John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

November 22, 2021

Melanie A. Bachman
Acting Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RE: Notice of Exempt Modification // Site: ATLAS CONTAINER (ATC: 383657)
119 Empire Ave., Meriden, CT 06450
N 41.57305556 // W 72.77916667

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless currently maintains 15 antennas at the 125-ft level on the existing 130-foot Monopole tower, located at 119 Empire Ave., Meriden, CT. The tower is owned by American Tower. The tower was originally approved by the Council in 1998. Verizon Wireless now intends to install Three (3) new antenna for the LTE (3700 MHz) replacements for its 5G upgrade. Additionally, Verizon Wireless intends to add Three (3) RRH's; altogether updating leased equipment rights, as reflected by the final configuration outlined in the structural analysis and proposed hereby.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies §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 Kevin Scarpati, Mayor, Building Officer, Thomas Lozier, and 119 Empire Avenue LLC, the Property owner.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2). Enclosed to accommodate this filing are construction drawings dated November 12, 2021 by Dewberry Engineers Inc., a structural analysis dated October 1, 2021 by CLS Engineering PLLC, and a structural mount analysis by Maser Consulting Connecticut date October 5, 2021, and radio frequency (RF) analysis table showing worst-case RF emission calculation by Verizon Wireless RF Design Engineering.

1. The proposed modifications will not result in an increase in the height of the existing structure.

2. The proposed modifications 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 operation of the new antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.

5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.

6. The existing structure and its foundation can support the proposed loading, as shown in the attached structural analysis by CLS Engineering PLLC., dated October 1, 2021 and a structural mount analysis by Maser Consulting Connecticut, dated October 5, 2021, pursuant to certain conditions defined therein. Design and engineering is fully illustrated within final construction drawings, signed and stamped dated November 12, 2021.

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

Sincerely,

John Coleman

_____

John Coleman, Project Manager
c/o Cellco Partnership d/b/a Verizon Wireless
Centerline Communications, LLC
750 West Center Street, Floor 3
West Bridgewater, MA 02379
Mobile: (240) 615 -7389
JColeman@clinellc.com

Attachments

cc: Kevin Scarpati, Mayor - as chief elected official
Thomas Lozier, Building Officer - as P&Z official
119 Empire Avenue LLC - as Property owner

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed label at the solid line below.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

   Customers without a Daily Pickup
   Take your package to any location of The UPS Store®, UPS Access Point(TM) location, UPS Drop Box, UPS Customer Center, Staples® or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.
   Schedule a same day or future day Pickup to have a UPS driver pickup all your CampusShip packages.
   Hand the package to any UPS driver in your area.

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NORTH EASTON ,MA 02356

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1267 MAIN ST
BROCKTON ,MA 02301

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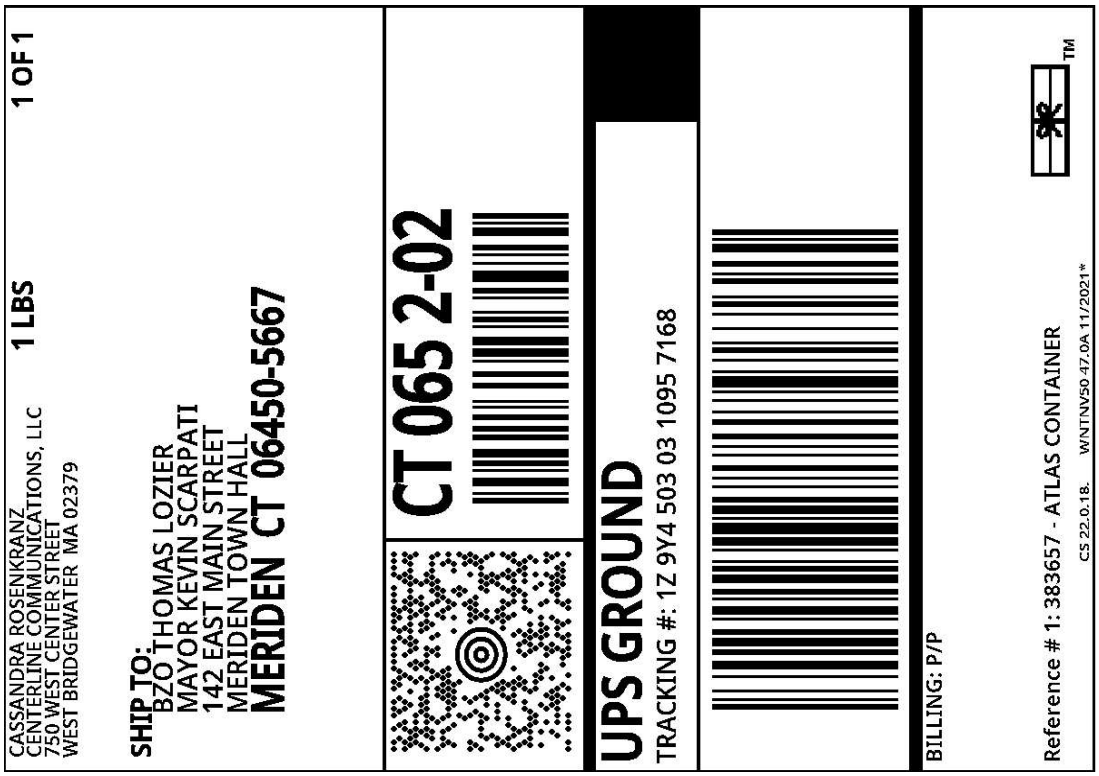

From: UPS
To: John Coleman
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030310957168
Date: Wednesday, November 24, 2021 2:18:22 PM

Hello, your package has been delivered.

Delivery Date: Wednesday, 11/24/2021

Delivery Time: 1:11 PM

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030310957168
Ship To:	MAYOR KEVIN SCARPATI MERIDEN TOWN HALL 142 EAST MAIN STREET MERIDEN, CT 064505667 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	383657 - ATLAS CONTAINER

Download the UPS mobile app

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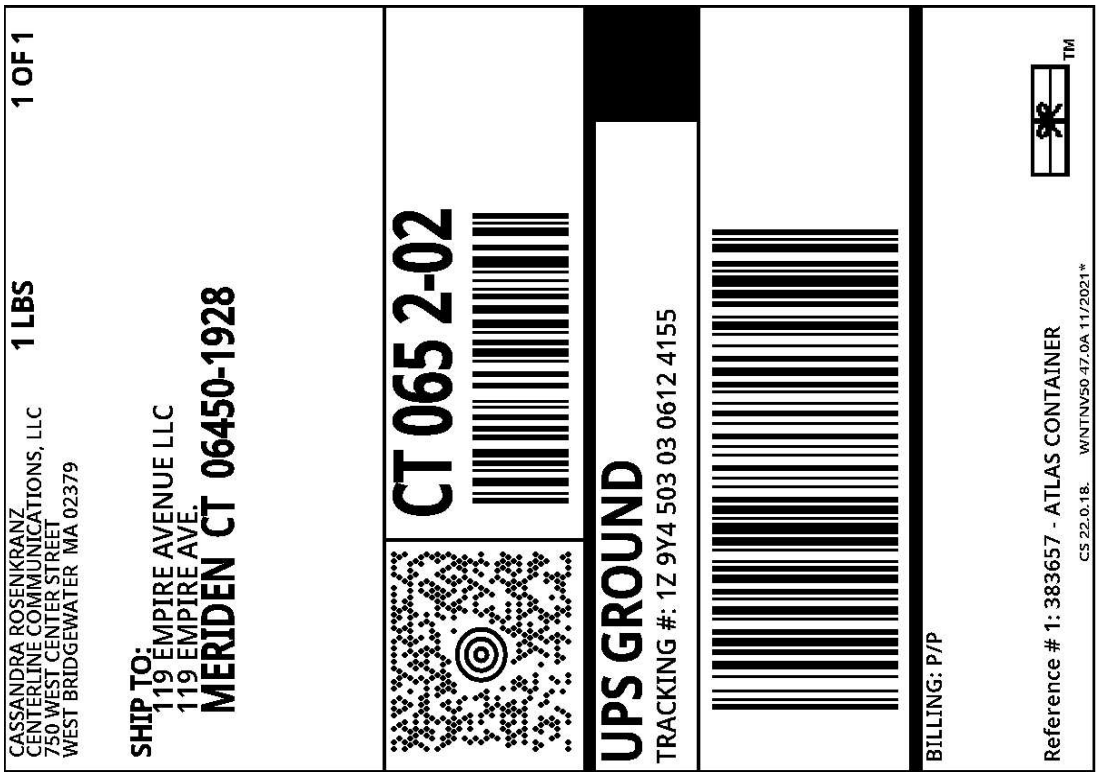


From: UPS
To: John Coleman
Subject: UPS Delivery Notification, Tracking Number 1Z9Y45030306124155
Date: Tuesday, November 23, 2021 10:27:54 AM

Hello, your package has been delivered.

Delivery Date: Tuesday, 11/23/2021
Delivery Time: 10:26 AM
Left At: DOCK
Signed by: KENOPKA

CENTERLINE SITE ACQUISITION

Tracking Number:	1Z9Y45030306124155
Ship To:	119 EMPIRE AVENUE LLC 119 EMPIRE AVE. MERIDEN, CT 064501928 US
Number of Packages:	1
UPS Service:	UPS Ground
Package Weight:	1.0 LBS
Reference Number:	383657 - ATLAS CONTAINER

Download the UPS mobile app

From: Donna Ripley
To: John Coleman
Cc: Paul Dickson
Subject: Scans of approvals for 119 Empire Avenue, Meriden, CT
Date: Thursday, November 18, 2021 4:19:35 PM
Attachments: image.png
Outlook-ol0qc3hk.png
3609_211118171007_001.pdf

Good afternoon,

Thank you for contacting the Meriden Planning Office regarding approvals at 119 Empire Avenue.

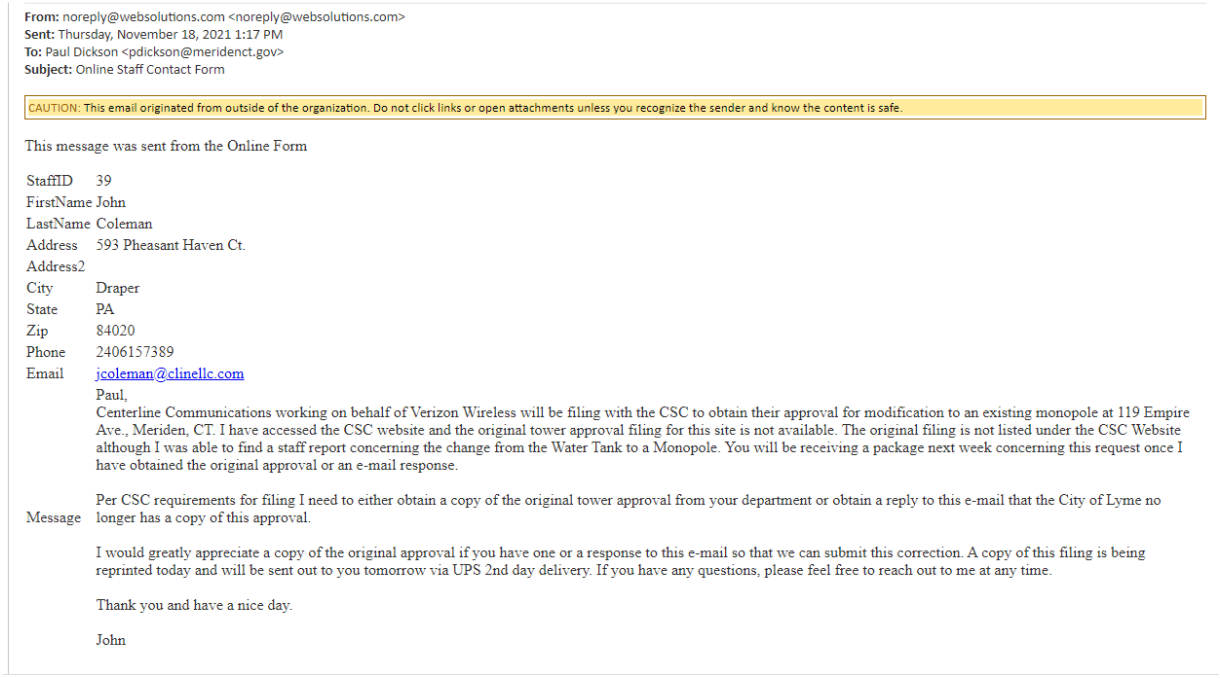
Please see attached the earliest Planning Commission and ZBA approvals in our files that reference both the water tower and the cell antennae, as well as the cover letter for the 1998 application and page from the ZBA meeting minutes.

If this is not what you are looking for, please let me know.

Best regards,

Donna Ripley
City of Meriden
Clerk III
Department of Planning, Development & Enforcement
142 East Main Street, Meriden, CT 06450
203-630-4081
dripley@meridenct.gov
https://link.edgepilot.com/s/7d286963/HaJninvsNUmGEibZb5T_dQ?u=http://www.meridenct.gov/

ORIGINAL MESSAGE:



From: noreply@websolutions.com <noreply@websolutions.com>
Sent: Thursday, November 18, 2021 1:17 PM
To: Paul Dickson <pdickson@meridenct.gov>
Subject: Online Staff Contact Form

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

This message was sent from the Online Form

StaffID	39
FirstName	John
LastName	Coleman
Address	593 Pheasant Haven Ct.
Address2	
City	Draper
State	PA
Zip	84020
Phone	2406157389
Email	jcoleman@clinellc.com
Message	Paul, Centerline Communications working on behalf of Verizon Wireless will be filing with the CSC to obtain their approval for modification to an existing monopole at 119 Empire Ave., Meriden, CT. I have accessed the CSC website and the original tower approval filing for this site is not available. The original filing is not listed under the CSC Website although I was able to find a staff report concerning the change from the Water Tank to a Monopole. You will be receiving a package next week concerning this request once I have obtained the original approval or an e-mail response. Per CSC requirements for filing I need to either obtain a copy of the original tower approval from your department or obtain a reply to this e-mail that the City of Lyme no longer has a copy of this approval. I would greatly appreciate a copy of the original approval if you have one or a response to this e-mail so that we can submit this correction. A copy of this filing is being reprinted today and will be sent out to you tomorrow via UPS 2nd day delivery. If you have any questions, please feel free to reach out to me at any time. Thank you and have a nice day. John

PLANNING

Commission - Division

Tel. (203)630-4081
Fax (203)630-4093

Room 132, City Hall, 142 East Main Street Meriden, CT 06450

December 11, 1998

Mr. Stephen M. Howard
SNET Mobility, Inc.
500 Enterprise Drive
Rocky Hill, Connecticut 06067

RE: Certificate of Approval - 119 Empire Avenue - Springwich Cellular Ltd.

Dear Mr. Howard:

The Planning Commission of the City of Meriden at its regular meeting of December 9, 1998 voted to grant the Certificate of Approval for 12 cellular antennae on the Weyerhaeuser company water tank.

This approval is conditioned upon:

1. Receipt and compliance with revised plans showing:
   a. Note ZBA approval and conditions; and
   b. Note that the prefabricated one-story equipment structure must be of the same color as the main building.

Please note a Building Permit can not be issued until the above mentioned conditions are complied with.

Very truly yours,

Dominick J. Caruso, AICP
DIRECTOR OF DEVELOPMENT AND ENFORCEMENT

DJC/twc

December 4, 1998

Dominick J. Caruso, AICP
Director of Development & Enforcement
City of Meriden
City Hall
142 East Main Street
Room 132
Meriden, CT 06450

RE: Certificate of Approval application of Springwich Cellular Limited Partnership proposing installation of cellular antennas on existing water tank at 119 Empire Avenue, zoned M-2

Dear Mr. Caruso:

Please find attached seven (7) copies of the site plan for the above referenced application. The site plan complies with the recent variance approvals granted, with conditions, by the City of Meriden Zoning Board of Appeals on December 1, 1998 (Appeal #3393).

Please call me at (860) 513-7233 if you require any additional information.

Very truly yours,

Stephen M. Howard

Stephen M. Howard

C: Marjorie Shansky, Esq.

In the opinion of the Board the granting of these Variances would not materially impair the effectiveness of the Zoning Regulations as a whole, (nor) effect the intrinsic values of the neighborhood, (nor) would it be detrimental to the neighborhood or to the public welfare as far as hazards and nuisance are concerned, and is in harmony with the general purpose of the zoning regulations.

Appeal #3393 - Owner Weyerhaeuser Company/Applicant Springwich Cellular Limited Partnership at 119 Empire Avenue requesting a Variance of the permitted uses in an industrial district, a Variance of more than one principal use on a lot in an M-3 zone. **(APPROVED WITH CONDITIONS)**

The Board acknowledged the change in the application to relocate the structure for accessory equipment next to the south side of the water tank into the existing parking lot, thereby eliminating the need for the yard Variance. The applicant withdrew the request for the street side Variance (§213-12.B)

Mr. Raguckas' motion to approve, with condition, the Variance of Section 213-12B to allow cellular facilities in the M-2 district as indicated on the site plan for 119 Empire Avenue was seconded by Mr. DeMayo and unanimously approved. (Hall, Danby, Raguckas, DeMayo)

Mr. Raguckas' motion to approve the Variance of §213-12.2 to allow more than one principal use on a lot was seconded by Mr. DeMayo and unanimously approved. (Hall, Danby, Raguckas, DeMayo)

The hardship for these Variances were that the regulations are silent on this use at locations capable of supporting this use that is a public necessity.

The condition of approval was that the antennae be placed around the "water tank ball" not above the ball in a crown fashion.

In the opinion of the Board the granting of these Variances would not materially impair the effectiveness of the Zoning Regulations as a whole, (nor) effect the intrinsic values of the neighborhood, (nor) would it be detrimental to the neighborhood or to the public welfare as far as hazards and nuisance are concerned, and is in harmony with the general purpose of the zoning regulations.

Appeal #3400 - Owner/Applicant Edmund Hamlin at 195 Gravel Street requesting a Variance of the height requirement of 9' in order to erect a detached garage in an R-1 zone. **(DENIED)**

ZONING BOARD OF APPEALS
CITY HALL - MERIDEN, CONNECTICUT 06450

000357

APPEAL NO. 3393

CERTIFICATE OF VARIANCE

This is to certify that **Springwich Cellular Limited Partnership** residing at **500 Enterprise Drive, Rocky Hill, CT 06067-3900**, was granted Variances by the Meriden Zoning Board of Appeals on **December 1, 1998** for property located at **119 Empire Avenue** Assessor's Block No. **154**, Lot No. **7**, in the City of Meriden, County of New Haven, State of Connecticut for which the **Weyerhaeuser Company** is the owner.

THIS PERMIT WAS GRANTED AS FOLLOWS

Appeal #3393 - Owner Weyerhaeuser Company/Applicant Springwich Cellular Limited Partnership at 119 Empire Avenue requesting a Variance of the permitted uses in an industrial district, a Variance of more than one principal use on a lot in an M-3 zone. **(APPROVED WITH CONDITIONS)**

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The condition of approval was that the antennae be placed around the "water tank ball" <u>not</u> above the ball in a crown fashion.

In the opinion of the Board the granting of these Variances would not materially impair the effectiveness of the Zoning Regulations as a whole, (nor) effect the intrinsic values of the neighborhood, (nor) would it be detrimental to the neighborhood or to the public welfare as far as hazards and nuisance are concerned, and is in harmony with the general purpose of the zoning regulations.

This approval shall not become effective, nor will a building permit be issued, until this copy certified by the Zoning Board of Appeals, is recorded in the office of the City Clerk in the Land Records of the City of Meriden at the expense of the owner of record.

Edwin J. Jones

Chairman Edwin J. Jones, or
Vice Chairman, James A. Burt, or
Kevin Danby, Secretary
MERIDEN ZONING BOARD OF APPEALS

RECEIVED FOR RECORD 1-14-99 AT 2:59
IRENE G. MASSE, CITY CLERK

AMERICAN TOWER®
CORPORATION

This report was prepared for American Tower Corporation by

CLS ENGINEERING PLLC

Structural Analysis Report

Structure	:	**125 ft Monopole & 95 ft Water Tower**
ATC Site Name	:	**Atlas Container,CT**
ATC Site Number	:	**383657**
Engineering Number	:	**13668707_C3_01**
Proposed Carrier	:	**VERIZON WIRELESS**
Carrier Site Name	:	**CT603/ Atlas Container WT**
Carrier Site Number	:	**CT11603E**
Site Location	:	**119 Empire Avenue** **Meriden, CT 06450** **41.5731, -72.7792**
County	:	**New Haven**
Date	:	**October 1, 2021**
Max Usage	:	**Monopole – 43%** **Water Tower – 79%**
Result	:	**Pass**

Prepared By:

Sreenivasa Kailasa
CLS

Reviewed By:

STATE OF CONNECTICUT
TYLER M BARKER
No. 32402
LICENSED PROFESSIONAL ENGINEER

Tyler M. Barker
CLS Engineering PLLC
PE # 32402 Exp. 1/31/2022
COA # PEC.001833 Exp. 8/14/2022
10/01/2021

Table of Contents

Introduction

The purpose of this report is to summarize results of a structural analysis performed on the 125 ft Monopole & 95 ft Water Tower to reflect the change in loading by VERIZON WIRELESS.

Supporting Documents

Tower Drawings	EEI Project #13454, dated October 20, 2005 Mapping by ETS Job #141008, dated November 14, 2014
Foundation Drawing	Mapping by ETS Job #141008, dated November 17, 2014

Analysis

The tower was analyzed using American Tower Corporation's tower analysis software. This program considers an elastic three-dimensional model and second-order effects per ANSI/TIA-222.

Basic Wind Speed:	119 mph (3-second gust)
Basic Wind Speed w/ Ice:	50 mph (3-second gust) w/ 1.00" radial ice concurrent
Code:	ANSI/TIA-222-H / 2015 IBC / 2018 Connecticut State Building Code
Exposure Category:	B
Risk Category:	II
Topographic Factor Procedure:	Method 1
Topographic Category:	1
Crest Height (H):	0 ft
Spectral Response:	Ss = 0.20, S_1 = 0.06
Site Class:	D - Stiff Soil - Default

Conclusion

Based on the analysis results, the structure meets the requirements per the applicable codes listed above. The tower and foundation can support the equipment as described in this report.

If you have any questions or require additional information, please contact American Tower via email at Engineering@americantower.com. Please include the American Tower site name, site number, and engineering number in the subject line for any questions.

Existing and Reserved Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
128.0	3	JMA Wireless DX12FRO260-20/26	Traingular Low Profile Platform	(2) 1 5/8" Hybriflex	VERIZON WIRELESS
125.0	3	Samsung B2/B66A RRH-BR049			
	3	Commscope CBC78T-DS-43-2X			
	2	RFS DB-T1-6Z-8AB-0Z			
	3	Antel LPA-80080/4CF ___			
	3	Samsung B5/B13 RRH-BR04C			
	6	Commscope JAHH-65B-R3B (63.3 lb)			
115.0	3	Ericsson KRY 112 144/1	Traingular Low Profile Platform	(1) 1 1/4" Hybriflex Cable (3) 1 5/8" (1.63"-41.3mm) Fiber (6) 1 5/8" Coax	T-MOBILE
	3	Commscope SDX1926Q-43			
	3	Ericsson Radio 4415 B2, B25, B66A			
	3	Ericsson Radio 4449 B71 B85A			
	3	Ericsson Radio 4424			
	3	Ericsson Air6449 B41			
	3	RFS APX16DWV-16DWVS-E-A20			
	3	RFS APXVAALL24 43-U-NA20			
106.0	3	RFS APXVSPP18-C	Flush	(3) 1 1/4" Hybriflex Cable (2) 2" Carflex Non-Metallic Conduit	SPRINT NEXTEL
	3	Commscope LLPX310R-V1			
	3	Alcatel-Lucent 800MHz RRH and Type 1 Notch Filter			
	3	Alcatel-Lucent RRH4x45-1900			
	3	Samsung SPI-2213 RRH			
95.0	6	Powerwave Allgon LGP13908	Flush	(12) 1 5/8" Coax (2) 3/4" Carflex Non-Metallic Conduit (1) 3/8" Coax	AT&T MOBILITY
	3	Generic 10" x 10" x 6" Junction Box			
	6	Ericsson RRUS 11 (Band 12)			
	1	Generic 2' HP Dish			
	3	Kathrein Scala 800 10121			
	6	KMW AM-X-CD-16-65-00T-RET			
	1	Generic 6.75" x 4.7" Radio			
47.0	1	Generic GPS	Flush	(1) 1/2" Coax	SPRINT NEXTEL

Equipment to be Removed

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
125.0	3	Commscope JAHH-65B-R3B (63.3 lb)	-	-	VERIZON WIRELESS

Proposed Equipment

Elev.[1] (ft)	Qty	Equipment	Mount Type	Lines	Carrier
126.5	3	Samsung MT6407-77A	Low Profile Platform	(6) 1 5/8" Coax	VERIZON WIRELESS
125.0	3	Samsung RT4401-48A			
	3	Antel LPA-80080/4CF ___			

[1] Contracted elevations are shown for appurtenances within contracted installation tolerances. Appurtenances outside of contract limits are shown at installed elevations.

Install proposed lines inside the pole shaft.

Monopole Structure Usage

Structural Component	Controlling Usage	Pass/Fail
Anchor Bolts	33%	Pass
Shaft	19%	Pass
Base Plate	43%	Pass

Water Tower Structure Usage

Structural Component	Controlling Usage	Pass/Fail
Legs	15%	Pass
Diagonals	79%	Pass
Horizontals	24%	Pass

Foundation

Structural Component	Monopole Analysis Reactions	Water Tower Analysis Reactions	Combined Analysis Reactions	% of usage
Moment (Kips-Ft)	1548.9	2655.9	4204.8	6%
Axial (Kips)	46.3	91.5	137.8	14%
Shear (Kips)	18.6	32.5	51.1	5%

The structure base reactions resulting from this analysis were found to be acceptable through analysis based on geotechnical and foundation information, therefore no modification or reinforcement of the foundation will be required.

Deflection, Twist and Sway*

Antenna Elevation (ft)	Antenna	Carrier	Deflection (ft)	Twist (°)	Sway (Rotation) (°)
126.5	Samsung MT6407-77A	VERIZON WIRELESS	0.020	-	0.200
125.0	Antel LPA-80080/4CF ___				
	Samsung RT4401-48A				
115.0	Commscope SDX1926Q-43	T-MOBILE	0.052	0.034	0.182
	Ericsson Air6449 B41				
	Ericsson Radio 4415 B2, B25, B66A				
	Ericsson Radio 4424				
	Ericsson Radio 4449 B71 B85A				
	RFS APX16DWV-16DWVS-E-A20				
	RFS APXVAALL24 43-U-NA20				
95.0	Generic 2' HP Dish	AT&T MOBILITY	0.052	0.034	0.182

***Deflection, Twist and Sway was evaluated considering a design wind speed of 60 mph (3-Second Gust) per ANSI/TIA-222-H**

Standard Conditions

All engineering services performed by A.T. Engineering Service, PLLC are prepared on the basis that the information used is current and correct. This information may consist of, but is not limited to the following:

- Information supplied by the client regarding antenna, mounts and feed line loading
- Information from drawings, design and analysis documents, and field notes in the possession of A.T. Engineering Service, PLLC

It is the responsibility of the client to ensure that the information provided to A.T. Engineering Service, PLLC and used in the performance of our engineering services is correct and complete.

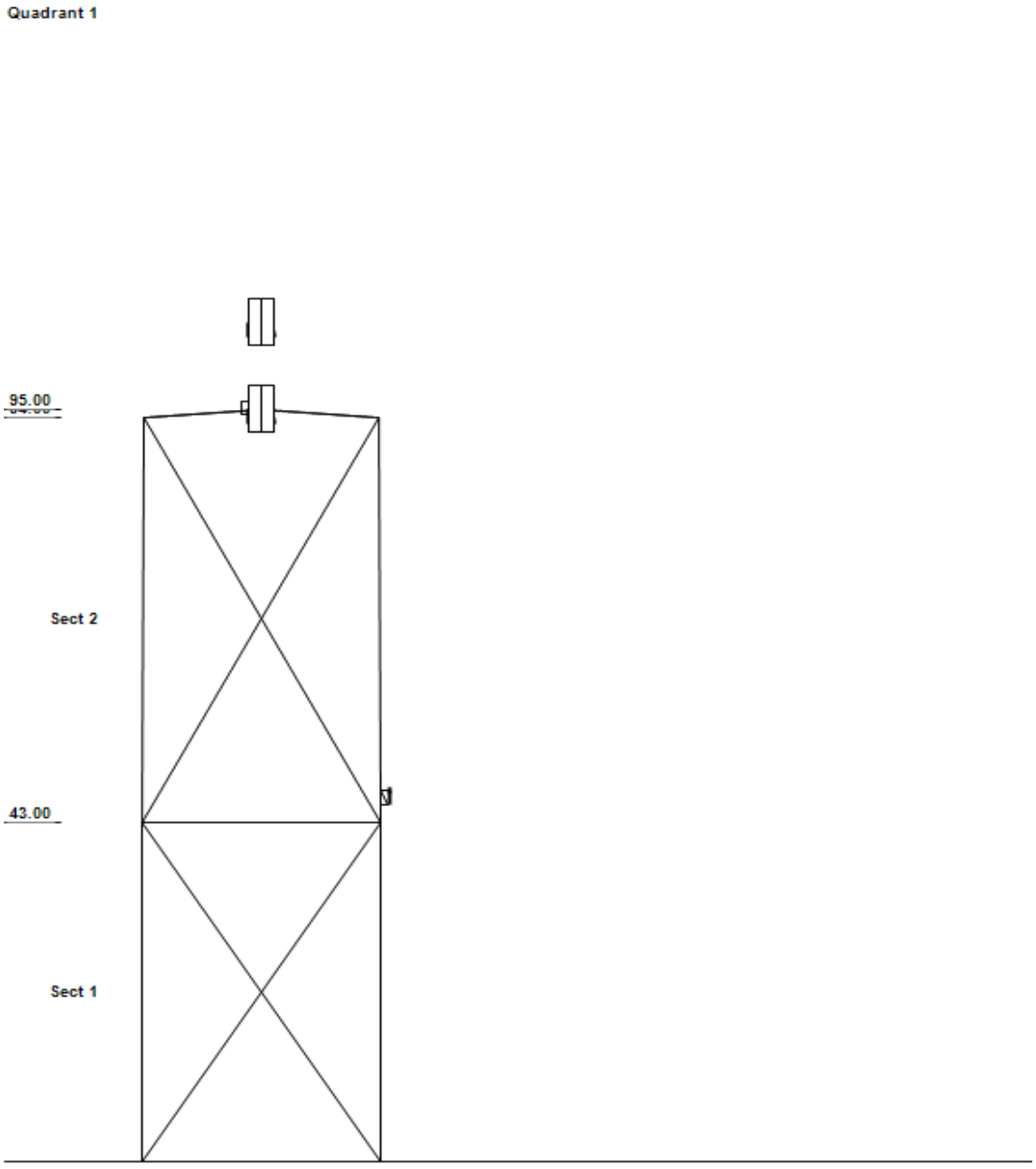
All assets of American Tower Corporation, its affiliates, and subsidiaries (collectively "American Tower") are inspected at regular intervals. Based upon these inspections and in the absence of information to the contrary, American Tower assumes that all structures were constructed in accordance with the drawings and specifications.

Unless explicitly agreed by both the client and A.T. Engineering Service, PLLC, all services will be performed in accordance with the current revision of ANSI/TIA-222.

All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. A.T. Engineering Service, PLLC is not responsible for the conclusions, opinions and recommendations made by others based on the information supplied herein.

JOB INFORMATION

Asset:	383657, Atlas Container	Height :	95 ft
Client	T-MOBILE	Base Width :	27 ft
Code:	ANSI/TIA-222-H	Shape :	Square



SITE PARAMETERS

Nominal Wind : 119 mph wind with no ice — Exposure : B — Site Class : D

Ice Wind: 50 mph wind with 1" radial — Topo Method: Method 1 — Risk Cat : II

Service Wind : 60 mph Serviceability — Topo Feature : — S_s : 0.202 — S_1 : 0.055

SECTION PROPERTIES

Section	Leg Members	Diagonal Members	Horizontal Members
1	PSP 36 ksi 22" OD x 0	SOL 36 ksi 1 1/4" SOLID	W 50 ksi W8x24
2	PSP 36 ksi 22" OD x 0	SOL 36 ksi 1 1/8" SOLID	
3	PSP 36 ksi 22" OD x 0	CHN 36 ksi C8 x 11.5	CHN 50 ksi C8 x 11.5

REDUNDANT SECONDARY BRACING

Section	Sub Diag 1	Sub Horiz 1	Sub Diag 2	Sub Horiz 2	Sub Diag 3	Sub Horiz 3
1 - 3	-	-	-	-	-	-

DISCRETE APPURTENANCE

Elev (ft)	Type	Qty	Description
106.00	PANEL	3	Commscope LLPX310R-V1
106.00	PANEL	3	RFS APXVSPP18-C
106.00	RRU/RRH	3	Alcatel-Lucent RRH4x45-1900
106.00	RRU/RRH	3	Samsung SPI-2213 RRH
106.00	RRU/RRH	3	Alcatel-Lucent 800MHz RRH and
95.00	BOB/SSB	3	Generic 10" x 10" x 6" Junctio
95.00	DISH-HP	1	Generic 2' HP Dish
95.00	PANEL	3	Kathrein Scala 800 10121
95.00	PANEL	6	KMW AM-X-CD-16-65-00T-RET
95.00	RRU/RRH	6	Ericsson RRUS 11 (Band 12)
95.00	Radio/ODU	1	Generic 6.75" x 4.7" Radio
95.00	TTA	6	Powerwave Allgon LGP13908
88.00	Other	1	Water Tank
78.00	Other	1	Water tank
47.00	GPS	1	Generic GPS

LINEAR APPURTENANCE

Elev (ft) From	To	Qty	Description
0.00	106.00	2	2" Carflex Non-Metallic Conduit
0.00	106.00	3	1 1/4" Hybriflex Cable
5.00	95.00	1	Climbing Ladder
0.00	95.00	1	3/8" Coax
0.00	95.00	2	3/4" Carflex Non-Metallic Conduit
0.00	95.00	12	1 5/8" Coax
0.00	47.00	1	1/2" Coax

GLOBAL BASE FOUNDATION DESIGN LOADS

Load Case	Moment (k-ft)	Vertical (kip)	Horizontal (kip)
DL+WL	2655.87	91.49	32.46
DL+WL+IL	1027.94	133.8	9.53

JOB INFORMATION

Asset:	383657, Atlas Container	Height :	95 ft
Client	T-MOBILE	Base Width :	27 ft
Code:	ANSI/TIA-222-H	Shape :	Square

INDIVIDUAL BASE FOUNDATION DESIGN LOADS

Vertical (kip)	Uplift (kip)	Horizontal (kip)
89.36	55.25	15.60

ANALYSIS PARAMETERS

Location:	New Haven County, CT	Height:	95 ft
Type and Shape:	Self Support, Square	Base Elevation:	0.00 ft
Manufacturer:	Undetermined	Bottom Face Width:	27.00 ft
Kd	0.85	Top Face Width:	1.00 ft
Ke:	0.99	Anchor Bolt Detail Type:	c

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed Without Ice:	119 mph
Risk Category:	II	Design Wind Speed with Ice:	50 mph
Topographic Factor Procedure:	Method 1	Operational Windspeed:	60 mph
Topographic Category:	Flat	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	158 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			Period Based on Rayleigh Method (sec):	0.77
T_L (sec):	6	P:	1.3	$C_{s:}$	0.038
$S_{s:}$	0.202	$S_{1:}$	0.055	$C_{s,}$ Max:	0.038
$F_{a:}$	1.600	$F_{v:}$	2.400	$C_{s,}$ Min:	0.030
$S_{ds:}$	0.215	S_{d1}:	0.088		

LOAD CASES

1.2D + 1.0W Normal	119 mph wind with no ice
1.2D + 1.0W 45°	119 mph wind with no ice
1.2D + 1.0W 90°	119 mph wind with no ice
1.2D + 1.0W 135°	119 mph wind with no ice
1.2D + 1.0W 180°	119 mph wind with no ice
1.2D + 1.0W 225°	119 mph wind with no ice
1.2D + 1.0W 270°	119 mph wind with no ice
1.2D + 1.0W 315°	119 mph wind with no ice
0.9D + 1.0W Normal	119 mph wind with no ice
0.9D + 1.0W 45°	119 mph wind with no ice
0.9D + 1.0W 90°	119 mph wind with no ice
0.9D + 1.0W 135°	119 mph wind with no ice
0.9D + 1.0W 180°	119 mph wind with no ice
0.9D + 1.0W 225°	119 mph wind with no ice
0.9D + 1.0W 270°	119 mph wind with no ice
0.9D + 1.0W 315°	119 mph wind with no ice
1.2D + 1.0Di + 1.0Wi Normal	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 45°	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 90°	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 135°	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 180°	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 225°	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 270°	50 mph wind with 1" radial ice
1.2D + 1.0Di + 1.0Wi 315°	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh Normal	Seismic
1.2D + 1.0Ev + 1.0Eh 45°	Seismic
1.2D + 1.0Ev + 1.0Eh 90°	Seismic
1.2D + 1.0Ev + 1.0Eh 135°	Seismic
1.2D + 1.0Ev + 1.0Eh 180°	Seismic
1.2D + 1.0Ev + 1.0Eh 225°	Seismic
1.2D + 1.0Ev + 1.0Eh 270°	Seismic
1.2D + 1.0Ev + 1.0Eh 315°	Seismic
0.9D - 1.0Ev + 1.0Eh Normal	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 45°	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 90°	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 135°	Seismic (Reduced DL)

