft,%]
400	OVP	Y	.198	.198	0	%100
103	OVP	7	.343	.343	0	%100
104	M118	Y	1 .010	0	0	%100
105	M118	7	0	0	0	%100
106	M119	Y	.222	.222	0	%100
107	M119	7	.385	.385	0	%100
108	M120	Y	.222	.222	0	%100
109	M120	7	.385	.385	0	%100
110	M119A	Y	.197	.197	0	0
111	M119A	7	.342	.342	0	0
112	M120A	Y	0	0	0	0
113		7	Ŏ	0	0	0
114	M120A M121	Y	.197	.197	0	0
115	M121	Z	.342	.342	0	0

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	M20	X	0	0	0	%100
2	M20	Z	.641	.641	0	%100
3	M72A	X	0	0	0	%100
4	M72A	Z	0	0	0	%100
5	M73	X	0	0	0	%100
	M73	Z	.552	.552	0	%100
7	M74	X	0	0	0	%100
8	M74	Z	.552	.552	0	%100
9	M75	X	0	0	0	%100
	M75	Z	1.098	1.098	0	%100
10	M78	X	0	0	0	%100
11	M78	Z	.149	.149	0	%100
12	M79	X	0	0	0	%100
13		Z	.149	.149	0	%100
14	M79	X	0	1 0	0	%100
15	M84	Z	0	0	0	%100
16	M84	X	0	0	0	%100
17	M85	Ž	.28	.28	Ö	%100
18	M85		0	0	0	%100
19	M87A	X	.29	.29	Ö	%100
20	M87A	Z	0	0	0	%100
21	M89A	X		0	Ö	%100
22	M89A	Z	0	0	0	%100
23	M90A	X	0	.28	o o	%100
24	M90A	Z	.28	0	0	%100
25	M92	X	0	.29	0	%100 %100
26	M92	Z	.29		0	%100 %100
27	M25	X	0	0	0	%100 %100
28	M25	Z	.478	.478		%100 %100
29	M26	X	0	0	0	%100 %100
30	M26	Z	.138	.138	0	%100 %100
31	M27	X	0	0	0	
32	M27	Z	.138	.138	0	%100 %100
33	M28	X	0	0	0	%100
34	M28	Z	.275	.275	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	.149	.149	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	.598	.598	0	%100
39	M37	X	0	0	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,%]
40	M37	Z	.829	.829	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	1.118	1.118	0	%100
43	M40	X	0	Q	0	%100
44	M40	Z	1.159	1.159	0	%100
45	M42	X	0	0	0	%100
46	M42	Z	.829	.829	0	%100
47	M43	X	0	0	0	%100
48	M43	Z	.28	.28	0	%100
49	M45	X	0	0	0	%100
50	M45	Z	.29	.29	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	.478	.478	0	%100
53	M48	X	0	0	0	%100
54	M48	Z	.138	.138	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	.138	.138	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	.275	.275	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	.598	.598	0	%100
61	M54	X	0	0	0	%100
62	M54	Z	.149	.149	0	%100
63	M59	X	0	0	0	%100
64	M59	Z	.829	.829	0	%100
65	M60	X	0	0	0	%100
66	M60	Z	.28	.28	0	%100
67	M62	X	0	0	0	%100
68	M62	Z	.29	.29	0	%100
69	M64	X	0	0	0	%100
70	M64	Z	.829	.829	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	1.118	1.118	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	1.159	1.159	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	.16	.16	0	%100
77	M69	X	0	0	0	%100
78	M69	Z	.16	.16	0	%100
79	MP4A	X	0	0	0	%100
80	MP4A	Z	.435	.435	0	%100
81	MP3A	X	0	0	0	%100
82	MP3A	Z	.435	.435	0	%100
83	MP2A	X	0	0	0	%100
84	MP2A	Z	.526	.526	0	%100
85	MP1A	X	0	0	0	%100
86	MP1A	Z	.435	.435	0	%100
87	MP4C	X	0	0	Ö	%100
88	MP4C	Z	.435	.435	0	%100
89	MP3C	X	0	0	Ö	%100
90	MP3C	Z	.435	.435	Ö	%100
91	MP2C	X	0	0	Ö	%100
92	MP2C	Z	.526	.526	Ŏ	%100 %100
93	MP1C	X	0	0	Ö	%100
94	MP1C	Z	.435	.435	Ö	%100
95	MP4B	X	0	0	Ö	%100
96	MP4B	Z	.435	.435	Ŏ	%100



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

,,,,,,,,,	Member Label	Direction	Start MagnitudeIlb/ft	End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft,%]
97	MP3B	X	0	0	0	%100
	MP3B	7	.435	.435	0	%100
98		X	0	0	0	%100
99	MP2B	7	.526	.526	0	%100
100	MP2B		0	0	0	%100
101	MP1B	X 7	.435	.435	0	%100
102	MP1B	\ \ \ \ \ \ \ \		.455	0	%100
103	OVP		0	306	0	%100
104	OVP	Z	.396	.396	0	%100 %100
105	M118	X	00	0	0	
106	M118	Z	.148	.148	0	%100
107	M119	X	0	0	0	%100
108	M119	Z	.593	.593	0	%100
109	M120	X	0	0	00	%100
110	M120	7	.148	.148	0	%100
111	M119A	X	0	0	0	0
	M119A	7	.526	.526	0	0
112		X	0	0	0	0
113	M120A	7	.132	.132	0	0
114	M120A	X	0	0	0	0
115	M121			.132	0	0
116	M121	Z	.132	1 .132		

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	M20	X	24	24	0	%100
2	M20	Z	.416	.416	0	%100
	M72A	X	08	08	0	%100
3	M72A	Z	.138	.138	0	%100
4		X	207	207	0	%100
5	M73 M73	Z	.358	.358	0	%100
6		X	207	207	0	%100
7	M74	Ž	.358	.358	0	%100
8	M74	X	412	412	0	%100
9	M75	Z	.713	.713	0	%100
10	M75	X	224	224	0	%100
11	M78	Z	.388	.388	0	%100
12	M78		.300	0	0	%100
13	M79	X	0	0	Ö	%100
14	M79	Z	138	138	0	%100
15	M84	X	.239	.239	0	%100
16	M84	Z		0	0	%100
17	M85	X	0	0	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	0	0	0	%100 %100
20	M87A	Z	0		0	%100 %100
21	M89A	X	138	138	0	%100 %100
22	M89A	Z	.239	.239	0	%100 %100
23	M90A	X	419	419		%100 %100
24	M90A	Z	.726	.726	0	%100 %100
25	M92	X	435	435	0	%100 %100
26	M92	Z	.753	.753	0	
27	M25	X	08	08	0	%100
28	M25	Z	.138	.138	0	%100
29	M26	X	207	207	0	%100
30	M26	Z	.358	.358	0	%100
31	M27	X	207	207	0	%100
32	M27	Z	.358	.358	0	%100
33	M28	X	412	412	0	%100

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

34	Member Label	Direction	Start Magnitude[lb/ft,	End Magnitude[lb/ft,F		End Location[ft,%]
	M28	Z	.713	.713	0	%100
35	M31	X	0	0	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	224	224	0	%100
38	M32	Z	.388	.388	0	%100
39	M37	X	138	138	0	%100
40	M37	Z	.239	.239	0	%100
41	M38	X	419	419	0	%100
42	M38	Z	.726	.726	0	%100
43	M40	X	435	435	0	%100
44	M40	Z	.753	.753	Ō	%100
45	M42	X	138	138	Ö	%100
46	M42	Z	.239	.239	0	%100 %100
47	M43	X	0	0	0	%100 %100
48	M43	Z	0	0	Ŏ	
49	M45	X	0	0	0	%100
50	M45	Z	0			%100
51	M47	X	319	0	0	%100
52	M47	Ż		319	0	%100
53	M48		.553	.553	0	%100
54	M48	X	0	0	0	%100
		Z	0	0	0	%100
55	M49	X	0	0	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	0	0	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	224	224	0	%100
60	M53	Z	.388	.388	0	%100
61	M54	X	224	224	0	%100
62	M54	Z	.388	.388	0	%100
63	M59	X	552	552	0	%100
64	M59	Z	.957	.957	0	%100
65	M60	X	419	419	0	%100 %100
66	M60	Z	.726	.726	Ö	%100 %100
67	M62	X	435	435	0	%100 %100
68	M62	Z	.753	.753	0	%100 %100
69	M64	X	552	552	0	%100
70	M64	7	.957	.957		
71	M65	X	419	419	0	<u>%100</u>
72	M65	Z	.726		0	%100
73	M67	X		.726	0	%100
74	M67	Ž	435	435	0	%100
75	M68	X	.753	.753	0	%100
76	1100	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	24	24	0	%100
77	M68		.416	.416	0	%100
	M69	X	0	0	0	%100
78	M69	Z	0	0	0	%100
79	MP4A	X	217	217	0	%100
80	MP4A	Z	.376	.376	0	%100
81	MP3A	X	217	217	0	%100
82	MP3A	Z	.376	.376	0	%100
83	MP2A	X	263	263	0	%100
84	MP2A	Z	.456	.456	0	%100
85	MP1A	X	217	217	0	%100
86	MP1A	Z	.376	.376	ő	%100
87	MP4C	X	217	217	0	%100 %100
88	MP4C	Z	.376	.376	0	%100 %100
89	MP3C	X	217	217	0	%100 %100
	MP3C	Z	.376	21/	U	% I UU



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,%]
91	MP2C	X	263	263	0	%100
92	MP2C	Z	.456	.456	0	%100
93	MP1C	X	217	217	0	%100
	MP1C	Z	.376	.376	0	%100
94	MP4B	X	217	217	0	%100
	MP4B	Z	.376	.376	0	%100
96	MP3B	X	217	217	0	%100
97	MP3B	Z	.376	.376	0	%100
98		X	263	263	0	%100
99	MP2B	Z	.456	.456	0	%100
100	MP2B	X	217	217	0	%100
101	MP1B	7	.376	.376	Ö	%100
102	MP1B		198	198	Ō	%100
103	OVP	Z	.343	.343	0	%100
104	OVP		222	222	0	%100
105	M118	X		.385	0	%100
106	M118	Z	.385	222	0	%100
107	M119	X	222		0	%100
108	M119	Z	.385	.385	0	%100 %100
109	M120	X	0	0	0	%100 %100
110	M120	Z	0	0		
111	M119A	X	197	197	0	0
112	M119A	Z	.342	.342	0	0
113	M120A	X	197	197	0	0
114	M120A	Z	.342	.342	0	0
115	M121	X	0	0	0	0
116	M121	Z	0	0	0	0

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	M20	X	139	139	0	%100
2	M20	Z	.08	.08	0	%100
3	M72A	X	414	414	0	%100
	M72A	Z	.239	.239	0	%100
4	M73	X	119	119	0	%100
5	M73	Z	.069	.069	0	%100
7		X	119	119	0	%100
	M74	Z	.069	.069	0	%100
8	M74	X	238	238	0	%100
9	M75	Z	.137	.137	0	%100
10	M75		518	518	0	%100
11	M78	X	.299	.299	Ö	%100
12	M78	Z		129	0	%100
13	M79	X	129	.075	0	%100
14	M79	Z	.075		0	%100 %100
15	M84	X	718	718	0	%100 %100
16	M84	Z	.414	.414		%100 %100
17	M85	X	242	242	0	
18	M85	Z	.14	.14	0	%100
19	M87A	X	251	251	0	%100
20	M87A	Z	.145	.145	0	%100
21	M89A	X	718	718	0	%100
22	M89A	Z	.414	.414	0	%100
23	M90A	X	969	969	0	%100
24	M90A	Z	.559	.559	0	%100
25	M92	X	-1.004	-1.004	0	%100
26	M92	Z	.58	.58	0	%100
27	M25	X	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,	.End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
28	M25	Z	0	0	0	%100
29	M26	X	478	478	0	%100
30	M26	Z	.276	.276	0	%100
31	M27	X	478	478	0	%100
32	M27	Z	.276	.276	0	%100
33	M28	X	951	951	0	%100
34	M28	Z	.549	.549	0	%100
35	M31	X	129	129	0	%100
36	M31	Z	.075	.075	0	%100
37	M32	X	129	129	0	%100 %100
38	M32	7	.075	.075	0	%100 %100
39	M37	X	0	0	Ö	%100 %100
40	M37	Z	Ö	o o	0	%100 %100
41	M38	X	242	242	0	%100 %100
42	M38	Z	.14	.14	0	%100 %100
43	M40	X	251	251	0	%100 %100
44	M40	Z	.145	.145	Ö	%100 %100
45	M42	X	0	0	0	
46	M42	Z	0	0	0	%100 %100
47	M43	X	242	242	0	
48	M43	Z	.14	.14		%100
49	M45	X	251	251	0	<u>%100</u>
50	M45	Z	.145		0	%100
51	M47	X		.145	0	%100
52	M47	Z	414 .239	414	0	%100
53	M48	X		.239	0	%100
54	M48	Ž	119	119	0	%100
55	M49	X	.069	.069	0	%100
56	M49		119	119	0	%100
57	M50	Z	.069	.069	0	%100
58	M50	Z	238	238	0	%100
59	M53		.137	.137	0	%100
60	M53	X	129	129	0	%100
61	M54	Z	.075	.075	0	%100
62	M54	X	518	518	0	%100
63	M59	Z	.299	.299	0	%100
64	M59	X	718	718	0	%100
65	M60	Z	.414	.414	0	<u>%100</u>
66		X	969	969	0	%100
	M60	Z	.559	.559	0	%100
67 68	M62	X	-1.004	-1.004	0	%100
69	M62	Z	.58	.58	0	%100
70	M64	X	718	718	0	%100
	M64	<u> </u>	.414	.414	0	%100
71	M65	X	242	242	0	%100
72	M65	Z	.14	.14	0	%100
73	M67	X	251	251	0	%100
74	M67	Z	.145	.145	0	%100
75	M68	X	555	555	0	%100
76	M68	Z	.32	.32	0	%100
77	M69	X	139	139	0	%100
78	M69	Z	.08	.08	0	%100
79	MP4A	X	376	376	0	%100
80	MP4A	Z	.217	.217	0	%100
81	MP3A	X	376	376	0	%100
82	MP3A	Z	.217	.217	0	%100
83	MP2A	X	456	456	0	%100
84	MP2A	L Z	.263	.263	0	%100



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

	Member Label	Direction	Start Magnitude[lb/ft,.	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%
85	MP1A	X	376	376	0	%100
86	MP1A	Z	.217	.217	0	%100
87	MP4C	X	376	- 376	0	%100
88	MP4C	Z	.217	.217	0	%100
89	MP3C	X	376	376	0	%100
90	MP3C	Ž	.217	.217	0	%100
	MP2C	X	456	456	0	%100
91	MP2C	Z	.263	.263	0	%100
92	MP1C	X	376	376	0	%100
93	MP1C	Z	.217	.217	0	%100
94	MP4B	X	376	376	0	%100
95		Z	.217	.217	0	%100
96	MP4B	X	376	376	0	%100
97	MP3B	Ž	.217	.217	0	%100
98	MP3B	X	456	456	0	%100
99	MP2B	Z	.263	.263	0	%100
100	MP2B	X	376	376	0	%100
101	MP1B		.217	.217	0	%100
102	MP1B	Z		343	0	%100
103	OVP	X	343 .198	.198	0	%100
104	OVP	Z		513	0	%100
105	M118	X	513	.296	0	%100
106	M118	Z	.296	128	0	%100
107	M119	X	128	.074	0	%100
108	M119	Z	.074		0	%100
109	M120	X	128	128	0	%100
110	M120	Z	.074	.074	0	0
111	M119A	X	114	-,114		0
112	M119A	Z	.066	.066	0	0
113	M120A	X	456	456	0	0
114	M120A	Z	,263	.263	0	
115	M121	X	114	114	0	0
116	M121	Z	.066	.066	0	0

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 1	M20	X	0	0	0	%100
2	M20	7	0	0	0	%100
2		X	638	638	0	%100
3	M72A	Z	0	0	0	%100
4	M72A	X	0	0	0	%100
5	M73	7	0	0	0	%100
6	M73	<del></del>	0	0	0	%100
7	M74	X 7	0	0	0	%100
8	M74			0	0	%100
9	M75	X	0	0	0	%100
10	M75	Z	0		0	%100
11	M78	X	448	448	0	%100 %100
12	M78	Z	0	0		%100
13	M79	X	448	448	0	
14	M79	Z	0	0	0	%100
15	M84	X	-1.105	-1.105	0	%100
16	M84	Z	0	0	0	%100
17	M85	X	839	839	0	%100
18	M85	Z	0	0	0	%100
19	M87A	X	869	869	0	%100
	M87A	7	0	0	0	%100
20	M89A	X	-1.105	-1.105	0	%100