LOAD CASES	
0.9D - 1.0Ev + 1.0Eh 180°	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 225°	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 270°	Seismic (Reduced DL)
0.9D - 1.0Ev + 1.0Eh 315°	Seismic (Reduced DL)
1.0D + 1.0W Service Normal	60 mph Wind with No Ice
1.0D + 1.0W Service 45°	60 mph Wind with No Ice
1.0D + 1.0W Service 90°	60 mph Wind with No Ice
1.0D + 1.0W Service 135°	60 mph Wind with No Ice
1.0D + 1.0W Service 180°	60 mph Wind with No Ice
1.0D + 1.0W Service 225°	60 mph Wind with No Ice
1.0D + 1.0W Service 270°	60 mph Wind with No Ice
1.0D + 1.0W Service 315°	60 mph Wind with No Ice

TOWER LOADING

Discrete Appurtenance Properties 1.2D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient Factor	Vert E_{cc} (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
106.0	Samsung SPI-2213 RRH	3	33	1.6	1.3	11.6	6.0	1.00	0.50	0.0	0.00	30.79	61	119
106.0	Alcatel-Lucent RRH4x45-1900	3	60	2.4	2.1	11.1	11.4	1.00	0.50	0.0	0.00	30.79	94	216
106.0	Alcatel-Lucent 800MHz RRH and	3	61	2.5	1.9	13.0	8.8	1.00	0.50	0.0	0.00	30.79	98	220
106.0	Commscope LLPX310R-V1	3	28	4.3	3.5	11.8	4.5	1.00	0.63	0.0	0.00	30.79	215	99
106.0	RFS APXVSPP18-C	3	57	8.0	6.0	11.8	7.0	1.00	0.69	0.0	0.00	30.79	435	205
95.0	Generic 6.75" x 4.7" Radio	1	7	0.3	0.4	6.7	4.7	1.00	0.50	0.0	0.00	29.84	3	8
95.0	Powerwave Allgon LGP13908	6	10	0.5	0.8	6.7	3.2	1.00	0.50	0.0	0.00	29.84	38	75
95.0	Generic 10" x 10" x 6" Junctio	3	30	0.8	0.8	10.0	6.0	1.00	0.50	0.0	0.00	29.84	32	108
95.0	Ericsson RRUS 11 (Band 12)	6	50	2.6	1.5	17.3	7.2	1.00	0.50	0.0	0.00	29.84	195	360
95.0	Generic 2' HP Dish	1	90	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	29.84	100	108
95.0	Kathrein Scala 800 10121	3	46	5.2	4.5	10.3	5.9	1.00	0.68	0.0	0.00	29.84	267	167
95.0	KMW AM-X-CD-16-65-00T-RET	6	49	8.0	6.0	11.8	5.9	1.00	0.67	0.0	0.00	29.84	818	349
88.0	Water Tank	1	23743	330.7	17.0	320.9	0.3	1.00	1.00	0.0	0.00	29.19	8206	28492
78.0	Water tank	1	8629	165.3	10.0	320.9	0.3	1.00	1.00	0.0	0.00	28.20	3963	10355
47.0	Generic GPS	1	10	0.9	1.0	9.0	6.0	1.00	1.00	0.0	0.00	24.40	19	12
	Totals	44	34,077	642.1									14,543	40,893

TOWER LOADING

Discrete Appurtenance Properties 0.9D + 1.0W

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient Factor	Vert E_{cc} (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
106.0	Samsung SPI-2213 RRH	3	33	1.6	1.3	11.6	6.0	1.00	0.50	0.0	0.00	30.79	61	89
106.0	Alcatel-Lucent RRH4x45-1900	3	60	2.4	2.1	11.1	11.4	1.00	0.50	0.0	0.00	30.79	94	162
106.0	Alcatel-Lucent 800MHz RRH and	3	61	2.5	1.9	13.0	8.8	1.00	0.50	0.0	0.00	30.79	98	165
106.0	Commscope LLPX310R-V1	3	28	4.3	3.5	11.8	4.5	1.00	0.63	0.0	0.00	30.79	215	75
106.0	RFS APXVSPP18-C	3	57	8.0	6.0	11.8	7.0	1.00	0.69	0.0	0.00	30.79	435	154
95.0	Generic 6.75" x 4.7" Radio	1	7	0.3	0.4	6.7	4.7	1.00	0.50	0.0	0.00	29.84	3	6
95.0	Powerwave Allgon LGP13908	6	10	0.5	0.8	6.7	3.2	1.00	0.50	0.0	0.00	29.84	38	56
95.0	Generic 10" x 10" x 6" Junctio	3	30	0.8	0.8	10.0	6.0	1.00	0.50	0.0	0.00	29.84	32	81
95.0	Ericsson RRUS 11 (Band 12)	6	50	2.6	1.5	17.3	7.2	1.00	0.50	0.0	0.00	29.84	195	270
95.0	Generic 2' HP Dish	1	90	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	29.84	100	81
95.0	Kathrein Scala 800 10121	3	46	5.2	4.5	10.3	5.9	1.00	0.68	0.0	0.00	29.84	267	125
95.0	KMW AM-X-CD-16-65-00T-RET	6	49	8.0	6.0	11.8	5.9	1.00	0.67	0.0	0.00	29.84	818	262
88.0	Water Tank	1	23743	330.7	17.0	320.9	0.3	1.00	1.00	0.0	0.00	29.19	8206	21369
78.0	Water tank	1	8629	165.3	10.0	320.9	0.3	1.00	1.00	0.0	0.00	28.20	3963	7766
47.0	Generic GPS	1	10	0.9	1.0	9.0	6.0	1.00	1.00	0.0	0.00	24.40	19	9
	Totals	44	34,077	642.1									14,543	30,670

TOWER LOADING

Discrete Appurtenance Properties 1.2D + 1.0Di + 1.0Wi

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient Factor	Vert E_{cc} (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
106.0	Samsung SPI-2213 RRH	3	61	2.1	1.3	11.6	6.0	1.00	0.50	0.0	0.00	5.44	14	203
106.0	Alcatel-Lucent RRH4x45-1900	3	113	3.1	2.1	11.1	11.4	1.00	0.50	0.0	0.00	5.44	21	376
106.0	Alcatel-Lucent 800MHz RRH and	3	109	3.2	1.9	13.0	8.8	1.00	0.50	0.0	0.00	5.44	22	362
106.0	Commscope LLPX310R-V1	3	85	5.4	3.5	11.8	4.5	1.00	0.63	0.0	0.00	5.44	47	273
106.0	RFS APXVSPP18-C	3	167	9.8	6.0	11.8	7.0	1.00	0.69	0.0	0.00	5.44	94	535
95.0	Generic 6.75" x 4.7" Radio	1	13	0.5	0.4	6.7	4.7	1.00	0.50	0.0	0.00	5.27	1	14
95.0	Powerwave Allgon LGP13908	6	20	0.8	0.8	6.7	3.2	1.00	0.50	0.0	0.00	5.27	11	131
95.0	Generic 10" x 10" x 6" Junctio	3	48	1.2	0.8	10.0	6.0	1.00	0.50	0.0	0.00	5.27	8	161
95.0	Ericsson RRUS 11 (Band 12)	6	93	3.2	1.5	17.3	7.2	1.00	0.50	0.0	0.00	5.27	43	621
95.0	Generic 2' HP Dish	1	143	4.7	2.0	24.0	0.0	1.00	1.00	0.0	0.00	5.27	21	161
95.0	Kathrein Scala 800 10121	3	119	6.5	4.5	10.3	5.9	1.00	0.68	0.0	0.00	5.27	59	386
95.0	KMW AM-X-CD-16-65-00T-RET	6	152	9.8	6.0	11.8	5.9	1.00	0.67	0.0	0.00	5.27	176	969
88.0	Water Tank	1	33960	473.0	17.0	320.9	0.3	1.00	1.00	0.0	0.00	5.15	2072	38708
78.0	Water tank	1	12342	236.4	10.0	320.9	0.3	1.00	1.00	0.0	0.00	4.98	1001	14068

Elev (ft)	Description	Qty	Ice Wt (lb)	Ice EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient Factor	Vert E_{cc} (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
47.0	Generic GPS	1	26	1.3	1.0	9.0	6.0	1.00	1.00	0.0	0.00	4.31	5	28
	Totals	44	50,183	892.8									3597	56,998

TOWER LOADING

Discrete Appurtenance Properties 1.0D + 1.0W Service

Elev (ft)	Description	Qty	Wt. (lb)	EPA (sf)	Length (ft)	Width (in)	Depth (in)	K_a	Orient Factor	Vert E_{cc} (ft)	M_u (lb-ft)	Q_z (psf)	F_a (WL) (lb)	P_a (DL) (lb)
106.0	Samsung SPI-2213 RRH	3	33	1.6	1.3	11.6	6.0	1.00	0.50	0.0	0.00	7.83	16	99
106.0	Alcatel-Lucent RRH4x45-1900	3	60	2.4	2.1	11.1	11.4	1.00	0.50	0.0	0.00	7.83	24	180
106.0	Alcatel-Lucent 800MHz RRH and	3	61	2.5	1.9	13.0	8.8	1.00	0.50	0.0	0.00	7.83	25	183
106.0	Commscope LLPX310R-V1	3	28	4.3	3.5	11.8	4.5	1.00	0.63	0.0	0.00	7.83	55	83
106.0	RFS APXVSPP18-C	3	57	8.0	6.0	11.8	7.0	1.00	0.69	0.0	0.00	7.83	110	171
95.0	Generic 6.75" x 4.7" Radio	1	7	0.3	0.4	6.7	4.7	1.00	0.50	0.0	0.00	7.59	1	7
95.0	Powerwave Allgon LGP13908	6	10	0.5	0.8	6.7	3.2	1.00	0.50	0.0	0.00	7.59	10	62
95.0	Generic 10" x 10" x 6" Junctio	3	30	0.8	0.8	10.0	6.0	1.00	0.50	0.0	0.00	7.59	8	90
95.0	Ericsson RRUS 11 (Band 12)	6	50	2.6	1.5	17.3	7.2	1.00	0.50	0.0	0.00	7.59	50	300
95.0	Generic 2' HP Dish	1	90	4.0	2.0	24.0	0.0	1.00	1.00	0.0	0.00	7.59	26	90
95.0	Kathrein Scala 800 10121	3	46	5.2	4.5	10.3	5.9	1.00	0.68	0.0	0.00	7.59	68	139
95.0	KMW AM-X-CD-16-65-00T-RET	6	49	8.0	6.0	11.8	5.9	1.00	0.67	0.0	0.00	7.59	208	291
88.0	Water Tank	1	23743	330.7	17.0	320.9	0.3	1.00	1.00	0.0	0.00	7.42	2086	23743
78.0	Water tank	1	8629	165.3	10.0	320.9	0.3	1.00	1.00	0.0	0.00	7.17	1007	8629
47.0	Generic GPS	1	10	0.9	1.0	9.0	6.0	1.00	1.00	0.0	0.00	6.20	5	10
	Totals	44	34,077	642.1									3,697	34,077

TOWER LOADING

Linear Appurtenance Properties

Elev From (ft)	Elev To (ft)	Description	Qty	Width (in)	Weight (lb/ft)	% In Wind	Spread On Faces	Bundling	Cluster Dia (in)	Out of Zone	Spacing (in)	Orient Factor	K_a Override
5.0	95.0	Climbing Ladder	1	2.00	6.90	100	1,4	Individual	0.00	N	1.00	1.00	0.00
0.0	106.0	1 1/4" Hybriflex Cable	3	1.54	1.00	100	3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	106.0	2" Carflex Non-Metallic Condui	2	2.36	0.68	100	3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	95.0	1 5/8" Coax	12	1.98	0.82	100	3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	95.0	3/4" Carflex Non-Metallic Cond	2	1.04	0.18	100	3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	95.0	3/8" Coax	1	0.44	0.08	100	3,4	Individual	0.00	N	1.00	1.00	0.00
0.0	47.0	1/2" Coax	1	0.63	0.15	100	3,4	Individual	0.00	N	1.00	1.00	0.00

SECTION FORCES

1.2D + 1.0W Normal — Gust Response Factor (Gh): 0.85
119 mph wind with no ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	8512	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	20925	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	21162	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			16,727	

1.2D + 1.0W 45° — Gust Response Factor (Gh): 0.85
119 mph wind with no ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	8512	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	20925	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	21162	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			17,915	

1.2D + 1.0W 90° — Gust Response Factor (Gh): 0.85
119 mph wind with no ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	8512	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	20925	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	21162	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			16,727	

1.2D + 1.0W 135° — Gust Response Factor (Gh): 0.85
119 mph wind with no ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	8512	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	20925	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	21162	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			17,915	

1.2D + 1.0W 180° — Gust Response Factor (Gh): 0.85
119 mph wind with no ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	8512	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	20925	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	21162	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			16,727	

1.2D + 1.0W 225° — Gust Response Factor (Gh): 0.85
119 mph wind with no ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	8512	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	20925	0	6919	2757	9676	

SECTION FORCES

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	21162	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			17,915	

1.2D + 1.0W 270° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	8512	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	20925	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	21162	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			16,727	

1.2D + 1.0W 315° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	8512	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	20925	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	21162	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														50,600	0			17,915	

0.9D + 1.0W Normal Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	6384	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	15694	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	15872	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			16,727	

0.9D + 1.0W 45° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	6384	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	15694	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	15872	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			17,915	

0.9D + 1.0W 90° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	6384	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	15694	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	15872	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			16,727	

0.9D + 1.0W 135° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

SECTION FORCES

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	6384	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	15694	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	15872	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			17,915	

0.9D + 1.0W 180° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	6384	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	15694	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	15872	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			16,727	

0.9D + 1.0W 225° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	6384	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	15694	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	15872	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			17,915	

0.9D + 1.0W 270° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	6384	0	4596	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	15694	0	6283	2757	9039	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	15872	0	5009	1844	6853	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			16,727	

0.9D + 1.0W 315° Gust Response Factor (Gh): 0.85
119 mph wind with no ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	29.79	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	6384	0	5515	0	835	**
2	68	27.18	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	15694	0	6919	2757	9676	
1	22	21.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	15872	0	5560	1844	7403	
** = Section Force Exceeds Solidity Ratio Criteria														37,950	0			17,915	

1.2D + 1.0Di + 1.0Wi Normal Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.00	1.00	1.1	103.05	216.41	13.95	12565	4053	968	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.00	1.00	1.1	134.65	424.76	38.95	32491	11565	1732	1463	3195	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.00	1.00	1.0	129.04	399.70	34.23	31747	10585	1286	923	2209	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,553	

1.2D + 1.0Di + 1.0Wi 45° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

SECTION FORCES

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.20	1.20	1.1	123.66	259.69	13.95	12565	4053	1161	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.12	1.12	1.1	150.89	475.99	38.95	32491	11565	1941	1463	3404	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.13	1.13	1.0	145.81	451.66	34.23	31747	10585	1454	923	2377	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,930	

1.2D + 1.0Di + 1.0Wi 90° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.00	1.00	1.1	103.05	216.41	13.95	12565	4053	968	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.00	1.00	1.1	134.65	424.76	38.95	32491	11565	1732	1463	3195	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.00	1.00	1.0	129.04	399.70	34.23	31747	10585	1286	923	2209	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,553	

1.2D + 1.0Di + 1.0Wi 135° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.20	1.20	1.1	123.66	259.69	13.95	12565	4053	1161	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.12	1.12	1.1	150.89	475.99	38.95	32491	11565	1941	1463	3404	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.13	1.13	1.0	145.81	451.66	34.23	31747	10585	1454	923	2377	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,930	

1.2D + 1.0Di + 1.0Wi 180° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.00	1.00	1.1	103.05	216.41	13.95	12565	4053	968	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.00	1.00	1.1	134.65	424.76	38.95	32491	11565	1732	1463	3195	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.00	1.00	1.0	129.04	399.70	34.23	31747	10585	1286	923	2209	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,553	

1.2D + 1.0Di + 1.0Wi 225° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.20	1.20	1.1	123.66	259.69	13.95	12565	4053	1161	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.12	1.12	1.1	150.89	475.99	38.95	32491	11565	1941	1463	3404	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.13	1.13	1.0	145.81	451.66	34.23	31747	10585	1454	923	2377	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,930	

1.2D + 1.0Di + 1.0Wi 270° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.00	1.00	1.1	103.05	216.41	13.95	12565	4053	968	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.00	1.00	1.1	134.65	424.76	38.95	32491	11565	1732	1463	3195	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.00	1.00	1.0	129.04	399.70	34.23	31747	10585	1286	923	2209	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,553	

1.2D + 1.0Di + 1.0Wi 315° Gust Response Factor (Gh): 0.85 Ice Importance Factor: 1.00
50 mph wind with 1" radial ice Wind Importance Factor (Iw): 1.00 Ice Dead Load Factor: 1.00

SECTION FORCES

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	5.26	22.264	80.789	13.95	1.000	2.10	1.20	1.20	1.1	123.66	259.69	13.95	12565	4053	1161	0	149	**
2	68	4.80	0.000	236.409	38.95	0.161	3.15	1.12	1.12	1.1	150.89	475.99	38.95	32491	11565	1941	1463	3404	
1	22	3.79	13.567	202.085	34.23	0.173	3.10	1.13	1.13	1.0	145.81	451.66	34.23	31747	10585	1454	923	2377	
** = Section Force Exceeds Solidity Ratio Criteria														76,803	26,203			5,930	

1.0D + 1.0W Service Normal — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	7093	0	1168	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	17438	0	1597	701	2298	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	17635	0	1273	469	1742	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,252	

1.0D + 1.0W Service 45° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	7093	0	1402	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	17438	0	1759	701	2460	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	17635	0	1413	469	1882	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,554	

1.0D + 1.0W Service 90° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	7093	0	1168	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	17438	0	1597	701	2298	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	17635	0	1273	469	1742	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,252	

1.0D + 1.0W Service 135° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	7093	0	1402	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	17438	0	1759	701	2460	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	17635	0	1413	469	1882	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,554	

1.0D + 1.0W Service 180° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	7093	0	1168	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	17438	0	1597	701	2298	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	17635	0	1273	469	1742	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,252	

1.0D + 1.0W Service 225° — Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice — Wind Importance Factor (Iw): 1.00

SECTION FORCES

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	7093	0	1402	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	17438	0	1759	701	2460	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	17635	0	1413	469	1882	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,554	

1.0D + 1.0W Service 270° Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.00	1.00	0.0	86.43	181.50	0.00	7093	0	1168	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.00	1.00	0.0	83.03	271.98	0.00	17438	0	1597	701	2298	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.00	1.00	0.0	85.31	274.77	0.00	17635	0	1273	469	1742	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,252	

1.0D + 1.0W Service 315° Gust Response Factor (Gh): 0.85
60 mph Wind with No Ice Wind Importance Factor (Iw): 1.00

Sect #	Elev (ft)	Q_Z (psf)	A_f (sf)	A_r (sf)	Ice A_r (sf)	e	C_f	D_f	D_r	T_{iz} (in)	A_e (sf)	EPA_a (sf)	EPA_{ai} (sf)	Wt. (lb)	Ice Wt (lb)	F_{st} (lb)	F_a (lb)	Force (lb)	
3	94	7.57	22.264	66.837	0.00	1.000	2.10	1.20	1.20	0.0	103.71	217.80	0.00	7093	0	1402	0	212	**
2	68	6.91	0.000	197.460	0.00	0.135	3.28	1.10	1.10	0.0	91.45	299.55	0.00	17438	0	1759	701	2460	
1	22	5.45	13.567	167.856	0.00	0.147	3.22	1.11	1.11	0.0	94.69	304.99	0.00	17635	0	1413	469	1882	
** = Section Force Exceeds Solidity Ratio Criteria														42,166	0			4,554	

EQUIVALENT LATERAL FORCE METHOD

Spectral Response Acceleration for Short Period (S_S):	0.20
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.06
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.00
Site Coefficient F_a:	1.60
Site Coefficient F_v:	2.40
Response Modification Coefficient (R):	3.00
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.22
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.09
Seismic Response Coefficient (C_s):	0.04
Upper Limit C_S:	0.04
Lower Limit C_S:	0.03
Period based on Rayleigh Method (sec):	0.77
Redundancy Factor (p):	1.30
Seismic Force Distribution Exponent (k):	1.14
Total Unfactored Dead Load:	76.24 k
Seismic Base Shear (E):	3.75 k

SEISMIC

Load Case: 0.9D - 1.0Ev + 1.0Eh

Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
3	94.50	7,093	1,250,954	0.134	502	6,078
2	68.50	17,438	2,132,940	0.228	857	14,943
1	21.50	17,635	577,547	0.062	232	15,112
Samsung SPI-2213 RRH	95.00	99	17,618	0.002	7	85
Alcatel-Lucent RRH4x45-1900	95.00	180	31,935	0.003	13	154
Alcatel-Lucent 800MHz RRH and Type 1 Notch Filter	95.00	183	32,468	0.004	13	157
Commscope LLPX310R-V1	95.00	83	14,690	0.002	6	71
RFS APXVSPP18-C	95.00	171	30,339	0.003	12	147
Generic 6.75" x 4.7" Radio	95.00	7	1,242	0.000	0	6
Powerwave Allgon LGP13908	95.00	62	11,071	0.001	4	53
Generic 10" x 10" x 6" Junction Box	95.00	90	15,968	0.002	6	77
Ericsson RRUS 11 (Band 12)	95.00	300	53,226	0.006	21	257
Generic 2' HP Dish	95.00	90	15,968	0.002	6	77
Kathrein Scala 800 10121	95.00	139	24,644	0.003	10	119
KMW AM-X-CD-16-65-00T-RET	95.00	291	51,629	0.006	21	249
Water Tank	88.00	23,743	3,861,318	0.413	1551	20,346
Water tank	78.00	8,629	1,223,451	0.131	491	7,394
Generic GPS	47.00	10	797	0.000	0	9
Totals		76,244	9,347,802	1.000	3,755	65,334

SEISMIC

Load Case: 1.2D + 1.0Ev + 1.0Eh

Seismic

Section	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	Cvx	Horizontal Force (lb)	Vertical Force (lb)
3	94.50	7,093	1,250,954	0.134	502	8,818
2	68.50	17,438	2,132,940	0.228	857	21,677
1	21.50	17,635	577,547	0.062	232	21,922
Samsung SPI-2213 RRH	95.00	99	17,618	0.002	7	123

Alcatel-Lucent RRH4x45-1900		95.00	180	31,935	0.003	13	224
Alcatel-Lucent 800MHz RRH and Type 1 Notch Filter		95.00	183	32,468	0.004	13	227
Commscope LLPX310R-V1		95.00	83	14,690	0.002	6	103
RFS APXVSPP18-C		95.00	171	30,339	0.003	12	213
Generic 6.75" x 4.7" Radio		95.00	7	1,242	0.000	0	9
Powerwave Allgon LGP13908		95.00	62	11,071	0.001	4	78
Generic 10" x 10" x 6" Junction Box		95.00	90	15,968	0.002	6	112
Ericsson RRUS 11 (Band 12)		95.00	300	53,226	0.006	21	373
Generic 2' HP Dish		95.00	90	15,968	0.002	6	112
Kathrein Scala 800 10121		95.00	139	24,644	0.003	10	173
KMW AM-X-CD-16-65-00T-RET		95.00	291	51,629	0.006	21	362
Water Tank		88.00	23,743	3,861,318	0.413	1551	29,515
Water tank		78.00	8,629	1,223,451	0.131	491	10,727
Generic GPS		47.00	10	797	0.000	0	12
	Totals		76,244	9,347,802	1.000	3,755	94,778

FORCE/STRESS SUMMARY

Section 1 – Bolt Elevation 0.0 (ft) and Height 43.00 (ft)

Max Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L PSP - 22" OD x 0.3125"	-86.72	1.2D + 1.0W 45°	43	100	100	100	67.29	36.0	543.53	0.00	0.00	0	0	15	Member X
H W - W8x24	-12.34	0.9D + 1.0W N	26.88	100	100	100	200.35	50.0	50.48	0.00	0.00	0	0	24	Member Y

Max Tension Member	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
L PSP - 22" OD x 0.3125"	24.12	1.2D + 1.0W 135°	36.0	58	689.85	0.00	0.00		0	0	3	Member
H W - W8x24	1.01	1.2D + 1.0Di + 1.0Wi N	50.0	65	318.60	0.00	0.00	0.00	0	0	0	Member
D SOL - 1 1/4" SOLID	25.93	1.2D + 1.0W N	36.0	58	39.76	0.00	0.00	0.00	0	0	65	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 2 – Bolt Elevation 43.0 (ft) and Height 51.00 (ft)

Max Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L PSP - 22" OD x 0.3125"	-54.91	1.2D + 1.0W 45°	51	100	100	100	79.81	36.0	493.31	0.00	0.00	0	0	11	Member X

Max Tension Member	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
D SOL - 1 1/8" SOLID	25.75	1.2D + 1.0W N	36.0	58	32.21	0.00	0.00	0.00	0	0	79	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

Section 3 – Bolt Elevation 94.0 (ft) and Height 1.00 (ft)

Max Compression	Pu (kip)	Load Case	Len (ft)	Bracing % X	Y	Z	KL/R	F'_y (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	# Bolt	# Hole	Use %	Controls
L PSP - 22" OD x 0.3125"	-6.87	1.2D + 1.0W N	18.228	100	100	100	28.53	36.0	660.92	0.00	0.00	0	0	1	Member X
H CHN - C8 x 11.5	-18.11	1.2D + 1.0W 45°	1	100	100	100	19.20	50.0	166.28	0.00	0.00	0	0	10	Member Y
D CHN - C8 x 11.5	-6.84	1.2D + 1.0W N	18.948	50	50	50	181.90	36.0	29.24	0.00	0.00	0	0	0	Member Y

Max Tension Member	Pu (kip)	Load Case	F_y (ksi)	F_u (ksi)	$\Phi_c P_n$ (kip)	Shear ΦR_{nv} (kip)	Bear ΦR_n (kip)	Blk Shear $\Phi_t P_n$ (kip)	# Bolt	# Hole	Use %	Controls
H CHN - C8 x 11.5	11.43	1.2D + 1.0W 90°	50.0	65	152.10	0.00	0.00	0.00	0	0	7	Member
D CHN - C8 x 11.5	7.67	1.2D + 1.0W N	36.0	58	109.51	0.00	0.00	0.00	0	0	7	Member

Max Splice Forces	Pu (kip)	Load Case	ΦR_{nt} (kip)	Use %	Num Bolts	Bolt Type

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down *F_X (kip)	*F_Y (kip)	*F_Z (kip)
1.2D + 1.0W Normal	19.09	0.00	45	1	1.31	69.53	-1.16
	19.09	0.00	135	1a	0.30	-17.11	-15.34
	19.09	0.00	225	1b	-1.22	-17.94	-13.64
	19.09	0.00	315	1c	-0.40	57.02	-1.14
1.2D + 1.0W 45°	19.09	0.00	45	1	-0.67	89.36	-0.81
	19.09	0.00	135	1a	-0.92	25.86	-11.80
	19.09	0.00	225	1b	-11.88	-36.96	-9.54
	19.09	0.00	315	1c	-9.48	13.23	-0.80
1.2D + 1.0W 90°	19.09	0.00	45	1	-1.08	70.93	0.32
	19.09	0.00	135	1a	-1.18	68.34	-1.36
	19.09	0.00	225	1b	-15.13	-15.91	-0.26
	19.09	0.00	315	1c	-13.88	-31.86	1.30
1.2D + 1.0W 135°	19.09	0.00	45	1	-0.84	28.15	10.32
	19.09	0.00	135	1a	-0.76	87.16	0.76
	19.09	0.00	225	1b	-10.32	28.15	0.84
	19.09	0.00	315	1c	-11.03	-51.95	11.03
1.2D + 1.0W 180°	19.09	0.00	45	1	0.26	-15.91	15.13
	19.09	0.00	135	1a	1.36	68.34	1.18
	19.09	0.00	225	1b	-0.32	70.93	1.08
	19.09	0.00	315	1c	-1.30	-31.86	13.88
1.2D + 1.0W 225°	19.09	0.00	45	1	9.54	-36.96	11.88
	19.09	0.00	135	1a	11.80	25.86	0.92
	19.09	0.00	225	1b	0.81	89.36	0.67
	19.09	0.00	315	1c	0.80	13.23	9.48
1.2D + 1.0W 270°	19.09	0.00	45	1	13.64	-17.94	1.22
	19.09	0.00	135	1a	15.34	-17.11	-0.30
	19.09	0.00	225	1b	1.16	69.53	-1.31
	19.09	0.00	315	1c	1.14	57.02	0.40
1.2D + 1.0W 315°	19.09	0.00	45	1	10.42	27.44	-0.86
	19.09	0.00	135	1a	10.91	-38.41	-10.91
	19.09	0.00	225	1b	0.86	27.44	-10.42
	19.09	0.00	315	1c	0.77	75.02	-0.77
0.9D + 1.0W Normal	19.09	0.00	45	1	1.23	63.05	-1.24
	19.09	0.00	135	1a	0.23	-23.68	-15.27
	19.09	0.00	225	1b	-1.14	-24.30	-13.54
	19.09	0.00	315	1c	-0.32	53.55	-1.21
0.9D + 1.0W 45°	19.09	0.00	45	1	-0.75	82.95	-0.89
	19.09	0.00	135	1a	-1.00	19.18	-11.75
	19.09	0.00	225	1b	-11.78	-43.25	-9.43
	19.09	0.00	315	1c	-9.43	9.75	-0.88
0.9D + 1.0W 90°	19.09	0.00	45	1	-1.16	64.61	0.25
	19.09	0.00	135	1a	-1.26	61.51	-1.33
	19.09	0.00	225	1b	-15.02	-22.13	-0.19
	19.09	0.00	315	1c	-13.83	-35.38	1.26
0.9D + 1.0W 135°	19.09	0.00	45	1	-0.92	21.66	10.24
	19.09	0.00	135	1a	-0.83	80.54	0.83
	19.09	0.00	225	1b	-10.24	21.66	0.92
	19.09	0.00	315	1c	-10.95	-55.25	10.95
0.9D + 1.0W 180°	19.09	0.00	45	1	0.19	-22.13	15.02
	19.09	0.00	135	1a	1.33	61.51	1.26
	19.09	0.00	225	1b	-0.25	64.61	1.16
	19.09	0.00	315	1c	-1.26	-35.38	13.83
0.9D + 1.0W 225°	19.09	0.00	45	1	9.43	-43.25	11.78
	19.09	0.00	135	1a	11.75	19.18	1.00
	19.09	0.00	225	1b	0.89	82.95	0.75
	19.09	0.00	315	1c	0.88	9.75	9.43
0.9D + 1.0W 270°	19.09	0.00	45	1	13.54	-24.30	1.14
	19.09	0.00	135	1a	15.27	-23.68	-0.23
	19.09	0.00	225	1b	1.24	63.05	-1.23
	19.09	0.00	315	1c	1.21	53.55	0.32
0.9D + 1.0W 315°	19.09	0.00	45	1	10.31	21.12	-0.94
	19.09	0.00	135	1a	10.86	-45.07	-10.86
	19.09	0.00	225	1b	0.94	21.12	-10.31
	19.09	0.00	315	1c	0.85	71.46	-0.85
1.2D + 1.0Di + 1.0Wi Normal	19.09	0.00	45	1	0.95	49.30	0.09
	19.09	0.00	135	1a	0.54	26.38	-4.74
	19.09	0.00	225	1b	-0.90	24.22	-4.60
	19.09	0.00	315	1c	-0.58	33.90	0.10

DETAILED REACTIONS

*(-) Uplift and (+) Down

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*Fx (kip)	*Fy (kip)	*Fz (kip)
1.2D + 1.0Di + 1.0Wi 45°	19.09	0.00	45	1	0.24	55.26	0.19
	19.09	0.00	135	1a	0.17	38.54	-3.75
	19.09	0.00	225	1b	-3.96	18.87	-3.40
	19.09	0.00	315	1c	-3.19	21.13	0.22
1.2D + 1.0Di + 1.0Wi 90°	19.09	0.00	45	1	0.11	49.96	0.55
	19.09	0.00	135	1a	0.07	50.68	-0.72
	19.09	0.00	225	1b	-4.90	25.05	-0.57
	19.09	0.00	315	1c	-4.44	8.11	0.74
1.2D + 1.0Di + 1.0Wi 135°	19.09	0.00	45	1	0.20	38.18	3.50
	19.09	0.00	135	1a	0.20	55.64	-0.20
	19.09	0.00	225	1b	-3.50	38.18	-0.20
	19.09	0.00	315	1c	-3.64	1.80	3.64
1.2D + 1.0Di + 1.0Wi 180°	19.09	0.00	45	1	0.57	25.05	4.90
	19.09	0.00	135	1a	0.72	50.68	-0.07
	19.09	0.00	225	1b	-0.55	49.96	-0.11
	19.09	0.00	315	1c	-0.74	8.11	4.44
1.2D + 1.0Di + 1.0Wi 225°	19.09	0.00	45	1	3.40	18.87	3.96
	19.09	0.00	135	1a	3.75	38.54	-0.17
	19.09	0.00	225	1b	-0.19	55.26	-0.24
	19.09	0.00	315	1c	-0.22	21.13	3.19
1.2D + 1.0Di + 1.0Wi 270°	19.09	0.00	45	1	4.60	24.22	0.90
	19.09	0.00	135	1a	4.74	26.38	-0.54
	19.09	0.00	225	1b	-0.09	49.30	-0.95
	19.09	0.00	315	1c	-0.10	33.90	0.58
1.2D + 1.0Di + 1.0Wi 315°	19.09	0.00	45	1	3.64	37.29	0.20
	19.09	0.00	135	1a	3.50	20.16	-3.50
	19.09	0.00	225	1b	-0.20	37.29	-3.64
	19.09	0.00	315	1c	-0.21	39.05	0.21
1.2D + 1.0Ev + 1.0Eh Normal	19.09	0.00	45	1	0.91	27.09	0.41
	19.09	0.00	135	1a	1.07	14.82	-2.23
	19.09	0.00	225	1b	-1.07	14.82	-2.23
	19.09	0.00	315	1c	-0.91	27.09	0.41
1.2D + 1.0Ev + 1.0Eh 45°	19.09	0.00	45	1	0.44	29.60	0.44
	19.09	0.00	135	1a	0.43	21.01	-1.71
	19.09	0.00	225	1b	-1.73	12.20	-1.73
	19.09	0.00	315	1c	-1.71	21.01	0.43
1.2D + 1.0Ev + 1.0Eh 90°	19.09	0.00	45	1	0.41	27.09	0.91
	19.09	0.00	135	1a	0.41	27.09	-0.91
	19.09	0.00	225	1b	-2.23	14.82	-1.07
	19.09	0.00	315	1c	-2.23	14.82	1.07
1.2D + 1.0Ev + 1.0Eh 135°	19.09	0.00	45	1	0.43	21.01	1.71
	19.09	0.00	135	1a	0.44	29.60	-0.44
	19.09	0.00	225	1b	-1.71	21.01	-0.43
	19.09	0.00	315	1c	-1.73	12.20	1.73
1.2D + 1.0Ev + 1.0Eh 180°	19.09	0.00	45	1	1.07	14.82	2.23
	19.09	0.00	135	1a	0.91	27.09	-0.41
	19.09	0.00	225	1b	-0.91	27.09	-0.41
	19.09	0.00	315	1c	-1.07	14.82	2.23
1.2D + 1.0Ev + 1.0Eh 225°	19.09	0.00	45	1	1.73	12.20	1.73
	19.09	0.00	135	1a	1.71	21.01	-0.43
	19.09	0.00	225	1b	-0.44	29.60	-0.44
	19.09	0.00	315	1c	-0.43	21.01	1.71
1.2D + 1.0Ev + 1.0Eh 270°	19.09	0.00	45	1	2.23	14.82	1.07
	19.09	0.00	135	1a	2.23	14.82	-1.07
	19.09	0.00	225	1b	-0.41	27.09	-0.91
	19.09	0.00	315	1c	-0.41	27.09	0.91
1.2D + 1.0Ev + 1.0Eh 315°	19.09	0.00	45	1	1.71	21.01	0.43
	19.09	0.00	135	1a	1.73	12.20	-1.73
	19.09	0.00	225	1b	-0.43	21.01	-1.71
	19.09	0.00	315	1c	-0.44	29.60	0.44
0.9D - 1.0Ev + 1.0Eh Normal	19.09	0.00	45	1	0.93	20.59	0.32
	19.09	0.00	135	1a	1.10	8.30	-2.14
	19.09	0.00	225	1b	-1.10	8.30	-2.14
	19.09	0.00	315	1c	-0.93	20.59	0.32
0.9D - 1.0Ev + 1.0Eh 45°	19.09	0.00	45	1	0.34	23.21	0.34
	19.09	0.00	135	1a	0.42	14.40	-1.64
	19.09	0.00	225	1b	-1.70	5.77	-1.70
	19.09	0.00	315	1c	-1.64	14.40	0.42
0.9D - 1.0Ev + 1.0Eh 90°	19.09	0.00	45	1	0.32	20.59	0.93