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

22	Member Label	Direction		End Magnitude[lb/ft,F.,		End Location[ft,%]
	M89A	Z	0	0	0	%100
23	M90A	X	839	839	0	%100
24	M90A	Z	0	0	0	%100
25	M92	X	869	869	0	%100
26	M92	Z	0	0	0	%100
27	M25	X	159	159	0	%100
28	M25	Z	0	0	0	%100
29	M26	X	414	414	0	%100
30	M26	Z	0	0	0	%100
31	M27	X	414	414	0	%100
32	M27	Z	0	0	0	%100
33	M28	X	824	824	0	%100
34	M28	Z	0	0	0	%100
35	M31	X	448	448	0	%100
36	M31	Z	0	0	0	%100
37	M32	X	0	0	0	%100
38	M32	Z	0	0	0	%100
40	M37	X	276	276	0	%100
	M37	Z	0	0	0	%100
41	M38	X	0	0	0	%100
42	M38	Z	0	0	0	%100
43	M40	X	0	00	0	%100
44	M40	Z	0	0	0	%100
45	M42	X	276	276	0	%100
46	M42	Z	0	0	0	%100
47	M43	X	839	839	0	%100
48	M43	Z	0	0	0	%100
49	M45	X	869	869	0	%100
50	M45	Z	0	0	0	%100
51	M47	X	159	159	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	414	414	0	%100
54	M48	Z	0	0	0	%100
55	M49	X	414	414	0	%100
56	M49	Z	0	0	0	%100
57	M50	X	824	824	0	%100
58	M50	Z	0	0	0	%100
59	M53	X	0	0	0	%100
60	M53	Z	0	0	0	%100
61	M54	X	448	448	0	%100
62	M54	Z	0	0	0	%100
63	M59	X	276	276	0	%100
64	M59	Z	0	0	0	%100
65	M60	X	839	839	0	%100
66	M60	Z	0	0	0	%100
67	M62	X	869	869	0	%100
68	M62	Z	0	0	0	%100
69	M64	X	276	276	0	%100
70	M64	Z	0	0	0	%100
71	M65	X	0	0	0	%100
72	M65	Z	0	0	0	%100
73	M67	X	0	0	0	%100
74	M67	Z	0	0	0	%100
75	M68	X	48	48	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	48	48	0	%100
78	M69	Z	0	0	0	%100



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,%]
79	MP4A	X	435	- 435	0	%100
80	MP4A	Z	0	0	0	%100
81	MP3A	X	435	435	0	%100
82	MP3A	Z	0	0	0	%100
83	MP2A	X	526	526	0	%100
	MP2A	Z	0	0	0	%100
84	MP1A	X	435	435	0	%100
85	MP1A	Z	0	0	0	%100
86	MP4C	X	435	435	0	%100
87		Z	0	0	0	%100
88	MP4C	X	435	435	0	%100
89	MP3C	Ž	0	0	0	%100
90	MP3C	X	526	526	0	%100
91	MP2C	Z	0	0	0	%100
92	MP2C	X	435	435	0	%100
93	MP1C		433	0	0	%100
94	MP1C	Z	435	435	0	%100
95	MP4B	X	433	0	0	%100
96	MP4B	Z	435	435	0	%100
97	MP3B	X		433	0	%100
98	MP3B	Z	500	526	0	%100
99	MP2B	X	526	520	0	%100
100	MP2B	Z	0	435	0	%100
101	MP1B	X	435		0	%100
102	MP1B	Z	0	0	0	%100
103	OVP	X	396	396	0	%100 %100
104	OVP	Z	0	0	0	%100
105	M118	X	444	444	0	%100 %100
106	M118	Z	0	0		%100 %100
107	M119	X	0	0	0	
108	M119	Z	0	0	0	%100
109	M120	X	-,444	444	0	%100
110	M120	Z	0	0	0	%100
111	M119A	X	0	0	0	0
112	M119A	Z	0	0	0	0
113	M120A	X	395	395	0	0
114	M120A	Z	0	0	0	0
115	M121	X	395	395	0	0
116	M121	Z	0	0	0	0

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

	Manharlahal	Direction	Start Magnitude(lb/ft	End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
_	Member Label	Y Y	139	139	0	%100
1	M20		08	08	0	%100
2	M20	<del></del>	414	414	0	%100
3	M72A		239	239	0	%100
4	M72A	<u> </u>		119	0	%100
5	<u>M73</u>	X	119	069	0	%100
6	M73		069		0	%100
7	M74	X	119	119	0	%100
8	M74	Z	069	069	0	%100
9	M75	X	238	238	0	
10	M75	Z	137	137	0	%100
11	M78	X	129	129	0	%100
12	M78	Z	075	075	0	%100
13	M79	X	518	518	0	%100
14	M79	Z	299	299	0	%100
15	M84	X	718	718	0	%100

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

[ 40 ]	Member Label	Direction	Start Magnitude[lb/ft,	.End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft,%]
16	M84	Z	414	414	0	%100
17	M85	X	969	969	0	%100
18	M85	Z	559	559	0	%100
19	M87A	X	-1.004	-1.004	0	%100
20	M87A	Z	58	58	0	%100
21	M89A	X	718	718	0	%100
22	M89A	Z	414	414	0	%100
23	M90A	X	242	242	0	%100
24	M90A	Z	14	14	0	%100
25	M92	X	251	251	0	%100
26	M92	Z	145	145	0	%100
27	M25	X	414	414	0	%100
28	M25	Z	239	239	0	%100
29	M26	X	119	119	0	%100
30	M26	Z	069	069	0	%100
31	M27	X	119	119	0	%100
32	M27	Z	069	069	0	%100
33	M28	X	238	238	0	%100
34	M28	Z	137	137	0	%100
35	M31	X	518	518	0	%100
36	M31	Z	299	299	0	%100
37	M32	X	129	129	0	%100
38	M32	Z	075	075	0	%100
39	M37	X	718	718	0	%100
40	M37	Z	414	414	0	%100
41	M38	X	242	242	0	%100
42	M38	Z	14	14	Ö	%100
43	M40	X	251	251	Ö	%100
44	M40	Z	145	145	0	%100
45	M42	X	718	718	0	%100
46	M42	Z	414	414	0	%100
47	M43	X	969	969	0	%100
48	M43	Z	559	559	0	%100
49	M45	X	-1.004	-1.004	0	%100
50	M45	Z	58	58	0	%100
51	M47	X	0	0	0	%100
52	M47	Z	0	0	0	%100
53	M48	X	478	478	0	%100
54	M48	Z	276	276	Ö	%100
55	M49	X	478	478	0	%100
56	M49	Z	276	276	Ö	%100
57	M50	Х	951	951	Ö	%100 %100
58	M50	Z	549	549	Ö	%100 %100
59	M53	X	129	129	0	%100 %100
60	M53	Z	075	075	0	%100 %100
61	M54	X	129	129	0	%100 %100
62	M54	Z	075	075	0	%100 %100
63	M59	X	0	073	0	%100 %100
64	M59	Z	Ö	0	0	
65	M60	X	242	242	0	%100 %100
66	M60	Ž	14	14	0	
67	M62	X	251	251		%100
68	M62	Z	145	251 145	0	%100
69	M64	X	145		0	%100
70	M64	Ž	0	0	0	%100
71	M65	X		0	0	%100
72	M65	Z	242	242	0	%100
	IVIUJ		14	14	0	%100



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

	Member Label	Direction		End Magnitude(lb/ft,F	Start Location[II,%]	End Location[ft.% %100
73	M67	X	251	251	0	%100 %100
74	M67	Z	145	145	0	%100
75	M68	X	139	139	0	%100
76	M68	Z	08	08	0	%100 %100
77	M69	X	555	555	0	
78	M69	Z	32	32	0	%100
79	MP4A	X	376	376	0	%100
80	MP4A	Z	217	217	0	%100
81	MP3A	X	376	376	0	%100
82	MP3A	Z	217	217	0	%100
83	MP2A	X	456	456	0	%100
84	MP2A	Z	263	263	0	%100
85	MP1A	X	376	376	0	%100
86	MP1A	Z	217	217	0	%100
87	MP4C	X	376	376	0	%100
88	MP4C	Z	217	217	0	%100
89	MP3C	X	376	376	0	%100
90	MP3C	Z	217	217	0	%100
91	MP2C	X	- 456	456	0	%100
92	MP2C	Z	263	263	0	%100
93	MP1C	X	376	376	0	%100
	MP1C	Z	217	217	0	%100
94	MP4B	X	376	376	0	%100
95	MP4B	Z	217	217	0	%100
96	MP3B	X	376	376	0	%100
97	MP3B	Z	217	217	0	%100
98	MP2B	X	456	456	0	%100
99	MP2B	Ž	263	263	0	%100
100	MP1B	X	376	376	0	%100
101	MP1B	Z	217	217	0	%100
102	OVP	X	343	343	0	%100
103		Z	198	198	0	<u>%100</u>
104	OVP M118	X	128	128	0	%100
105		Z	074	074	0	%100
106	M118	X	128	-,128	0	%100
107	M119	Ž	074	074	0	%100
108	M119	X	513	513	0	%100
109	M120	Ž	296	296	0	%100
110	M120	X	114	114	0	0
111	M119A	Ž	066	066	0	0
112	M119A		114	114	0	0
113	M120A	X	066	066	Ö	0
114	M120A	Z	456	456	0	0
115	M121	X		263	0	0
116	M121	Z	263	200		<del> </del>

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

, 0,111,0	er Distributed Le	Direction		End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
	Member Label	Direction	-,24	24	0	%100
1	M20			416	0	%100
2	M20	_ Z	416		0	%100
3	M72A	X	08	08	0	
4	M72A	Z	138	138	U	%100
5	M73	X	207	207	0	%100
	M73	7	358	358	0	%100
6			207	207	0	%100
	M74		358	-,358	0	%100
8	M74				0	%100
9	M75	X	412	412	L	70100