DETAILED REACTIONS

Load Case	Radius (ft)	Elevation (ft)	Azimuth (deg)	Node	*(-) Uplift and (+) Down *Fx (kip)	*Fy (kip)	*Fz (kip)
	19.09	0.00	135	1a	0.32	20.59	-0.93
	19.09	0.00	225	1b	-2.14	8.30	-1.10
	19.09	0.00	315	1c	-2.14	8.30	1.10
0.9D - 1.0Ev + 1.0Eh 135°	19.09	0.00	45	1	0.42	14.40	1.64
	19.09	0.00	135	1a	0.34	23.21	-0.34
	19.09	0.00	225	1b	-1.64	14.40	-0.42
	19.09	0.00	315	1c	-1.70	5.77	1.70
0.9D - 1.0Ev + 1.0Eh 180°	19.09	0.00	45	1	1.10	8.30	2.14
	19.09	0.00	135	1a	0.93	20.59	-0.32
	19.09	0.00	225	1b	-0.93	20.59	-0.32
	19.09	0.00	315	1c	-1.10	8.30	2.14
0.9D - 1.0Ev + 1.0Eh 225°	19.09	0.00	45	1	1.70	5.77	1.70
	19.09	0.00	135	1a	1.64	14.40	-0.42
	19.09	0.00	225	1b	-0.34	23.21	-0.34
	19.09	0.00	315	1c	-0.42	14.40	1.64
0.9D - 1.0Ev + 1.0Eh 270°	19.09	0.00	45	1	2.14	8.30	1.10
	19.09	0.00	135	1a	2.14	8.30	-1.10
	19.09	0.00	225	1b	-0.32	20.59	-0.93
	19.09	0.00	315	1c	-0.32	20.59	0.93
0.9D - 1.0Ev + 1.0Eh 315°	19.09	0.00	45	1	1.64	14.40	0.42
	19.09	0.00	135	1a	1.70	5.77	-1.70
	19.09	0.00	225	1b	-0.42	14.40	-1.64
	19.09	0.00	315	1c	-0.34	23.21	0.34
1.0D + 1.0W Service Normal	19.09	0.00	45	1	1.10	31.88	0.04
	19.09	0.00	135	1a	0.89	11.60	-4.11
	19.09	0.00	225	1b	-1.28	9.47	-3.94
	19.09	0.00	315	1c	-0.71	23.30	0.06
1.0D + 1.0W Service 45°	19.09	0.00	45	1	0.17	37.72	0.13
	19.09	0.00	135	1a	0.11	22.03	-3.30
	19.09	0.00	225	1b	-3.39	5.11	-2.82
	19.09	0.00	315	1c	-2.73	11.39	0.16
1.0D + 1.0W Service 90°	19.09	0.00	45	1	0.07	33.34	0.63
	19.09	0.00	135	1a	0.03	32.50	-0.92
	19.09	0.00	225	1b	-4.17	10.96	-1.05
	19.09	0.00	315	1c	-3.88	-0.56	1.34
1.0D + 1.0W Service 135°	19.09	0.00	45	1	0.14	22.12	2.99
	19.09	0.00	135	1a	0.14	37.65	-0.14
	19.09	0.00	225	1b	-2.99	22.12	-0.14
	19.09	0.00	315	1c	-3.13	-5.64	3.13
1.0D + 1.0W Service 180°	19.09	0.00	45	1	1.05	10.96	4.17
	19.09	0.00	135	1a	0.92	32.50	-0.03
	19.09	0.00	225	1b	-0.63	33.34	-0.07
	19.09	0.00	315	1c	-1.34	-0.56	3.88
1.0D + 1.0W Service 225°	19.09	0.00	45	1	2.82	5.11	3.39
	19.09	0.00	135	1a	3.30	22.03	-0.11
	19.09	0.00	225	1b	-0.13	37.72	-0.17
	19.09	0.00	315	1c	-0.16	11.39	2.73
1.0D + 1.0W Service 270°	19.09	0.00	45	1	3.94	9.47	1.28
	19.09	0.00	135	1a	4.11	11.60	-0.89
	19.09	0.00	225	1b	-0.04	31.88	-1.10
	19.09	0.00	315	1c	-0.06	23.30	0.71
1.0D + 1.0W Service 315°	19.09	0.00	45	1	3.08	21.57	0.14
	19.09	0.00	135	1a	3.04	5.60	-3.04
	19.09	0.00	225	1b	-0.14	21.57	-3.08
	19.09	0.00	315	1c	-0.15	27.50	0.15

Max Uplift:	55.25 (kip)	Moment Ice:	1027.94 (kip-ft)	Moment:	2655.87 (kip-ft)
Max Down:	89.36 (kip)	Total Down Ice:	133.8 (kip)	Total Down:	91.49 (kip)
Max Shear:	15.6 (kip)	Total Shear Ice:	9.53 (kip)	Total Shear:	32.46(kip)

1.2D + 1.0W 225°

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0W Normal 119 mph wind with no ice	43.00	0.0787	-0.0610	0.1850	0.1864
1.2D + 1.0W Normal 119 mph wind with no ice	94.00	0.2482	-0.1494	0.2191	0.2651
1.2D + 1.0W Normal 119 mph wind with no ice	95.00	0.2181	-0.1053	0.2276	0.2507
1.2D + 1.0W 45° 119 mph wind with no ice	43.00	0.0852	-0.0309	0.2020	0.2021
1.2D + 1.0W 45° 119 mph wind with no ice	94.00	0.2326	-0.0793	0.1925	0.204
1.2D + 1.0W 45° 119 mph wind with no ice	95.00	0.2114	-0.0912	0.2274	0.2418
1.2D + 1.0W 90° 119 mph wind with no ice	43.00	0.0779	-0.0692	0.1807	0.1843
1.2D + 1.0W 90° 119 mph wind with no ice	94.00	0.2529	-0.1893	0.2255	0.2945
1.2D + 1.0W 90° 119 mph wind with no ice	95.00	0.2145	-0.1408	0.2322	0.2716
1.2D + 1.0W 135° 119 mph wind with no ice	43.00	0.0766	0.0052	0.1952	0.1952
1.2D + 1.0W 135° 119 mph wind with no ice	94.00	0.2044	0.0195	0.1770	0.1781
1.2D + 1.0W 135° 119 mph wind with no ice	95.00	0.2005	0.0133	0.2269	0.2273
1.2D + 1.0W 180° 119 mph wind with no ice	43.00	0.0779	0.0692	0.1807	0.1843
1.2D + 1.0W 180° 119 mph wind with no ice	94.00	0.2529	0.1893	0.2255	0.2945
1.2D + 1.0W 180° 119 mph wind with no ice	95.00	0.2145	0.1408	0.2322	0.2716
1.2D + 1.0W 225° 119 mph wind with no ice	43.00	0.0852	0.0309	0.2020	0.2021
1.2D + 1.0W 225° 119 mph wind with no ice	94.00	0.2326	0.0793	0.1925	0.204
1.2D + 1.0W 225° 119 mph wind with no ice	95.00	0.2114	0.0912	0.2274	0.2418
1.2D + 1.0W 270° 119 mph wind with no ice	43.00	0.0787	0.0610	0.1850	0.1864
1.2D + 1.0W 270° 119 mph wind with no ice	94.00	0.2482	0.1494	0.2191	0.2651
1.2D + 1.0W 270° 119 mph wind with no ice	95.00	0.2181	0.1053	0.2276	0.2507
1.2D + 1.0W 315° 119 mph wind with no ice	43.00	0.0753	0.0058	0.1506	0.1508
1.2D + 1.0W 315° 119 mph wind with no ice	94.00	0.2005	0.0215	0.1698	0.1712
1.2D + 1.0W 315° 119 mph wind with no ice	95.00	0.1959	0.0144	0.2161	0.2165
0.9D + 1.0W Normal 119 mph wind with no ice	43.00	0.0781	-0.0601	0.1770	0.1786
0.9D + 1.0W Normal 119 mph wind with no ice	94.00	0.2476	-0.1477	0.1942	0.244
0.9D + 1.0W Normal 119 mph wind with no ice	95.00	0.2176	-0.1035	0.1801	0.2077
0.9D + 1.0W 45° 119 mph wind with no ice	43.00	0.0843	-0.0307	0.1922	0.1924
0.9D + 1.0W 45° 119 mph wind with no ice	94.00	0.2312	-0.0785	0.1710	0.1836
0.9D + 1.0W 45° 119 mph wind with no ice	95.00	0.2102	-0.0902	0.1791	0.1966
0.9D + 1.0W 90° 119 mph wind with no ice	43.00	0.0771	-0.0680	0.1724	0.1823
0.9D + 1.0W 90° 119 mph wind with no ice	94.00	0.2512	-0.1864	0.1991	0.2727
0.9D + 1.0W 90° 119 mph wind with no ice	95.00	0.2132	-0.1377	0.1833	0.2293
0.9D + 1.0W 135° 119 mph wind with no ice	43.00	0.0757	0.0050	0.1851	0.1851
0.9D + 1.0W 135° 119 mph wind with no ice	94.00	0.2026	0.0187	0.1532	0.1544
0.9D + 1.0W 135° 119 mph wind with no ice	95.00	0.1989	0.0123	0.1759	0.1763
0.9D + 1.0W 180° 119 mph wind with no ice	43.00	0.0771	0.0680	0.1724	0.1823
0.9D + 1.0W 180° 119 mph wind with no ice	94.00	0.2512	0.1864	0.1991	0.2727
0.9D + 1.0W 180° 119 mph wind with no ice	95.00	0.2132	0.1377	0.1833	0.2293
0.9D + 1.0W 225° 119 mph wind with no ice	43.00	0.0843	0.0307	0.1922	0.1924
0.9D + 1.0W 225° 119 mph wind with no ice	94.00	0.2312	0.0785	0.1710	0.1836
0.9D + 1.0W 225° 119 mph wind with no ice	95.00	0.2102	0.0902	0.1791	0.1966
0.9D + 1.0W 270° 119 mph wind with no ice	43.00	0.0781	0.0601	0.1770	0.1786
0.9D + 1.0W 270° 119 mph wind with no ice	94.00	0.2476	0.1477	0.1942	0.244
0.9D + 1.0W 270° 119 mph wind with no ice	95.00	0.2176	0.1035	0.1801	0.2077
0.9D + 1.0W 315° 119 mph wind with no ice	43.00	0.0747	0.0055	0.1484	0.1485
0.9D + 1.0W 315° 119 mph wind with no ice	94.00	0.1997	0.0201	0.1471	0.1485
0.9D + 1.0W 315° 119 mph wind with no ice	95.00	0.1956	0.0131	0.1656	0.1662
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	43.00	0.0245	-0.0171	0.0896	0.0897
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	94.00	0.0686	-0.0415	0.2322	0.2353
1.2D + 1.0Di + 1.0Wi Normal 50 mph wind with 1" radial ice	95.00	0.0605	-0.0290	0.3554	0.3559
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	43.00	0.0252	-0.0089	0.0989	0.0989
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	94.00	0.0669	-0.0229	0.2330	0.2341
1.2D + 1.0Di + 1.0Wi 45° 50 mph wind with 1" radial ice	95.00	0.0607	-0.0264	0.3551	0.3559
1.2D + 1.0Di + 1.0Wi 90° 50 mph wind with 1" radial ice	43.00	0.0256	-0.0207	0.0901	0.091
1.2D + 1.0Di + 1.0Wi 90° 50 mph wind with 1" radial ice	94.00	0.0748	-0.0570	0.2352	0.242
1.2D + 1.0Di + 1.0Wi 90° 50 mph wind with 1" radial ice	95.00	0.0634	-0.0432	0.3575	0.3595
1.2D + 1.0Di + 1.0Wi 135° 50 mph wind with 1" radial ice	43.00	0.023	0.0024	0.0989	0.0989
1.2D + 1.0Di + 1.0Wi 135° 50 mph wind with 1" radial ice	94.00	0.062	0.0089	0.2214	0.2216
1.2D + 1.0Di + 1.0Wi 135° 50 mph wind with 1" radial ice	95.00	0.0599	0.0063	0.3570	0.3571
1.2D + 1.0Di + 1.0Wi 180° 50 mph wind with 1" radial ice	43.00	0.0256	0.0207	0.0901	0.091
1.2D + 1.0Di + 1.0Wi 180° 50 mph wind with 1" radial ice	94.00	0.0748	0.0570	0.2352	0.242
1.2D + 1.0Di + 1.0Wi 180° 50 mph wind with 1" radial ice	95.00	0.0634	0.0432	0.3575	0.3595
1.2D + 1.0Di + 1.0Wi 225° 50 mph wind with 1" radial ice	43.00	0.0252	0.0089	0.0989	0.0989

DEFLECTIONS AND ROTATIONS

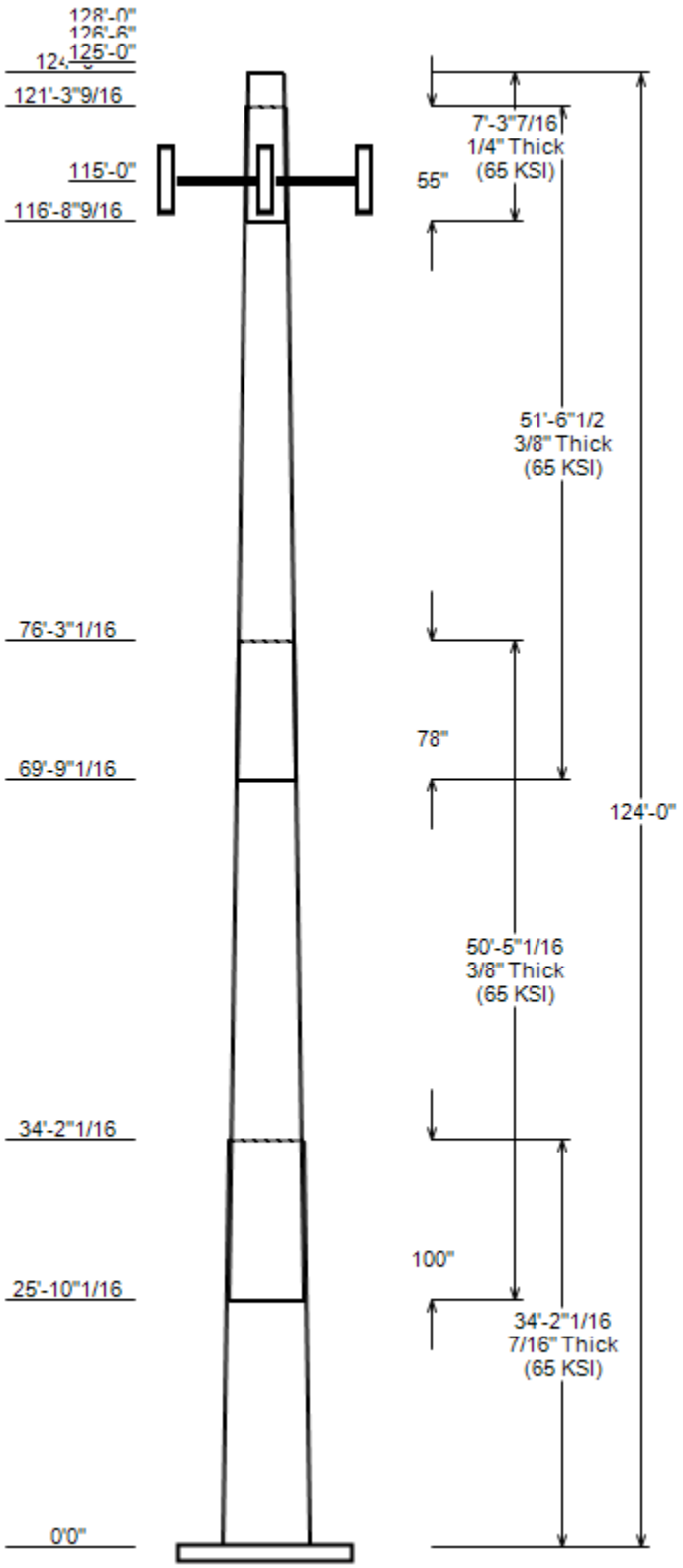
Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.2D + 1.0Di + 1.0Wi 225° 50 mph wind with 1" radial ice	94.00	0.0669	0.0229	0.2330	0.2341
1.2D + 1.0Di + 1.0Wi 225° 50 mph wind with 1" radial ice	95.00	0.0607	0.0264	0.3551	0.3559
1.2D + 1.0Di + 1.0Wi 270° 50 mph wind with 1" radial ice	43.00	0.0245	0.0171	0.0896	0.0897
1.2D + 1.0Di + 1.0Wi 270° 50 mph wind with 1" radial ice	94.00	0.0686	0.0415	0.2322	0.2353
1.2D + 1.0Di + 1.0Wi 270° 50 mph wind with 1" radial ice	95.00	0.0605	0.0290	0.3554	0.3559
1.2D + 1.0Di + 1.0Wi 315° 50 mph wind with 1" radial ice	43.00	0.0247	0.0033	0.0647	0.0647
1.2D + 1.0Di + 1.0Wi 315° 50 mph wind with 1" radial ice	94.00	0.0564	0.0117	0.2296	0.2296
1.2D + 1.0Di + 1.0Wi 315° 50 mph wind with 1" radial ice	95.00	0.0535	0.0078	0.3541	0.3542
1.2D + 1.0Ev + 1.0Eh Normal Seismic	43.00	0.0134	0.0065	0.0424	0.0429
1.2D + 1.0Ev + 1.0Eh Normal Seismic	94.00	0.0331	0.0187	0.1479	0.1486
1.2D + 1.0Ev + 1.0Eh Normal Seismic	95.00	0.0277	0.0101	0.2311	0.2314
1.2D + 1.0Ev + 1.0Eh 45° Seismic	43.00	0.013	0.0013	0.0446	0.0446
1.2D + 1.0Ev + 1.0Eh 45° Seismic	94.00	0.0279	0.0042	0.1482	0.1482
1.2D + 1.0Ev + 1.0Eh 45° Seismic	95.00	0.0242	0.0021	0.2308	0.2308
1.2D + 1.0Ev + 1.0Eh 90° Seismic	43.00	0.0134	0.0065	0.0424	0.0429
1.2D + 1.0Ev + 1.0Eh 90° Seismic	94.00	0.0331	0.0187	0.1479	0.1486
1.2D + 1.0Ev + 1.0Eh 90° Seismic	95.00	0.0277	0.0101	0.2311	0.2314
1.2D + 1.0Ev + 1.0Eh 135° Seismic	43.00	0.0097	0.0013	0.0446	0.0446
1.2D + 1.0Ev + 1.0Eh 135° Seismic	94.00	0.0228	0.0042	0.1412	0.1413
1.2D + 1.0Ev + 1.0Eh 135° Seismic	95.00	0.0239	0.0021	0.2308	0.2308
1.2D + 1.0Ev + 1.0Eh 180° Seismic	43.00	0.0134	0.0065	0.0424	0.0429
1.2D + 1.0Ev + 1.0Eh 180° Seismic	94.00	0.0331	0.0187	0.1479	0.1486
1.2D + 1.0Ev + 1.0Eh 180° Seismic	95.00	0.0277	0.0101	0.2311	0.2314
1.2D + 1.0Ev + 1.0Eh 225° Seismic	43.00	0.013	-0.0013	0.0446	0.0446
1.2D + 1.0Ev + 1.0Eh 225° Seismic	94.00	0.0279	-0.0042	0.1482	0.1482
1.2D + 1.0Ev + 1.0Eh 225° Seismic	95.00	0.0242	-0.0021	0.2308	0.2308
1.2D + 1.0Ev + 1.0Eh 270° Seismic	43.00	0.0134	-0.0065	0.0424	0.0429
1.2D + 1.0Ev + 1.0Eh 270° Seismic	94.00	0.0331	-0.0187	0.1479	0.1486
1.2D + 1.0Ev + 1.0Eh 270° Seismic	95.00	0.0277	-0.0101	0.2311	0.2314
1.2D + 1.0Ev + 1.0Eh 315° Seismic	43.00	0.013	0.0013	0.0300	0.0301
1.2D + 1.0Ev + 1.0Eh 315° Seismic	94.00	0.0279	0.0042	0.1482	0.1482
1.2D + 1.0Ev + 1.0Eh 315° Seismic	95.00	0.0242	0.0021	0.2308	0.2308
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	43.00	0.0129	0.0064	0.0309	0.0316
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	94.00	0.0329	0.0184	0.1027	0.1037
0.9D - 1.0Ev + 1.0Eh Normal Seismic (Reduced DL)	95.00	0.0268	0.0100	0.1569	0.1573
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	43.00	0.0126	0.0012	0.0325	0.0325
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	94.00	0.0281	0.0040	0.1023	0.1023
0.9D - 1.0Ev + 1.0Eh 45° Seismic (Reduced DL)	95.00	0.0233	0.0021	0.1568	0.1568
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	43.00	0.0129	0.0064	0.0309	0.0316
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	94.00	0.0329	0.0184	0.1027	0.1037
0.9D - 1.0Ev + 1.0Eh 90° Seismic (Reduced DL)	95.00	0.0268	0.0100	0.1569	0.1573
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	43.00	0.0093	0.0012	0.0325	0.0325
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	94.00	0.0222	0.0040	0.0961	0.0962
0.9D - 1.0Ev + 1.0Eh 135° Seismic (Reduced DL)	95.00	0.023	0.0021	0.1568	0.1568
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	43.00	0.0129	0.0064	0.0309	0.0316
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	94.00	0.0329	0.0184	0.1027	0.1037
0.9D - 1.0Ev + 1.0Eh 180° Seismic (Reduced DL)	95.00	0.0268	0.0100	0.1569	0.1573
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	43.00	0.0126	-0.0012	0.0325	0.0325
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	94.00	0.0281	-0.0040	0.1023	0.1023
0.9D - 1.0Ev + 1.0Eh 225° Seismic (Reduced DL)	95.00	0.0233	-0.0021	0.1568	0.1568
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	43.00	0.0129	-0.0064	0.0309	0.0316
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	94.00	0.0329	-0.0184	0.1027	0.1037
0.9D - 1.0Ev + 1.0Eh 270° Seismic (Reduced DL)	95.00	0.0268	-0.0100	0.1569	0.1573
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	43.00	0.0126	0.0012	0.0205	0.0205
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	94.00	0.0281	0.0040	0.1023	0.1023
0.9D - 1.0Ev + 1.0Eh 315° Seismic (Reduced DL)	95.00	0.0233	0.0021	0.1568	0.1568
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	43.00	0.0218	-0.0128	0.0525	0.053
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	94.00	0.0607	0.0329	0.1246	0.1289
1.0D + 1.0W Service Normal 60 mph Wind with No Ice	95.00	0.0509	-0.0220	0.1802	0.1815
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	43.00	0.0216	-0.0083	0.0569	0.057
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	94.00	0.0548	-0.0214	0.1230	0.1248
1.0D + 1.0W Service 45° 60 mph Wind with No Ice	95.00	0.0488	-0.0247	0.1808	0.1822
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	43.00	0.0222	-0.0160	0.0524	0.0529
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	94.00	0.0647	-0.0463	0.1268	0.135
1.0D + 1.0W Service 90° 60 mph Wind with No Ice	95.00	0.0519	-0.0343	0.1822	0.1854
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	43.00	0.0169	0.0017	0.0561	0.0561
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	94.00	0.0486	0.0064	0.1145	0.1147
1.0D + 1.0W Service 135° 60 mph Wind with No Ice	95.00	0.047	0.0045	0.1824	0.1825

DEFLECTIONS AND ROTATIONS

Load Case	Elevation (ft)	Deflection (ft)	Twist (deg)	Sway (deg)	Resultant (deg)
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	43.00	0.0222	0.0160	0.0524	0.0529
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	94.00	0.0647	0.0463	0.1268	0.135
1.0D + 1.0W Service 180° 60 mph Wind with No Ice	95.00	0.0519	0.0343	0.1822	0.1854
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	43.00	0.0216	0.0083	0.0569	0.057
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	94.00	0.0548	0.0214	0.1230	0.1248
1.0D + 1.0W Service 225° 60 mph Wind with No Ice	95.00	0.0488	0.0247	0.1808	0.1822
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	43.00	0.0218	0.0128	0.0525	0.053
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	94.00	0.0607	-0.0329	0.1246	0.1289
1.0D + 1.0W Service 270° 60 mph Wind with No Ice	95.00	0.0509	0.0220	0.1802	0.1815
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	43.00	0.0215	0.0023	0.0363	0.0364
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	94.00	0.0478	0.0082	0.1200	0.12
1.0D + 1.0W Service 315° 60 mph Wind with No Ice	95.00	0.0434	0.0055	0.1794	0.1795

JOB INFORMATION

Asset :	383657, Atlas Container	Height :	124 ft
Client :	T-MOBILE	Base Width :	70
Code :	ANSI/TIA-222-H	Shape :	18 Sides



SITE PARAMETERS

Base Elev (ft):	0.00	Structure Class:	II
Taper :	0.33900 (In/ft)	Exposure :	B
Topographic Category :	1	Topographic Feature:	
Topo Method :	Method 1		

SECTION PROPERTIES

Shaft Section	Length (ft)	Diameter (in) Across Flats Top	Diameter (in) Across Flats Bottom	Thick (in)	Joint Type	Overlap Length (in)	Shape	Steel Grade (ksi)
1	34.170	58.43	70.00	0.438		0.000	18 Sides	65
2	50.420	44.92	62.00	0.375	Slip Joint	100.000	18 Sides	65
3	51.540	30.42	47.87	0.375	Slip Joint	78.000	18 Sides	65
4	7.287	30.00	32.47	0.250	Slip Joint	55.000	18 Sides	65

DISCRETE APPURTENANCE

Attach Elev (ft)	Force Elev (ft)	Qty	Description
128.0	128.0	3	JMA Wireless DX12FRO260-20/26
126.5	126.5	3	Samsung MT6407-77A
125.0	125.0	3	Commscope CBC78T-DS-43-2X
125.0	125.0	3	Samsung RT4401-48A
125.0	125.0	3	Samsung B2/B66A RRH-BR049
125.0	125.0	3	Samsung B5/B13 RRH-BR04C
125.0	125.0	2	RFS DB-T1-6Z-8AB-0Z
125.0	125.0	3	Antel LPA-80080/4CF ___
125.0	125.0	3	Antel LPA-80080/4CF ___
125.0	125.0	6	Commscope JAHH-65B-R3B (63.3 l
125.0	125.0	1	Generic Flat Low Profile Platf
115.0	115.0	3	Commscope SDX1926Q-43
115.0	115.0	3	Ericsson KRY 112 144/1
115.0	115.0	3	Ericsson Radio 4415 B2, B25,
115.0	115.0	3	Ericsson Radio 4449 B71 B85A
115.0	115.0	3	Ericsson Radio 4424
115.0	115.0	3	Ericsson Air6449 B41
115.0	115.0	3	RFS APX16DWV-16DWVS-E-A20
115.0	115.0	3	RFS APXVAALL24 43-U-NA20
115.0	115.0	1	Generic Flat Low Profile Platf

LINEAR APPURTENANCE

Elev From (ft)	Elev To (ft)	Description	Exp To Wind
0.0	125.0	1 5/8" Hybriflex	No
0.0	125.0	1 5/8" Coax	No
0.0	115.0	1 5/8" Coax	No
0.0	115.0	1 5/8" (1.63"-41.3mm) Fiber	No

LOAD CASES

1.2D + 1.0W	119 mph wind with no ice
0.9D + 1.0W	119 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
1.2D + 1.0W	1548.88	18.55	46.26
0.9D + 1.0W	1544.09	18.55	34.69
1.2D + 1.0Di + 1.0Wi	399.04	5.02	58.08
1.2D + 1.0Ev + 1.0Eh	185.82	1.98	45.80

JOB INFORMATION			
Asset :	383657, Atlas Container	Height :	124 ft
Client :	T-MOBILE	Base Width :	70
Code :	ANSI/TIA-222-H	Shape :	18 Sides

REACTIONS

Load Case	Moment (kip-ft)	Shear (Kip)	Axial (Kip)
0.9D - 1.0Ev + 1.0Eh	185.14	1.98	31.57
1.0D + 1.0W	351.58	4.22	38.55

DISH DEFLECTIONS

Load Case	Attach Elev (ft)	Deflection (in)	Rotation (deg)

ANALYSIS PARAMETERS

Location:	New Haven County,CT	Height:	124 ft
Type and Shape:	Taper, 18 Sides	Base Diameter:	70.00 in
Manufacturer:	Undetermined	Top Diameter:	30.00 in
K_d (non-service):	0.95	Taper:	0.3390 in/ft
K_e:	0.99	Rotation:	0.000°

ICE & WIND PARAMETERS

Exposure Category:	B	Design Wind Speed w/o Ice:	119 mph
Risk Category:	II	Design Wind Speed w/Ice:	50 mph
Topo Factor Procedure:	Method 1	Operational Wind Speed:	60 mph
Topographic Category:	1	Design Ice Thickness:	1.00 in
Crest Height:	0 ft	HMSL:	158.00 ft

SEISMIC PARAMETERS

Analysis Method:	Equivalent Lateral Force Method				
Site Class:	D - Stiff Soil			Period Based on Rayleigh Method (sec):	1.14
T_L (sec):	6	P:	1	$C_{s:}$	0.051
$S_{s:}$	0.202	$S_{1:}$	0.055	C_s Max:	0.051
$F_{a:}$	1.600	$F_{v:}$	2.400	C_s Min:	0.030
$S_{ds:}$	0.215	$S_{d1:}$	0.088		

LOAD CASES

1.2D + 1.0W	119 mph wind with no ice
0.9D + 1.0W	119 mph wind with no ice
1.2D + 1.0Di + 1.0Wi	50 mph wind with 1" radial ice
1.2D + 1.0Ev + 1.0Eh	Seismic
0.9D - 1.0Ev + 1.0Eh	Seismic (Reduced DL)
1.0D + 1.0W	60 mph Wind with No Ice

SHAFT SECTION PROPERTIES

Sect Info	Length (ft)	Thick (in)	Fy (ksi)	Joint Type	Slip Joint len (in)	Weight (lb)	Bottom Dia (in)	Bottom Elev (ft)	Bottom Area (in^2)	Bottom Ix (in^4)	Bottom W/t Ratio	Bottom D/t Ratio	Top Dia (in)	Top Elev (in)	Top Area (in^2)	Top Ix (in^4)	Top W/t Ratio	Top D/t Ratio	Taper (in/ft)
1-18	34.17	0.4375	65		0.00	10,297	70.00	0.000	96.59	59,053.8	26.80	160.00	58.43	34.17	80.52	34,210.1	22.14	133.55	0.3387
2-18	50.42	0.3750	65	Slip	100.00	10,840	62.00	25.840	73.35	35,190.3	27.74	165.33	44.92	76.26	53.02	13,292.4	19.71	119.79	0.3387
3-18	51.54	0.3750	65	Slip	78.00	8,093	47.87	69.760	56.53	16,113.6	21.10	127.66	30.42	121.30	35.75	4,076.6	12.89	81.11	0.3387
4-18	7.29	0.2500	65	Slip	55.00	610	32.47	116.713	25.56	3,352.6	21.49	129.87	30.00	124.00	23.61	2,639.6	19.75	120.00	0.3387
				Shaft Weight		29,840													

DISCRETE APPURTENANCE PROPERTIES

Attach Elev (ft)	Description	Qty	Ka	Vert Ecc (ft)	No Ice Weight (lb)	No Ice EPAa (sf)	No Ice Orientation Factor	Ice Weight (lb)	Ice EPAa (sf)	Ice Orientation Factor
128.00	JMA Wireless DX12FRO260-20/26	3	0.80	0.000	12.30	3.000	0.61	57.38	3.761	0.61
126.50	Samsung MT6407-77A	3	0.80	0.000	81.60	4.709	0.61	148.33	5.703	0.61
125.00	Commscope CBC78T-DS-43-2X	3	0.80	0.000	20.70	0.552	0.50	35.16	0.885	0.50
125.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2405.23	38.600	1.00
125.00	Commscope JAHH-65B-R3B (63.3 l	6	0.80	0.000	63.30	9.113	0.69	195.77	10.929	0.69
125.00	Antel LPA-80080/4CF ___	3	0.80	0.000	12.00	5.399	0.62	94.09	3.157	0.62
125.00	Antel LPA-80080/4CF ___	3	0.80	0.000	12.00	5.399	0.62	94.09	3.157	0.62
125.00	RFS DB-T1-6Z-8AB-0Z	2	0.80	0.000	44.00	4.800	0.50	126.40	5.730	0.50
125.00	Samsung B5/B13 RRH-BR04C	3	0.80	0.000	70.30	1.875	0.50	107.75	2.466	0.50
125.00	Samsung B2/B66A RRH-BR049	3	0.80	0.000	84.40	1.875	0.50	126.17	2.466	0.50
125.00	Samsung RT4401-48A	3	0.80	0.000	18.60	0.996	0.50	36.28	1.444	0.50
115.00	Commscope SDX1926Q-43	3	0.80	0.000	6.20	0.242	0.50	11.78	0.470	0.50
115.00	Ericsson KRY 112 144/1	3	0.80	0.000	11.00	0.351	0.50	17.98	0.614	0.50
115.00	Generic Flat Low Profile Platf	1	1.00	0.000	1875.00	26.100	1.00	2400.67	38.492	1.00
115.00	RFS APXVAALL24 43-U-NA20	3	0.80	0.000	122.80	20.243	0.63	375.62	22.650	0.63
115.00	Ericsson Radio 4415 B2, B25,	3	0.80	0.000	46.30	1.639	0.50	74.35	2.187	0.50
115.00	Ericsson Air6449 B41	3	0.80	0.000	104.00	5.682	0.63	192.46	6.712	0.63
115.00	Ericsson Radio 4424	3	0.80	0.000	97.00	2.052	0.50	144.33	2.664	0.50
115.00	Ericsson Radio 4449 B71 B85A	3	0.80	0.000	75.00	1.650	0.50	114.04	2.201	0.50
115.00	RFS APX16DWV-16DWVS-E-A20	3	0.80	0.000	40.70	6.586	0.60	116.53	7.992	0.60
Totals	Num Loadings: 20	58			6,662.50			11,472.34		

LINEAR APPURTENANCE PROPERTIES

Load Case Azimuth (deg) : _

Elev From (ft)	Elev To (ft)	Qty	Description	Coax Dia (in)	Coax Wt (lb/ft)	Flat	Max Coax/ Row	Dist Between Rows(in)	Dist Between Cols(in)	Azimuth (deg)	Dist From Face (in)	Exposed To Wind	Carrier
0.00	125.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	VERIZON WIREL
0.00	125.00	2	1 5/8" Hybriflex	1.98	1.3	N	0	0	0	0	0	N	VERIZON WIREL
0.00	115.00	6	1 5/8" Coax	1.98	0.82	N	0	0	0	0	0	N	T-MOBILE
0.00	115.00	3	1 5/8" (1.63"-41.3mm)	1.63	1.61	N	0	0	0	0	0	N	T-MOBILE

SEGMENT PROPERTIES

(Max Len: 5.ft)

Seg Top Elev (ft)	Description	Thick (in)	Flat Dia (in)	Area (in^2)	Ix (in^4)	W/t Ratio	D/t Ratio	F'y (ksi)	S (in^3)	Z (in^3)	Weight (lb)
0.00		0.4375	70.000	96.593	59,053.80	26.80	160.00	69.9	1661.6	0.0	0.0
5.00		0.4375	68.306	94.241	54,844.80	26.12	156.13	70.7	1581.5	0.0	1,623.4
10.00		0.4375	66.613	91.890	50,840.80	25.44	152.26	71.5	1503.3	0.0	1,583.4
15.00		0.4375	64.919	89.538	47,036.50	24.75	148.39	72.3	1427.1	0.0	1,543.4
20.00		0.4375	63.226	87.186	43,426.90	24.07	144.52	73.1	1352.8	0.0	1,503.4
25.00		0.4375	61.532	84.835	40,006.80	23.39	140.65	73.9	1280.6	0.0	1,463.4
25.84	Bot - Section 2	0.4375	61.249	84.441	39,452.70	23.27	140.00	74	1268.7	0.0	241.0
30.00		0.4375	59.839	82.483	36,771.20	22.71	136.77	74.7	1210.3	0.0	2,209.6
34.17	Top - Section 1	0.3750	59.176	69.986	30,572.90	26.41	157.80	70.3	1017.6	0.0	2,161.5
35.00		0.3750	58.895	69.651	30,136.40	26.28	157.05	70.5	1007.8	0.0	197.2
40.00		0.3750	57.202	67.635	27,595.00	25.49	152.54	71.4	950.2	0.0	1,167.9
45.00		0.3750	55.508	65.620	25,200.60	24.69	148.02	72.4	894.2	0.0	1,133.6
50.00		0.3750	53.815	63.604	22,948.90	23.89	143.51	73.3	839.9	0.0	1,099.3
55.00		0.3750	52.121	61.588	20,835.50	23.10	138.99	74.2	787.4	0.0	1,065.0
60.00		0.3750	50.427	59.573	18,856.00	22.30	134.47	75.2	736.5	0.0	1,030.7
65.00		0.3750	48.734	57.557	17,006.10	21.50	129.96	76.1	687.3	0.0	996.4
69.76	Bot - Section 3	0.3750	47.123	55.639	15,362.30	20.75	125.66	77	642.1	0.0	916.1
70.00		0.3750	47.040	55.541	15,281.20	20.71	125.44	77	639.8	0.0	92.8
75.00		0.3750	45.347	53.526	13,677.10	19.91	120.92	78	594.1	0.0	1,870.8
76.26	Top - Section 2	0.3750	45.671	53.912	13,975.20	20.06	121.79	77.8	602.7	0.0	459.4
80.00		0.3750	44.403	52.403	12,834.20	19.47	118.41	78.5	569.3	0.0	677.1
85.00		0.3750	42.710	50.387	11,409.40	18.67	113.89	79.4	526.2	0.0	874.4
90.00		0.3750	41.016	48.371	10,094.20	17.88	109.38	80.4	484.7	0.0	840.1
95.00		0.3750	39.323	46.356	8,884.20	17.08	104.86	81.3	445.0	0.0	805.8
100.00		0.3750	37.629	44.340	7,774.90	16.28	100.34	82.2	407.0	0.0	771.5
105.00		0.3750	35.935	42.324	6,762.00	15.49	95.83	82.6	370.6	0.0	737.2
110.00		0.3750	34.242	40.309	5,841.20	14.69	91.31	82.6	336.0	0.0	703.0
115.00		0.3750	32.548	38.293	5,008.00	13.89	86.80	82.6	303.1	0.0	668.7
116.71	Bot - Section 4	0.3750	31.968	37.602	4,741.90	13.62	85.25	82.6	292.2	0.0	221.2
120.00		0.3750	30.855	36.277	4,258.10	13.10	82.28	82.6	271.8	0.0	694.1
121.30	Top - Section 3	0.2500	30.916	24.332	2,890.90	20.39	123.66	77.4	184.2	0.0	267.0
124.00		0.2500	30.000	23.606	2,639.60	19.75	120.00	78.2	173.3	0.0	220.5
								Totals:			29,838.9

Load Case: 1.2D + 1.0W 119 mph wind with no ice 17 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.20
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-46.26	-18.55	0.00	-1,548.9	0.00	1,548.88	6,074.67	1,695.20	10,650.56	8,708.20	0	0	0.186
5.00	-44.20	-18.02	0.00	-1,456.1	0.00	1,456.13	5,994.87	1,653.93	10,138.33	8,383.27	0.02	-0.04	0.181
10.00	-42.18	-17.50	0.00	-1,366.0	0.00	1,366.02	5,911.67	1,612.66	9,638.73	8,059.32	0.08	-0.07	0.177
15.00	-40.22	-17.00	0.00	-1,278.5	0.00	1,278.50	5,825.07	1,571.39	9,151.74	7,736.69	0.17	-0.11	0.172
20.00	-38.30	-16.50	0.00	-1,193.5	0.00	1,193.51	5,735.07	1,530.12	8,677.38	7,415.76	0.31	-0.15	0.168
25.00	-36.43	-16.22	0.00	-1,111.0	0.00	1,110.99	5,641.68	1,488.85	8,215.64	7,096.87	0.49	-0.18	0.163
25.84	-36.12	-15.98	0.00	-1,097.4	0.00	1,097.42	5,625.72	1,481.94	8,139.61	7,043.73	0.52	-0.19	0.162
30.00	-33.38	-15.57	0.00	-1,030.9	0.00	1,030.90	5,544.89	1,447.58	7,766.53	6,780.38	0.7	-0.22	0.158
34.17	-30.69	-15.32	0.00	-966.0	0.00	965.97	4,430.06	1,228.25	6,523.04	5,367.71	0.91	-0.26	0.187
35.00	-30.44	-15.04	0.00	-953.2	0.00	953.25	4,418.63	1,222.38	6,460.82	5,328.09	0.95	-0.26	0.186
40.00	-28.92	-14.55	0.00	-878.0	0.00	878.05	4,347.77	1,187.00	6,092.32	5,089.96	1.25	-0.31	0.179
45.00	-27.45	-14.05	0.00	-805.3	0.00	805.30	4,273.51	1,151.63	5,734.64	4,852.95	1.6	-0.35	0.173
50.00	-26.02	-13.56	0.00	-735.0	0.00	735.03	4,195.85	1,116.25	5,387.78	4,617.41	1.99	-0.39	0.166
55.00	-24.63	-13.06	0.00	-667.2	0.00	667.25	4,114.79	1,080.88	5,051.74	4,383.71	2.42	-0.44	0.158
60.00	-23.29	-12.57	0.00	-601.9	0.00	601.94	4,030.34	1,045.50	4,726.52	4,152.20	2.9	-0.48	0.151
65.00	-21.98	-12.09	0.00	-539.1	0.00	539.11	3,942.49	1,010.13	4,412.11	3,923.24	3.43	-0.52	0.143
69.76	-20.78	-11.84	0.00	-481.6	0.00	481.61	3,855.75	976.47	4,123.05	3,708.11	3.97	-0.56	0.135
70.00	-20.66	-11.59	0.00	-478.7	0.00	478.73	3,851.23	974.75	4,108.53	3,697.19	4	-0.56	0.135
75.00	-18.31	-11.26	0.00	-420.8	0.00	420.80	3,756.59	939.38	3,815.77	3,474.40	4.61	-0.61	0.126
76.26	-17.74	-11.02	0.00	-406.6	0.00	406.64	3,774.98	946.15	3,871.00	3,516.80	4.77	-0.62	0.120
80.00	-16.84	-10.61	0.00	-365.4	0.00	365.38	3,702.38	919.67	3,657.35	3,351.83	5.27	-0.65	0.114
85.00	-15.69	-10.13	0.00	-312.4	0.00	312.35	3,602.44	884.29	3,381.44	3,134.84	5.97	-0.69	0.104
90.00	-14.58	-9.67	0.00	-261.7	0.00	261.69	3,499.10	848.92	3,116.34	2,922.04	6.71	-0.72	0.094
95.00	-13.51	-9.22	0.00	-213.3	0.00	213.34	3,392.37	813.54	2,862.07	2,713.78	7.48	-0.76	0.083
100.00	-12.48	-8.78	0.00	-167.2	0.00	167.24	3,282.23	778.17	2,618.61	2,510.42	8.29	-0.79	0.071
105.00	-11.49	-8.35	0.00	-123.3	0.00	123.34	3,144.48	742.79	2,385.98	2,294.64	9.13	-0.81	0.058
110.00	-10.55	-7.94	0.00	-81.6	0.00	81.59	2,994.73	707.42	2,164.16	2,080.19	10	-0.83	0.043
115.00	-5.63	-4.43	0.00	-41.9	0.00	41.91	2,844.97	672.04	1,953.16	1,876.27	10.88	-0.85	0.024
116.71	-5.36	-4.23	0.00	-34.3	0.00	34.32	2,793.66	659.92	1,883.35	1,808.81	11.18	-0.85	0.021
120.00	-4.50	-4.04	0.00	-20.4	0.00	20.42	2,695.22	636.67	1,752.99	1,682.86	11.77	-0.86	0.014
121.30	-4.17	-3.89	0.00	-15.2	0.00	15.17	1,695.28	427.03	1,182.80	1,069.35	12.01	-0.86	0.017
124.00	0.00	-3.83	0.00	-4.7	0.00	4.66	1,660.79	414.28	1,113.23	1,016.06	12.49	-0.86	0.005

Load Case: 0.9D + 1.0W 119 mph wind with no ice 16 Iterations
Gust Response Factor: 1.10
Dead load Factor: 0.90
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-34.69	-18.55	0.00	-1,544.1	0.00	1,544.09	6,074.67	1,695.20	10,650.56	8,708.20	0	0	0.183
5.00	-33.14	-18.01	0.00	-1,451.4	0.00	1,451.37	5,994.87	1,653.93	10,138.33	8,383.27	0.02	-0.04	0.179
10.00	-31.63	-17.49	0.00	-1,361.3	0.00	1,361.32	5,911.67	1,612.66	9,638.73	8,059.32	0.08	-0.07	0.174
15.00	-30.15	-16.97	0.00	-1,273.9	0.00	1,273.89	5,825.07	1,571.39	9,151.74	7,736.69	0.17	-0.11	0.170
20.00	-28.71	-16.48	0.00	-1,189.0	0.00	1,189.02	5,735.07	1,530.12	8,677.38	7,415.76	0.31	-0.15	0.165
25.00	-27.31	-16.19	0.00	-1,106.6	0.00	1,106.65	5,641.68	1,488.85	8,215.64	7,096.87	0.48	-0.18	0.161
25.84	-27.08	-15.94	0.00	-1,093.1	0.00	1,093.10	5,625.72	1,481.94	8,139.61	7,043.73	0.52	-0.19	0.160
30.00	-25.02	-15.54	0.00	-1,026.7	0.00	1,026.72	5,544.89	1,447.58	7,766.53	6,780.38	0.7	-0.22	0.156
34.17	-23.00	-15.29	0.00	-961.9	0.00	961.94	4,430.06	1,228.25	6,523.04	5,367.71	0.91	-0.25	0.185
35.00	-22.81	-15.00	0.00	-949.2	0.00	949.25	4,418.63	1,222.38	6,460.82	5,328.09	0.95	-0.26	0.183
40.00	-21.67	-14.51	0.00	-874.2	0.00	874.25	4,347.77	1,187.00	6,092.32	5,089.96	1.25	-0.3	0.177
45.00	-20.57	-14.01	0.00	-801.7	0.00	801.72	4,273.51	1,151.63	5,734.64	4,852.95	1.59	-0.35	0.170
50.00	-19.49	-13.51	0.00	-731.7	0.00	731.68	4,195.85	1,116.25	5,387.78	4,617.41	1.98	-0.39	0.163
55.00	-18.45	-13.01	0.00	-664.1	0.00	664.14	4,114.79	1,080.88	5,051.74	4,383.71	2.41	-0.43	0.156
60.00	-17.44	-12.51	0.00	-599.1	0.00	599.09	4,030.34	1,045.50	4,726.52	4,152.20	2.89	-0.48	0.149
65.00	-16.46	-12.03	0.00	-536.5	0.00	536.52	3,942.49	1,010.13	4,412.11	3,923.24	3.41	-0.52	0.141
69.76	-15.56	-11.79	0.00	-479.3	0.00	479.28	3,855.75	976.47	4,123.05	3,708.11	3.95	-0.56	0.133
70.00	-15.47	-11.53	0.00	-476.4	0.00	476.41	3,851.23	974.75	4,108.53	3,697.19	3.98	-0.56	0.133
75.00	-13.71	-11.21	0.00	-418.8	0.00	418.75	3,756.59	939.38	3,815.77	3,474.40	4.59	-0.6	0.124
76.26	-13.27	-10.97	0.00	-404.7	0.00	404.66	3,774.98	946.15	3,871.00	3,516.80	4.76	-0.62	0.119
80.00	-12.60	-10.55	0.00	-363.6	0.00	363.59	3,702.38	919.67	3,657.35	3,351.83	5.25	-0.65	0.112
85.00	-11.74	-10.08	0.00	-310.8	0.00	310.81	3,602.44	884.29	3,381.44	3,134.84	5.95	-0.68	0.103
90.00	-10.90	-9.62	0.00	-260.4	0.00	260.40	3,499.10	848.92	3,116.34	2,922.04	6.68	-0.72	0.092
95.00	-10.10	-9.17	0.00	-212.3	0.00	212.29	3,392.37	813.54	2,862.07	2,713.78	7.45	-0.75	0.081
100.00	-9.33	-8.73	0.00	-166.4	0.00	166.43	3,282.23	778.17	2,618.61	2,510.42	8.26	-0.78	0.069
105.00	-8.59	-8.31	0.00	-122.8	0.00	122.76	3,144.48	742.79	2,385.98	2,294.64	9.09	-0.81	0.056
110.00	-7.88	-7.90	0.00	-81.2	0.00	81.22	2,994.73	707.42	2,164.16	2,080.19	9.95	-0.83	0.042
115.00	-4.21	-4.41	0.00	-41.7	0.00	41.73	2,844.97	672.04	1,953.16	1,876.27	10.83	-0.85	0.024
116.71	-4.00	-4.21	0.00	-34.2	0.00	34.19	2,793.66	659.92	1,883.35	1,808.81	11.14	-0.85	0.020
120.00	-3.36	-4.02	0.00	-20.4	0.00	20.35	2,695.22	636.67	1,752.99	1,682.86	11.72	-0.85	0.013
121.30	-3.11	-3.87	0.00	-15.1	0.00	15.13	1,695.28	427.03	1,182.80	1,069.35	11.96	-0.86	0.016
124.00	0.00	-3.83	0.00	-4.7	0.00	4.66	1,660.79	414.28	1,113.23	1,016.06	12.44	-0.86	0.005

Load Case: 1.2D + 1.0Di + 1.0Wi		50 mph wind with 1" radial ice			16 Iterations
Gust Response Factor:	1.10	Ice Dead Load Factor	1.00		
Dead load Factor:	1.20			Ice Importance Factor	1.00
Wind Load Factor:	1.00				

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-58.08	-5.02	0.00	-399.0	0.00	399.04	6,074.67	1,695.20	10,650.56	8,708.20	0	0	0.055
5.00	-55.69	-4.86	0.00	-373.9	0.00	373.94	5,994.87	1,653.93	10,138.33	8,383.27	0.01	-0.01	0.054
10.00	-53.32	-4.71	0.00	-349.6	0.00	349.61	5,911.67	1,612.66	9,638.73	8,059.32	0.02	-0.02	0.052
15.00	-50.99	-4.56	0.00	-326.1	0.00	326.06	5,825.07	1,571.39	9,151.74	7,736.69	0.04	-0.03	0.051
20.00	-48.71	-4.41	0.00	-303.2	0.00	303.25	5,735.07	1,530.12	8,677.38	7,415.76	0.08	-0.04	0.049
25.00	-46.47	-4.33	0.00	-281.2	0.00	281.19	5,641.68	1,488.85	8,215.64	7,096.87	0.12	-0.05	0.048
25.84	-46.10	-4.26	0.00	-277.6	0.00	277.56	5,625.72	1,481.94	8,139.61	7,043.73	0.13	-0.05	0.048
30.00	-43.05	-4.14	0.00	-259.8	0.00	259.84	5,544.89	1,447.58	7,766.53	6,780.38	0.18	-0.06	0.046
34.17	-40.05	-4.06	0.00	-242.6	0.00	242.59	4,430.06	1,228.25	6,523.04	5,367.71	0.23	-0.07	0.054
35.00	-39.73	-3.98	0.00	-239.2	0.00	239.22	4,418.63	1,222.38	6,460.82	5,328.09	0.24	-0.07	0.054
40.00	-37.86	-3.83	0.00	-219.3	0.00	219.34	4,347.77	1,187.00	6,092.32	5,089.96	0.32	-0.08	0.052
45.00	-36.03	-3.68	0.00	-200.2	0.00	200.19	4,273.51	1,151.63	5,734.64	4,852.95	0.41	-0.09	0.050
50.00	-34.25	-3.53	0.00	-181.8	0.00	181.78	4,195.85	1,116.25	5,387.78	4,617.41	0.51	-0.1	0.048
55.00	-32.52	-3.38	0.00	-164.1	0.00	164.12	4,114.79	1,080.88	5,051.74	4,383.71	0.62	-0.11	0.045
60.00	-30.84	-3.23	0.00	-147.2	0.00	147.20	4,030.34	1,045.50	4,726.52	4,152.20	0.74	-0.12	0.043
65.00	-29.21	-3.09	0.00	-131.0	0.00	131.04	3,942.49	1,010.13	4,412.11	3,923.24	0.87	-0.13	0.041
69.76	-27.70	-3.01	0.00	-116.3	0.00	116.34	3,855.75	976.47	4,123.05	3,708.11	1	-0.14	0.039
70.00	-27.57	-2.94	0.00	-115.6	0.00	115.61	3,851.23	974.75	4,108.53	3,697.19	1.01	-0.14	0.038
75.00	-24.90	-2.84	0.00	-100.9	0.00	100.92	3,756.59	939.38	3,815.77	3,474.40	1.16	-0.15	0.036
76.26	-24.24	-2.77	0.00	-97.4	0.00	97.36	3,774.98	946.15	3,871.00	3,516.80	1.21	-0.15	0.034
80.00	-23.12	-2.64	0.00	-87.0	0.00	87.00	3,702.38	919.67	3,657.35	3,351.83	1.33	-0.16	0.032
85.00	-21.67	-2.50	0.00	-73.8	0.00	73.80	3,602.44	884.29	3,381.44	3,134.84	1.5	-0.17	0.030
90.00	-20.26	-2.35	0.00	-61.3	0.00	61.32	3,499.10	848.92	3,116.34	2,922.04	1.69	-0.18	0.027
95.00	-18.91	-2.22	0.00	-49.6	0.00	49.55	3,392.37	813.54	2,862.07	2,713.78	1.88	-0.19	0.024
100.00	-17.61	-2.08	0.00	-38.5	0.00	38.46	3,282.23	778.17	2,618.61	2,510.42	2.08	-0.19	0.021
105.00	-16.37	-1.95	0.00	-28.1	0.00	28.06	3,144.48	742.79	2,385.98	2,294.64	2.28	-0.2	0.017
110.00	-15.17	-1.82	0.00	-18.3	0.00	18.31	2,994.73	707.42	2,164.16	2,080.19	2.5	-0.2	0.014
115.00	-8.29	-1.00	0.00	-9.2	0.00	9.20	2,844.97	672.04	1,953.16	1,876.27	2.71	-0.21	0.008
116.71	-7.92	-0.94	0.00	-7.5	0.00	7.48	2,793.66	659.92	1,883.35	1,808.81	2.79	-0.21	0.007
120.00	-6.91	-0.88	0.00	-4.4	0.00	4.39	2,695.22	636.67	1,752.99	1,682.86	2.93	-0.21	0.005
121.30	-6.52	-0.84	0.00	-3.2	0.00	3.24	1,695.28	427.03	1,182.80	1,069.35	2.99	-0.21	0.007
124.00	0.00	-0.81	0.00	-1.0	0.00	0.98	1,660.79	414.28	1,113.23	1,016.06	3.11	-0.21	0.001

Load Case: 1.0D + 1.0W 60 mph Wind with No Ice 16 Iterations
Gust Response Factor: 1.10
Dead load Factor: 1.00
Wind Load Factor: 1.00

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (ft-kips)	Mu MX (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (ft-kips)	Phi Mn (ft-kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-38.55	-4.22	0.00	-351.6	0.00	351.58	6,074.67	1,695.20	10,650.56	8,708.20	0	0	0.047
5.00	-36.84	-4.10	0.00	-330.5	0.00	330.49	5,994.87	1,653.93	10,138.33	8,383.27	0	-0.01	0.046
10.00	-35.17	-3.98	0.00	-310.0	0.00	310.00	5,911.67	1,612.66	9,638.73	8,059.32	0.02	-0.02	0.044
15.00	-33.54	-3.86	0.00	-290.1	0.00	290.11	5,825.07	1,571.39	9,151.74	7,736.69	0.04	-0.02	0.043
20.00	-31.95	-3.75	0.00	-270.8	0.00	270.80	5,735.07	1,530.12	8,677.38	7,415.76	0.07	-0.03	0.042
25.00	-30.40	-3.68	0.00	-252.0	0.00	252.05	5,641.68	1,488.85	8,215.64	7,096.87	0.11	-0.04	0.041
25.84	-30.15	-3.63	0.00	-249.0	0.00	248.97	5,625.72	1,481.94	8,139.61	7,043.73	0.12	-0.04	0.041
30.00	-27.87	-3.54	0.00	-233.9	0.00	233.86	5,544.89	1,447.58	7,766.53	6,780.38	0.16	-0.05	0.040
34.17	-25.63	-3.48	0.00	-219.1	0.00	219.11	4,430.06	1,228.25	6,523.04	5,367.71	0.21	-0.06	0.047
35.00	-25.42	-3.42	0.00	-216.2	0.00	216.22	4,418.63	1,222.38	6,460.82	5,328.09	0.22	-0.06	0.046
40.00	-24.17	-3.30	0.00	-199.2	0.00	199.15	4,347.77	1,187.00	6,092.32	5,089.96	0.28	-0.07	0.045
45.00	-22.95	-3.19	0.00	-182.6	0.00	182.63	4,273.51	1,151.63	5,734.64	4,852.95	0.36	-0.08	0.043
50.00	-21.76	-3.08	0.00	-166.7	0.00	166.69	4,195.85	1,116.25	5,387.78	4,617.41	0.45	-0.09	0.041
55.00	-20.61	-2.96	0.00	-151.3	0.00	151.31	4,114.79	1,080.88	5,051.74	4,383.71	0.55	-0.1	0.040
60.00	-19.49	-2.85	0.00	-136.5	0.00	136.49	4,030.34	1,045.50	4,726.52	4,152.20	0.66	-0.11	0.038
65.00	-18.41	-2.74	0.00	-122.2	0.00	122.24	3,942.49	1,010.13	4,412.11	3,923.24	0.78	-0.12	0.036
69.76	-17.41	-2.68	0.00	-109.2	0.00	109.20	3,855.75	976.47	4,123.05	3,708.11	0.9	-0.13	0.034
70.00	-17.31	-2.63	0.00	-108.5	0.00	108.54	3,851.23	974.75	4,108.53	3,697.19	0.91	-0.13	0.034
75.00	-15.36	-2.55	0.00	-95.4	0.00	95.41	3,756.59	939.38	3,815.77	3,474.40	1.05	-0.14	0.032
76.26	-14.87	-2.50	0.00	-92.2	0.00	92.20	3,774.98	946.15	3,871.00	3,516.80	1.08	-0.14	0.030
80.00	-14.13	-2.40	0.00	-82.8	0.00	82.84	3,702.38	919.67	3,657.35	3,351.83	1.2	-0.15	0.029
85.00	-13.17	-2.30	0.00	-70.8	0.00	70.82	3,602.44	884.29	3,381.44	3,134.84	1.35	-0.16	0.026
90.00	-12.24	-2.19	0.00	-59.3	0.00	59.33	3,499.10	848.92	3,116.34	2,922.04	1.52	-0.16	0.024
95.00	-11.35	-2.09	0.00	-48.4	0.00	48.37	3,392.37	813.54	2,862.07	2,713.78	1.7	-0.17	0.021
100.00	-10.49	-1.99	0.00	-37.9	0.00	37.92	3,282.23	778.17	2,618.61	2,510.42	1.88	-0.18	0.018
105.00	-9.67	-1.89	0.00	-28.0	0.00	27.97	3,144.48	742.79	2,385.98	2,294.64	2.07	-0.18	0.015
110.00	-8.88	-1.80	0.00	-18.5	0.00	18.50	2,994.73	707.42	2,164.16	2,080.19	2.27	-0.19	0.012
115.00	-4.75	-1.00	0.00	-9.5	0.00	9.51	2,844.97	672.04	1,953.16	1,876.27	2.47	-0.19	0.007
116.71	-4.51	-0.96	0.00	-7.8	0.00	7.79	2,793.66	659.92	1,883.35	1,808.81	2.54	-0.19	0.006
120.00	-3.79	-0.92	0.00	-4.6	0.00	4.63	2,695.22	636.67	1,752.99	1,682.86	2.67	-0.19	0.004
121.30	-3.52	-0.88	0.00	-3.4	0.00	3.45	1,695.28	427.03	1,182.80	1,069.35	2.72	-0.19	0.005
124.00	0.00	-0.87	0.00	-1.1	0.00	1.06	1,660.79	414.28	1,113.23	1,016.06	2.83	-0.2	0.001

EQUIVALENT LATERAL FORCES METHOD ANALYSIS

(Based on ASCE7-16 Chapters 11, 12 and 15)

Spectral Response Acceleration for Short Period (S_S):	0.202
Spectral Response Acceleration at 1.0 Second Period (S_1):	0.055
Long-Period Transition Period (T_L – Seconds):	6
Importance Factor (I_e):	1.000
Site Coefficient F_a:	1.600
Site Coefficient F_v:	2.400
Response Modification Coefficient (R):	1.500
Design Spectral Response Acceleration at Short Period (S_{ds}):	0.215
Design Spectral Response Acceleration at 1.0 Second Period (S_{d1}):	0.088
Seismic Response Coefficient (C_s):	0.051
Upper Limit C_S:	0.051
Lower Limit C_S:	0.030
Period based on Rayleigh Method (sec):	1.140
Redundancy Factor (p):	1.000
Seismic Force Distribution Exponent (k):	1.320
Total Unfactored Dead Load:	38.560 k
Seismic Base Shear (E):	1.980 k

1.2D + 1.0Ev + 1.0Eh **Seismic**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
31	122.6483	241	138	0.014	27	299
30	120.6483	277	155	0.015	30	344
29	118.3567	719	392	0.039	77	894
28	115.8567	234	124	0.012	24	291
27	112.5	755	385	0.038	75	939
26	107.5	789	379	0.037	74	981
25	102.5	824	372	0.037	73	1,024
24	97.5	858	363	0.036	71	1,066
23	92.5	892	352	0.035	69	1,109
22	87.5	926	339	0.034	66	1,152
21	82.5	961	326	0.032	64	1,194
20	78.1283	742	234	0.023	46	922
19	75.6283	481	145	0.014	28	598
18	72.5	1,957	559	0.055	109	2,433
17	69.8783	97	26	0.003	5	121
16	67.3783	998	259	0.026	51	1,241
15	62.5	1,083	254	0.025	50	1,346
14	57.5	1,117	235	0.023	46	1,389
13	52.5	1,151	215	0.021	42	1,431
12	47.5	1,186	194	0.019	38	1,474
11	42.5	1,220	172	0.017	34	1,517
10	37.5	1,254	150	0.015	29	1,559
9	34.585	212	23	0.002	4	263
8	32.085	2,233	218	0.022	43	2,776
7	27.9183	2,281	185	0.018	36	2,836
6	25.4183	255	18	0.002	4	318
5	22.5	1,550	94	0.009	18	1,926
4	17.5	1,590	70	0.007	14	1,976
3	12.5	1,630	46	0.004	9	2,026
2	7.5	1,670	24	0.002	5	2,076
1	2.5	1,710	6	0.001	1	2,125
JMA Wireless DX12FRO260-20/26	124	37	21	0.002	4	46
Samsung MT6407-77A	124	245	142	0.014	28	304
Commscope CBC78T-DS-43-2X	124	62	36	0.004	7	77

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
Samsung RT4401-48A	124	56	32	0.003	6	69
Samsung B2/B66A RRH-BR049	124	253	147	0.014	29	315
Samsung B5/B13 RRH-BR04C	124	211	122	0.012	24	262
RFS DB-T1-6Z-8AB-0Z	124	88	51	0.005	10	109
Antel LPA-80080/4CF ___	124	36	21	0.002	4	45
Antel LPA-80080/4CF ___	124	36	21	0.002	4	45
Commscope JAHH-65B-R3B (63.3 lb)	124	380	220	0.022	43	472
Generic Flat Low Profile Platform	124	1,875	1,088	0.107	213	2,331
Generic Flat Low Profile Platform	115	1,875	985	0.097	193	2,331
Commscope SDX1926Q-43	115	19	10	0.001	2	23
Ericsson KRY 112 144/1	115	33	17	0.002	3	41
Ericsson Radio 4415 B2, B25, B66A	115	139	73	0.007	14	173
Ericsson Radio 4449 B71 B85A	115	225	118	0.012	23	280
Ericsson Radio 4424	115	291	153	0.015	30	362
Ericsson Air6449 B41	115	312	164	0.016	32	388
RFS APX16DWV-16DWVS-E-A20	115	122	64	0.006	13	152
RFS APXVAALL24 43-U-NA20	115	368	194	0.019	38	458
		38,555	10,134	1.000	1,983	47,928

0.9D - 1.0Ev + 1.0Eh **Seismic (Reduced DL)**

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
31	122.6483	241	138	0.014	27	206
30	120.6483	277	155	0.015	30	237
29	118.3567	719	392	0.039	77	616
28	115.8567	234	124	0.012	24	201
27	112.5	755	385	0.038	75	647
26	107.5	789	379	0.037	74	676
25	102.5	824	372	0.037	73	706
24	97.5	858	363	0.036	71	735
23	92.5	892	352	0.035	69	765
22	87.5	926	339	0.034	66	794
21	82.5	961	326	0.032	64	823
20	78.1283	742	234	0.023	46	636
19	75.6283	481	145	0.014	28	412
18	72.5	1,957	559	0.055	109	1,677
17	69.8783	97	26	0.003	5	83
16	67.3783	998	259	0.026	51	855
15	62.5	1,083	254	0.025	50	928
14	57.5	1,117	235	0.023	46	957
13	52.5	1,151	215	0.021	42	987
12	47.5	1,186	194	0.019	38	1,016
11	42.5	1,220	172	0.017	34	1,045
10	37.5	1,254	150	0.015	29	1,075
9	34.585	212	23	0.002	4	181
8	32.085	2,233	218	0.022	43	1,914
7	27.9183	2,281	185	0.018	36	1,955
6	25.4183	255	18	0.002	4	219
5	22.5	1,550	94	0.009	18	1,328
4	17.5	1,590	70	0.007	14	1,362
3	12.5	1,630	46	0.004	9	1,397
2	7.5	1,670	24	0.002	5	1,431
1	2.5	1,710	6	0.001	1	1,465
JMA Wireless DX12FRO260-20/26	124	37	21	0.002	4	32
Samsung MT6407-77A	124	245	142	0.014	28	210
Commscope CBC78T-DS-43-2X	124	62	36	0.004	7	53
Samsung RT4401-48A	124	56	32	0.003	6	48
Samsung B2/B66A RRH-BR049	124	253	147	0.014	29	217
Samsung B5/B13 RRH-BR04C	124	211	122	0.012	24	181
RFS DB-T1-6Z-8AB-0Z	124	88	51	0.005	10	75
Antel LPA-80080/4CF ___	124	36	21	0.002	4	31
Antel LPA-80080/4CF ___	124	36	21	0.002	4	31

Segment	Height Above Base (ft)	Weight (lb)	W_z (lb-ft)	C_{vx}	Horizontal Force (lb)	Vertical Force (lb)
Commscope JAHH-65B-R3B (63.3 lb)	124	380	220	0.022	43	325
Generic Flat Low Profile Platform	124	1,875	1,088	0.107	213	1,607
Generic Flat Low Profile Platform	115	1,875	985	0.097	193	1,607
Commscope SDX1926Q-43	115	19	10	0.001	2	16
Ericsson KRY 112 144/1	115	33	17	0.002	3	28
Ericsson Radio 4415 B2, B25, B66A	115	139	73	0.007	14	119
Ericsson Radio 4449 B71 B85A	115	225	118	0.012	23	193
Ericsson Radio 4424	115	291	153	0.015	30	249
Ericsson Air6449 B41	115	312	164	0.016	32	267
RFS APX16DWV-16DWVS-E-A20	115	122	64	0.006	13	105
RFS APXVAALL24 43-U-NA20	115	368	194	0.019	38	316
		38,555	10,134	1.000	1,983	33,038

1.2D + 1.0Ev + 1.0Eh **Seismic**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-45.80	-1.98	0.00	-185.82	0.00	185.82	6,074.67	1,695.20	10,651	8,708.20	0.00	0.00	0.03
5.00	-43.73	-1.98	0.00	-175.90	0.00	175.90	5,994.87	1,653.93	10,138	8,383.27	0.00	0.00	0.03
10.00	-41.70	-1.98	0.00	-165.99	0.00	165.99	5,911.67	1,612.66	9,639	8,059.32	0.01	-0.01	0.03
15.00	-39.72	-1.97	0.00	-156.11	0.00	156.11	5,825.07	1,571.39	9,152	7,736.69	0.02	-0.01	0.03
20.00	-37.80	-1.95	0.00	-146.29	0.00	146.29	5,735.07	1,530.12	8,677	7,415.76	0.04	-0.02	0.03
25.00	-37.48	-1.95	0.00	-136.54	0.00	136.54	5,641.68	1,488.85	8,216	7,096.87	0.06	-0.02	0.03
25.84	-34.64	-1.91	0.00	-134.91	0.00	134.91	5,625.72	1,481.94	8,140	7,043.73	0.06	-0.02	0.03
30.00	-31.87	-1.87	0.00	-126.96	0.00	126.96	5,544.89	1,447.58	7,767	6,780.38	0.08	-0.03	0.02
34.17	-31.60	-1.87	0.00	-119.16	0.00	119.16	4,430.06	1,228.25	6,523	5,367.71	0.11	-0.03	0.03
35.00	-30.04	-1.84	0.00	-117.61	0.00	117.61	4,418.63	1,222.38	6,461	5,328.09	0.12	-0.03	0.03
40.00	-28.53	-1.81	0.00	-108.42	0.00	108.42	4,347.77	1,187.00	6,092	5,089.96	0.15	-0.04	0.03
45.00	-27.05	-1.77	0.00	-99.39	0.00	99.39	4,273.51	1,151.63	5,735	4,852.95	0.19	-0.04	0.03
50.00	-25.62	-1.73	0.00	-90.54	0.00	90.54	4,195.85	1,116.25	5,388	4,617.41	0.24	-0.05	0.03
55.00	-24.23	-1.68	0.00	-81.90	0.00	81.90	4,114.79	1,080.88	5,052	4,383.71	0.30	-0.05	0.03
60.00	-22.89	-1.63	0.00	-73.48	0.00	73.48	4,030.34	1,045.50	4,727	4,152.20	0.35	-0.06	0.02
65.00	-21.65	-1.58	0.00	-65.31	0.00	65.31	3,942.49	1,010.13	4,412	3,923.24	0.42	-0.06	0.02
69.76	-21.53	-1.58	0.00	-57.77	0.00	57.77	3,855.75	976.47	4,123	3,708.11	0.49	-0.07	0.02
70.00	-19.09	-1.47	0.00	-57.39	0.00	57.39	3,851.23	974.75	4,109	3,697.19	0.49	-0.07	0.02
75.00	-18.50	-1.44	0.00	-50.04	0.00	50.04	3,756.59	939.38	3,816	3,474.40	0.56	-0.07	0.02
76.26	-17.57	-1.39	0.00	-48.23	0.00	48.23	3,774.98	946.15	3,871	3,516.80	0.58	-0.08	0.02
80.00	-16.38	-1.33	0.00	-43.01	0.00	43.01	3,702.38	919.67	3,657	3,351.83	0.64	-0.08	0.02
85.00	-15.23	-1.26	0.00	-36.36	0.00	36.36	3,602.44	884.29	3,381	3,134.84	0.73	-0.08	0.02
90.00	-14.12	-1.19	0.00	-30.05	0.00	30.05	3,499.10	848.92	3,116	2,922.04	0.82	-0.09	0.01
95.00	-13.05	-1.12	0.00	-24.08	0.00	24.08	3,392.37	813.54	2,862	2,713.78	0.91	-0.09	0.01
100.00	-12.03	-1.05	0.00	-18.47	0.00	18.47	3,282.23	778.17	2,619	2,510.42	1.01	-0.09	0.01
105.00	-11.05	-0.97	0.00	-13.22	0.00	13.22	3,144.48	742.79	2,386	2,294.64	1.11	-0.10	0.01
110.00	-10.11	-0.90	0.00	-8.36	0.00	8.36	2,994.73	707.42	2,164	2,080.19	1.22	-0.10	0.01
115.00	-5.61	-0.52	0.00	-3.88	0.00	3.88	2,844.97	672.04	1,953	1,876.27	1.32	-0.10	0.00
116.71	-4.72	-0.44	0.00	-2.99	0.00	2.99	2,793.66	659.92	1,883	1,808.81	1.36	-0.10	0.00
120.00	-4.37	-0.41	0.00	-1.55	0.00	1.55	2,695.22	636.67	1,753	1,682.86	1.43	-0.10	0.00
121.30	-4.07	-0.38	0.00	-1.03	0.00	1.03	1,695.28	427.03	1,183	1,069.35	1.46	-0.10	0.00
124.00	0.00	-0.37	0.00	0.00	0.00	0.00	1,660.79	414.28	1,113	1,016.06	1.51	-0.10	0.00

0.9D - 1.0Ev + 1.0Eh **Seismic (Reduced DL)**

CALCULATED FORCES

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
0.00	-31.57	-1.98	0.00	-185.14	0.00	185.14	6,074.67	1,695.20	10,651	8,708.20	0.00	0.00	0.03
5.00	-30.14	-1.98	0.00	-175.22	0.00	175.22	5,994.87	1,653.93	10,138	8,383.27	0.00	0.00	0.03
10.00	-28.75	-1.97	0.00	-165.32	0.00	165.32	5,911.67	1,612.66	9,639	8,059.32	0.01	-0.01	0.03
15.00	-27.38	-1.96	0.00	-155.45	0.00	155.45	5,825.07	1,571.39	9,152	7,736.69	0.02	-0.01	0.03
20.00	-26.05	-1.94	0.00	-145.64	0.00	145.64	5,735.07	1,530.12	8,677	7,415.76	0.04	-0.02	0.02