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,
10	M75	Z	713	713	0	%100
11	M78	X	0	0	0	%100
12	M78	Z	0	0	0	%100
13	M79	X	224	224	0	%100
14	M79	Z	388	388	0	%100
15	M84	X	138	138	0	%100 %100
16	M84	Z	239	239	0	%100 %100
17	M85	X	419	419	0	%100 %100
18	M85	Z	726	726	0	%100 %100
19	M87A	X	435	435	0	%100 %100
20	M87A	Z	753	753	0	%100 %100
21	M89A	X	138	138	0	%100 %100
22	M89A	Z	239	239	0	%100 %100
23	M90A	X	0	0	0	%100 %100
24	M90A	Z	0	0	0	
25	M92	X	0	0	0	%100 %100
26	M92	Z	0	0		%100 %100
27	M25	X	319	319	0	%100 %100
28	M25	Z	553	553	0	%100 %100
29	M26	X	0	555	0	%100 %100
30	M26	Z	0	0		%100
31	M27	X	0	0	0	%100
32	M27	Ž	0	0	0	%100
33	M28	X	0		0	%100
34	M28	Z	0	0	0	%100
35	M31	X	224		0	%100
86	M31	Z	388	224	0	%100
37	M32	X	224	388	0	%100
38	M32	Ž	388	224	0	%100
39	M37	X		388	0	%100
10	M37	Z	552 957	552	0	%100
1	M38	X	419	957	0	%100
2	M38	Z	726	419	0	%100
3	M40	X		726	0	%100
4	M40	Z	435 753	435	0	%100
5	M42	X	552	753	0	%100
6	M42	Ž		552	0	%100
7	M43	X	957	957	0	%100
.8	M43		419	419	0	%100
.9	M45	Z X	726	726	0	%100
0	M45	Ž	435	435	0	%100
1	M47	X	753	753	0	%100
2	M47	Z	08	08	0	%100
3	M48	X	138	138	0	%100
4	M48	Z	207	207	0	%100
5	M49		358	358	0	%100
6	M49	Z	207	207	0	%100
7	M50		358	358	0	%100
8	M50	X	412	412	0	%100
9	M53	Z	713	713	0	%100
0		X	224	224	0	%100
1	M53	Z	388	388	0	%100
2	M54	X	0	0	0	%100
3	M54	Z	0	0	0	%100
	M59	X	138	138	0	%100
4	M59	Z	239	239	0	%100
5	M60	X	0	0	0	%100
6	M60	Z	0	0	0	%100



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

	Member Label	Direction		.End Magnitude[lb/ft,F	Start Location[ft,%]	End Location[ft,%]
67	M62	X	0	0	0	%100 %100
68	M62	Z	0	0	0	
69	M64	X	138	138	0	%100
70	M64	Z	239	239	0	%100
71	M65	X	419	419	0	%100
72	M65	Z	726	726	0	%100
73	M67	X	435	435	0	%100
74	M67	Z	-,753	753	0	%100
75	M68	X	0	0	0	%100
76	M68	Z	0	0	0	%100
77	M69	X	24	24	0	%100
78	M69	Z	416	416	0	%100
79	MP4A	X	217	217	0	%100
80	MP4A	Z	-,376	376	0	%100
81	MP3A	X	217	217	0	%100
82	MP3A	Z	376	376	0	%100
83	MP2A	X	-,263	263	0	%100
84	MP2A	Z	456	456	0	%100
85	MP1A	X	217	217	0	%100
86	MP1A	Z	376	376	0	%100
87	MP4C	X	217	217	0	%100
88	MP4C	Z	376	376	0	%100
89	MP3C	X	217	217	0	%100
90	MP3C	Z	376	376	0	%100
91	MP2C	X	263	263	0	%100
92	MP2C	Z	456	456	0	%100
93	MP1C	X	217	217	0	%100
94	MP1C	Z	376	376	0	%100
95	MP4B	X	217	217	0	%100
96	MP4B	Z	376	376	0	%100
97	MP3B	X	217	217	0 =	%100
98	MP3B	Z	376	376	0	%100
99	MP2B	X	263	263	0	%100
100	MP2B	Ž	456	456	0	%100
101	MP1B	X	217	217	0	%100
102	MP1B	Z	376	376	0	%100
103	OVP	X	198	198	0	%100
104	OVP	Z	343	343	0	%100
105	M118	X	0	0	0	%100
106	M118	Z	0	0	0	%100
107	M119	X	222	222	0	%100
108	M119	Z	385	385	0	%100
109	M120	X	222	222	0	%100
110	M120	Z	385	385	0	%100
111	M119A	X	197	197	0	0
112	M119A	Z	342	342	0	0
	M120A	X	0	0	0	0
113	M120A	Z	0	Ö	0	0
114	M120A M121	X	197	-,197	0	0
115	M121	Z	342	342	0	0

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.	M31	Y	-2.356	-4.541	0	.793
2	M31	Y	-4.541	-6.018	.793	1.586
2	M31	V	-6.018	-7.77	1.586	2.379

### 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.%]
4	M31	Y	-7.77	-7.475	2.379	3.172
5	M31	Υ	-7.475	-4.145	3.172	3.965
6	M32	Y	-4.166	-7.563	0	.793
7	M32	Υ	-7.563	-7.938	.793	1.587
8	M32	Y	-7.938	-6.372	1.587	2.38
9	M32	Y	-6.372	-4.807	2.38	3.173
10	M32	Υ	-4.807	-2.16	3.173	3.967
11	M53	Y	-2.356	-4.541	0	.793
12	M53	Y	-4.541	-6.018	.793	1.586
13	M53	Y	-6.018	-7.77	1.586	2.379
14	M53	Υ	-7.77	-7.475	2.379	3.172
15	M53	Y	-7.475	-4.145	3.172	3.965
16	M54	Y	-4.166	-7.563	0	.793
17	M54	Υ	-7.563	-7.938	.793	1.587
18	M54	Y	-7.938	-6.372	1.587	2.38
19	M54	Y	-6.372	-4.807	2.38	3.173
20	M54	Y	-4.807	-2.16	3.173	3.967
21	M78	Y	-2.36	-4.543	0.110	.793
22	M78	Y	-4.543	-6.018	.793	1.586
23	M78	Y	-6.018	-7.77	1.586	2.379
24	M78	Y	-7.77	-7.474	2.379	3.172
25	M78	Y	-7.474	-4.145	3.172	3.965
26	M79	Y	-4.175	-7.565	0	.793
27	M79	Y	-7.565	-7.934	.793	1.587
28	M79	Y	-7.934	-6.368	1.587	2.38
29	M79	Y	-6.368	-4.805	2.38	3.173
30	M79	Y	-4.805	-2.158	3.173	3.967

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	M31	Y	-4.443	-8.565	0	.793
2	M31	Υ	-8.565	-11.35	.793	1.586
3	M31	Y	-11.35	-14.656	1,586	2.379
4	M31	Y	-14.656	-14.098	2.379	3.172
5	M31	Y	-14.098	-7.817	3.172	3.965
6	M32	Y	-7.858	-14.264	0	.793
7	M32	Υ	-14.264	-14.972	.793	1.587
8	M32	Y	-14.972	-12.019	1.587	2.38
9	M32	Y	-12,019	-9.066	2.38	3.173
10	M32	Y	-9.066	-4.075	3.173	3.967
11	M53	Y	-4.443	-8.565	0	.793
12	M53	Υ	-8.565	-11.35	.793	1.586
13	M53	Υ	-11.35	-14.656	1.586	2.379
14	M53	Y	-14.656	-14.098	2.379	3.172
15	M53	Υ	-14.098	-7.817	3.172	3.965
16	M54	Y	-7.858	-14.264	0	.793
17	M54	Y	-14.264	-14.972	.793	1.587
18	M54	Y	-14.972	-12.019	1.587	2.38
19	M54	Y	-12.019	-9.066	2.38	3.173
20	M54	Y	-9.066	-4.075	3.173	3.967
21	M78	Y	-4.451	-8,569	0	.793
22	M78	Y	-8,569	-11.351	.793	1.586
23	M78	Y	-11.351	-14.656	1.586	2.379
24	M78	Y	-14.656	-14.097	2.379	3.172
25	M78	Y	-14.097	-7.818	3.172	3.965
26	M79	Y	-7.875	-14.27	0	.793



# Member Distributed Loads (BLC 88 : BLC 40 Transient Area Loads) (Continued)

	Member Label	Direction	Start Magnitude[lb/ft	End Magnitude[ib/ft,F	. Start Location[ft.%]	End Location[ft,%]
27	M79	Y	-14.27	-14.965	.793	1.587
2!	M79	Y	-14.965	-12.011	1.587	2.38
28	M79	V	-12.011	-9.062	2.38	3.173
29 30	M79	Y	-9.062	-4.07	3.173	3.967

# Member Distributed Loads (BLC 89 : BLC 84 Transient Area Loads)

	er Distributed Lo	Direction	Start Magnitude(lb/ft	.End Magnitude[lb/ft,F.,	Start Location[ft,%]	End Location[ft.%]
4	Member Label M31	Y	~.097	188	0	.793
1		Y	188	249	.793	1.586
2	M31	Y	249	321	1.586	2.379
3	M31	Y	321	309	2.379	3.172
4	M31	Y	309	171	3.172	3.965
5	M31	Y	172	313	0	.793
6	M32	Y	313	328	.793	1.587
7	M32	Y	313	263	1.587	2.38
8	M32		263	199	2.38	3.173
9	M32	Y		089	3.173	3.967
10	M32	Y	199	188	0	.793
11	M53	Y	097	249	.793	1.586
12	M53	Y	188	321	1,586	2.379
13	M53	Y	249		2.379	3.172
14	M53	Y	-,321	309	3.172	3.965
15	M53	Y	309	171	0	.793
16	M54	Υ	172	313	.793	1.587
17	M54	Y	313	328		2.38
18	M54	Y	328	263	1.587	3.173
19	M54	Υ	263	199	2.38	
20	M54	Y	- 199	089	3.173	3.967
21	M78	Y	098	188	0	.793
22	M78	Υ	188	-,249	.793	1.586
23	M78	Y	249	321	1.586	2.379
24	M78	Y	321	309	2.379	3.172
25	M78	Y	309	171	3.172	3.965
26	M79	Y	173	313	0	.793
27	M79	Y	313	328	.793	1.587
28	M79	Ý	328	263	1.587	2.38
	M79	Ý	263	199	2.38	3.173
30	M79	Y	199	089	3.173	3.967

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

	Member Label	Direction		End Magnitude[lb/ft,F	Start Location[ft.%]	End Location[ft.%]
4	M31	7	244	47	0	.793
-		7	47	623	793	1.586
2	M31	7	623	804	1.586	2.379
3	M31	7	804	773	2.379	3.172
4	M31	7	773	429	3,172	3.965
5	M31		431	782	0	.793
6	M32		782	821	.793	1.587
7	M32			659	1.587	2.38
8	M32	Z	821	497	2.38	3.173
9	M32		659		3.173	3.967
10	M32	Z	497	224	0	.793
11	M53	Z	244	47		1.586
12	M53	Z	47	623	.793	
13	M53	Z	623	804	1.586	2.379
14	M53	Z	804	773	2.379	3.172
15	M53	Z	773	429	3.172	3.965
16	M54	7	431	782	0	.793



### 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,%]
17	M54	Z	782	821	.793	1.587
18	M54	Z	821	659	1.587	2.38
19	M54	Z	659	497	2.38	3.173
20	M54	Z	497	224	3.173	3.967
21	M78	Z	244	47	0.173	.793
22	M78	Z	47	623	.793	1.586
23	M78	Z	623	804	1.586	2.379
24	M78	Z	804	773	2.379	3.172
25	M78	Z	773	429	3.172	3.965
26	M79	Z	432	783	0.172	.793
27	M79	Z	783	821	.793	1.587
28	M79	Z	821	659	1.587	2.38
29	M79	Z	659	497	2.38	3.173
30	M79	Z	497	223	3.173	3.967

### 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	M31	X	.244	.47	0	.793
2	M31	X	.47	.623	.793	1.586
3	M31	X	.623	.804	1.586	2.379
4	M31	X	.804	.773	2.379	3.172
5	M31	X	.773	.429	3.172	3.965
6	M32	X	.431	.782	0	.793
7	M32	X	.782	.821	.793	1.587
8	M32	X	.821	.659	1.587	2.38
9	M32	X	.659	.497	2.38	3.173
10	M32	X	.497	.224	3.173	3.967
11	M53	X	.244	.47	0.170	.793
12	M53	X	.47	.623	.793	1.586
13	M53	X	.623	.804	1.586	2.379
14	M53	X	.804	.773	2.379	3.172
15	M53	X	.773	.429	3.172	3.965
16	M54	X	.431	.782	0.172	.793
17	M54	X	.782	.821	.793	1.587
18	M54	X	.821	.659	1.587	2.38
19	M54	X	.659	497	2.38	3.173
20	M54	X	.497	.224	3.173	3.967
21	M78	X	.244	.47	0	.793
22	M78	X	.47	.623	.793	1.586
23	M78	X	.623	.804	1.586	2.379
24	M78	X	.804	.773	2.379	3.172
25	M78	X	.773	.429	3.172	3.965
26	M79	X	.432	.783	0	.793
27	M79	X	.783	.821	.793	1.587
28	M79	X	.821	.659	1.587	
29	M79	X	.659	.659	2.38	2.38
30	M79	X	.497	.223	3.173	3.173 3.967

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

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude(ksf)
1	N43	N42	N38	N39	Y	Two Way	005
2	N66	N67	N71	N70	Y	Two Way	005
3	N117	N116A	N121	N122	Y	Two Way	005



Member Area Loads (BLC 40 : Structure Di)

	1. 1. A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
4	Joint A N43	N42	N38	N39	Y	Two Way	01
-	N66	N67	N71	N70	Y	Two Way	01
2	N117	N116A	N121	N122	Y	Two Way	01

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

	Lates A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
4	Joint A	N42	N38	N39	Y	Two Way	000215
1	N43		N71	N70	Y	Two Way	000215
2	N66	N67		N122	Ý	Two Way	000215
3	N117	N116A	N121	IN IZZ		1 WO VVBy	1 .000

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

TOTTIN	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
4	N43	N42	N38	N39	Z	Two Way	000538
<del>_</del> +		N67	N71	N70	Z	Two Way	000538
2	N66 N117	N116A	N121	N122	7	Two Way	000538

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

	Loint R	Joint C	Joint D	Direction	Distribution	Magnitude[ksf
Joint A	Joint B			X	Two Way	.000538
				X	Two Wav	.000538
				X		.000538
	N43 N66 V117	N43 N42 N66 N67	N43         N42         N38           N66         N67         N71	N43         N42         N38         N39           N66         N67         N71         N70	N43         N42         N38         N39         X           N66         N67         N71         N70         X	N43         N42         N38         N39         X         Two Way           N66         N67         N71         N70         X         Two Way

Envelope Joint Reactions

Enve	lope Joir	ii ke	actions											
	Later		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
4 1	Joint	may	878.704		2234.592	17	1167.051	1	4.046	13	1.121	4	.131	4
	N112A		-883.559		754.298	70	-1308.533	7	1.36	70	-1.12	10	203	10
2	1101				2010.808	20		1	665	66	.929	12	986	66
3	N34		926.945			66		7	-2.378	44	962	6	-2.994	24
4			-1091.059		668.155		819.243	1	634	74	1.005	8	3.324	23
5	N62		1129.513					7	-1.908	19	-1.001	2	1.113	74
6			-959.927		691.006		-751.976	1	-1.500	13	-1.001	-	1.110	7
7	Totals:		2889.179		6291.796		2851.347		<b>_</b>	-		+		
8		min	-2889.18	4	2160.105	75	-2851.349							