Seg Elev (ft)	Pu FY (-) (kips)	Vu FX (-) (kips)	Tu MY (ft-kips)	Mu MZ (fr-kips)	Mu Mx (ft-kips)	Resultant Moment (ft-kips)	Phi Pn (kips)	Phi Vn (kips)	Phi Tn (kips)	Phi Mn (kips)	Total Deflect (in)	Rotation (deg)	Ratio
25.00	-25.84	-1.94	0.00	-135.92	0.00	135.92	5,641.68	1,488.85	8,216	7,096.87	0.06	-0.02	0.02
25.84	-23.88	-1.91	0.00	-134.29	0.00	134.29	5,625.72	1,481.94	8,140	7,043.73	0.06	-0.02	0.02
30.00	-21.97	-1.86	0.00	-126.36	0.00	126.36	5,544.89	1,447.58	7,767	6,780.38	0.08	-0.03	0.02
34.17	-21.79	-1.86	0.00	-118.58	0.00	118.58	4,430.06	1,228.25	6,523	5,367.71	0.11	-0.03	0.03
35.00	-20.71	-1.83	0.00	-117.04	0.00	117.04	4,418.63	1,222.38	6,461	5,328.09	0.12	-0.03	0.03
40.00	-19.67	-1.80	0.00	-107.88	0.00	107.88	4,347.77	1,187.00	6,092	5,089.96	0.15	-0.04	0.03
45.00	-18.65	-1.76	0.00	-98.88	0.00	98.88	4,273.51	1,151.63	5,735	4,852.95	0.19	-0.04	0.03
50.00	-17.66	-1.72	0.00	-90.07	0.00	90.07	4,195.85	1,116.25	5,388	4,617.41	0.24	-0.05	0.02
55.00	-16.70	-1.68	0.00	-81.46	0.00	81.46	4,114.79	1,080.88	5,052	4,383.71	0.29	-0.05	0.02
60.00	-15.78	-1.63	0.00	-73.08	0.00	73.08	4,030.34	1,045.50	4,727	4,152.20	0.35	-0.06	0.02
65.00	-14.92	-1.58	0.00	-64.94	0.00	64.94	3,942.49	1,010.13	4,412	3,923.24	0.42	-0.06	0.02
69.76	-14.84	-1.57	0.00	-57.44	0.00	57.44	3,855.75	976.47	4,123	3,708.11	0.48	-0.07	0.02
70.00	-13.16	-1.46	0.00	-57.06	0.00	57.06	3,851.23	974.75	4,109	3,697.19	0.49	-0.07	0.02
75.00	-12.75	-1.43	0.00	-49.75	0.00	49.75	3,756.59	939.38	3,816	3,474.40	0.56	-0.07	0.02
76.26	-12.11	-1.39	0.00	-47.95	0.00	47.95	3,774.98	946.15	3,871	3,516.80	0.58	-0.08	0.02
80.00	-11.29	-1.32	0.00	-42.76	0.00	42.76	3,702.38	919.67	3,657	3,351.83	0.64	-0.08	0.02
85.00	-10.50	-1.26	0.00	-36.15	0.00	36.15	3,602.44	884.29	3,381	3,134.84	0.73	-0.08	0.01
90.00	-9.73	-1.19	0.00	-29.87	0.00	29.87	3,499.10	848.92	3,116	2,922.04	0.82	-0.09	0.01
95.00	-9.00	-1.12	0.00	-23.93	0.00	23.93	3,392.37	813.54	2,862	2,713.78	0.91	-0.09	0.01
100.00	-8.29	-1.04	0.00	-18.35	0.00	18.35	3,282.23	778.17	2,619	2,510.42	1.01	-0.09	0.01
105.00	-7.61	-0.97	0.00	-13.14	0.00	13.14	3,144.48	742.79	2,386	2,294.64	1.11	-0.10	0.01
110.00	-6.97	-0.89	0.00	-8.31	0.00	8.31	2,994.73	707.42	2,164	2,080.19	1.21	-0.10	0.01
115.00	-3.87	-0.51	0.00	-3.85	0.00	3.85	2,844.97	672.04	1,953	1,876.27	1.31	-0.10	0.00
116.71	-3.25	-0.44	0.00	-2.98	0.00	2.98	2,793.66	659.92	1,883	1,808.81	1.35	-0.10	0.00
120.00	-3.02	-0.40	0.00	-1.54	0.00	1.54	2,695.22	636.67	1,753	1,682.86	1.42	-0.10	0.00
121.30	-2.81	-0.38	0.00	-1.02	0.00	1.02	1,695.28	427.03	1,183	1,069.35	1.45	-0.10	0.00
124.00	0.00	-0.37	0.00	0.00	0.00	0.00	1,660.79	414.28	1,113	1,016.06	1.51	-0.10	0.00

ANALYSIS SUMMARY

	Reactions						Max Usage	
Load Case	Shear FX (kips)	Shear FZ (kips)	Axial FY (kips)	Moment MX (ft-kips)	Moment MY (ft-kips)	Moment MZ (ft-kips)	Elev (ft)	Interaction Ratio
1.2D + 1.0W	18.55	0.00	46.26	0.00	0.00	1548.88	34.17	0.19
0.9D + 1.0W	18.55	0.00	34.69	0.00	0.00	1544.09	34.17	0.18
1.2D + 1.0Di + 1.0Wi	5.02	0.00	58.08	0.00	0.00	399.04	0.00	0.06
1.2D + 1.0Ev + 1.0Eh	1.98	0.00	45.80	0.00	0.00	185.82	34.17	0.03
0.9D - 1.0Ev + 1.0Eh	1.98	0.00	31.57	0.00	0.00	185.14	34.17	0.03
1.0D + 1.0W	4.22	0.00	38.55	0.00	0.00	351.58	0.00	0.05

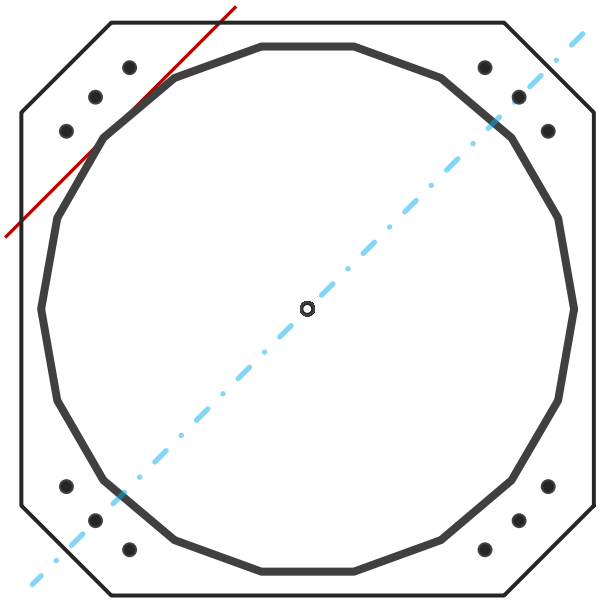
Base Plate & Anchor Rod Analysis

Pole Dimensions		
Number of Sides	18	-
Diameter	70	in
Thickness	7/16	in
Orientation Offset		°

Base Reactions		
Moment, Mu	1,548.9	k-ft
Axial, Pu	46.3	k
Shear, Vu	18.6	k
Neutral Axis	45	°

Report Capacities		
Component	Capacity	Result
Base Plate	43%	Pass
Anchor Rods	33%	Pass
Dwyidag	-	-

Base Plate		
Shape	Square	-
Width	76.5	in
Thickness	2 1/4	in
Grade	A572-60	
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Clip	12	in
Orientation Offset	0	°
Anchor Rod Detail	c	η=0.55
Clear Distance	N/A	in
Applied Moment, Mu	1123.1	k
Bending Stress, ϕMn	2601.3	k



Original Anchor Rods		
Arrangement	Cluster	-
Quantity	12	-
Diameter, ø	2 1/4	in
Bolt Circle	80	in
Grade	A615-75	
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Spacing	6.0	in
Orientation Offset	0	°
Applied Force, Pu	81.3	k
Anchor Rods, ϕPn	243.6	k

Calculations for Monopole Base Plate & Anchor Rod Analysis

Reaction Distribution

Reaction	Shear Vu	Moment Mu	Factor
-	k	k-ft	-
Base Forces	18.6	1548.9	1.00
Anchor Rod Forces	18.6	1548.9	1.00
Additional Bolt (Grp1) Forces	0.0	0.0	0.00
Additional Bolt (Grp2) Forces	0.0	0.0	0.00
Dywidag Forces	0.0	0.0	0.00
Stiffener Forces	0.0	0.0	0.00

Geometric Properties

Section	Gross Area	Net Area	Individual Inertia	Threads per Inch	Moment of Inertia
-	in^2	in^2	in^4	#	in^4
Pole	95.1253	5.2847	0.3382		57544.30
Bolt	3.9761	3.2477	0.8393	4.5	31187.89
Bolt1	0.0000	0.0000	0.0000	0	0.00
Bolt2	0.0000	0.0000	0.0000	0	0.00
Dywidag	0.0000	0.0000	0.0000		0.00
Stiffener	0.0000	0.0000	0.0000		0.00

Base Plate		
Shape	Square	-
Width, W	76.5	in
Thickness, t	2.25	in
Yield Strength, Fy	60	ksi
Tensile Strength, Fu	75	ksi
Base Plate Chord	30.859	in
Detail Type	c	-
Detail Factor	0.55	-
Clear Distance	N/A	-

Anchor Rods		
Anchor Rod Quantity, N	12	-
Rod Diameter, d	2.25	in
Bolt Circle, BC	80	in
Yield Strength, Fy	75	ksi
Tensile Strength, Fu	100	ksi
Applied Axial, Pu	81.3	k
Applied Shear, Vu	0.0	k
Compressive Capacity, ϕPn	243.6	k
Tensile Capacity, ϕRnt	0.334	OK
Interaction Capacity	0.334	OK

External Base Plate		
Chord Length AA	38.062	in
Additional AA	0.000	in
Section Modulus, Z	48.173	in^3
Applied Moment, Mu	1123.1	k-ft
Bending Capacity, ϕMn	2601.3	k-ft
Capacity, Mu/ϕMn	0.432	OK
Chord Length AB	36.981	in
Additional AB	0.000	in
Section Modulus, Z	46.804	in^3
Applied Moment, Mu	992.1	k-ft
Bending Capacity, ϕMn	2527.4	k-ft
Capacity, Mu/ϕMn	0.393	OK
Bend Line Length	0.000	in
Additional Bend Line	0.000	in
Section Modulus, Z	0.000	in^3
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕMn	0.0	k-ft
Capacity, Mu/ϕMn		

Internal Base Plate		
Arc Length	0.000	in
Section Modulus, Z	0.000	in^3
Moment Arm	0.000	in
Applied Moment, Mu	0.0	k-ft
Bending Capacity, ϕMn	0.0	k-ft
Capacity, Mu/ϕMn		

Site Name: Atlas Container, CT
Site Number: 383657
Tower Type: SST w/4 Legs
Design Loads (Factored) - Analysis per TIA-222-H Standards

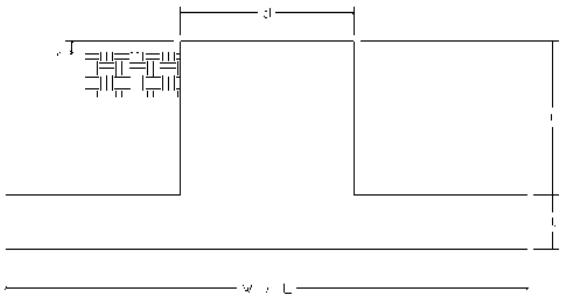
Monolithic Mat & Pier Foundation Analysis

Foundation Analysis Parameters		
Design / Analysis / Mapping:	Mapping	-
Compression/Leg:	0.0	k
Uplift/Leg:	0.0	k
Total Shear:	51.0	k
Moment:	4,204.8	k-ft
Tower + Appurtenance Weight:	137.8	k
Depth to Base of Foundation (l + t - h):	9.5	ft
Diameter of Pier (d):	3.666667	ft
Length of Pier (l):	7.5	ft
Height of Pier above Ground (h):	0.5	ft
Width of Pad (W):	50.41667	ft
Length of Pad (L):	50.66667	ft
Thickness of Pad (t):	2.5	ft
Tower Leg Center to Center:	27	ft
Number of Tower Legs:	4	-
Tower Center from Mat Center:	0	ft
Depth Below Ground Surface to Water Table:	10	ft
Unit Weight of Concrete:	150	pcf
Unit Weight of Soil Above Water Table:	120	pcf
Unit Weight of Water:	62.4	pcf
Unit Weight of Soil Below Water Table:	57.6	pcf
Friction Angle of Uplift:	0	°
Coefficient of Shear Friction:	0.35	-
Ultimate Compressive Bearing Pressure:	6,000	psf
Ultimate Passive Pressure on Pad Face:	4,000	psf
$f_{Soil\ and\ Concrete\ Weight}$:	0.9	-
f_{Soil}:	0.75	-

Overturning Moment Usage		
Design OTM:	4714.9	k-ft
OTM Resistance:	73387.5	k-ft
Design OTM / OTM Resistance:	6%	Pass

Soil Bearing Pressure Usage		
Net Bearing Pressure:	651	psf
Factored Nominal Bearing Pressure:	4500	psf
Factored Nominal (Net) Bearing Pressure:	14%	Pass
Load Direction Controling Design Bearing Pressure:	*Diagonal to Pad Edge*	

Sliding Factor of Safety		
Ultimate Friction Resistance:	1130.7	k
Ultimate Passive Pressure Resistance:	380.0	k
Total Factored Sliding Resistance:	1133.0	k
Sliding Design / Sliding Resistance:	5%	Pass



Maser Consulting Connecticut
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Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10104945
Maser Consulting Connecticut Project #: 21777434A

October 5, 2021

Site Information	*Site ID:*	*468208-VZW / MERIDEN NORTH CT*
	Site Name:	*MERIDEN NORTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*119 Empire Avenue* *Meriden, Connecticut 06450* *New Haven County*
	Latitude:	*41.572764°*
	Longitude:	*-72.778875°*
Structure Information	*Tower Type:*	*125-Ft Monopole*
	Mount Type:	*13.25-Ft Platform*

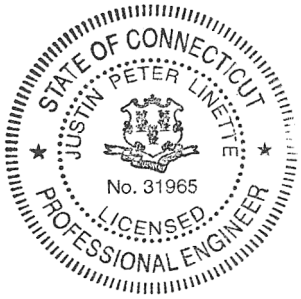
FUZE ID # 16244088

Analysis Results

Platform: **86.3% Pass**

******Contractor PMI Requirements*:**
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Frank Centone



Executive Summary:

The objective of this report is to summarize the analysis results of the antenna support mount including the proposed modifications at the subject facility for the final wireless telecommunications configuration, per the applicable codes and standards.

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	*Verizon RFDS, Site ID: 324332, dated May 24, 2021*
Mount Mapping Report	*Paul J. Ford Company, Colliers Project #: 21777434, Dated April 21, 2021*
Previous Mount Analysis Report	*Maser Consulting Connecticut, Project #: 21777434, dated September 21, 2021*
Mount Modification Drawings	*Maser Consulting Connecticut, Project #: 21777434, dated October 5, 2021*

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H	
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT}:	119 mph
	Ice Wind Speed (3-sec. Gust):	50 mph
	Design Ice Thickness:	1.00 in
	Risk Category:	II
	Exposure Category:	C
	Topographic Category:	1
	Topographic Feature Considered:	N/A
	Topographic Method:	N/A
	Ground Elevation Factor, K_e:	1.000
Seismic Parameters:	S_S:	0.202
	S_1:	0.055
Maintenance Parameters:	Wind Speed (3-sec. Gust):	30 mph
	Maintenance Live Load, Lv:	250 lbs.
	Maintenance Live 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
125.00	126.50	3	Samsung	MT6407-77A	Added
	125.00	6	Commscope	JAHH-65B-R3B	Retained
		6	Antel	LPA-80080/4CF	
		3	Commscope	CBC78T-DS-43-2X	
		3	Samsung	B2/B66A RRH-BR049	
		3	Samsung	B5/B13 RRH0BR04C	
		3	Samsung	CBRS RRH - RT4401-48A	
		2	Raycap	RRFDC-3315-PF-48	
	123.00	3	JMA Wireless	DX12FRO260-20	

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

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

Standard Conditions:

1. All engineering services are performed on the basis that the information provided to Maser Consulting Connecticut and used in this analysis is current and correct. The existing equipment loading has been applied at locations determined from the supplied documentation. Any deviation from the loading locations specified in this report shall be communicated to Maser Consulting Connecticut to verify deviation will not adversely impact the analysis.

2. Mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.

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

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

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

4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.

5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.

6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Maser Consulting Connecticut is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.

7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
   - Channel, Solid Round, Angle, Plate — ASTM A36 (Gr. 36)
   - HSS (Rectangular) — ASTM 500 (Gr. B-46)
   - Pipe — ASTM A53 (Gr. B-35)
   - Threaded Rod — F1554 (Gr. 36)
   - Bolts — ASTM A325

8. Any mount modifications listed under Sources of Information are assumed to have been installed per the design specifications.

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	28.2%	Pass
Face Horizontal	23.1%	Pass
Mount Pipe	46.6%	Pass
Dual Mount Pipe	38.7%	Pass
MOD Kicker	8.8%	Pass
Mount Connection	86.3%	Pass

Structure Rating – *(Controlling Utilization of all Components)*	**86.3%**

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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

Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter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PAUL J. FORD & COMPANY

Desktop Mount Mapping Form

Site Name:	Meriden North CT	**Tower Type:**	Monopole
Site ID:		**Tower Owner:**	
PSLC:	468208	**Tower Height (Ft.):**	128
Customer:		**Mount Elevation (Ft.):**	124
Colliers Project No.	21777434	**Date:**	4/21/2021

Document Type	Provided? (Yes/No)	Source Name	Project No.	Dated	Comments/Remarks
Previous Mount Mapping	Yes	ATC#383657_VZW 468208_Mount Mapping_Verizon_128.5_11-14-2019	1009-Z0003-H/317-	11/14/2019	Provided and gives graphical details of mounts and antennas.
Previous Mapping Photos	No				
Previous Mount Analysis	Yes	STAMPED PDF. VERIZON WIRELESS @383657 Atlas Container CT CT (13000519_C8_06) Passing Mount Analysis (70%)	13000519_C8_06	3/30/2020	Provided and is the primary source of mount information. Mount part numbers along with graphical details are shown.
Previous Mount Modifications	No				
Previous Structural Analysis	No				
Construction Drawings	No				
Closeout Package	No				
Closeout Photos	No				
Handover Package	No				
New Build 445 Documentation	No				
Other	No				
Previous PMI	No				

The desktop mount mapping is based on the engineering review of the available site documents in FUZE, as listed above, in place of a full mount mapping. It is assumed that the information provided in the documents listed above, provide an accurate representation of the existing mount. EOR reserves the right and will typically require additional clarification and verification as will be included in the PMI requirements. During the Post Modification Inspection (PMI) process, the GC on site will be required to confirm all questions, confirmations, and validations as posed by the EOR. The engineering review for this desktop mount mapping was performed in accordance to the ANSI/TIA-222-H requirements and Verizon's NSTD446 standard.

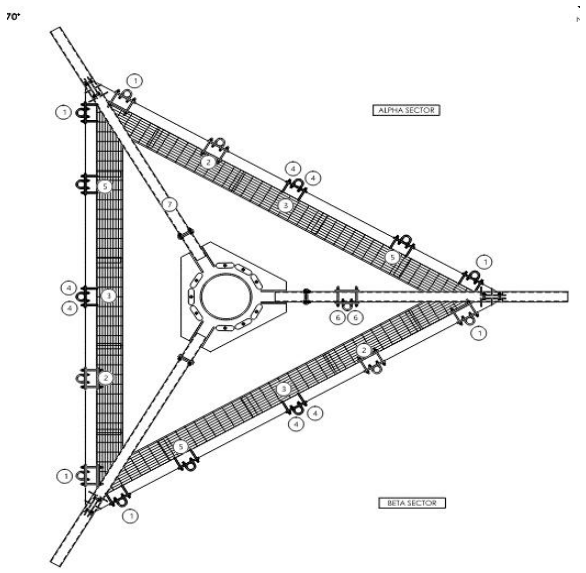
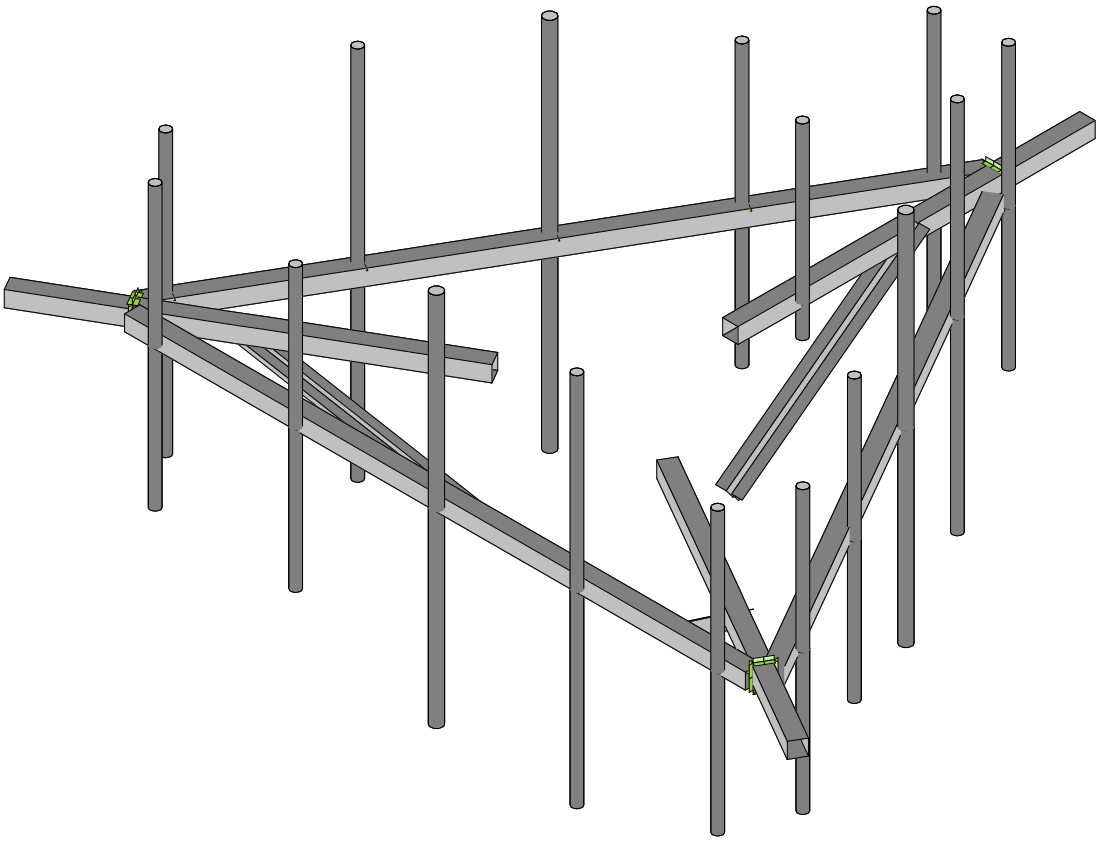


Photo taken from: Previous Mount Mapping



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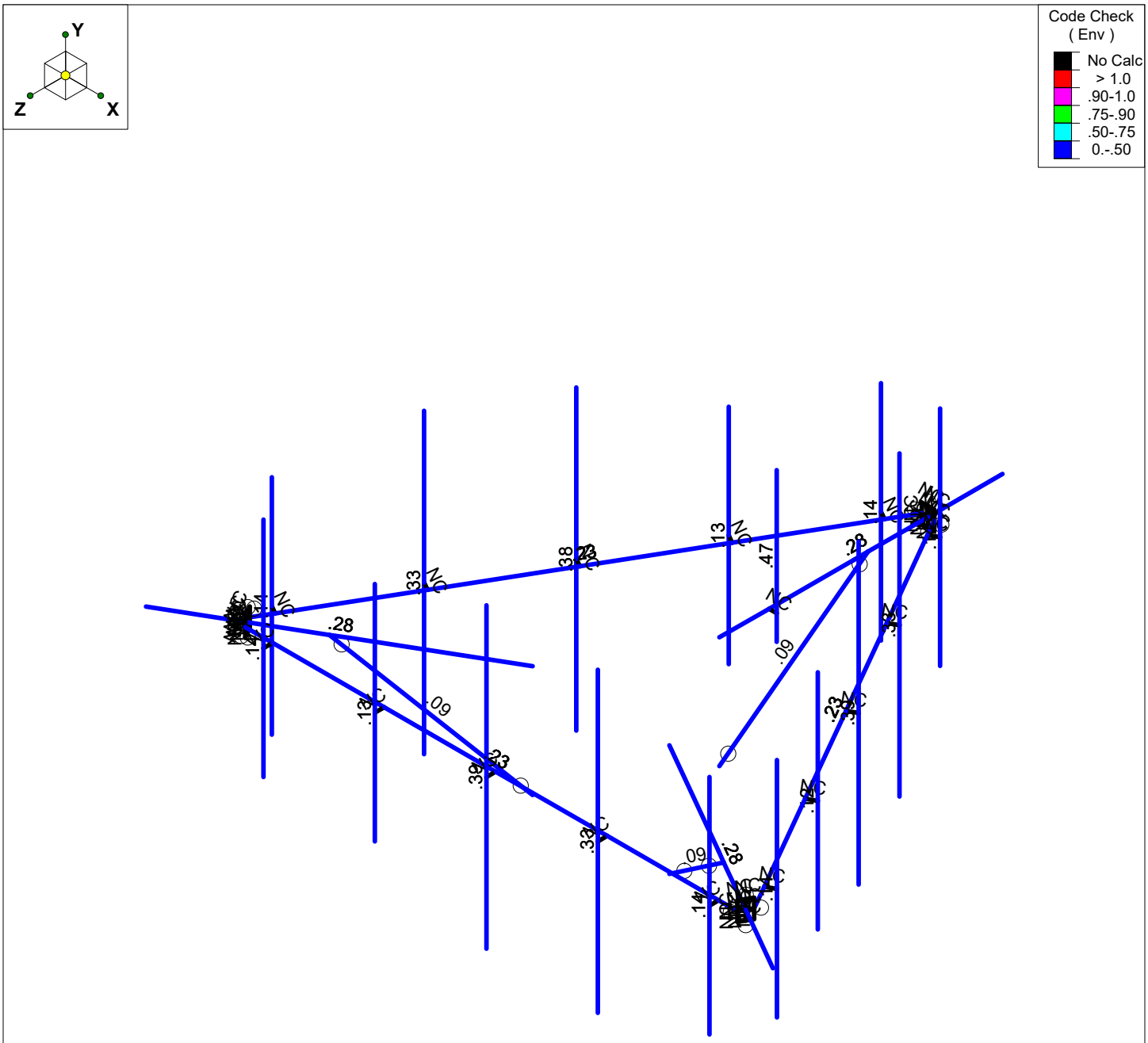
		Oct 5, 2021 at 12:02 PM
		_MOD_468208-VZW_MT_LO_H_....



Member Code Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting Connect...	Mount Analysis	SK - 2
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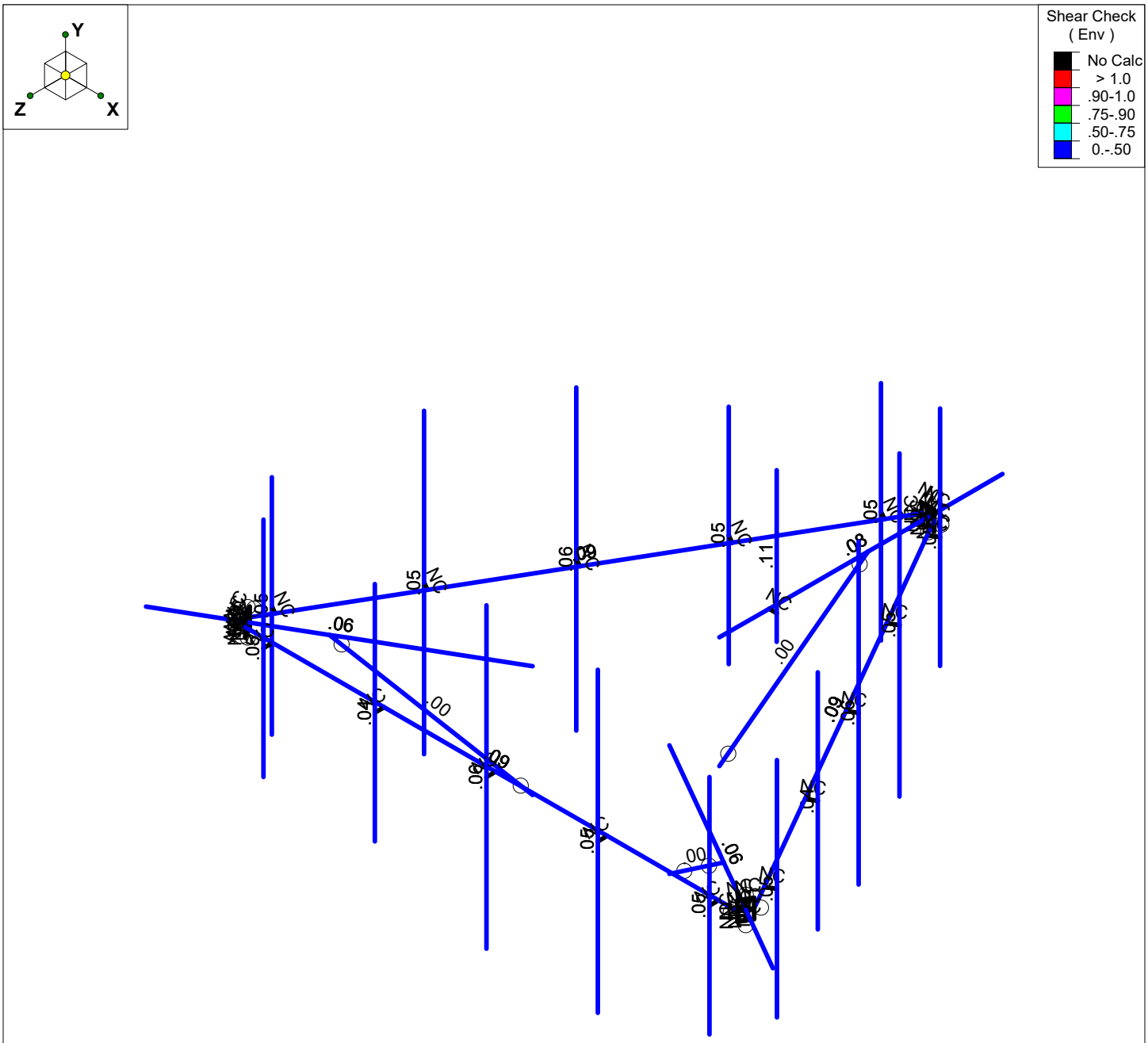
		_MOD_468208-VZW_MT_LO_H_....



Member Shear Checks Displayed (Enveloped)
Results for LC 1, 1.2D+1.0Wo (0 Deg)

Maser Consulting Connect...	Mount Analysis	SK - 3
		Oct 5, 2021 at 12:02 PM
		_MOD_468208-VZW_MT_LO_H_....

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
1	Antenna D	None					141			
2	Antenna Di	None					141			
3	Antenna Wo (0 Deg)	None					141			
4	Antenna Wo (30 Deg)	None					141			
5	Antenna Wo (60 Deg)	None					141			
6	Antenna Wo (90 Deg)	None					141			
7	Antenna Wo (120 Deg)	None					141			
8	Antenna Wo (150 Deg)	None					141			
9	Antenna Wo (180 Deg)	None					141			
10	Antenna Wo (210 Deg)	None					141			
11	Antenna Wo (240 Deg)	None					141			
12	Antenna Wo (270 Deg)	None					141			
13	Antenna Wo (300 Deg)	None					141			
14	Antenna Wo (330 Deg)	None					141			
15	Antenna Wi (0 Deg)	None					141			
16	Antenna Wi (30 Deg)	None					141			
17	Antenna Wi (60 Deg)	None					141			
18	Antenna Wi (90 Deg)	None					141			
19	Antenna Wi (120 Deg)	None					141			
20	Antenna Wi (150 Deg)	None					141			
21	Antenna Wi (180 Deg)	None					141			
22	Antenna Wi (210 Deg)	None					141			
23	Antenna Wi (240 Deg)	None					141			
24	Antenna Wi (270 Deg)	None					141			
25	Antenna Wi (300 Deg)	None					141			
26	Antenna Wi (330 Deg)	None					141			
27	Antenna Wm (0 Deg)	None					141			
28	Antenna Wm (30 Deg)	None					141			
29	Antenna Wm (60 Deg)	None					141			
30	Antenna Wm (90 Deg)	None					141			
31	Antenna Wm (120 Deg)	None					141			
32	Antenna Wm (150 Deg)	None					141			
33	Antenna Wm (180 Deg)	None					141			
34	Antenna Wm (210 Deg)	None					141			
35	Antenna Wm (240 Deg)	None					141			
36	Antenna Wm (270 Deg)	None					141			
37	Antenna Wm (300 Deg)	None					141			
38	Antenna Wm (330 Deg)	None					141			
39	Structure D	None		-1					3	
40	Structure Di	None						25	3	
41	Structure Wo (0 Deg)	None						50		
42	Structure Wo (30 Deg)	None						50		
43	Structure Wo (60 Deg)	None						50		
44	Structure Wo (90 Deg)	None						50		
45	Structure Wo (120 D...	None						50		
46	Structure Wo (150 D...	None						50		
47	Structure Wo (180 D...	None						50		
48	Structure Wo (210 D...	None						50		
49	Structure Wo (240 D...	None						50		
50	Structure Wo (270 D...	None						50		
51	Structure Wo (300 D...	None						50		
52	Structure Wo (330 D...	None						50		
53	Structure Wi (0 Deg)	None						50		
54	Structure Wi (30 Deg)	None						50		
55	Structure Wi (60 Deg)	None						50		
56	Structure Wi (90 Deg)	None						50		

Basic Load Cases (Continued)

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me...	Surface(P...
57	Structure Wi (120 De...	None						50		
58	Structure Wi (150 De...	None						50		
59	Structure Wi (180 De...	None						50		
60	Structure Wi (210 De...	None						50		
61	Structure Wi (240 De...	None						50		
62	Structure Wi (270 De...	None						50		
63	Structure Wi (300 De...	None						50		
64	Structure Wi (330 De...	None						50		
65	Structure Wm (0 Deg)	None						50		
66	Structure Wm (30 De...	None						50		
67	Structure Wm (60 De...	None						50		
68	Structure Wm (90 De...	None						50		
69	Structure Wm (120 D...	None						50		
70	Structure Wm (150 D...	None						50		
71	Structure Wm (180 D...	None						50		
72	Structure Wm (210 D...	None						50		
73	Structure Wm (240 D...	None						50		
74	Structure Wm (270 D...	None						50		
75	Structure Wm (300 D...	None						50		
76	Structure Wm (330 D...	None						50		
77	Lm1	None					1			
78	Lm2	None					1			
79	Lv1	None					1			
80	Lv2	None					1			
81	BLC 39 Transient Are...	None						15		
82	BLC 40 Transient Are...	None						15		

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	1.2D+1.0Wo (0 ...	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3	1.2D+1.0Wo (60...	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4	1.2D+1.0Wo (90...	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5	1.2D+1.0Wo (12...	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6	1.2D+1.0Wo (15...	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7	1.2D+1.0Wo (18...	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8	1.2D+1.0Wo (21...	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9	1.2D+1.0Wo (24...	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10	1.2D+1.0Wo (27...	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11	1.2D+1.0Wo (30...	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12	1.2D+1.0Wo (33...	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								
23	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1....	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 +...	Yes	Y		1	1.2	39	1.2	77	1.5	28	1	66	1										

Load Combinations (Continued)

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

Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N3	0	0	-2.125	0	
2	N27	0	0	-9.739583	0	
3	CP	0	0	0	0	
4	N5	0	0	-7.739583	0	
5	N6	0.166667	0	-7.739583	0	
6	N7	-0.166667	0	-7.739583	0	
7	N8	0	.25	-7.739583	0	
8	N9	0.166667	.25	-7.739583	0	
9	N10	-0.166667	.25	-7.739583	0	
10	N11	0	-.25	-7.739583	0	
11	N12	0.166667	-.25	-7.739583	0	
12	N13	-0.166667	-.25	-7.739583	0	
13	N14	-1.840304	0	1.0625	0	
14	N15	-8.434727	0	4.869792	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
15	N17	-6.702676	0	3.869792	0	
16	N18	-6.786009	0	3.725454	0	
17	N19	-6.619342	0	4.014129	0	
18	N20	-6.702676	.25	3.869792	0	
19	N21	-6.786009	.25	3.725454	0	
20	N22	-6.619342	.25	4.014129	0	
21	N23	-6.702676	-.25	3.869792	0	
22	N24	-6.786009	-.25	3.725454	0	
23	N25	-6.619342	-.25	4.014129	0	
24	N26	1.840304	0	1.0625	0	
25	N27A	8.434727	0	4.869792	0	
26	N29	6.702676	0	3.869792	0	
27	N30	6.619342	0	4.014129	0	
28	N31	6.786009	0	3.725454	0	
29	N32	6.702676	.25	3.869792	0	
30	N33	6.619342	.25	4.014129	0	
31	N34	6.786009	.25	3.725454	0	
32	N35	6.702676	-.25	3.869792	0	
33	N36	6.619342	-.25	4.014129	0	
34	N37	6.786009	-.25	3.725454	0	
35	N90	0.208333	0	-3.458333	0	
36	N91	-0.	0	-3.458333	0	
37	N92	0.208333	3.333333	-3.458333	0	
38	N93	0.208333	-0.666667	-3.458333	0	
39	N43	6.119342	0	4.014129	0	
40	N40	6.119342	0	4.264129	0	
41	N41	6.119342	3	4.264129	0	
42	N42	6.119342	-3	4.264129	0	
43	N43A	3.119342	0	4.014129	0	
44	N44	3.119342	0	4.264129	0	
45	N45	3.119342	4	4.264129	0	
46	N46	3.119342	-4	4.264129	0	
47	N47	0.119342	0	4.014129	0	
48	N48	0.119342	0	4.264129	0	
49	N49	0.119342	4	4.264129	0	
50	N50	0.119342	-4	4.264129	0	
51	N51	-2.880658	0	4.014129	0	
52	N52	-2.880658	0	4.264129	0	
53	N53	-2.880658	3	4.264129	0	
54	N54	-2.880658	-3	4.264129	0	
55	N55	-5.880658	0	4.014129	0	
56	N56	-5.880658	0	4.264129	0	
57	N57	-5.880658	3	4.264129	0	
58	N58	-5.880658	-3	4.264129	0	
59	N59	0.416667	0	-7.306571	0	
60	N60	0.633173	0	-7.431571	0	
61	N61	0.633173	3	-7.431571	0	
62	N62	0.633173	-3	-7.431571	0	
63	N63	1.916667	0	-4.708494	0	
64	N64	2.133173	0	-4.833494	0	
65	N65	2.133173	4	-4.833494	0	
66	N66	2.133173	-4	-4.833494	0	
67	N67	3.416667	0	-2.110418	0	
68	N68	3.633173	0	-2.235418	0	
69	N69	3.633173	4	-2.235418	0	
70	N70	3.633173	-4	-2.235418	0	
71	N71	4.916667	0	0.487658	0	

Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
72	N72	5.133173	0	0.362658	0	
73	N73	5.133173	3	0.362658	0	
74	N74	5.133173	-3	0.362658	0	
75	N75	6.416667	0	3.085734	0	
76	N76	6.633173	0	2.960734	0	
77	N77	6.633173	3	2.960734	0	
78	N78	6.633173	-3	2.960734	0	
79	N79	-6.536009	0	3.292441	0	
80	N80	-6.752515	0	3.167441	0	
81	N81	-6.752515	3	3.167441	0	
82	N82	-6.752515	-3	3.167441	0	
83	N83	-5.036009	0	0.694365	0	
84	N84	-5.252515	0	0.569365	0	
85	N85	-5.252515	4	0.569365	0	
86	N86	-5.252515	-4	0.569365	0	
87	N87	-3.536009	0	-1.903711	0	
88	N88	-3.752515	0	-2.028711	0	
89	N89	-3.752515	4	-2.028711	0	
90	N90A	-3.752515	-4	-2.028711	0	
91	N91A	-2.036009	0	-4.501787	0	
92	N92A	-2.252515	0	-4.626787	0	
93	N93A	-2.252515	3	-4.626787	0	
94	N94	-2.252515	-3	-4.626787	0	
95	N95	-0.536009	0	-7.099863	0	
96	N96	-0.752515	0	-7.224863	0	
97	N97	-0.752515	3	-7.224863	0	
98	N98	-0.752515	-3	-7.224863	0	
99	N99	0	0	-5.739583	0	
100	N101	-4.970625	0	2.869792	0	
101	N103	4.970625	0	2.869792	0	
102	N102	0	0	-6.125	0	
103	N103A	0	-3	-2.125	0	
104	N104	-5.304406	0	3.0625	0	
105	N105	-1.840304	-3	1.0625	0	
106	N106	5.304406	0	3.0625	0	
107	N107	1.840304	-3	1.0625	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design ...	A [in2]	Iyy [in4]	Izz [in4]	J [in4]
1	Face Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
2	Standoff Horizontal	HSS4X4X4	Beam	SquareTube	A500 Gr.B Rect	Typical	3.37	7.8	7.8	12.8
3	Mount Pipe	PIPE_2.0	Column	Pipe	A53 Gr.B	Typical	1.02	.627	.627	1.25
4	Dual Mount Pipe	PIPE_2.5	Column	Pipe	A53 Gr.B	Typical	1.61	1.45	1.45	2.89
5	MOD Kicker	LL3x3x3x6	Column	Double Angle (...	A36 Gr.36	Typical	2.18	4.97	1.9	.027

Hot Rolled Steel Properties

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

Hot Rolled Steel Properties (Continued)

	Label	E [ksi]	G [ksi]	Nu	Therm (/1E...Density[k/ft...	Yield[ksi]	Ry	Fu[ksi]	Rt
8	Q235	29000	11154	.3	.65	.49	35	1.5	58	1.2

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
1	M4	N3	N27			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
2	M2	N7	N5			RIGID	None	None	RIGID	Typical
3	M3	N6	N5			RIGID	None	None	RIGID	Typical
4	M4A	N10	N8			RIGID	None	None	RIGID	Typical
5	M5	N9	N8			RIGID	None	None	RIGID	Typical
6	M6	N13	N11			RIGID	None	None	RIGID	Typical
7	M7	N12	N11			RIGID	None	None	RIGID	Typical
8	M8	N8	N5			RIGID	None	None	RIGID	Typical
9	M9	N11	N5			RIGID	None	None	RIGID	Typical
10	M10	N7	N10			RIGID	None	None	RIGID	Typical
11	M11	N6	N9			RIGID	None	None	RIGID	Typical
12	M12	N7	N13			RIGID	None	None	RIGID	Typical
13	M13	N6	N12			RIGID	None	None	RIGID	Typical
14	M14	N14	N15			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
15	M15	N19	N17			RIGID	None	None	RIGID	Typical
16	M16	N18	N17			RIGID	None	None	RIGID	Typical
17	M17	N22	N20			RIGID	None	None	RIGID	Typical
18	M18	N21	N20			RIGID	None	None	RIGID	Typical
19	M19	N25	N23			RIGID	None	None	RIGID	Typical
20	M20	N24	N23			RIGID	None	None	RIGID	Typical
21	M21	N20	N17			RIGID	None	None	RIGID	Typical
22	M22	N23	N17			RIGID	None	None	RIGID	Typical
23	M23	N19	N22			RIGID	None	None	RIGID	Typical
24	M24	N18	N21			RIGID	None	None	RIGID	Typical
25	M25	N19	N25			RIGID	None	None	RIGID	Typical
26	M26	N18	N24			RIGID	None	None	RIGID	Typical
27	M27	N26	N27A			Standoff Horiz...	Beam	SquareTube	A500 Gr.B...	Typical
28	M28	N31	N29			RIGID	None	None	RIGID	Typical
29	M29	N30	N29			RIGID	None	None	RIGID	Typical
30	M30	N34	N32			RIGID	None	None	RIGID	Typical
31	M31	N33	N32			RIGID	None	None	RIGID	Typical
32	M32	N37	N35			RIGID	None	None	RIGID	Typical
33	M33	N36	N35			RIGID	None	None	RIGID	Typical
34	M34	N32	N29			RIGID	None	None	RIGID	Typical
35	M35	N35	N29			RIGID	None	None	RIGID	Typical
36	M36	N31	N34			RIGID	None	None	RIGID	Typical
37	M37	N30	N33			RIGID	None	None	RIGID	Typical
38	M38	N31	N37			RIGID	None	None	RIGID	Typical
39	M39	N30	N36			RIGID	None	None	RIGID	Typical
40	M40	N18	N7			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
41	M41	N6	N31			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
42	M42	N19	N30			Face Horizontal	Beam	SquareTube	A500 Gr.B...	Typical
43	OVP	N92	N93			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
44	M68	N91	N90			RIGID	None	None	RIGID	Typical
45	MP1A	N41	N42			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
46	M46	N40	N43			RIGID	None	None	RIGID	Typical
47	MP2A	N45	N46			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
48	M48	N44	N43A			RIGID	None	None	RIGID	Typical
49	MP3A	N49	N50			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
50	M50	N48	N47			RIGID	None	None	RIGID	Typical
51	MP4A	N53	N54			Mount Pipe	Column	Pipe	A53 Gr.B	Typical

Member Primary Data (Continued)

	Label	I Joint	J Joint	K Joint	Rotate(deg)	Section/Shape	Type	Design List	Material	Design Rules
52	M52	N52	N51			RIGID	None	None	RIGID	Typical
53	MP5A	N57	N58			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
54	M54	N56	N55			RIGID	None	None	RIGID	Typical
55	MP1C	N61	N62			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
56	M56	N60	N59			RIGID	None	None	RIGID	Typical
57	MP2C	N65	N66			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
58	M58	N64	N63			RIGID	None	None	RIGID	Typical
59	MP3C	N69	N70			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
60	M60	N68	N67			RIGID	None	None	RIGID	Typical
61	MP4C	N73	N74			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
62	M62	N72	N71			RIGID	None	None	RIGID	Typical
63	MP5C	N77	N78			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
64	M64	N76	N75			RIGID	None	None	RIGID	Typical
65	MP1B	N81	N82			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
66	M66	N80	N79			RIGID	None	None	RIGID	Typical
67	MP2B	N85	N86			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
68	M68A	N84	N83			RIGID	None	None	RIGID	Typical
69	MP3B	N89	N90A			Dual Mount Pipe	Column	Pipe	A53 Gr.B	Typical
70	M70	N88	N87			RIGID	None	None	RIGID	Typical
71	MP4B	N93A	N94			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
72	M72	N92A	N91A			RIGID	None	None	RIGID	Typical
73	MP5B	N97	N98			Mount Pipe	Column	Pipe	A53 Gr.B	Typical
74	M74	N96	N95			RIGID	None	None	RIGID	Typical
75	M75	N102	N103A			MOD Kicker	Column	Double Angle (...	A36 Gr.36	Typical
76	M76	N104	N105			MOD Kicker	Column	Double Angle (...	A36 Gr.36	Typical
77	M77	N106	N107			MOD Kicker	Column	Double Angle (...	A36 Gr.36	Typical

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu...	Kyy	Kzz	Cb	Function
1	M4	Standoff Ho...	7.615			Lbyy						Lateral
2	M14	Standoff Ho...	7.615			Lbyy						Lateral
3	M27	Standoff Ho...	7.615			Lbyy						Lateral
4	M40	Face Horizo...	13.239			Lbyy						Lateral
5	M41	Face Horizo...	13.239			Lbyy						Lateral
6	M42	Face Horizo...	13.239			Lbyy						Lateral
7	OVP	Mount Pipe	4									Lateral
8	MP1A	Mount Pipe	6									Lateral
9	MP2A	Mount Pipe	8									Lateral
10	MP3A	Dual Mount ...	8									Lateral
11	MP4A	Mount Pipe	6									Lateral
12	MP5A	Mount Pipe	6									Lateral
13	MP1C	Mount Pipe	6									Lateral
14	MP2C	Mount Pipe	8									Lateral
15	MP3C	Dual Mount ...	8									Lateral
16	MP4C	Mount Pipe	6									Lateral
17	MP5C	Mount Pipe	6									Lateral
18	MP1B	Mount Pipe	6									Lateral
19	MP2B	Mount Pipe	8									Lateral
20	MP3B	Dual Mount ...	8									Lateral
21	MP4B	Mount Pipe	6									Lateral
22	MP5B	Mount Pipe	6									Lateral
23	M75	MOD Kicker	5									Lateral
24	M76	MOD Kicker	5									Lateral
25	M77	MOD Kicker	5									Lateral

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-43.55	.5
2	MP2A	My	-.022	.5
3	MP2A	Mz	0	.5
4	MP2A	Y	-43.55	2.5
5	MP2A	My	-.022	2.5
6	MP2A	Mz	0	2.5
7	MP2B	Y	-43.55	.5
8	MP2B	My	.014	.5
9	MP2B	Mz	-.017	.5
10	MP2B	Y	-43.55	2.5
11	MP2B	My	.014	2.5
12	MP2B	Mz	-.017	2.5
13	MP2C	Y	-43.55	.5
14	MP2C	My	.011	.5
15	MP2C	Mz	.019	.5
16	MP2C	Y	-43.55	2.5
17	MP2C	My	.011	2.5
18	MP2C	Mz	.019	2.5
19	MP3A	Y	-31.65	1
20	MP3A	My	-.016	1
21	MP3A	Mz	.018	1
22	MP3A	Y	-31.65	5
23	MP3A	My	-.016	5
24	MP3A	Mz	.018	5
25	MP3B	Y	-31.65	1
26	MP3B	My	-.004	1
27	MP3B	Mz	-.024	1
28	MP3B	Y	-31.65	5
29	MP3B	My	-.004	5
30	MP3B	Mz	-.024	5
31	MP3C	Y	-31.65	1
32	MP3C	My	-.008	1
33	MP3C	Mz	.023	1
34	MP3C	Y	-31.65	5
35	MP3C	My	-.008	5
36	MP3C	Mz	.023	5
37	MP3A	Y	-31.65	1
38	MP3A	My	-.016	1
39	MP3A	Mz	-.018	1
40	MP3A	Y	-31.65	5
41	MP3A	My	-.016	5
42	MP3A	Mz	-.018	5
43	MP3B	Y	-31.65	1
44	MP3B	My	.024	1
45	MP3B	Mz	-.000255	1
46	MP3B	Y	-31.65	5
47	MP3B	My	.024	5
48	MP3B	Mz	-.000255	5
49	MP3C	Y	-31.65	1
50	MP3C	My	.024	1
51	MP3C	Mz	.004	1
52	MP3C	Y	-31.65	5
53	MP3C	My	.024	5
54	MP3C	Mz	.004	5
55	MP1A	Y	-6	1
56	MP1A	My	-.003	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
57	MP1A	Mz	0	1
58	MP1A	Y	-6	5
59	MP1A	My	-.003	5
60	MP1A	Mz	0	5
61	MP1B	Y	-6	1
62	MP1B	My	.002	1
63	MP1B	Mz	-.002	1
64	MP1B	Y	-6	5
65	MP1B	My	.002	5
66	MP1B	Mz	-.002	5
67	MP1C	Y	-6	1
68	MP1C	My	.002	1
69	MP1C	Mz	.003	1
70	MP1C	Y	-6	5
71	MP1C	My	.002	5
72	MP1C	Mz	.003	5
73	MP5A	Y	-6	1
74	MP5A	My	-.003	1
75	MP5A	Mz	0	1
76	MP5A	Y	-6	5
77	MP5A	My	-.003	5
78	MP5A	Mz	0	5
79	MP5B	Y	-6	1
80	MP5B	My	.002	1
81	MP5B	Mz	-.002	1
82	MP5B	Y	-6	5
83	MP5B	My	.002	5
84	MP5B	Mz	-.002	5
85	MP5C	Y	-6	1
86	MP5C	My	.002	1
87	MP5C	Mz	.003	1
88	MP5C	Y	-6	5
89	MP5C	My	.002	5
90	MP5C	Mz	.003	5
91	MP2A	Y	-17.4	5
92	MP2A	My	-.009	5
93	MP2A	Mz	0	5
94	MP2B	Y	-17.4	5
95	MP2B	My	.006	5
96	MP2B	Mz	-.007	5
97	MP2C	Y	-17.4	5
98	MP2C	My	.004	5
99	MP2C	Mz	.008	5
100	MP4A	Y	-10.4	2.5
101	MP4A	My	.005	2.5
102	MP4A	Mz	.005	2.5
103	MP4B	Y	-10.4	2.5
104	MP4B	My	.005	2.5
105	MP4B	Mz	.005	2.5
106	MP4C	Y	-10.4	2.5
107	MP4C	My	.005	2.5
108	MP4C	Mz	.005	2.5
109	MP4A	Y	-84.4	1.5
110	MP4A	My	.042	1.5
111	MP4A	Mz	-.042	1.5
112	MP4B	Y	-84.4	1.5
113	MP4B	My	.005	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
114	MP4B	Mz	.059	1.5
115	MP4C	Y	-84.4	1.5
116	MP4C	My	-.058	1.5
117	MP4C	Mz	-.015	1.5
118	MP3A	Y	-70.3	2
119	MP3A	My	.035	2
120	MP3A	Mz	0	2
121	MP3B	Y	-70.3	2
122	MP3B	My	-.023	2
123	MP3B	Mz	.027	2
124	MP3C	Y	-70.3	2
125	MP3C	My	-.018	2
126	MP3C	Mz	-.03	2
127	MP2A	Y	-23.2	5
128	MP2A	My	.012	5
129	MP2A	Mz	0	5
130	MP2B	Y	-23.2	5
131	MP2B	My	-.007	5
132	MP2B	Mz	.009	5
133	MP2C	Y	-23.2	5
134	MP2C	My	-.006	5
135	MP2C	Mz	-.01	5
136	OVP	Y	-32	1
137	OVP	My	-.016	1
138	OVP	Mz	.016	1
139	OVP	Y	-32	1
140	OVP	My	-.016	1
141	OVP	Mz	-.016	1