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

Ope AIS	, 13th 300-	10/. L.	VI D C	100								Suppose and the suppose of the suppo	5615	
Member	Shape	Code C	Loc[ft]	LC	Shear			LC	phi*Pnc [lb]	phi*Pnt [lb]	phi*Mn y	.phi*Mn z	Cb	Eqn
	PIPE 3.0	.130	5.043	17	.048	8.646								H1-1b
		.350	0	16	.089	0						12.01	-	H1-1b
			2.406	14	.044	2.406				106155			-	H1-1b
			0	24	.052	0				106155	12.311		_	H1-1b
		-	547	6	.112	.228	٧	12	61891.815	94500	.984		1	H1-1b
				3	.012	3.965	٧	22	10573.952	22743	.542	1.098	1	H2-1
						0	V	16	10568.342	22743	.542	1.089	1,	H2-1
1277 1742 244 344			_			0	v	17	69325.094	70875	.554	8.859	1	H1-1b
						_	_	-		70875	.554	8.859	1	H1-1b
		-		_	-			50	93979.077	94500	984	11.813	1	H1-1b
						_						8 859	1	H1-1b
			_	_									1	H1-1b
M90A				_									-	H1-1b
M92						-							-	H1-1b
M25	HSS4X4X4											12.011	_	H1-1b
M26	HSS4X4X4	.176	2.406	_									4	
M27	HSS4X4X4	.192	0	14	.056	_	У						4	H1-1b
	PL1/2X6	.172	.547	4	.118	.228	У	18	61891.815	94500	.984	11.813	1	H1-1b
	Member M20 M72A M73 M74 M75 M78 M79 M84 M85 M87A M89A M90A M92 M25	Member         Shape           M20         PIPE 3.0           M72A         HSS4X4X4           M73         HSS4X4X4           M74         HSS4X4X4           M75         PL1/2X6           M78         L2x2x3           M79         L2x2x3           M84         PL3/8x6           M85         PL3/8x6           M87A         PL1/2X6           M89A         PL3/8x6           M90A         PL3/8x6           M92         PL1/2X6           M25         HSS4X4X4           M26         HSS4X4X4           M27         HSS4X4X4	Member         Shape         Code C.           M20         PIPE 3.0         .130           M72A         HSS4X4X4         .350           M73         HSS4X4X4         .182           M74         HSS4X4X4         .190           M75         PL1/2X6         .160           M78         L2x2x3         .109           M79         L2x2x3         .124           M84         PL3/8x6         .114           M85         PL3/8x6         .075           M87A         PL1/2X6         .053           M89A         PL3/8x6         .071           M92         PL1/2X6         .048           M25         HSS4X4X4         .316           M26         HSS4X4X4         .176           M27         HSS4X4X4         .192	Member         Shape         Code C Loc[ft]           M20         PIPE 3.0         .130         5.043           M72A         HSS4X4X4         .350         0           M73         HSS4X4X4         .182         2.406           M74         HSS4X4X4         .190         0           M75         PL1/2X6         .160         .547           M78         L2x2x3         .109         3.965           M79         L2x2x3         .124         0           M84         PL3/8x6         .114         0           M85         PL3/8x6         .075         0           M87A         PL1/2X6         .053         .125           M89A         PL3/8x6         .071         0           M90A         PL3/8x6         .071         0           M92         PL1/2X6         .048         .125           M25         HSS4X4X4         .316         0           M26         HSS4X4X4         .192         0           M27         HSS4X4X4         .192         0	Member         Shape         Code C Loc[ft]         LC           M20         PIPE 3.0         .130         5.043         17           M72A         HSS4X4X4         .350         0         16           M73         HSS4X4X4         .182         2.406         14           M74         HSS4X4X4         .190         0         24           M75         PL1/2X6         .160         .547         6           M78         L2x2x3         .109         3.965         3           M79         L2x2x3         .124         0         11           M84         PL3/8x6         .114         0         4           M85         PL3/8x6         .075         0         4           M87A         PL1/2X6         .053         .125         5           M89A         PL3/8x6         .115         0         4           M90A         PL3/8x6         .071         0         10           M92         PL1/2X6         .048         .125         9           M25         HSS4X4X4         .316         0         18           M26         HSS4X4X4         .176         2.406         16 <tr< td=""><td>Member         Shape         Code C Loc[ft]         LC Shear           M20         PIPE 3.0         .130         5.043         17         .048           M72A         HSS4X4X4         .350         0         16         .089           M73         HSS4X4X4         .182         2.406         14         .044           M74         HSS4X4X4         .190         0         24         .052           M75         PL1/2X6         .160         .547         6         .112           M78         L2x2x3         .109         3.965         3         .012           M79         L2x2x3         .124         0         11         .012           M84         PL3/8x6         .114         0         4         .090           M85         PL3/8x6         .075         0         4         .091           M87A         PL1/2X6         .053         .125         5         .014           M89A         PL3/8x6         .115         0         4         .170           M90A         PL3/8x6         .071         0         10         .085           M92         PL1/2X6         .048         .125         9</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Loc[ft]           M20         PIPE 3.0         .130         5.043         17         .048         8.646           M72A         HSS4X4X4         .350         0         16         .089         0           M73         HSS4X4X4         .182         2.406         14         .044         2.406           M74         HSS4X4X4         .190         0         24         .052         0           M75         PL1/2X6         .160         .547         6         .112         .228           M78         L2x2x3         .109         3.965         3         .012         3.965           M79         L2x2x3         .124         0         11         .012         0           M84         PL3/8x6         .114         0         4         .090         0           M85         PL3/8x6         .075         0         4         .091         0           M87A         PL1/2X6         .053         .125         5         .014         .125           M89A         PL3/8x6         .071         0         10         .085         0      <tr< td=""><td>Member         Shape         Code C.         Loc[ft]         LC         Shear         Loc[ft]         Dir           M20         PIPE 3.0         .130         5.043         17         .048         8.646           M72A         HSS4X4X4         .350         0         16         .089         0         y           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y           M74         HSS4X4X4         .190         0         24         .052         0         y           M75         PL1/2X6         .160         .547         6         .112         .228         y           M78         L2x2x3         .109         3.965         3         .012         3.965         y           M79         L2x2x3         .124         0         11         .012         0         y           M84         PL3/8x6         .114         0         4         .090         0         y           M87A         PL1/2X6         .053         .125         5         .014         .125         y           M89A         PL3/8x6         .115         0         4         .170         <t< td=""><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13           M72A         HSS4X4X4         .350         0         16         .089         0         y 22           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21           M74         HSS4X4X4         .190         0         24         .052         0         y 17           M75         PL1/2X6         .160         .547         6         .112         .228         y 12           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22           M79         L2x2x3         .124         0         11         .012         0         y 16           M84         PL3/8x6         .114         0         4         .090         0         y 17           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50           M89A         PL3/8x6         .115         0         4         .170         &lt;</td><td>M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342           M84         PL3/8x6         .114         0         4         .090         0         y 17 69325.094           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50 93979.077           M89A         PL3/8x6         .115         0         4         .170         0         y 21 69647.547</td><td>Member         Shape         Code C Loc[ft]         LC         Shear Loc[ft]         Lic phi*Pnc [lb] phi*Pnt [lb]           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743           M84         PL3/8x6         .114         0         4         .090         0         y 17 69647.547         70875           M87A         PL1/2X6         .053</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155         12.311           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500         .984           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743         .542           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743         .542           M84         PL3/8x6         .114         0         4         .090</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn yphi*Mn y</td><td>Member         Shape         Code C Loc[ft]         LC         Shear         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y phi*Mn z Cb           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749         5.749         2           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311         12.311         3           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7         106155         12.311         12.311         1           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311         12.311         1           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815         94500         .984         11.813         1           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952         22743         .542         1.098         1</td></t<></td></tr<></td></tr<>	Member         Shape         Code C Loc[ft]         LC Shear           M20         PIPE 3.0         .130         5.043         17         .048           M72A         HSS4X4X4         .350         0         16         .089           M73         HSS4X4X4         .182         2.406         14         .044           M74         HSS4X4X4         .190         0         24         .052           M75         PL1/2X6         .160         .547         6         .112           M78         L2x2x3         .109         3.965         3         .012           M79         L2x2x3         .124         0         11         .012           M84         PL3/8x6         .114         0         4         .090           M85         PL3/8x6         .075         0         4         .091           M87A         PL1/2X6         .053         .125         5         .014           M89A         PL3/8x6         .115         0         4         .170           M90A         PL3/8x6         .071         0         10         .085           M92         PL1/2X6         .048         .125         9	Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Loc[ft]           M20         PIPE 3.0         .130         5.043         17         .048         8.646           M72A         HSS4X4X4         .350         0         16         .089         0           M73         HSS4X4X4         .182         2.406         14         .044         2.406           M74         HSS4X4X4         .190         0         24         .052         0           M75         PL1/2X6         .160         .547         6         .112         .228           M78         L2x2x3         .109         3.965         3         .012         3.965           M79         L2x2x3         .124         0         11         .012         0           M84         PL3/8x6         .114         0         4         .090         0           M85         PL3/8x6         .075         0         4         .091         0           M87A         PL1/2X6         .053         .125         5         .014         .125           M89A         PL3/8x6         .071         0         10         .085         0 <tr< td=""><td>Member         Shape         Code C.         Loc[ft]         LC         Shear         Loc[ft]         Dir           M20         PIPE 3.0         .130         5.043         17         .048         8.646           M72A         HSS4X4X4         .350         0         16         .089         0         y           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y           M74         HSS4X4X4         .190         0         24         .052         0         y           M75         PL1/2X6         .160         .547         6         .112         .228         y           M78         L2x2x3         .109         3.965         3         .012         3.965         y           M79         L2x2x3         .124         0         11         .012         0         y           M84         PL3/8x6         .114         0         4         .090         0         y           M87A         PL1/2X6         .053         .125         5         .014         .125         y           M89A         PL3/8x6         .115         0         4         .170         <t< td=""><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13           M72A         HSS4X4X4         .350         0         16         .089         0         y 22           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21           M74         HSS4X4X4         .190         0         24         .052         0         y 17           M75         PL1/2X6         .160         .547         6         .112         .228         y 12           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22           M79         L2x2x3         .124         0         11         .012         0         y 16           M84         PL3/8x6         .114         0         4         .090         0         y 17           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50           M89A         PL3/8x6         .115         0         4         .170         &lt;</td><td>M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342           M84         PL3/8x6         .114         0         4         .090         0         y 17 69325.094           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50 93979.077           M89A         PL3/8x6         .115         0         4         .170         0         y 21 69647.547</td><td>Member         Shape         Code C Loc[ft]         LC         Shear Loc[ft]         Lic phi*Pnc [lb] phi*Pnt [lb]           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743           M84         PL3/8x6         .114         0         4         .090         0         y 17 69647.547         70875           M87A         PL1/2X6         .053</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155         12.311           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500         .984           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743         .542           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743         .542           M84         PL3/8x6         .114         0         4         .090</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn yphi*Mn y</td><td>Member         Shape         Code C Loc[ft]         LC         Shear         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y phi*Mn z Cb           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749         5.749         2           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311         12.311         3           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7         106155         12.311         12.311         1           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311         12.311         1           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815         94500         .984         11.813         1           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952         22743         .542         1.098         1</td></t<></td></tr<>	Member         Shape         Code C.         Loc[ft]         LC         Shear         Loc[ft]         Dir           M20         PIPE 3.0         .130         5.043         17         .048         8.646           M72A         HSS4X4X4         .350         0         16         .089         0         y           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y           M74         HSS4X4X4         .190         0         24         .052         0         y           M75         PL1/2X6         .160         .547         6         .112         .228         y           M78         L2x2x3         .109         3.965         3         .012         3.965         y           M79         L2x2x3         .124         0         11         .012         0         y           M84         PL3/8x6         .114         0         4         .090         0         y           M87A         PL1/2X6         .053         .125         5         .014         .125         y           M89A         PL3/8x6         .115         0         4         .170 <t< td=""><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13           M72A         HSS4X4X4         .350         0         16         .089         0         y 22           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21           M74         HSS4X4X4         .190         0         24         .052         0         y 17           M75         PL1/2X6         .160         .547         6         .112         .228         y 12           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22           M79         L2x2x3         .124         0         11         .012         0         y 16           M84         PL3/8x6         .114         0         4         .090         0         y 17           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50           M89A         PL3/8x6         .115         0         4         .170         &lt;</td><td>M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342           M84         PL3/8x6         .114         0         4         .090         0         y 17 69325.094           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50 93979.077           M89A         PL3/8x6         .115         0         4         .170         0         y 21 69647.547</td><td>Member         Shape         Code C Loc[ft]         LC         Shear Loc[ft]         Lic phi*Pnc [lb] phi*Pnt [lb]           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743           M84         PL3/8x6         .114         0         4         .090         0         y 17 69647.547         70875           M87A         PL1/2X6         .053</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155         12.311           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500         .984           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743         .542           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743         .542           M84         PL3/8x6         .114         0         4         .090</td><td>Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn yphi*Mn y</td><td>Member         Shape         Code C Loc[ft]         LC         Shear         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y phi*Mn z Cb           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749         5.749         2           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311         12.311         3           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7         106155         12.311         12.311         1           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311         12.311         1           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815         94500         .984         11.813         1           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952         22743         .542         1.098         1</td></t<>	Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13           M72A         HSS4X4X4         .350         0         16         .089         0         y 22           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21           M74         HSS4X4X4         .190         0         24         .052         0         y 17           M75         PL1/2X6         .160         .547         6         .112         .228         y 12           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22           M79         L2x2x3         .124         0         11         .012         0         y 16           M84         PL3/8x6         .114         0         4         .090         0         y 17           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50           M89A         PL3/8x6         .115         0         4         .170         <	M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342           M84         PL3/8x6         .114         0         4         .090         0         y 17 69325.094           M87A         PL1/2X6         .053         .125         5         .014         .125         y 50 93979.077           M89A         PL3/8x6         .115         0         4         .170         0         y 21 69647.547	Member         Shape         Code C Loc[ft]         LC         Shear Loc[ft]         Lic phi*Pnc [lb] phi*Pnt [lb]           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743           M84         PL3/8x6         .114         0         4         .090         0         y 17 69647.547         70875           M87A         PL1/2X6         .053	Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311           M73         HSS4X4X4         .182         2.406         14         .044         2.406 y 21 104215.7         106155         12.311           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311           M75         PL1/2X6         .160         .547         6         .112         .228 y 12 61891.815         94500         .984           M78         L2x2x3         .109         3.965         3         .012         3.965 y 22 10573.952         22743         .542           M79         L2x2x3         .124         0         11         .012         0         y 16 10568.342         22743         .542           M84         PL3/8x6         .114         0         4         .090	Member         Shape         Code C Loc[ft]         LC Shear Loc[ft]         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn yphi*Mn y	Member         Shape         Code C Loc[ft]         LC         Shear         Loc[ft]         Dir LC phi*Pnc [lb] phi*Pnt [lb] phi*Mn y phi*Mn z Cb           M20         PIPE 3.0         .130         5.043         17         .048         8.646         13 23365.174         65205         5.749         5.749         2           M72A         HSS4X4X4         .350         0         16         .089         0         y 22 98544.541         106155         12.311         12.311         3           M73         HSS4X4X4         .182         2.406         14         .044         2.406         y 21 104215.7         106155         12.311         12.311         1           M74         HSS4X4X4         .190         0         24         .052         0         y 17 104215.7         106155         12.311         12.311         1           M75         PL1/2X6         .160         .547         6         .112         .228         y 12 61891.815         94500         .984         11.813         1           M78         L2x2x3         .109         3.965         3         .012         3.965         y 22 10573.952         22743         .542         1.098         1

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

	Member	Shape	Code C.	Locifti		Shear				phi*Pnc [lb]		l obi*Mn v	.phi*Mn zCb Ean
18	M31	L2x2x3	.114	3.965		.012	3.965	V		10573.952	22743	.542	.phi*Mn zCb Eqn 1.069 1 H2-1
19	M32	L2x2x3	.128	0	8	.012	0			10568.342	22743	.542	1.068 1 H2-1
20	M37	PL3/8x6	.117	0	12	.130	0	v	-	69325.094	70875	.554	8.859 1 H1-1b
21	M38	PL3/8x6	.075	0	12	.091	0	v	15	69647.547	70875	.554	8.859 1 H1-1b
22	M40	PL1/2X6	.048	.125	1	.079	0	v		93979.077	94500	.984	11.813 1 H1-1b
23	M42	PL3/8x6	.099	0	12	.180	0	v		69325.094	70875	.554	8.859 2 H1-1b
24	M43	PL3/8x6	.065	.167	4	.081	0	v	_	69647.547	70875	.554	8.859 1 H1-1b
25	M45	PL1/2X6	.045	.125	5	.033	.125	v		93979.077	94500	.984	11.813 1 Н1-1Ь
26	M47	HSS4X4X4	.336	0	14	.104	0	v	-	98544.541	106155	12.311	12.311 3 H1-1b
27	M48	HSS4X4X4	.186	2.406	18	.045	2.406	v	24	104215.7	106155	12.311	12.311 1 H1-1b
28	M49	HSS4X4X4	.186	0	16	.046	0	v	22	104215.7	106155	12.311	12.311 1 H1-1b
29	M50	PL1/2X6	.177	.547	10	.096	.547	v		61891.815	94500	.984	11.813 1 H1-1b
30	M53	L2x2x3	.117	3.965	6	.012	3.965	v	14	10573.952	22743	.542	1.069 1 H2-1
31	M54	L2x2x3	.128	0	4	.011	0	V	20	10568,342	22743	.542	1.068 1 H2-1
32	M59	PL3/8x6	.114	0	8	.150	0			69325.094	70875	.554	8.859 1 H1-1b
33	M60	PL3/8x6	.079	0	8	.085	0	v	23	69647.547	70875	.554	8.859 1 H1-1b
34	M62	PL1/2X6	.056	.125	9	.018	0	v	16	93979.077	94500	.984	11.813 1 H1-1b
35	M64	PL3/8x6	.108	0	8	.169	0	v		69325.094	70875	.554	8.859 2 H1-1b
36	M65	PL3/8x6	.076	0	2	.086	0		_	69647.547	70875	.554	8.859 1 H1-1b
37	M67	PL1/2X6	.046	.125	1	.016	0	v	30	93979.077	94500	.984	11.813 1 H1-1b
38	M68	PIPE 3.0	.127	5.312	13	.054	5.312		22	22278.571	65205	5.749	5.749 2 H1-1b
39	M69	PIPE 3.0	.136	4.983	21	.058	6.833			23938.531	65205	5.749	5.749 2 H1-1b
40	MP4A	PIPE 2.0	.158	2.625	50	.037	.688		50	20866.733	32130	1.872	1.872 4 H1-1b
41	MP3A	PIPE 2.0	.149	2.625	14	.049	2.625		18	20866.733	32130	1.872	1.872 4 H1-1b
42	MP2A	PIPE 2.5	.134	2.625	1	.032	4.063			37773.818	50715	3.596	3.596 2. H1-1b
43	MP1A	PIPE 2.0	.222	2.625	24	.047	2.625		24	20866.733	32130	1.872	1.872 4 H1-1b
44	MP4C	PIPE 2.0	.106	2.688	9	.019	2.688			20866.733	32130	1.872	1.872 1 H1-1b
45	MP3C	PIPE 2.0	.222	2.625	22	.090	2.625		14	20866.733	32130	1.872	1.872 4 H1-1b
46	MP2C	PIPE 2.5	.121	2.688	10	.033	.938		6	37773.818	50715	3.596	3.596 1 H1-1b
47	MP1C	PIPE 2.0	.229	2.625	21	.048	2		15	20866.733	32130	1.872	1.872 1 H1-1b
48	MP4B	PIPE 2.0	.129	2.625	18	.030	.938		9	20866.733	32130	1.872	1.872 1 H1-1b
49	MP3B	PIPE 2.0	.154	2.625	18	.061	2.625			20866.733	32130	1.872	1.872 2 H1-1b
50	MP2B	PIPE 2.5	.116	2.625	5	.033	2.688		2	37773.818	50715	3.596	3.596 1 H1-1b
51	MP1B	PIPE 2.0	.237	2.625	15	.055	1.938		24	20866.733	32130	1.872	1.872 3 H1-1b
52	OVP	PIPE 2.0	.145	3.5	2	.012	3.5			26521.424	32130	1.872	1.872 1 H1-1b
53	M118	L3X3X4	.051	0	14	.025	0	V	50	45284.759	46656	1.688	3.756 1 H2-1
54	M119	L3X3X4	.074	0	18	.007	1.16	v	18	45284.759	46656	1.688	3.756 1 H2-1
55	M120	L3X3X4	.097	0	23	.023	0			45284.375	46656	1.688	3.756 1 H2-1
56	M119A	PIPE 2.5	100		22		6.667	_		12795.813	50715	3.596	3.596 2 H1-1b
57	M120A	PIPE 2.5	.105	6.528	18	.044	.972		14	12795.813	50715	3.596	3.596 1 H1-1b
58	M121	PIPE 2.5	.110		14		6.667		20	12795.813	50715	3.596	3.596 2 H1-1b