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	Y	-35.217	.5
2	MP2A	My	-.018	.5
3	MP2A	Mz	0	.5
4	MP2A	Y	-35.217	2.5
5	MP2A	My	-.018	2.5
6	MP2A	Mz	0	2.5
7	MP2B	Y	-35.217	.5
8	MP2B	My	.011	.5
9	MP2B	Mz	-.013	.5
10	MP2B	Y	-35.217	2.5
11	MP2B	My	.011	2.5
12	MP2B	Mz	-.013	2.5
13	MP2C	Y	-35.217	.5
14	MP2C	My	.009	.5
15	MP2C	Mz	.015	.5
16	MP2C	Y	-35.217	2.5
17	MP2C	My	.009	2.5
18	MP2C	Mz	.015	2.5
19	MP3A	Y	-69.183	1
20	MP3A	My	-.035	1
21	MP3A	Mz	.04	1
22	MP3A	Y	-69.183	5
23	MP3A	My	-.035	5
24	MP3A	Mz	.04	5
25	MP3B	Y	-69.183	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
26	MP3B	My	-.009	1
27	MP3B	Mz	-.052	1
28	MP3B	Y	-69.183	5
29	MP3B	My	-.009	5
30	MP3B	Mz	-.052	5
31	MP3C	Y	-69.183	1
32	MP3C	My	-.018	1
33	MP3C	Mz	.05	1
34	MP3C	Y	-69.183	5
35	MP3C	My	-.018	5
36	MP3C	Mz	.05	5
37	MP3A	Y	-69.183	1
38	MP3A	My	-.035	1
39	MP3A	Mz	-.04	1
40	MP3A	Y	-69.183	5
41	MP3A	My	-.035	5
42	MP3A	Mz	-.04	5
43	MP3B	Y	-69.183	1
44	MP3B	My	.053	1
45	MP3B	Mz	-.000558	1
46	MP3B	Y	-69.183	5
47	MP3B	My	.053	5
48	MP3B	Mz	-.000558	5
49	MP3C	Y	-69.183	1
50	MP3C	My	.052	1
51	MP3C	Mz	.01	1
52	MP3C	Y	-69.183	5
53	MP3C	My	.052	5
54	MP3C	Mz	.01	5
55	MP1A	Y	-39.847	1
56	MP1A	My	-.02	1
57	MP1A	Mz	0	1
58	MP1A	Y	-39.847	5
59	MP1A	My	-.02	5
60	MP1A	Mz	0	5
61	MP1B	Y	-39.847	1
62	MP1B	My	.013	1
63	MP1B	Mz	-.015	1
64	MP1B	Y	-39.847	5
65	MP1B	My	.013	5
66	MP1B	Mz	-.015	5
67	MP1C	Y	-39.847	1
68	MP1C	My	.01	1
69	MP1C	Mz	.017	1
70	MP1C	Y	-39.847	5
71	MP1C	My	.01	5
72	MP1C	Mz	.017	5
73	MP5A	Y	-39.847	1
74	MP5A	My	-.02	1
75	MP5A	Mz	0	1
76	MP5A	Y	-39.847	5
77	MP5A	My	-.02	5
78	MP5A	Mz	0	5
79	MP5B	Y	-39.847	1
80	MP5B	My	.013	1
81	MP5B	Mz	-.015	1
82	MP5B	Y	-39.847	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
83	MP5B	My	.013	5
84	MP5B	Mz	-.015	5
85	MP5C	Y	-39.847	1
86	MP5C	My	.01	1
87	MP5C	Mz	.017	1
88	MP5C	Y	-39.847	5
89	MP5C	My	.01	5
90	MP5C	Mz	.017	5
91	MP2A	Y	-43.521	5
92	MP2A	My	-.022	5
93	MP2A	Mz	0	5
94	MP2B	Y	-43.521	5
95	MP2B	My	.014	5
96	MP2B	Mz	-.017	5
97	MP2C	Y	-43.521	5
98	MP2C	My	.011	5
99	MP2C	Mz	.019	5
100	MP4A	Y	-10.605	2.5
101	MP4A	My	.005	2.5
102	MP4A	Mz	.005	2.5
103	MP4B	Y	-10.605	2.5
104	MP4B	My	.005	2.5
105	MP4B	Mz	.005	2.5
106	MP4C	Y	-10.605	2.5
107	MP4C	My	.005	2.5
108	MP4C	Mz	.005	2.5
109	MP4A	Y	-44.393	1.5
110	MP4A	My	.022	1.5
111	MP4A	Mz	-.022	1.5
112	MP4B	Y	-44.393	1.5
113	MP4B	My	.003	1.5
114	MP4B	Mz	.031	1.5
115	MP4C	Y	-44.393	1.5
116	MP4C	My	-.03	1.5
117	MP4C	Mz	-.008	1.5
118	MP3A	Y	-39.92	2
119	MP3A	My	.02	2
120	MP3A	Mz	0	2
121	MP3B	Y	-39.92	2
122	MP3B	My	-.013	2
123	MP3B	Mz	.015	2
124	MP3C	Y	-39.92	2
125	MP3C	My	-.01	2
126	MP3C	Mz	-.017	2
127	MP2A	Y	-29.517	5
128	MP2A	My	.015	5
129	MP2A	Mz	0	5
130	MP2B	Y	-29.517	5
131	MP2B	My	-.009	5
132	MP2B	Mz	.011	5
133	MP2C	Y	-29.517	5
134	MP2C	My	-.007	5
135	MP2C	Mz	-.013	5
136	OVP	Y	-86.951	1
137	OVP	My	-.043	1
138	OVP	Mz	.043	1
139	OVP	Y	-86.951	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
140	OVP	My	-.043	1
141	OVP	Mz	-.043	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-96.621	.5
3	MP2A	Mx	0	.5
4	MP2A	X	0	2.5
5	MP2A	Z	-96.621	2.5
6	MP2A	Mx	0	2.5
7	MP2B	X	0	.5
8	MP2B	Z	-62.119	.5
9	MP2B	Mx	.024	.5
10	MP2B	X	0	2.5
11	MP2B	Z	-62.119	2.5
12	MP2B	Mx	.024	2.5
13	MP2C	X	0	.5
14	MP2C	Z	-52.526	.5
15	MP2C	Mx	-.023	.5
16	MP2C	X	0	2.5
17	MP2C	Z	-52.526	2.5
18	MP2C	Mx	-.023	2.5
19	MP3A	X	0	1
20	MP3A	Z	-187.281	1
21	MP3A	Mx	-.109	1
22	MP3A	X	0	5
23	MP3A	Z	-187.281	5
24	MP3A	Mx	-.109	5
25	MP3B	X	0	1
26	MP3B	Z	-149.561	1
27	MP3B	Mx	.113	1
28	MP3B	X	0	5
29	MP3B	Z	-149.561	5
30	MP3B	Mx	.113	5
31	MP3C	X	0	1
32	MP3C	Z	-139.073	1
33	MP3C	Mx	-.101	1
34	MP3C	X	0	5
35	MP3C	Z	-139.073	5
36	MP3C	Mx	-.101	5
37	MP3A	X	0	1
38	MP3A	Z	-187.281	1
39	MP3A	Mx	.109	1
40	MP3A	X	0	5
41	MP3A	Z	-187.281	5
42	MP3A	Mx	.109	5
43	MP3B	X	0	1
44	MP3B	Z	-149.561	1
45	MP3B	Mx	.001	1
46	MP3B	X	0	5
47	MP3B	Z	-149.561	5
48	MP3B	Mx	.001	5
49	MP3C	X	0	1
50	MP3C	Z	-139.073	1
51	MP3C	Mx	-.02	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
52	MP3C	X	0	5
53	MP3C	Z	-139.073	5
54	MP3C	Mx	-.02	5
55	MP1A	X	0	1
56	MP1A	Z	-53.656	1
57	MP1A	Mx	0	1
58	MP1A	X	0	5
59	MP1A	Z	-53.656	5
60	MP1A	Mx	0	5
61	MP1B	X	0	1
62	MP1B	Z	-87.3	1
63	MP1B	Mx	.033	1
64	MP1B	X	0	5
65	MP1B	Z	-87.3	5
66	MP1B	Mx	.033	5
67	MP1C	X	0	1
68	MP1C	Z	-96.655	1
69	MP1C	Mx	-.042	1
70	MP1C	X	0	5
71	MP1C	Z	-96.655	5
72	MP1C	Mx	-.042	5
73	MP5A	X	0	1
74	MP5A	Z	-53.656	1
75	MP5A	Mx	0	1
76	MP5A	X	0	5
77	MP5A	Z	-53.656	5
78	MP5A	Mx	0	5
79	MP5B	X	0	1
80	MP5B	Z	-87.3	1
81	MP5B	Mx	.033	1
82	MP5B	X	0	5
83	MP5B	Z	-87.3	5
84	MP5B	Mx	.033	5
85	MP5C	X	0	1
86	MP5C	Z	-96.655	1
87	MP5C	Mx	-.042	1
88	MP5C	X	0	5
89	MP5C	Z	-96.655	5
90	MP5C	Mx	-.042	5
91	MP2A	X	0	5
92	MP2A	Z	-123.346	5
93	MP2A	Mx	0	5
94	MP2B	X	0	5
95	MP2B	Z	-71.892	5
96	MP2B	Mx	.028	5
97	MP2C	X	0	5
98	MP2C	Z	-57.584	5
99	MP2C	Mx	-.025	5
100	MP4A	X	0	2.5
101	MP4A	Z	-15.213	2.5
102	MP4A	Mx	-.008	2.5
103	MP4B	X	0	2.5
104	MP4B	Z	-15.213	2.5
105	MP4B	Mx	-.008	2.5
106	MP4C	X	0	2.5
107	MP4C	Z	-15.213	2.5
108	MP4C	Mx	-.008	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
109	MP4A	X	0	1.5
110	MP4A	Z	-76.886	1.5
111	MP4A	Mx	.038	1.5
112	MP4B	X	0	1.5
113	MP4B	Z	-61.927	1.5
114	MP4B	Mx	-.044	1.5
115	MP4C	X	0	1.5
116	MP4C	Z	-57.767	1.5
117	MP4C	Mx	.011	1.5
118	MP3A	X	0	2
119	MP3A	Z	-76.886	2
120	MP3A	Mx	0	2
121	MP3B	X	0	2
122	MP3B	Z	-56.197	2
123	MP3B	Mx	-.022	2
124	MP3C	X	0	2
125	MP3C	Z	-50.444	2
126	MP3C	Mx	.022	2
127	MP2A	X	0	5
128	MP2A	Z	-62.907	5
129	MP2A	Mx	0	5
130	MP2B	X	0	5
131	MP2B	Z	-44.202	5
132	MP2B	Mx	-.017	5
133	MP2C	X	0	5
134	MP2C	Z	-39.001	5
135	MP2C	Mx	.017	5
136	OVP	X	0	1
137	OVP	Z	-166.929	1
138	OVP	Mx	-.083	1
139	OVP	X	0	1
140	OVP	Z	-166.929	1
141	OVP	Mx	.083	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	40.961	.5
2	MP2A	Z	-70.947	.5
3	MP2A	Mx	-.02	.5
4	MP2A	X	40.961	2.5
5	MP2A	Z	-70.947	2.5
6	MP2A	Mx	-.02	2.5
7	MP2B	X	19.8	.5
8	MP2B	Z	-34.295	.5
9	MP2B	Mx	.019	.5
10	MP2B	X	19.8	2.5
11	MP2B	Z	-34.295	2.5
12	MP2B	Mx	.019	2.5
13	MP2C	X	40.961	.5
14	MP2C	Z	-70.947	.5
15	MP2C	Mx	-.02	.5
16	MP2C	X	40.961	2.5
17	MP2C	Z	-70.947	2.5
18	MP2C	Mx	-.02	2.5
19	MP3A	X	85.606	1
20	MP3A	Z	-148.274	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
21	MP3A	Mx	-.129	1
22	MP3A	X	85.606	5
23	MP3A	Z	-148.274	5
24	MP3A	Mx	-.129	5
25	MP3B	X	62.471	1
26	MP3B	Z	-108.203	1
27	MP3B	Mx	.074	1
28	MP3B	X	62.471	5
29	MP3B	Z	-108.203	5
30	MP3B	Mx	.074	5
31	MP3C	X	85.606	1
32	MP3C	Z	-148.274	1
33	MP3C	Mx	-.129	1
34	MP3C	X	85.606	5
35	MP3C	Z	-148.274	5
36	MP3C	Mx	-.129	5
37	MP3A	X	85.606	1
38	MP3A	Z	-148.274	1
39	MP3A	Mx	.044	1
40	MP3A	X	85.606	5
41	MP3A	Z	-148.274	5
42	MP3A	Mx	.044	5
43	MP3B	X	62.471	1
44	MP3B	Z	-108.203	1
45	MP3B	Mx	.049	1
46	MP3B	X	62.471	5
47	MP3B	Z	-108.203	5
48	MP3B	Mx	.049	5
49	MP3C	X	85.606	1
50	MP3C	Z	-148.274	1
51	MP3C	Mx	.044	1
52	MP3C	X	85.606	5
53	MP3C	Z	-148.274	5
54	MP3C	Mx	.044	5
55	MP1A	X	33.994	1
56	MP1A	Z	-58.88	1
57	MP1A	Mx	-.017	1
58	MP1A	X	33.994	5
59	MP1A	Z	-58.88	5
60	MP1A	Mx	-.017	5
61	MP1B	X	54.63	1
62	MP1B	Z	-94.622	1
63	MP1B	Mx	.054	1
64	MP1B	X	54.63	5
65	MP1B	Z	-94.622	5
66	MP1B	Mx	.054	5
67	MP1C	X	33.994	1
68	MP1C	Z	-58.88	1
69	MP1C	Mx	-.017	1
70	MP1C	X	33.994	5
71	MP1C	Z	-58.88	5
72	MP1C	Mx	-.017	5
73	MP5A	X	33.994	1
74	MP5A	Z	-58.88	1
75	MP5A	Mx	-.017	1
76	MP5A	X	33.994	5
77	MP5A	Z	-58.88	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
78	MP5A	Mx	-.017	5
79	MP5B	X	54.63	1
80	MP5B	Z	-94.622	1
81	MP5B	Mx	.054	1
82	MP5B	X	54.63	5
83	MP5B	Z	-94.622	5
84	MP5B	Mx	.054	5
85	MP5C	X	33.994	1
86	MP5C	Z	-58.88	1
87	MP5C	Mx	-.017	1
88	MP5C	X	33.994	5
89	MP5C	Z	-58.88	5
90	MP5C	Mx	-.017	5
91	MP2A	X	50.713	5
92	MP2A	Z	-87.837	5
93	MP2A	Mx	-.025	5
94	MP2B	X	19.154	5
95	MP2B	Z	-33.176	5
96	MP2B	Mx	.019	5
97	MP2C	X	50.713	5
98	MP2C	Z	-87.837	5
99	MP2C	Mx	-.025	5
100	MP4A	X	7.02	2.5
101	MP4A	Z	-12.16	2.5
102	MP4A	Mx	-.003	2.5
103	MP4B	X	7.02	2.5
104	MP4B	Z	-12.16	2.5
105	MP4B	Mx	-.003	2.5
106	MP4C	X	7.02	2.5
107	MP4C	Z	-12.16	2.5
108	MP4C	Mx	-.003	2.5
109	MP4A	X	35.256	1.5
110	MP4A	Z	-61.066	1.5
111	MP4A	Mx	.048	1.5
112	MP4B	X	26.081	1.5
113	MP4B	Z	-45.174	1.5
114	MP4B	Mx	-.03	1.5
115	MP4C	X	35.256	1.5
116	MP4C	Z	-61.066	1.5
117	MP4C	Mx	-.013	1.5
118	MP3A	X	34.036	2
119	MP3A	Z	-58.952	2
120	MP3A	Mx	.017	2
121	MP3B	X	21.346	2
122	MP3B	Z	-36.973	2
123	MP3B	Mx	-.021	2
124	MP3C	X	34.036	2
125	MP3C	Z	-58.952	2
126	MP3C	Mx	.017	2
127	MP2A	X	27.469	5
128	MP2A	Z	-47.578	5
129	MP2A	Mx	.014	5
130	MP2B	X	15.997	5
131	MP2B	Z	-27.707	5
132	MP2B	Mx	-.016	5
133	MP2C	X	27.469	5
134	MP2C	Z	-47.578	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
135	MP2C	Mx	.014	5
136	OVP	X	78.518	1
137	OVP	Z	-135.997	1
138	OVP	Mx	-.107	1
139	OVP	X	78.518	1
140	OVP	Z	-135.997	1
141	OVP	Mx	.029	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	45.489	.5
2	MP2A	Z	-26.263	.5
3	MP2A	Mx	-.023	.5
4	MP2A	X	45.489	2.5
5	MP2A	Z	-26.263	2.5
6	MP2A	Mx	-.023	2.5
7	MP2B	X	38.715	.5
8	MP2B	Z	-22.352	.5
9	MP2B	Mx	.021	.5
10	MP2B	X	38.715	2.5
11	MP2B	Z	-22.352	2.5
12	MP2B	Mx	.021	2.5
13	MP2C	X	83.676	.5
14	MP2C	Z	-48.311	.5
15	MP2C	Mx	0	.5
16	MP2C	X	83.676	2.5
17	MP2C	Z	-48.311	2.5
18	MP2C	Mx	0	2.5
19	MP3A	X	120.441	1
20	MP3A	Z	-69.536	1
21	MP3A	Mx	-.101	1
22	MP3A	X	120.441	5
23	MP3A	Z	-69.536	5
24	MP3A	Mx	-.101	5
25	MP3B	X	113.036	1
26	MP3B	Z	-65.261	1
27	MP3B	Mx	.035	1
28	MP3B	X	113.036	5
29	MP3B	Z	-65.261	5
30	MP3B	Mx	.035	5
31	MP3C	X	162.19	1
32	MP3C	Z	-93.64	1
33	MP3C	Mx	-.109	1
34	MP3C	X	162.19	5
35	MP3C	Z	-93.64	5
36	MP3C	Mx	-.109	5
37	MP3A	X	120.441	1
38	MP3A	Z	-69.536	1
39	MP3A	Mx	-.02	1
40	MP3A	X	120.441	5
41	MP3A	Z	-69.536	5
42	MP3A	Mx	-.02	5
43	MP3B	X	113.036	1
44	MP3B	Z	-65.261	1
45	MP3B	Mx	.087	1
46	MP3B	X	113.036	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
47	MP3B	Z	-65.261	5
48	MP3B	Mx	.087	5
49	MP3C	X	162.19	1
50	MP3C	Z	-93.64	1
51	MP3C	Mx	.109	1
52	MP3C	X	162.19	5
53	MP3C	Z	-93.64	5
54	MP3C	Mx	.109	5
55	MP1A	X	83.706	1
56	MP1A	Z	-48.328	1
57	MP1A	Mx	-.042	1
58	MP1A	X	83.706	5
59	MP1A	Z	-48.328	5
60	MP1A	Mx	-.042	5
61	MP1B	X	90.311	1
62	MP1B	Z	-52.141	1
63	MP1B	Mx	.049	1
64	MP1B	X	90.311	5
65	MP1B	Z	-52.141	5
66	MP1B	Mx	.049	5
67	MP1C	X	46.467	1
68	MP1C	Z	-26.828	1
69	MP1C	Mx	0	1
70	MP1C	X	46.467	5
71	MP1C	Z	-26.828	5
72	MP1C	Mx	0	5
73	MP5A	X	83.706	1
74	MP5A	Z	-48.328	1
75	MP5A	Mx	-.042	1
76	MP5A	X	83.706	5
77	MP5A	Z	-48.328	5
78	MP5A	Mx	-.042	5
79	MP5B	X	90.311	1
80	MP5B	Z	-52.141	1
81	MP5B	Mx	.049	1
82	MP5B	X	90.311	5
83	MP5B	Z	-52.141	5
84	MP5B	Mx	.049	5
85	MP5C	X	46.467	1
86	MP5C	Z	-26.828	1
87	MP5C	Mx	0	1
88	MP5C	X	46.467	5
89	MP5C	Z	-26.828	5
90	MP5C	Mx	0	5
91	MP2A	X	49.87	5
92	MP2A	Z	-28.792	5
93	MP2A	Mx	-.025	5
94	MP2B	X	39.769	5
95	MP2B	Z	-22.96	5
96	MP2B	Mx	.022	5
97	MP2C	X	106.821	5
98	MP2C	Z	-61.673	5
99	MP2C	Mx	0	5
100	MP4A	X	10.13	2.5
101	MP4A	Z	-5.849	2.5
102	MP4A	Mx	.002	2.5
103	MP4B	X	10.13	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
104	MP4B	Z	-5.849	2.5
105	MP4B	Mx	.002	2.5
106	MP4C	X	10.13	2.5
107	MP4C	Z	-5.849	2.5
108	MP4C	Mx	.002	2.5
109	MP4A	X	50.028	1.5
110	MP4A	Z	-28.884	1.5
111	MP4A	Mx	.039	1.5
112	MP4B	X	47.091	1.5
113	MP4B	Z	-27.188	1.5
114	MP4B	Mx	-.016	1.5
115	MP4C	X	66.585	1.5
116	MP4C	Z	-38.443	1.5
117	MP4C	Mx	-.038	1.5
118	MP3A	X	43.685	2
119	MP3A	Z	-25.222	2
120	MP3A	Mx	.022	2
121	MP3B	X	39.624	2
122	MP3B	Z	-22.877	2
123	MP3B	Mx	-.021	2
124	MP3C	X	66.585	2
125	MP3C	Z	-38.443	2
126	MP3C	Mx	0	2
127	MP2A	X	33.775	5
128	MP2A	Z	-19.5	5
129	MP2A	Mx	.017	5
130	MP2B	X	30.103	5
131	MP2B	Z	-17.38	5
132	MP2B	Mx	-.016	5
133	MP2C	X	54.479	5
134	MP2C	Z	-31.453	5
135	MP2C	Mx	0	5
136	OVP	X	118.861	1
137	OVP	Z	-68.624	1
138	OVP	Mx	-.094	1
139	OVP	X	118.861	1
140	OVP	Z	-68.624	1
141	OVP	Mx	-.025	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	37.827	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.019	.5
4	MP2A	X	37.827	2.5
5	MP2A	Z	0	2.5
6	MP2A	Mx	-.019	2.5
7	MP2B	X	72.329	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.023	.5
10	MP2B	X	72.329	2.5
11	MP2B	Z	0	2.5
12	MP2B	Mx	.023	2.5
13	MP2C	X	81.923	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.02	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
16	MP2C	X	81.923	2.5
17	MP2C	Z	0	2.5
18	MP2C	Mx	.02	2.5
19	MP3A	X	123.004	1
20	MP3A	Z	0	1
21	MP3A	Mx	-.062	1
22	MP3A	X	123.004	5
23	MP3A	Z	0	5
24	MP3A	Mx	-.062	5
25	MP3B	X	160.723	1
26	MP3B	Z	0	1
27	MP3B	Mx	-.02	1
28	MP3B	X	160.723	5
29	MP3B	Z	0	5
30	MP3B	Mx	-.02	5
31	MP3C	X	171.212	1
32	MP3C	Z	0	1
33	MP3C	Mx	-.044	1
34	MP3C	X	171.212	5
35	MP3C	Z	0	5
36	MP3C	Mx	-.044	5
37	MP3A	X	123.004	1
38	MP3A	Z	0	1
39	MP3A	Mx	-.062	1
40	MP3A	X	123.004	5
41	MP3A	Z	0	5
42	MP3A	Mx	-.062	5
43	MP3B	X	160.723	1
44	MP3B	Z	0	1
45	MP3B	Mx	.123	1
46	MP3B	X	160.723	5
47	MP3B	Z	0	5
48	MP3B	Mx	.123	5
49	MP3C	X	171.212	1
50	MP3C	Z	0	1
51	MP3C	Mx	.129	1
52	MP3C	X	171.212	5
53	MP3C	Z	0	5
54	MP3C	Mx	.129	5
55	MP1A	X	110.988	1
56	MP1A	Z	0	1
57	MP1A	Mx	-.055	1
58	MP1A	X	110.988	5
59	MP1A	Z	0	5
60	MP1A	Mx	-.055	5
61	MP1B	X	77.344	1
62	MP1B	Z	0	1
63	MP1B	Mx	.025	1
64	MP1B	X	77.344	5
65	MP1B	Z	0	5
66	MP1B	Mx	.025	5
67	MP1C	X	67.989	1
68	MP1C	Z	0	1
69	MP1C	Mx	.017	1
70	MP1C	X	67.989	5
71	MP1C	Z	0	5
72	MP1C	Mx	.017	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
73	MP5A	X	110.988	1
74	MP5A	Z	0	1
75	MP5A	Mx	-.055	1
76	MP5A	X	110.988	5
77	MP5A	Z	0	5
78	MP5A	Mx	-.055	5
79	MP5B	X	77.344	1
80	MP5B	Z	0	1
81	MP5B	Mx	.025	1
82	MP5B	X	77.344	5
83	MP5B	Z	0	5
84	MP5B	Mx	.025	5
85	MP5C	X	67.989	1
86	MP5C	Z	0	1
87	MP5C	Mx	.017	1
88	MP5C	X	67.989	5
89	MP5C	Z	0	5
90	MP5C	Mx	.017	5
91	MP2A	X	35.664	5
92	MP2A	Z	0	5
93	MP2A	Mx	-.018	5
94	MP2B	X	87.118	5
95	MP2B	Z	0	5
96	MP2B	Mx	.028	5
97	MP2C	X	101.426	5
98	MP2C	Z	0	5
99	MP2C	Mx	.025	5
100	MP4A	X	10.526	2.5
101	MP4A	Z	0	2.5
102	MP4A	Mx	.005	2.5
103	MP4B	X	10.526	2.5
104	MP4B	Z	0	2.5
105	MP4B	Mx	.005	2.5
106	MP4C	X	10.526	2.5
107	MP4C	Z	0	2.5
108	MP4C	Mx	.005	2.5
109	MP4A	X	51.394	1.5
110	MP4A	Z	0	1.5
111	MP4A	Mx	.026	1.5
112	MP4B	X	66.353	1.5
113	MP4B	Z	0	1.5
114	MP4B	Mx	.004	1.5
115	MP4C	X	70.513	1.5
116	MP4C	Z	0	1.5
117	MP4C	Mx	-.048	1.5
118	MP3A	X	41.629	2
119	MP3A	Z	0	2
120	MP3A	Mx	.021	2
121	MP3B	X	62.319	2
122	MP3B	Z	0	2
123	MP3B	Mx	-.02	2
124	MP3C	X	68.072	2
125	MP3C	Z	0	2
126	MP3C	Mx	-.017	2
127	MP2A	X	31.032	5
128	MP2A	Z	0	5
129	MP2A	Mx	.016	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
130	MP2B	X	49.737	5
131	MP2B	Z	0	5
132	MP2B	Mx	-.016	5
133	MP2C	X	54.938	5
134	MP2C	Z	0	5
135	MP2C	Mx	-.014	5
136	OVP	X	127.355	1
137	OVP	Z	0	1
138	OVP	Mx	-.064	1
139	OVP	X	127.355	1
140	OVP	Z	0	1
141	OVP	Mx	-.064	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	45.489	.5
2	MP2A	Z	26.263	.5
3	MP2A	Mx	-.023	.5
4	MP2A	X	45.489	2.5
5	MP2A	Z	26.263	2.5
6	MP2A	Mx	-.023	2.5
7	MP2B	X	82.141	.5
8	MP2B	Z	47.424	.5
9	MP2B	Mx	.008	.5
10	MP2B	X	82.141	2.5
11	MP2B	Z	47.424	2.5
12	MP2B	Mx	.008	2.5
13	MP2C	X	45.489	.5
14	MP2C	Z	26.263	.5
15	MP2C	Mx	.023	.5
16	MP2C	X	45.489	2.5
17	MP2C	Z	26.263	2.5
18	MP2C	Mx	.023	2.5
19	MP3A	X	120.441	1
20	MP3A	Z	69.536	1
21	MP3A	Mx	-.02	1
22	MP3A	X	120.441	5
23	MP3A	Z	69.536	5
24	MP3A	Mx	-.02	5
25	MP3B	X	160.511	1
26	MP3B	Z	92.671	1
27	MP3B	Mx	-.09	1
28	MP3B	X	160.511	5
29	MP3B	Z	92.671	5
30	MP3B	Mx	-.09	5
31	MP3C	X	120.441	1
32	MP3C	Z	69.536	1
33	MP3C	Mx	.02	1
34	MP3C	X	120.441	5
35	MP3C	Z	69.536	5
36	MP3C	Mx	.02	5
37	MP3A	X	120.441	1
38	MP3A	Z	69.536	1
39	MP3A	Mx	-.101	1
40	MP3A	X	120.441	5
41	MP3A	Z	69.536	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
42	MP3A	Mx	-.101	5
43	MP3B	X	160.511	1
44	MP3B	Z	92.671	1
45	MP3B	Mx	.123	1
46	MP3B	X	160.511	5
47	MP3B	Z	92.671	5
48	MP3B	Mx	.123	5
49	MP3C	X	120.441	1
50	MP3C	Z	69.536	1
51	MP3C	Mx	.101	1
52	MP3C	X	120.441	5
53	MP3C	Z	69.536	5
54	MP3C	Mx	.101	5
55	MP1A	X	83.706	1
56	MP1A	Z	48.328	1
57	MP1A	Mx	-.042	1
58	MP1A	X	83.706	5
59	MP1A	Z	48.328	5
60	MP1A	Mx	-.042	5
61	MP1B	X	47.964	1
62	MP1B	Z	27.692	1
63	MP1B	Mx	.005	1
64	MP1B	X	47.964	5
65	MP1B	Z	27.692	5
66	MP1B	Mx	.005	5
67	MP1C	X	83.706	1
68	MP1C	Z	48.328	1
69	MP1C	Mx	.042	1
70	MP1C	X	83.706	5
71	MP1C	Z	48.328	5
72	MP1C	Mx	.042	5
73	MP5A	X	83.706	1
74	MP5A	Z	48.328	1
75	MP5A	Mx	-.042	1
76	MP5A	X	83.706	5
77	MP5A	Z	48.328	5
78	MP5A	Mx	-.042	5
79	MP5B	X	47.964	1
80	MP5B	Z	27.692	1
81	MP5B	Mx	.005	1
82	MP5B	X	47.964	5
83	MP5B	Z	27.692	5
84	MP5B	Mx	.005	5
85	MP5C	X	83.706	1
86	MP5C	Z	48.328	1
87	MP5C	Mx	.042	1
88	MP5C	X	83.706	5
89	MP5C	Z	48.328	5
90	MP5C	Mx	.042	5
91	MP2A	X	49.87	5
92	MP2A	Z	28.792	5
93	MP2A	Mx	-.025	5
94	MP2B	X	104.531	5
95	MP2B	Z	60.351	5
96	MP2B	Mx	.01	5
97	MP2C	X	49.87	5
98	MP2C	Z	28.792	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
99	MP2C	Mx	.025	5
100	MP4A	X	10.13	2.5
101	MP4A	Z	5.849	2.5
102	MP4A	Mx	.008	2.5
103	MP4B	X	10.13	2.5
104	MP4B	Z	5.849	2.5
105	MP4B	Mx	.008	2.5
106	MP4C	X	10.13	2.5
107	MP4C	Z	5.849	2.5
108	MP4C	Mx	.008	2.5
109	MP4A	X	50.028	1.5
110	MP4A	Z	28.884	1.5
111	MP4A	Mx	.011	1.5
112	MP4B	X	65.919	1.5
113	MP4B	Z	38.059	1.5
114	MP4B	Mx	.031	1.5
115	MP4C	X	50.028	1.5
116	MP4C	Z	28.884	1.5
117	MP4C	Mx	-.039	1.5
118	MP3A	X	43.685	2
119	MP3A	Z	25.222	2
120	MP3A	Mx	.022	2
121	MP3B	X	65.664	2
122	MP3B	Z	37.911	2
123	MP3B	Mx	-.007	2
124	MP3C	X	43.685	2
125	MP3C	Z	25.222	2
126	MP3C	Mx	-.022	2
127	MP2A	X	33.775	5
128	MP2A	Z	19.5	5
129	MP2A	Mx	.017	5
130	MP2B	X	53.646	5
131	MP2B	Z	30.973	5
132	MP2B	Mx	-.005	5
133	MP2C	X	33.775	5
134	MP2C	Z	19.5	5
135	MP2C	Mx	-.017	5
136	OVP	X	118.861	1
137	OVP	Z	68.624	1
138	OVP	Mx	-.025	1
139	OVP	X	118.861	1
140	OVP	Z	68.624	1
141	OVP	Mx	-.094	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	40.961	.5
2	MP2A	Z	70.947	.5
3	MP2A	Mx	-.02	.5
4	MP2A	X	40.961	2.5
5	MP2A	Z	70.947	2.5
6	MP2A	Mx	-.02	2.5
7	MP2B	X	44.872	.5
8	MP2B	Z	77.72	.5
9	MP2B	Mx	-.015	.5
10	MP2B	X	44.872	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
11	MP2B	Z	77.72	2.5
12	MP2B	Mx	-.015	2.5
13	MP2C	X	18.914	.5
14	MP2C	Z	32.759	.5
15	MP2C	Mx	.019	.5
16	MP2C	X	18.914	2.5
17	MP2C	Z	32.759	2.5
18	MP2C	Mx	.019	2.5
19	MP3A	X	85.606	1
20	MP3A	Z	148.274	1
21	MP3A	Mx	.044	1
22	MP3A	X	85.606	5
23	MP3A	Z	148.274	5
24	MP3A	Mx	.044	5
25	MP3B	X	89.881	1
26	MP3B	Z	155.678	1
27	MP3B	Mx	-.129	1
28	MP3B	X	89.881	5
29	MP3B	Z	155.678	5
30	MP3B	Mx	-.129	5
31	MP3C	X	61.502	1
32	MP3C	Z	106.524	1
33	MP3C	Mx	.062	1
34	MP3C	X	61.502	5
35	MP3C	Z	106.524	5
36	MP3C	Mx	.062	5
37	MP3A	X	85.606	1
38	MP3A	Z	148.274	1
39	MP3A	Mx	-.129	1
40	MP3A	X	85.606	5
41	MP3A	Z	148.274	5
42	MP3A	Mx	-.129	5
43	MP3B	X	89.881	1
44	MP3B	Z	155.678	1
45	MP3B	Mx	.068	1
46	MP3B	X	89.881	5
47	MP3B	Z	155.678	5
48	MP3B	Mx	.068	5
49	MP3C	X	61.502	1
50	MP3C	Z	106.524	1
51	MP3C	Mx	.062	1
52	MP3C	X	61.502	5
53	MP3C	Z	106.524	5
54	MP3C	Mx	.062	5
55	MP1A	X	33.994	1
56	MP1A	Z	58.88	1
57	MP1A	Mx	-.017	1
58	MP1A	X	33.994	5
59	MP1A	Z	58.88	5
60	MP1A	Mx	-.017	5
61	MP1B	X	30.181	1
62	MP1B	Z	52.275	1
63	MP1B	Mx	-.01	1
64	MP1B	X	30.181	5
65	MP1B	Z	52.275	5
66	MP1B	Mx	-.01	5
67	MP1C	X	55.494	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
68	MP1C	Z	96.119	1
69	MP1C	Mx	.055	1
70	MP1C	X	55.494	5
71	MP1C	Z	96.119	5
72	MP1C	Mx	.055	5
73	MP5A	X	33.994	1
74	MP5A	Z	58.88	1
75	MP5A	Mx	-.017	1
76	MP5A	X	33.994	5
77	MP5A	Z	58.88	5
78	MP5A	Mx	-.017	5
79	MP5B	X	30.181	1
80	MP5B	Z	52.275	1
81	MP5B	Mx	-.01	1
82	MP5B	X	30.181	5
83	MP5B	Z	52.275	5
84	MP5B	Mx	-.01	5
85	MP5C	X	55.494	1
86	MP5C	Z	96.119	1
87	MP5C	Mx	.055	1
88	MP5C	X	55.494	5
89	MP5C	Z	96.119	5
90	MP5C	Mx	.055	5
91	MP2A	X	50.713	5
92	MP2A	Z	87.837	5
93	MP2A	Mx	-.025	5
94	MP2B	X	56.545	5
95	MP2B	Z	97.938	5
96	MP2B	Mx	-.019	5
97	MP2C	X	17.832	5
98	MP2C	Z	30.886	5
99	MP2C	Mx	.018	5
100	MP4A	X	7.02	2.5
101	MP4A	Z	12.16	2.5
102	MP4A	Mx	.01	2.5
103	MP4B	X	7.02	2.5
104	MP4B	Z	12.16	2.5
105	MP4B	Mx	.01	2.5
106	MP4C	X	7.02	2.5
107	MP4C	Z	12.16	2.5
108	MP4C	Mx	.01	2.5
109	MP4A	X	35.256	1.5
110	MP4A	Z	61.066	1.5
111	MP4A	Mx	-.013	1.5
112	MP4B	X	36.952	1.5
113	MP4B	Z	64.003	1.5
114	MP4B	Mx	.047	1.5
115	MP4C	X	25.697	1.5
116	MP4C	Z	44.509	1.5
117	MP4C	Mx	-.026	1.5
118	MP3A	X	34.036	2
119	MP3A	Z	58.952	2
120	MP3A	Mx	.017	2
121	MP3B	X	36.381	2
122	MP3B	Z	63.013	2
123	MP3B	Mx	.012	2
124	MP3C	X	20.815	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
125	MP3C	Z	36.052	2
126	MP3C	Mx	-.021	2
127	MP2A	X	27.469	5
128	MP2A	Z	47.578	5
129	MP2A	Mx	.014	5
130	MP2B	X	29.589	5
131	MP2B	Z	51.25	5
132	MP2B	Mx	.01	5
133	MP2C	X	15.516	5
134	MP2C	Z	26.874	5
135	MP2C	Mx	-.016	5
136	OVP	X	78.518	1
137	OVP	Z	135.997	1
138	OVP	Mx	.029	1
139	OVP	X	78.518	1
140	OVP	Z	135.997	1
141	OVP	Mx	-.107	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	96.621	.5
3	MP2A	Mx	0	.5
4	MP2A	X	0	2.5
5	MP2A	Z	96.621	2.5
6	MP2A	Mx	0	2.5
7	MP2B	X	0	.5
8	MP2B	Z	62.119	.5
9	MP2B	Mx	-.024	.5
10	MP2B	X	0	2.5
11	MP2B	Z	62.119	2.5
12	MP2B	Mx	-.024	2.5
13	MP2C	X	0	.5
14	MP2C	Z	52.526	.5
15	MP2C	Mx	.023	.5
16	MP2C	X	0	2.5
17	MP2C	Z	52.526	2.5
18	MP2C	Mx	.023	2.5
19	MP3A	X	0	1
20	MP3A	Z	187.281	1
21	MP3A	Mx	.109	1
22	MP3A	X	0	5
23	MP3A	Z	187.281	5
24	MP3A	Mx	.109	5
25	MP3B	X	0	1
26	MP3B	Z	149.561	1
27	MP3B	Mx	-.113	1
28	MP3B	X	0	5
29	MP3B	Z	149.561	5
30	MP3B	Mx	-.113	5
31	MP3C	X	0	1
32	MP3C	Z	139.073	1
33	MP3C	Mx	.101	1
34	MP3C	X	0	5
35	MP3C	Z	139.073	5
36	MP3C	Mx	.101	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
37	MP3A	X	0	1
38	MP3A	Z	187.281	1
39	MP3A	Mx	-.109	1
40	MP3A	X	0	5
41	MP3A	Z	187.281	5
42	MP3A	Mx	-.109	5
43	MP3B	X	0	1
44	MP3B	Z	149.561	1
45	MP3B	Mx	-.001	1
46	MP3B	X	0	5
47	MP3B	Z	149.561	5
48	MP3B	Mx	-.001	5
49	MP3C	X	0	1
50	MP3C	Z	139.073	1
51	MP3C	Mx	.02	1
52	MP3C	X	0	5
53	MP3C	Z	139.073	5
54	MP3C	Mx	.02	5
55	MP1A	X	0	1
56	MP1A	Z	53.656	1
57	MP1A	Mx	0	1
58	MP1A	X	0	5
59	MP1A	Z	53.656	5
60	MP1A	Mx	0	5
61	MP1B	X	0	1
62	MP1B	Z	87.3	1
63	MP1B	Mx	-.033	1
64	MP1B	X	0	5
65	MP1B	Z	87.3	5
66	MP1B	Mx	-.033	5
67	MP1C	X	0	1
68	MP1C	Z	96.655	1
69	MP1C	Mx	.042	1
70	MP1C	X	0	5
71	MP1C	Z	96.655	5
72	MP1C	Mx	.042	5
73	MP5A	X	0	1
74	MP5A	Z	53.656	1
75	MP5A	Mx	0	1
76	MP5A	X	0	5
77	MP5A	Z	53.656	5
78	MP5A	Mx	0	5
79	MP5B	X	0	1
80	MP5B	Z	87.3	1
81	MP5B	Mx	-.033	1
82	MP5B	X	0	5
83	MP5B	Z	87.3	5
84	MP5B	Mx	-.033	5
85	MP5C	X	0	1
86	MP5C	Z	96.655	1
87	MP5C	Mx	.042	1
88	MP5C	X	0	5
89	MP5C	Z	96.655	5
90	MP5C	Mx	.042	5
91	MP2A	X	0	5
92	MP2A	Z	123.346	5
93	MP2A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
94	MP2B	X	0	5
95	MP2B	Z	71.892	5
96	MP2B	Mx	-.028	5
97	MP2C	X	0	5
98	MP2C	Z	57.584	5
99	MP2C	Mx	.025	5
100	MP4A	X	0	2.5
101	MP4A	Z	15.213	2.5
102	MP4A	Mx	.008	2.5
103	MP4B	X	0	2.5
104	MP4B	Z	15.213	2.5
105	MP4B	Mx	.008	2.5
106	MP4C	X	0	2.5
107	MP4C	Z	15.213	2.5
108	MP4C	Mx	.008	2.5
109	MP4A	X	0	1.5
110	MP4A	Z	76.886	1.5
111	MP4A	Mx	-.038	1.5
112	MP4B	X	0	1.5
113	MP4B	Z	61.927	1.5
114	MP4B	Mx	.044	1.5
115	MP4C	X	0	1.5
116	MP4C	Z	57.767	1.5
117	MP4C	Mx	-.011	1.5
118	MP3A	X	0	2
119	MP3A	Z	76.886	2
120	MP3A	Mx	0	2
121	MP3B	X	0	2
122	MP3B	Z	56.197	2
123	MP3B	Mx	.022	2
124	MP3C	X	0	2
125	MP3C	Z	50.444	2
126	MP3C	Mx	-.022	2
127	MP2A	X	0	5
128	MP2A	Z	62.907	5
129	MP2A	Mx	0	5
130	MP2B	X	0	5
131	MP2B	Z	44.202	5
132	MP2B	Mx	.017	5
133	MP2C	X	0	5
134	MP2C	Z	39.001	5
135	MP2C	Mx	-.017	5
136	OVP	X	0	1
137	OVP	Z	166.929	1
138	OVP	Mx	.083	1
139	OVP	X	0	1
140	OVP	Z	166.929	1
141	OVP	Mx	-.083	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-40.961	.5
2	MP2A	Z	70.947	.5
3	MP2A	Mx	.02	.5
4	MP2A	X	-40.961	2.5
5	MP2A	Z	70.947	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
6	MP2A	Mx	.02	2.5
7	MP2B	X	-19.8	.5
8	MP2B	Z	34.295	.5
9	MP2B	Mx	-.019	.5
10	MP2B	X	-19.8	2.5
11	MP2B	Z	34.295	2.5
12	MP2B	Mx	-.019	2.5
13	MP2C	X	-40.961	.5
14	MP2C	Z	70.947	.5
15	MP2C	Mx	.02	.5
16	MP2C	X	-40.961	2.5
17	MP2C	Z	70.947	2.5
18	MP2C	Mx	.02	2.5
19	MP3A	X	-85.606	1
20	MP3A	Z	148.274	1
21	MP3A	Mx	.129	1
22	MP3A	X	-85.606	5
23	MP3A	Z	148.274	5
24	MP3A	Mx	.129	5
25	MP3B	X	-62.471	1
26	MP3B	Z	108.203	1
27	MP3B	Mx	-.074	1
28	MP3B	X	-62.471	5
29	MP3B	Z	108.203	5
30	MP3B	Mx	-.074	5
31	MP3C	X	-85.606	1
32	MP3C	Z	148.274	1
33	MP3C	Mx	.129	1
34	MP3C	X	-85.606	5
35	MP3C	Z	148.274	5
36	MP3C	Mx	.129	5
37	MP3A	X	-85.606	1
38	MP3A	Z	148.274	1
39	MP3A	Mx	-.044	1
40	MP3A	X	-85.606	5
41	MP3A	Z	148.274	5
42	MP3A	Mx	-.044	5
43	MP3B	X	-62.471	1
44	MP3B	Z	108.203	1
45	MP3B	Mx	-.049	1
46	MP3B	X	-62.471	5
47	MP3B	Z	108.203	5
48	MP3B	Mx	-.049	5
49	MP3C	X	-85.606	1
50	MP3C	Z	148.274	1
51	MP3C	Mx	-.044	1
52	MP3C	X	-85.606	5
53	MP3C	Z	148.274	5
54	MP3C	Mx	-.044	5
55	MP1A	X	-33.994	1
56	MP1A	Z	58.88	1
57	MP1A	Mx	.017	1
58	MP1A	X	-33.994	5
59	MP1A	Z	58.88	5
60	MP1A	Mx	.017	5
61	MP1B	X	-54.63	1
62	MP1B	Z	94.622	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
63	MP1B	Mx	-.054	1
64	MP1B	X	-54.63	5
65	MP1B	Z	94.622	5
66	MP1B	Mx	-.054	5
67	MP1C	X	-33.994	1
68	MP1C	Z	58.88	1
69	MP1C	Mx	.017	1
70	MP1C	X	-33.994	5
71	MP1C	Z	58.88	5
72	MP1C	Mx	.017	5
73	MP5A	X	-33.994	1
74	MP5A	Z	58.88	1
75	MP5A	Mx	.017	1
76	MP5A	X	-33.994	5
77	MP5A	Z	58.88	5
78	MP5A	Mx	.017	5
79	MP5B	X	-54.63	1
80	MP5B	Z	94.622	1
81	MP5B	Mx	-.054	1
82	MP5B	X	-54.63	5
83	MP5B	Z	94.622	5
84	MP5B	Mx	-.054	5
85	MP5C	X	-33.994	1
86	MP5C	Z	58.88	1
87	MP5C	Mx	.017	1
88	MP5C	X	-33.994	5
89	MP5C	Z	58.88	5
90	MP5C	Mx	.017	5
91	MP2A	X	-50.713	5
92	MP2A	Z	87.837	5
93	MP2A	Mx	.025	5
94	MP2B	X	-19.154	5
95	MP2B	Z	33.176	5
96	MP2B	Mx	-.019	5
97	MP2C	X	-50.713	5
98	MP2C	Z	87.837	5
99	MP2C	Mx	.025	5
100	MP4A	X	-7.02	2.5
101	MP4A	Z	12.16	2.5
102	MP4A	Mx	.003	2.5
103	MP4B	X	-7.02	2.5
104	MP4B	Z	12.16	2.5
105	MP4B	Mx	.003	2.5
106	MP4C	X	-7.02	2.5
107	MP4C	Z	12.16	2.5
108	MP4C	Mx	.003	2.5
109	MP4A	X	-35.256	1.5
110	MP4A	Z	61.066	1.5
111	MP4A	Mx	-.048	1.5
112	MP4B	X	-26.081	1.5
113	MP4B	Z	45.174	1.5
114	MP4B	Mx	.03	1.5
115	MP4C	X	-35.256	1.5
116	MP4C	Z	61.066	1.5
117	MP4C	Mx	.013	1.5
118	MP3A	X	-34.036	2
119	MP3A	Z	58.952	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
120	MP3A	Mx	-.017	2
121	MP3B	X	-21.346	2
122	MP3B	Z	36.973	2
123	MP3B	Mx	.021	2
124	MP3C	X	-34.036	2
125	MP3C	Z	58.952	2
126	MP3C	Mx	-.017	2
127	MP2A	X	-27.469	5
128	MP2A	Z	47.578	5
129	MP2A	Mx	-.014	5
130	MP2B	X	-15.997	5
131	MP2B	Z	27.707	5
132	MP2B	Mx	.016	5
133	MP2C	X	-27.469	5
134	MP2C	Z	47.578	5
135	MP2C	Mx	-.014	5
136	OVP	X	-78.518	1
137	OVP	Z	135.997	1
138	OVP	Mx	.107	1
139	OVP	X	-78.518	1
140	OVP	Z	135.997	1
141	OVP	Mx	-.029	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-45.489	.5
2	MP2A	Z	26.263	.5
3	MP2A	Mx	.023	.5
4	MP2A	X	-45.489	2.5
5	MP2A	Z	26.263	2.5
6	MP2A	Mx	.023	2.5
7	MP2B	X	-38.715	.5
8	MP2B	Z	22.352	.5
9	MP2B	Mx	-.021	.5
10	MP2B	X	-38.715	2.5
11	MP2B	Z	22.352	2.5
12	MP2B	Mx	-.021	2.5
13	MP2C	X	-83.676	.5
14	MP2C	Z	48.311	.5
15	MP2C	Mx	0	.5
16	MP2C	X	-83.676	2.5
17	MP2C	Z	48.311	2.5
18	MP2C	Mx	0	2.5
19	MP3A	X	-120.441	1
20	MP3A	Z	69.536	1
21	MP3A	Mx	.101	1
22	MP3A	X	-120.441	5
23	MP3A	Z	69.536	5
24	MP3A	Mx	.101	5
25	MP3B	X	-113.036	1
26	MP3B	Z	65.261	1
27	MP3B	Mx	-.035	1
28	MP3B	X	-113.036	5
29	MP3B	Z	65.261	5
30	MP3B	Mx	-.035	5
31	MP3C	X	-162.19	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
32	MP3C	Z	93.64	1
33	MP3C	Mx	.109	1
34	MP3C	X	-162.19	5
35	MP3C	Z	93.64	5
36	MP3C	Mx	.109	5
37	MP3A	X	-120.441	1
38	MP3A	Z	69.536	1
39	MP3A	Mx	.02	1
40	MP3A	X	-120.441	5
41	MP3A	Z	69.536	5
42	MP3A	Mx	.02	5
43	MP3B	X	-113.036	1
44	MP3B	Z	65.261	1
45	MP3B	Mx	-.087	1
46	MP3B	X	-113.036	5
47	MP3B	Z	65.261	5
48	MP3B	Mx	-.087	5
49	MP3C	X	-162.19	1
50	MP3C	Z	93.64	1
51	MP3C	Mx	-.109	1
52	MP3C	X	-162.19	5
53	MP3C	Z	93.64	5
54	MP3C	Mx	-.109	5
55	MP1A	X	-83.706	1
56	MP1A	Z	48.328	1
57	MP1A	Mx	.042	1
58	MP1A	X	-83.706	5
59	MP1A	Z	48.328	5
60	MP1A	Mx	.042	5
61	MP1B	X	-90.311	1
62	MP1B	Z	52.141	1
63	MP1B	Mx	-.049	1
64	MP1B	X	-90.311	5
65	MP1B	Z	52.141	5
66	MP1B	Mx	-.049	5
67	MP1C	X	-46.467	1
68	MP1C	Z	26.828	1
69	MP1C	Mx	0	1
70	MP1C	X	-46.467	5
71	MP1C	Z	26.828	5
72	MP1C	Mx	0	5
73	MP5A	X	-83.706	1
74	MP5A	Z	48.328	1
75	MP5A	Mx	.042	1
76	MP5A	X	-83.706	5
77	MP5A	Z	48.328	5
78	MP5A	Mx	.042	5
79	MP5B	X	-90.311	1
80	MP5B	Z	52.141	1
81	MP5B	Mx	-.049	1
82	MP5B	X	-90.311	5
83	MP5B	Z	52.141	5
84	MP5B	Mx	-.049	5
85	MP5C	X	-46.467	1
86	MP5C	Z	26.828	1
87	MP5C	Mx	0	1
88	MP5C	X	-46.467	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
89	MP5C	Z	26.828	5
90	MP5C	Mx	0	5
91	MP2A	X	-49.87	5
92	MP2A	Z	28.792	5
93	MP2A	Mx	.025	5
94	MP2B	X	-39.769	5
95	MP2B	Z	22.96	5
96	MP2B	Mx	-.022	5
97	MP2C	X	-106.821	5
98	MP2C	Z	61.673	5
99	MP2C	Mx	0	5
100	MP4A	X	-10.13	2.5
101	MP4A	Z	5.849	2.5
102	MP4A	Mx	-.002	2.5
103	MP4B	X	-10.13	2.5
104	MP4B	Z	5.849	2.5
105	MP4B	Mx	-.002	2.5
106	MP4C	X	-10.13	2.5
107	MP4C	Z	5.849	2.5
108	MP4C	Mx	-.002	2.5
109	MP4A	X	-50.028	1.5
110	MP4A	Z	28.884	1.5
111	MP4A	Mx	-.039	1.5
112	MP4B	X	-47.091	1.5
113	MP4B	Z	27.188	1.5
114	MP4B	Mx	.016	1.5
115	MP4C	X	-66.585	1.5
116	MP4C	Z	38.443	1.5
117	MP4C	Mx	.038	1.5
118	MP3A	X	-43.685	2
119	MP3A	Z	25.222	2
120	MP3A	Mx	-.022	2
121	MP3B	X	-39.624	2
122	MP3B	Z	22.877	2
123	MP3B	Mx	.021	2
124	MP3C	X	-66.585	2
125	MP3C	Z	38.443	2
126	MP3C	Mx	0	2
127	MP2A	X	-33.775	5
128	MP2A	Z	19.5	5
129	MP2A	Mx	-.017	5
130	MP2B	X	-30.103	5
131	MP2B	Z	17.38	5
132	MP2B	Mx	.016	5
133	MP2C	X	-54.479	5
134	MP2C	Z	31.453	5
135	MP2C	Mx	0	5
136	OVP	X	-118.861	1
137	OVP	Z	68.624	1
138	OVP	Mx	.094	1
139	OVP	X	-118.861	1
140	OVP	Z	68.624	1
141	OVP	Mx	.025	1