Client:	Verizon Wireless	Date:	7/6/2023
Site Name:	WATERBURY EAST CT		
MDG #:	5000382125		
Fuze ID #:	17041976	Page:	11
			Version 1.01

### I. Mount-to-Tower Connection Check

Custom Orientation Required	No
Tower Connection Bolt Checks	Yes

### **Bolt Orientation**

Bolt Quantity per Reaction:  $d_x$  (in) (Delta X of typ. bolt config. sketch):  $d_y$  (in) (Delta Y of typ. bolt config. sketch): Bolt Type:

Bolt Diameter (in):

Required Tensile Strength / bolt (kips): Required Shear Strength / bolt (kips): Tensile Capacity / bolt (kips): Shear Capacity / bolt (kips): Bolt Overall Utilization:

Tower Connection	Baseplate Checks	5

Connecting Standoff Member Shape: Weld Stiffener Configuration:

Plate Width,  $D_x$  (in):

Plate Height,  $D_y$  (in):

W1(in):

W2 (in):

Member Thickness (in):

Stiffener location  $a_1$  (in):

Stiffener location  $b_1$  (in):

Stiffener location  $a_2$  (in):

Stiffener location b<sub>2</sub> (in):

F<sub>y</sub> (ksi, plate):

Plate Thickness (in):

Length of Yield Line,  $L_{\gamma}$  (in):

Bolt Eccentricity, e (in):

M<sub>u</sub> (kip-in):

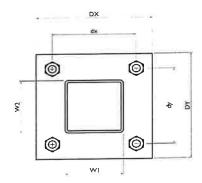
Phi\*M<sub>n</sub> (kip-in):

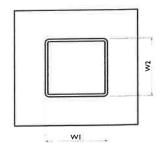
Plate Bending Utilization:

Parallel	
4	
7	
7	
A325N	
0.625	
3.6	
0.6	
20.7	
12.4	
17.6%	

Yes

Rect Tube
No Stiffeners
10
10
4
4
0.25
20 20 20 20 20 20 20 20 20 20 20 20 20 2
36
0.5
7.75
2.35
8.58
15.69
54.7%





### VzW SMART Tool® Vendor

Verizon Wireless	Date:	7/6/2023
WATERBURY EAST CT		
5000382125		
17041976	Page:	2
	WATERBURY EAST CT 5000382125	WATERBURY EAST CT 5000382125

Version 1.01

### Tower Connection Weld Checks

Weld Shape:

Weld Stiffener Configuration: Weld Size (1/16 in): W1 (in):

W2 (in):

Weld Total Length (in): Z<sub>x</sub> (in<sup>3</sup>/in):

 $Z_y$  (in<sup>3</sup>/in):

J<sub>p</sub> (in<sup>4</sup>/in):

c<sub>x</sub> (in)

c<sub>y</sub> (in)

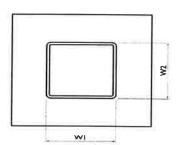
Required combined strength (kip/in):

Weld Capacity (kip/in):

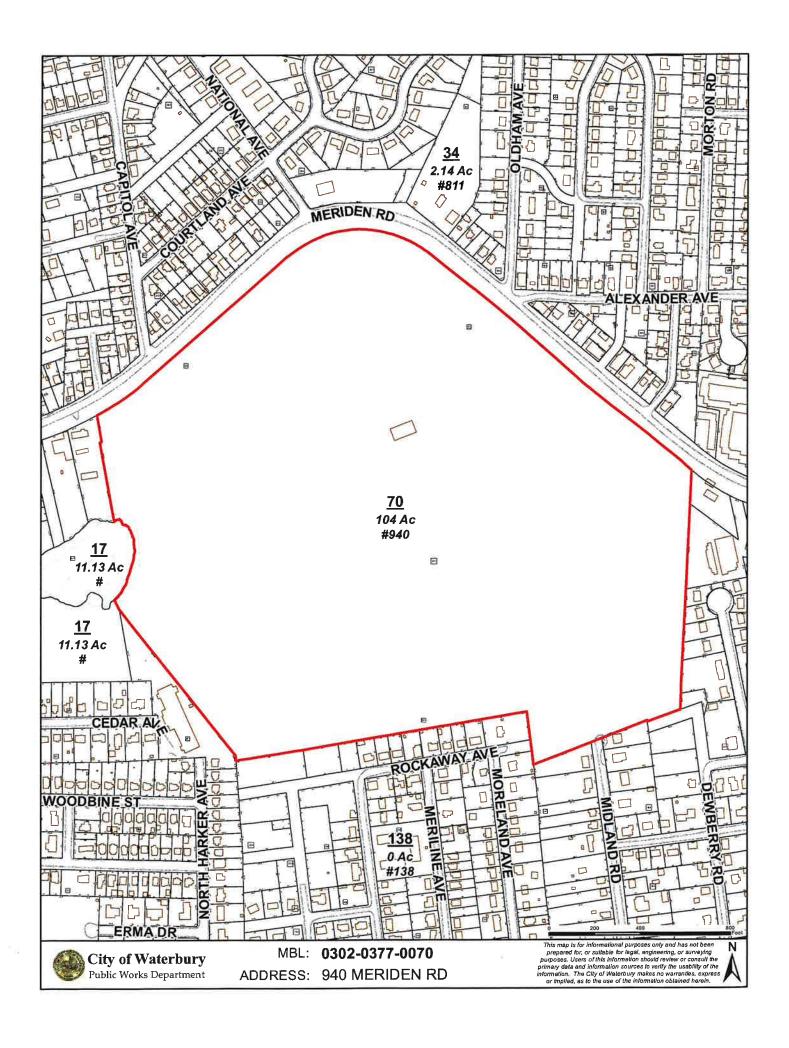
Weld Utilization:

Rectangle	
None	
4	
4	
4	
16.00	
21.33	
21.33	
85.33	
2.25	
2.25	
1.62	
5.57	
29.0%	

Yes



# **ATTACHMENT 4**



# City of Waterbury G.I.S.

Home

Search

Maps

Downloads

**GIS Site** 

Help

Property Search

City Wide Maps

**GIS Data Download** 

Live GIS Mapping Sites

Links

Location: 940 MERIDEN RD Owner: PINE GROVE CEMETERY Print Info

ASSOCIATION Assessor Info

Building Info

Property Value

Sales History

Permit Info

Property Maps

eQuality Site

0302-0377-0070 Map Block Lot:

Church - Sanctuary (Chapel) Primary Use:

71000-Exempt

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Acres: Zone:

Neighborhood:

PINE GROVE CEMETERY ASSOCIATION 850 MERIDEN RD WATERBURY, CT 067050000 Mailing Address:

Come Home to Downtown: No

**Eligible Programs:** New Market Tax Credit: Yes Opportunity Zone: No

Back

# **ATTACHMENT 5**

### **Certificate of Mailing — Firm**

lame and Address of Sender	TOTAL NO. of Pieces Listed by Sender of Pieces Received at Post O	Affix Stamp Here  Postmark with Date of Rece	ipt.	
Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103	Postmaster, per (name of receiving employee)	neop		03
USPS <sup>®</sup> Tracking Number Firm-specific Identifier	Address (Name, Streek, City, State, and ZIP Code™)	Postage	Fee Special Handling	Parcel Airlift
3.	Neil O'Leary, Mayor City of Waterbury  235 Grand Street Waterbury, CT 06702 Robert Nerney, City Planner City of Waterbury  185 Jefferson Street, 5th Floor Waterbury, CT 06702 Pine Group Cemetery Association 850 Meriden Road Waterbury, CT 06705	The state of the s		
5.				
S.				
l				