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

Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-37.827	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.019	.5
4	MP2A	X	-37.827	2.5
5	MP2A	Z	0	2.5
6	MP2A	Mx	.019	2.5
7	MP2B	X	-72.329	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.023	.5
10	MP2B	X	-72.329	2.5
11	MP2B	Z	0	2.5
12	MP2B	Mx	-.023	2.5
13	MP2C	X	-81.923	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.02	.5
16	MP2C	X	-81.923	2.5
17	MP2C	Z	0	2.5
18	MP2C	Mx	-.02	2.5
19	MP3A	X	-123.004	1
20	MP3A	Z	0	1
21	MP3A	Mx	.062	1
22	MP3A	X	-123.004	5
23	MP3A	Z	0	5
24	MP3A	Mx	.062	5
25	MP3B	X	-160.723	1
26	MP3B	Z	0	1
27	MP3B	Mx	.02	1
28	MP3B	X	-160.723	5
29	MP3B	Z	0	5
30	MP3B	Mx	.02	5
31	MP3C	X	-171.212	1
32	MP3C	Z	0	1
33	MP3C	Mx	.044	1
34	MP3C	X	-171.212	5
35	MP3C	Z	0	5
36	MP3C	Mx	.044	5
37	MP3A	X	-123.004	1
38	MP3A	Z	0	1
39	MP3A	Mx	.062	1
40	MP3A	X	-123.004	5
41	MP3A	Z	0	5
42	MP3A	Mx	.062	5
43	MP3B	X	-160.723	1
44	MP3B	Z	0	1
45	MP3B	Mx	-.123	1
46	MP3B	X	-160.723	5
47	MP3B	Z	0	5
48	MP3B	Mx	-.123	5
49	MP3C	X	-171.212	1
50	MP3C	Z	0	1
51	MP3C	Mx	-.129	1
52	MP3C	X	-171.212	5
53	MP3C	Z	0	5
54	MP3C	Mx	-.129	5
55	MP1A	X	-110.988	1
56	MP1A	Z	0	1
57	MP1A	Mx	.055	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-110.988	5
59	MP1A	Z	0	5
60	MP1A	Mx	.055	5
61	MP1B	X	-77.344	1
62	MP1B	Z	0	1
63	MP1B	Mx	-.025	1
64	MP1B	X	-77.344	5
65	MP1B	Z	0	5
66	MP1B	Mx	-.025	5
67	MP1C	X	-67.989	1
68	MP1C	Z	0	1
69	MP1C	Mx	-.017	1
70	MP1C	X	-67.989	5
71	MP1C	Z	0	5
72	MP1C	Mx	-.017	5
73	MP5A	X	-110.988	1
74	MP5A	Z	0	1
75	MP5A	Mx	.055	1
76	MP5A	X	-110.988	5
77	MP5A	Z	0	5
78	MP5A	Mx	.055	5
79	MP5B	X	-77.344	1
80	MP5B	Z	0	1
81	MP5B	Mx	-.025	1
82	MP5B	X	-77.344	5
83	MP5B	Z	0	5
84	MP5B	Mx	-.025	5
85	MP5C	X	-67.989	1
86	MP5C	Z	0	1
87	MP5C	Mx	-.017	1
88	MP5C	X	-67.989	5
89	MP5C	Z	0	5
90	MP5C	Mx	-.017	5
91	MP2A	X	-35.664	5
92	MP2A	Z	0	5
93	MP2A	Mx	.018	5
94	MP2B	X	-87.118	5
95	MP2B	Z	0	5
96	MP2B	Mx	-.028	5
97	MP2C	X	-101.426	5
98	MP2C	Z	0	5
99	MP2C	Mx	-.025	5
100	MP4A	X	-10.526	2.5
101	MP4A	Z	0	2.5
102	MP4A	Mx	-.005	2.5
103	MP4B	X	-10.526	2.5
104	MP4B	Z	0	2.5
105	MP4B	Mx	-.005	2.5
106	MP4C	X	-10.526	2.5
107	MP4C	Z	0	2.5
108	MP4C	Mx	-.005	2.5
109	MP4A	X	-51.394	1.5
110	MP4A	Z	0	1.5
111	MP4A	Mx	-.026	1.5
112	MP4B	X	-66.353	1.5
113	MP4B	Z	0	1.5
114	MP4B	Mx	-.004	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP4C	X	-70.513	1.5
116	MP4C	Z	0	1.5
117	MP4C	Mx	.048	1.5
118	MP3A	X	-41.629	2
119	MP3A	Z	0	2
120	MP3A	Mx	-.021	2
121	MP3B	X	-62.319	2
122	MP3B	Z	0	2
123	MP3B	Mx	.02	2
124	MP3C	X	-68.072	2
125	MP3C	Z	0	2
126	MP3C	Mx	.017	2
127	MP2A	X	-31.032	5
128	MP2A	Z	0	5
129	MP2A	Mx	-.016	5
130	MP2B	X	-49.737	5
131	MP2B	Z	0	5
132	MP2B	Mx	.016	5
133	MP2C	X	-54.938	5
134	MP2C	Z	0	5
135	MP2C	Mx	.014	5
136	OVP	X	-127.355	1
137	OVP	Z	0	1
138	OVP	Mx	.064	1
139	OVP	X	-127.355	1
140	OVP	Z	0	1
141	OVP	Mx	.064	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-45.489	.5
2	MP2A	Z	-26.263	.5
3	MP2A	Mx	.023	.5
4	MP2A	X	-45.489	2.5
5	MP2A	Z	-26.263	2.5
6	MP2A	Mx	.023	2.5
7	MP2B	X	-82.141	.5
8	MP2B	Z	-47.424	.5
9	MP2B	Mx	-.008	.5
10	MP2B	X	-82.141	2.5
11	MP2B	Z	-47.424	2.5
12	MP2B	Mx	-.008	2.5
13	MP2C	X	-45.489	.5
14	MP2C	Z	-26.263	.5
15	MP2C	Mx	-.023	.5
16	MP2C	X	-45.489	2.5
17	MP2C	Z	-26.263	2.5
18	MP2C	Mx	-.023	2.5
19	MP3A	X	-120.441	1
20	MP3A	Z	-69.536	1
21	MP3A	Mx	.02	1
22	MP3A	X	-120.441	5
23	MP3A	Z	-69.536	5
24	MP3A	Mx	.02	5
25	MP3B	X	-160.511	1
26	MP3B	Z	-92.671	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	.09	1
28	MP3B	X	-160.511	5
29	MP3B	Z	-92.671	5
30	MP3B	Mx	.09	5
31	MP3C	X	-120.441	1
32	MP3C	Z	-69.536	1
33	MP3C	Mx	-.02	1
34	MP3C	X	-120.441	5
35	MP3C	Z	-69.536	5
36	MP3C	Mx	-.02	5
37	MP3A	X	-120.441	1
38	MP3A	Z	-69.536	1
39	MP3A	Mx	.101	1
40	MP3A	X	-120.441	5
41	MP3A	Z	-69.536	5
42	MP3A	Mx	.101	5
43	MP3B	X	-160.511	1
44	MP3B	Z	-92.671	1
45	MP3B	Mx	-.123	1
46	MP3B	X	-160.511	5
47	MP3B	Z	-92.671	5
48	MP3B	Mx	-.123	5
49	MP3C	X	-120.441	1
50	MP3C	Z	-69.536	1
51	MP3C	Mx	-.101	1
52	MP3C	X	-120.441	5
53	MP3C	Z	-69.536	5
54	MP3C	Mx	-.101	5
55	MP1A	X	-83.706	1
56	MP1A	Z	-48.328	1
57	MP1A	Mx	.042	1
58	MP1A	X	-83.706	5
59	MP1A	Z	-48.328	5
60	MP1A	Mx	.042	5
61	MP1B	X	-47.964	1
62	MP1B	Z	-27.692	1
63	MP1B	Mx	-.005	1
64	MP1B	X	-47.964	5
65	MP1B	Z	-27.692	5
66	MP1B	Mx	-.005	5
67	MP1C	X	-83.706	1
68	MP1C	Z	-48.328	1
69	MP1C	Mx	-.042	1
70	MP1C	X	-83.706	5
71	MP1C	Z	-48.328	5
72	MP1C	Mx	-.042	5
73	MP5A	X	-83.706	1
74	MP5A	Z	-48.328	1
75	MP5A	Mx	.042	1
76	MP5A	X	-83.706	5
77	MP5A	Z	-48.328	5
78	MP5A	Mx	.042	5
79	MP5B	X	-47.964	1
80	MP5B	Z	-27.692	1
81	MP5B	Mx	-.005	1
82	MP5B	X	-47.964	5
83	MP5B	Z	-27.692	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP5B	Mx	-.005	5
85	MP5C	X	-83.706	1
86	MP5C	Z	-48.328	1
87	MP5C	Mx	-.042	1
88	MP5C	X	-83.706	5
89	MP5C	Z	-48.328	5
90	MP5C	Mx	-.042	5
91	MP2A	X	-49.87	5
92	MP2A	Z	-28.792	5
93	MP2A	Mx	.025	5
94	MP2B	X	-104.531	5
95	MP2B	Z	-60.351	5
96	MP2B	Mx	-.01	5
97	MP2C	X	-49.87	5
98	MP2C	Z	-28.792	5
99	MP2C	Mx	-.025	5
100	MP4A	X	-10.13	2.5
101	MP4A	Z	-5.849	2.5
102	MP4A	Mx	-.008	2.5
103	MP4B	X	-10.13	2.5
104	MP4B	Z	-5.849	2.5
105	MP4B	Mx	-.008	2.5
106	MP4C	X	-10.13	2.5
107	MP4C	Z	-5.849	2.5
108	MP4C	Mx	-.008	2.5
109	MP4A	X	-50.028	1.5
110	MP4A	Z	-28.884	1.5
111	MP4A	Mx	-.011	1.5
112	MP4B	X	-65.919	1.5
113	MP4B	Z	-38.059	1.5
114	MP4B	Mx	-.031	1.5
115	MP4C	X	-50.028	1.5
116	MP4C	Z	-28.884	1.5
117	MP4C	Mx	.039	1.5
118	MP3A	X	-43.685	2
119	MP3A	Z	-25.222	2
120	MP3A	Mx	-.022	2
121	MP3B	X	-65.664	2
122	MP3B	Z	-37.911	2
123	MP3B	Mx	.007	2
124	MP3C	X	-43.685	2
125	MP3C	Z	-25.222	2
126	MP3C	Mx	.022	2
127	MP2A	X	-33.775	5
128	MP2A	Z	-19.5	5
129	MP2A	Mx	-.017	5
130	MP2B	X	-53.646	5
131	MP2B	Z	-30.973	5
132	MP2B	Mx	.005	5
133	MP2C	X	-33.775	5
134	MP2C	Z	-19.5	5
135	MP2C	Mx	.017	5
136	OVP	X	-118.861	1
137	OVP	Z	-68.624	1
138	OVP	Mx	.025	1
139	OVP	X	-118.861	1
140	OVP	Z	-68.624	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
141	OVP	Mx	.094	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-40.961	.5
2	MP2A	Z	-70.947	.5
3	MP2A	Mx	.02	.5
4	MP2A	X	-40.961	2.5
5	MP2A	Z	-70.947	2.5
6	MP2A	Mx	.02	2.5
7	MP2B	X	-44.872	.5
8	MP2B	Z	-77.72	.5
9	MP2B	Mx	.015	.5
10	MP2B	X	-44.872	2.5
11	MP2B	Z	-77.72	2.5
12	MP2B	Mx	.015	2.5
13	MP2C	X	-18.914	.5
14	MP2C	Z	-32.759	.5
15	MP2C	Mx	-.019	.5
16	MP2C	X	-18.914	2.5
17	MP2C	Z	-32.759	2.5
18	MP2C	Mx	-.019	2.5
19	MP3A	X	-85.606	1
20	MP3A	Z	-148.274	1
21	MP3A	Mx	-.044	1
22	MP3A	X	-85.606	5
23	MP3A	Z	-148.274	5
24	MP3A	Mx	-.044	5
25	MP3B	X	-89.881	1
26	MP3B	Z	-155.678	1
27	MP3B	Mx	.129	1
28	MP3B	X	-89.881	5
29	MP3B	Z	-155.678	5
30	MP3B	Mx	.129	5
31	MP3C	X	-61.502	1
32	MP3C	Z	-106.524	1
33	MP3C	Mx	-.062	1
34	MP3C	X	-61.502	5
35	MP3C	Z	-106.524	5
36	MP3C	Mx	-.062	5
37	MP3A	X	-85.606	1
38	MP3A	Z	-148.274	1
39	MP3A	Mx	.129	1
40	MP3A	X	-85.606	5
41	MP3A	Z	-148.274	5
42	MP3A	Mx	.129	5
43	MP3B	X	-89.881	1
44	MP3B	Z	-155.678	1
45	MP3B	Mx	-.068	1
46	MP3B	X	-89.881	5
47	MP3B	Z	-155.678	5
48	MP3B	Mx	-.068	5
49	MP3C	X	-61.502	1
50	MP3C	Z	-106.524	1
51	MP3C	Mx	-.062	1
52	MP3C	X	-61.502	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP3C	Z	-106.524	5
54	MP3C	Mx	-.062	5
55	MP1A	X	-33.994	1
56	MP1A	Z	-58.88	1
57	MP1A	Mx	.017	1
58	MP1A	X	-33.994	5
59	MP1A	Z	-58.88	5
60	MP1A	Mx	.017	5
61	MP1B	X	-30.181	1
62	MP1B	Z	-52.275	1
63	MP1B	Mx	.01	1
64	MP1B	X	-30.181	5
65	MP1B	Z	-52.275	5
66	MP1B	Mx	.01	5
67	MP1C	X	-55.494	1
68	MP1C	Z	-96.119	1
69	MP1C	Mx	-.055	1
70	MP1C	X	-55.494	5
71	MP1C	Z	-96.119	5
72	MP1C	Mx	-.055	5
73	MP5A	X	-33.994	1
74	MP5A	Z	-58.88	1
75	MP5A	Mx	.017	1
76	MP5A	X	-33.994	5
77	MP5A	Z	-58.88	5
78	MP5A	Mx	.017	5
79	MP5B	X	-30.181	1
80	MP5B	Z	-52.275	1
81	MP5B	Mx	.01	1
82	MP5B	X	-30.181	5
83	MP5B	Z	-52.275	5
84	MP5B	Mx	.01	5
85	MP5C	X	-55.494	1
86	MP5C	Z	-96.119	1
87	MP5C	Mx	-.055	1
88	MP5C	X	-55.494	5
89	MP5C	Z	-96.119	5
90	MP5C	Mx	-.055	5
91	MP2A	X	-50.713	5
92	MP2A	Z	-87.837	5
93	MP2A	Mx	.025	5
94	MP2B	X	-56.545	5
95	MP2B	Z	-97.938	5
96	MP2B	Mx	.019	5
97	MP2C	X	-17.832	5
98	MP2C	Z	-30.886	5
99	MP2C	Mx	-.018	5
100	MP4A	X	-7.02	2.5
101	MP4A	Z	-12.16	2.5
102	MP4A	Mx	-.01	2.5
103	MP4B	X	-7.02	2.5
104	MP4B	Z	-12.16	2.5
105	MP4B	Mx	-.01	2.5
106	MP4C	X	-7.02	2.5
107	MP4C	Z	-12.16	2.5
108	MP4C	Mx	-.01	2.5
109	MP4A	X	-35.256	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
110	MP4A	Z	-61.066	1.5
111	MP4A	Mx	.013	1.5
112	MP4B	X	-36.952	1.5
113	MP4B	Z	-64.003	1.5
114	MP4B	Mx	-.047	1.5
115	MP4C	X	-25.697	1.5
116	MP4C	Z	-44.509	1.5
117	MP4C	Mx	.026	1.5
118	MP3A	X	-34.036	2
119	MP3A	Z	-58.952	2
120	MP3A	Mx	-.017	2
121	MP3B	X	-36.381	2
122	MP3B	Z	-63.013	2
123	MP3B	Mx	-.012	2
124	MP3C	X	-20.815	2
125	MP3C	Z	-36.052	2
126	MP3C	Mx	.021	2
127	MP2A	X	-27.469	5
128	MP2A	Z	-47.578	5
129	MP2A	Mx	-.014	5
130	MP2B	X	-29.589	5
131	MP2B	Z	-51.25	5
132	MP2B	Mx	-.01	5
133	MP2C	X	-15.516	5
134	MP2C	Z	-26.874	5
135	MP2C	Mx	.016	5
136	OVP	X	-78.518	1
137	OVP	Z	-135.997	1
138	OVP	Mx	-.029	1
139	OVP	X	-78.518	1
140	OVP	Z	-135.997	1
141	OVP	Mx	.107	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-19.247	.5
3	MP2A	Mx	0	.5
4	MP2A	X	0	2.5
5	MP2A	Z	-19.247	2.5
6	MP2A	Mx	0	2.5
7	MP2B	X	0	.5
8	MP2B	Z	-12.76	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	0	2.5
11	MP2B	Z	-12.76	2.5
12	MP2B	Mx	.005	2.5
13	MP2C	X	0	.5
14	MP2C	Z	-10.955	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	0	2.5
17	MP2C	Z	-10.955	2.5
18	MP2C	Mx	-.005	2.5
19	MP3A	X	0	1
20	MP3A	Z	-36.198	1
21	MP3A	Mx	-.021	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP3A	X	0	5
23	MP3A	Z	-36.198	5
24	MP3A	Mx	-.021	5
25	MP3B	X	0	1
26	MP3B	Z	-29.441	1
27	MP3B	Mx	.022	1
28	MP3B	X	0	5
29	MP3B	Z	-29.441	5
30	MP3B	Mx	.022	5
31	MP3C	X	0	1
32	MP3C	Z	-27.562	1
33	MP3C	Mx	-.02	1
34	MP3C	X	0	5
35	MP3C	Z	-27.562	5
36	MP3C	Mx	-.02	5
37	MP3A	X	0	1
38	MP3A	Z	-36.198	1
39	MP3A	Mx	.021	1
40	MP3A	X	0	5
41	MP3A	Z	-36.198	5
42	MP3A	Mx	.021	5
43	MP3B	X	0	1
44	MP3B	Z	-29.441	1
45	MP3B	Mx	.000237	1
46	MP3B	X	0	5
47	MP3B	Z	-29.441	5
48	MP3B	Mx	.000237	5
49	MP3C	X	0	1
50	MP3C	Z	-27.562	1
51	MP3C	Mx	-.004	1
52	MP3C	X	0	5
53	MP3C	Z	-27.562	5
54	MP3C	Mx	-.004	5
55	MP1A	X	0	1
56	MP1A	Z	-11.461	1
57	MP1A	Mx	0	1
58	MP1A	X	0	5
59	MP1A	Z	-11.461	5
60	MP1A	Mx	0	5
61	MP1B	X	0	1
62	MP1B	Z	-17.593	1
63	MP1B	Mx	.007	1
64	MP1B	X	0	5
65	MP1B	Z	-17.593	5
66	MP1B	Mx	.007	5
67	MP1C	X	0	1
68	MP1C	Z	-19.299	1
69	MP1C	Mx	-.008	1
70	MP1C	X	0	5
71	MP1C	Z	-19.299	5
72	MP1C	Mx	-.008	5
73	MP5A	X	0	1
74	MP5A	Z	-11.461	1
75	MP5A	Mx	0	1
76	MP5A	X	0	5
77	MP5A	Z	-11.461	5
78	MP5A	Mx	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP5B	X	0	1
80	MP5B	Z	-17.593	1
81	MP5B	Mx	.007	1
82	MP5B	X	0	5
83	MP5B	Z	-17.593	5
84	MP5B	Mx	.007	5
85	MP5C	X	0	1
86	MP5C	Z	-19.299	1
87	MP5C	Mx	-.008	1
88	MP5C	X	0	5
89	MP5C	Z	-19.299	5
90	MP5C	Mx	-.008	5
91	MP2A	X	0	5
92	MP2A	Z	-25.104	5
93	MP2A	Mx	0	5
94	MP2B	X	0	5
95	MP2B	Z	-15.333	5
96	MP2B	Mx	.006	5
97	MP2C	X	0	5
98	MP2C	Z	-12.617	5
99	MP2C	Mx	-.005	5
100	MP4A	X	0	2.5
101	MP4A	Z	-3.928	2.5
102	MP4A	Mx	-.002	2.5
103	MP4B	X	0	2.5
104	MP4B	Z	-3.928	2.5
105	MP4B	Mx	-.002	2.5
106	MP4C	X	0	2.5
107	MP4C	Z	-3.928	2.5
108	MP4C	Mx	-.002	2.5
109	MP4A	X	0	1.5
110	MP4A	Z	-16.213	1.5
111	MP4A	Mx	.008	1.5
112	MP4B	X	0	1.5
113	MP4B	Z	-13.314	1.5
114	MP4B	Mx	-.009	1.5
115	MP4C	X	0	1.5
116	MP4C	Z	-12.508	1.5
117	MP4C	Mx	.002	1.5
118	MP3A	X	0	2
119	MP3A	Z	-16.213	2
120	MP3A	Mx	0	2
121	MP3B	X	0	2
122	MP3B	Z	-12.212	2
123	MP3B	Mx	-.005	2
124	MP3C	X	0	2
125	MP3C	Z	-11.1	2
126	MP3C	Mx	.005	2
127	MP2A	X	0	5
128	MP2A	Z	-13.58	5
129	MP2A	Mx	0	5
130	MP2B	X	0	5
131	MP2B	Z	-9.909	5
132	MP2B	Mx	-.004	5
133	MP2C	X	0	5
134	MP2C	Z	-8.887	5
135	MP2C	Mx	.004	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
136	OVP	X	0	1
137	OVP	Z	-33.335	1
138	OVP	Mx	-.017	1
139	OVP	X	0	1
140	OVP	Z	-33.335	1
141	OVP	Mx	.017	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.242	.5
2	MP2A	Z	-14.275	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	8.242	2.5
5	MP2A	Z	-14.275	2.5
6	MP2A	Mx	-.004	2.5
7	MP2B	X	4.262	.5
8	MP2B	Z	-7.383	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	4.262	2.5
11	MP2B	Z	-7.383	2.5
12	MP2B	Mx	.004	2.5
13	MP2C	X	8.242	.5
14	MP2C	Z	-14.275	.5
15	MP2C	Mx	-.004	.5
16	MP2C	X	8.242	2.5
17	MP2C	Z	-14.275	2.5
18	MP2C	Mx	-.004	2.5
19	MP3A	X	16.66	1
20	MP3A	Z	-28.855	1
21	MP3A	Mx	-.025	1
22	MP3A	X	16.66	5
23	MP3A	Z	-28.855	5
24	MP3A	Mx	-.025	5
25	MP3B	X	12.515	1
26	MP3B	Z	-21.677	1
27	MP3B	Mx	.015	1
28	MP3B	X	12.515	5
29	MP3B	Z	-21.677	5
30	MP3B	Mx	.015	5
31	MP3C	X	16.66	1
32	MP3C	Z	-28.855	1
33	MP3C	Mx	-.025	1
34	MP3C	X	16.66	5
35	MP3C	Z	-28.855	5
36	MP3C	Mx	-.025	5
37	MP3A	X	16.66	1
38	MP3A	Z	-28.855	1
39	MP3A	Mx	.009	1
40	MP3A	X	16.66	5
41	MP3A	Z	-28.855	5
42	MP3A	Mx	.009	5
43	MP3B	X	12.515	1
44	MP3B	Z	-21.677	1
45	MP3B	Mx	.01	1
46	MP3B	X	12.515	5
47	MP3B	Z	-21.677	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP3B	Mx	.01	5
49	MP3C	X	16.66	1
50	MP3C	Z	-28.855	1
51	MP3C	Mx	.009	1
52	MP3C	X	16.66	5
53	MP3C	Z	-28.855	5
54	MP3C	Mx	.009	5
55	MP1A	X	7.037	1
56	MP1A	Z	-12.188	1
57	MP1A	Mx	-.004	1
58	MP1A	X	7.037	5
59	MP1A	Z	-12.188	5
60	MP1A	Mx	-.004	5
61	MP1B	X	10.798	1
62	MP1B	Z	-18.703	1
63	MP1B	Mx	.011	1
64	MP1B	X	10.798	5
65	MP1B	Z	-18.703	5
66	MP1B	Mx	.011	5
67	MP1C	X	7.037	1
68	MP1C	Z	-12.188	1
69	MP1C	Mx	-.004	1
70	MP1C	X	7.037	5
71	MP1C	Z	-12.188	5
72	MP1C	Mx	-.004	5
73	MP5A	X	7.037	1
74	MP5A	Z	-12.188	1
75	MP5A	Mx	-.004	1
76	MP5A	X	7.037	5
77	MP5A	Z	-12.188	5
78	MP5A	Mx	-.004	5
79	MP5B	X	10.798	1
80	MP5B	Z	-18.703	1
81	MP5B	Mx	.011	1
82	MP5B	X	10.798	5
83	MP5B	Z	-18.703	5
84	MP5B	Mx	.011	5
85	MP5C	X	7.037	1
86	MP5C	Z	-12.188	1
87	MP5C	Mx	-.004	1
88	MP5C	X	7.037	5
89	MP5C	Z	-12.188	5
90	MP5C	Mx	-.004	5
91	MP2A	X	10.471	5
92	MP2A	Z	-18.136	5
93	MP2A	Mx	-.005	5
94	MP2B	X	4.478	5
95	MP2B	Z	-7.756	5
96	MP2B	Mx	.004	5
97	MP2C	X	10.471	5
98	MP2C	Z	-18.136	5
99	MP2C	Mx	-.005	5
100	MP4A	X	1.841	2.5
101	MP4A	Z	-3.189	2.5
102	MP4A	Mx	-.000674	2.5
103	MP4B	X	1.841	2.5
104	MP4B	Z	-3.189	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP4B	Mx	-.000674	2.5
106	MP4C	X	1.841	2.5
107	MP4C	Z	-3.189	2.5
108	MP4C	Mx	-.000674	2.5
109	MP4A	X	7.489	1.5
110	MP4A	Z	-12.971	1.5
111	MP4A	Mx	.01	1.5
112	MP4B	X	5.711	1.5
113	MP4B	Z	-9.892	1.5
114	MP4B	Mx	-.007	1.5
115	MP4C	X	7.489	1.5
116	MP4C	Z	-12.971	1.5
117	MP4C	Mx	-.003	1.5
118	MP3A	X	7.254	2
119	MP3A	Z	-12.565	2
120	MP3A	Mx	.004	2
121	MP3B	X	4.801	2
122	MP3B	Z	-8.315	2
123	MP3B	Mx	-.005	2
124	MP3C	X	7.254	2
125	MP3C	Z	-12.565	2
126	MP3C	Mx	.004	2
127	MP2A	X	6.008	5
128	MP2A	Z	-10.406	5
129	MP2A	Mx	.003	5
130	MP2B	X	3.756	5
131	MP2B	Z	-6.505	5
132	MP2B	Mx	-.004	5
133	MP2C	X	6.008	5
134	MP2C	Z	-10.406	5
135	MP2C	Mx	.003	5
136	OVP	X	15.759	1
137	OVP	Z	-27.295	1
138	OVP	Mx	-.022	1
139	OVP	X	15.759	1
140	OVP	Z	-27.295	1
141	OVP	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.488	.5
2	MP2A	Z	-5.478	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	9.488	2.5
5	MP2A	Z	-5.478	2.5
6	MP2A	Mx	-.005	2.5
7	MP2B	X	8.214	.5
8	MP2B	Z	-4.742	.5
9	MP2B	Mx	.004	.5
10	MP2B	X	8.214	2.5
11	MP2B	Z	-4.742	2.5
12	MP2B	Mx	.004	2.5
13	MP2C	X	16.669	.5
14	MP2C	Z	-9.624	.5
15	MP2C	Mx	0	.5
16	MP2C	X	16.669	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	-9.624	2.5
18	MP2C	Mx	0	2.5
19	MP3A	X	23.869	1
20	MP3A	Z	-13.781	1
21	MP3A	Mx	-.02	1
22	MP3A	X	23.869	5
23	MP3A	Z	-13.781	5
24	MP3A	Mx	-.02	5
25	MP3B	X	22.543	1
26	MP3B	Z	-13.015	1
27	MP3B	Mx	.007	1
28	MP3B	X	22.543	5
29	MP3B	Z	-13.015	5
30	MP3B	Mx	.007	5
31	MP3C	X	31.348	1
32	MP3C	Z	-18.099	1
33	MP3C	Mx	-.021	1
34	MP3C	X	31.348	5
35	MP3C	Z	-18.099	5
36	MP3C	Mx	-.021	5
37	MP3A	X	23.869	1
38	MP3A	Z	-13.781	1
39	MP3A	Mx	-.004	1
40	MP3A	X	23.869	5
41	MP3A	Z	-13.781	5
42	MP3A	Mx	-.004	5
43	MP3B	X	22.543	1
44	MP3B	Z	-13.015	1
45	MP3B	Mx	.017	1
46	MP3B	X	22.543	5
47	MP3B	Z	-13.015	5
48	MP3B	Mx	.017	5
49	MP3C	X	31.348	1
50	MP3C	Z	-18.099	1
51	MP3C	Mx	.021	1
52	MP3C	X	31.348	5
53	MP3C	Z	-18.099	5
54	MP3C	Mx	.021	5
55	MP1A	X	16.713	1
56	MP1A	Z	-9.649	1
57	MP1A	Mx	-.008	1
58	MP1A	X	16.713	5
59	MP1A	Z	-9.649	5
60	MP1A	Mx	-.008	5
61	MP1B	X	17.917	1
62	MP1B	Z	-10.344	1
63	MP1B	Mx	.01	1
64	MP1B	X	17.917	5
65	MP1B	Z	-10.344	5
66	MP1B	Mx	.01	5
67	MP1C	X	9.925	1
68	MP1C	Z	-5.73	1
69	MP1C	Mx	0	1
70	MP1C	X	9.925	5
71	MP1C	Z	-5.73	5
72	MP1C	Mx	0	5
73	MP5A	X	16.713	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP5A	Z	-9.649	1
75	MP5A	Mx	-.008	1
76	MP5A	X	16.713	5
77	MP5A	Z	-9.649	5
78	MP5A	Mx	-.008	5
79	MP5B	X	17.917	1
80	MP5B	Z	-10.344	1
81	MP5B	Mx	.01	1
82	MP5B	X	17.917	5
83	MP5B	Z	-10.344	5
84	MP5B	Mx	.01	5
85	MP5C	X	9.925	1
86	MP5C	Z	-5.73	1
87	MP5C	Mx	0	1
88	MP5C	X	9.925	5
89	MP5C	Z	-5.73	5
90	MP5C	Mx	0	5
91	MP2A	X	10.926	5
92	MP2A	Z	-6.308	5
93	MP2A	Mx	-.005	5
94	MP2B	X	9.008	5
95	MP2B	Z	-5.201	5
96	MP2B	Mx	.005	5
97	MP2C	X	21.741	5
98	MP2C	Z	-12.552	5
99	MP2C	Mx	0	5
100	MP4A	X	2.763	2.5
101	MP4A	Z	-1.595	2.5
102	MP4A	Mx	.000584	2.5
103	MP4B	X	2.763	2.5
104	MP4B	Z	-1.595	2.5
105	MP4B	Mx	.000584	2.5
106	MP4C	X	2.763	2.5
107	MP4C	Z	-1.595	2.5
108	MP4C	Mx	.000584	2.5
109	MP4A	X	10.832	1.5
110	MP4A	Z	-6.254	1.5
111	MP4A	Mx	.009	1.5
112	MP4B	X	10.263	1.5
113	MP4B	Z	-5.925	1.5
114	MP4B	Mx	-.004	1.5
115	MP4C	X	14.041	1.5
116	MP4C	Z	-8.106	1.5
117	MP4C	Mx	-.008	1.5
118	MP3A	X	9.613	2
119	MP3A	Z	-5.55	2
120	MP3A	Mx	.005	2
121	MP3B	X	8.828	2
122	MP3B	Z	-5.097	2
123	MP3B	Mx	-.005	2
124	MP3C	X	14.041	2
125	MP3C	Z	-8.106	2
126	MP3C	Mx	0	2
127	MP2A	X	7.697	5
128	MP2A	Z	-4.444	5
129	MP2A	Mx	.004	5
130	MP2B	X	6.976	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
131	MP2B	Z	-4.028	5
132	MP2B	Mx	-.004	5
133	MP2C	X	11.761	5
134	MP2C	Z	-6.79	5
135	MP2C	Mx	0	5
136	OVP	X	24.145	1
137	OVP	Z	-13.94	1
138	OVP	Mx	-.019	1
139	OVP	X	24.145	1
140	OVP	Z	-13.94	1
141	OVP	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.192	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	8.192	2.5
5	MP2A	Z	0	2.5
6	MP2A	Mx	-.004	2.5
7	MP2B	X	14.679	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.005	.5
10	MP2B	X	14.679	2.5
11	MP2B	Z	0	2.5
12	MP2B	Mx	.005	2.5
13	MP2C	X	16.483	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	16.483	2.5
17	MP2C	Z	0	2.5
18	MP2C	Mx	.004	2.5
19	MP3A	X	24.683	1
20	MP3A	Z	0	1
21	MP3A	Mx	-.012	1
22	MP3A	X	24.683	5
23	MP3A	Z	0	5
24	MP3A	Mx	-.012	5
25	MP3B	X	31.44	1
26	MP3B	Z	0	1
27	MP3B	Mx	-.004	1
28	MP3B	X	31.44	5
29	MP3B	Z	0	5
30	MP3B	Mx	-.004	5
31	MP3C	X	33.319	1
32	MP3C	Z	0	1
33	MP3C	Mx	-.009	1
34	MP3C	X	33.319	5
35	MP3C	Z	0	5
36	MP3C	Mx	-.009	5
37	MP3A	X	24.683	1
38	MP3A	Z	0	1
39	MP3A	Mx	-.012	1
40	MP3A	X	24.683	5
41	MP3A	Z	0	5
42	MP3A	Mx	-.012	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP3B	X	31.44	1
44	MP3B	Z	0	1
45	MP3B	Mx	.024	1
46	MP3B	X	31.44	5
47	MP3B	Z	0	5
48	MP3B	Mx	.024	5
49	MP3C	X	33.319	1
50	MP3C	Z	0	1
51	MP3C	Mx	.025	1
52	MP3C	X	33.319	5
53	MP3C	Z	0	5
54	MP3C	Mx	.025	5
55	MP1A	X	21.911	1
56	MP1A	Z	0	1
57	MP1A	Mx	-.011	1
58	MP1A	X	21.911	5
59	MP1A	Z	0	5
60	MP1A	Mx	-.011	5
61	MP1B	X	15.779	1
62	MP1B	Z	0	1
63	MP1B	Mx	.005	1
64	MP1B	X	15.779	5
65	MP1B	Z	0	5
66	MP1B	Mx	.005	5
67	MP1C	X	14.073	1
68	MP1C	Z	0	1
69	MP1C	Mx	.004	1
70	MP1C	X	14.073	5
71	MP1C	Z	0	5
72	MP1C	Mx	.004	5
73	MP5A	X	21.911	1
74	MP5A	Z	0	1
75	MP5A	Mx	-.011	1
76	MP5A	X	21.911	5
77	MP5A	Z	0	5
78	MP5A	Mx	-.011	5
79	MP5B	X	15.779	1
80	MP5B	Z	0	1
81	MP5B	Mx	.005	1
82	MP5B	X	15.779	5
83	MP5B	Z	0	5
84	MP5B	Mx	.005	5
85	MP5C	X	14.073	1
86	MP5C	Z	0	1
87	MP5C	Mx	.004	1
88	MP5C	X	14.073	5
89	MP5C	Z	0	5
90	MP5C	Mx	.004	5
91	MP2A	X	8.454	5
92	MP2A	Z	0	5
93	MP2A	Mx	-.004	5
94	MP2B	X	18.225	5
95	MP2B	Z	0	5
96	MP2B	Mx	.006	5
97	MP2C	X	20.942	5
98	MP2C	Z	0	5
99	MP2C	Mx	.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP4A	X	2.945	2.5
101	MP4A	Z	0	2.5
102	MP4A	Mx	.001	2.5
103	MP4B	X	2.945	2.5
104	MP4B	Z	0	2.5
105	MP4B	Mx	.001	2.5
106	MP4C	X	2.945	2.5
107	MP4C	Z	0	2.5
108	MP4C	Mx	.001	2.5
109	MP4A	X	11.273	1.5
110	MP4A	Z	0	1.5
111	MP4A	Mx	.006	1.5
112	MP4B	X	14.172	1.5
113	MP4B	Z	0	1.5
114	MP4B	Mx	.000873	1.5
115	MP4C	X	14.978	1.5
116	MP4C	Z	0	1.5
117	MP4C	Mx	-.01	1.5
118	MP3A	X	9.396	2
119	MP3A	Z	0	2
120	MP3A	Mx	.005	2
121	MP3B	X	13.396	2
122	MP3B	Z	0	2
123	MP3B	Mx	-.004	2
124	MP3C	X	14.509	2
125	MP3C	Z	0	2
126	MP3C	Mx	-.004	2
127	MP2A	X	7.323	5
128	MP2A	Z	0	5
129	MP2A	Mx	.004	5
130	MP2B	X	10.995	5
131	MP2B	Z	0	5
132	MP2B	Mx	-.004	5
133	MP2C	X	12.016	5
134	MP2C	Z	0	5
135	MP2C	Mx	-.003	5
136	OVP	X	26.062	1
137	OVP	Z	0	1
138	OVP	Mx	-.013	1
139	OVP	X	26.062	1
140	OVP	Z	0	1
141	OVP	Mx	-.013	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	9.488	.5
2	MP2A	Z	5.478	.5
3	MP2A	Mx	-.005	.5
4	MP2A	X	9.488	2.5
5	MP2A	Z	5.478	2.5
6	MP2A	Mx	-.005	2.5
7	MP2B	X	16.38	.5
8	MP2B	Z	9.457	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	16.38	2.5
11	MP2B	Z	9.457	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	.002	2.5
13	MP2C	X	9.488	.5
14	MP2C	Z	5.478	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	9.488	2.5
17	MP2C	Z	5.478	2.5
18	MP2C	Mx	.005	2.5
19	MP3A	X	23.869	1
20	MP3A	Z	13.781	1
21	MP3A	Mx	-.004	1
22	MP3A	X	23.869	5
23	MP3A	Z	13.781	5
24	MP3A	Mx	-.004	5
25	MP3B	X	31.047	1
26	MP3B	Z	17.925	1
27	MP3B	Mx	-.017	1
28	MP3B	X	31.047	5
29	MP3B	Z	17.925	5
30	MP3B	Mx	-.017	5
31	MP3C	X	23.869	1
32	MP3C	Z	13.781	1
33	MP3C	Mx	.004	1
34	MP3C	X	23.869	5
35	MP3C	Z	13.781	5
36	MP3C	Mx	.004	5
37	MP3A	X	23.869	1
38	MP3A	Z	13.781	1
39	MP3A	Mx	-.02	1
40	MP3A	X	23.869	5
41	MP3A	Z	13.781	5
42	MP3A	Mx	-.02	5
43	MP3B	X	31.047	1
44	MP3B	Z	17.925	1
45	MP3B	Mx	.024	1
46	MP3B	X	31.047	5
47	MP3B	Z	17.925	5
48	MP3B	Mx	.024	5
49	MP3C	X	23.869	1
50	MP3C	Z	13.781	1
51	MP3C	Mx	.02	1
52	MP3C	X	23.869	5
53	MP3C	Z	13.781	5
54	MP3C	Mx	.02	5
55	MP1A	X	16.713	1
56	MP1A	Z	9.649	1
57	MP1A	Mx	-.008	1
58	MP1A	X	16.713	5
59	MP1A	Z	9.649	5
60	MP1A	Mx	-.008	5
61	MP1B	X	10.198	1
62	MP1B	Z	5.888	1
63	MP1B	Mx	.001	1
64	MP1B	X	10.198	5
65	MP1B	Z	5.888	5
66	MP1B	Mx	.001	5
67	MP1C	X	16.713	1
68	MP1C	Z	9.649	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1C	Mx	.008	1
70	MP1C	X	16.713	5
71	MP1C	Z	9.649	5
72	MP1C	Mx	.008	5
73	MP5A	X	16.713	1
74	MP5A	Z	9.649	1
75	MP5A	Mx	-.008	1
76	MP5A	X	16.713	5
77	MP5A	Z	9.649	5
78	MP5A	Mx	-.008	5
79	MP5B	X	10.198	1
80	MP5B	Z	5.888	1
81	MP5B	Mx	.001	1
82	MP5B	X	10.198	5
83	MP5B	Z	5.888	5
84	MP5B	Mx	.001	5
85	MP5C	X	16.713	1
86	MP5C	Z	9.649	1
87	MP5C	Mx	.008	1
88	MP5C	X	16.713	5
89	MP5C	Z	9.649	5
90	MP5C	Mx	.008	5
91	MP2A	X	10.926	5
92	MP2A	Z	6.308	5
93	MP2A	Mx	-.005	5
94	MP2B	X	21.306	5
95	MP2B	Z	12.301	5
96	MP2B	Mx	.002	5
97	MP2C	X	10.926	5
98	MP2C	Z	6.308	5
99	MP2C	Mx	.005	5
100	MP4A	X	2.763	2.5
101	MP4A	Z	1.595	2.5
102	MP4A	Mx	.002	2.5
103	MP4B	X	2.763	2.5
104	MP4B	Z	1.595	2.5
105	MP4B	Mx	.002	2.5
106	MP4C	X	2.763	2.5
107	MP4C	Z	1.595	2.5
108	MP4C	Mx	.002	2.5
109	MP4A	X	10.832	1.5
110	MP4A	Z	6.254	1.5
111	MP4A	Mx	.002	1.5
112	MP4B	X	13.912	1.5
113	MP4B	Z	8.032	1.5
114	MP4B	Mx	.007	1.5
115	MP4C	X	10.832	1.5
116	MP4C	Z	6.254	1.5
117	MP4C	Mx	-.009	1.5
118	MP3A	X	9.613	2
119	MP3A	Z	5.55	2
120	MP3A	Mx	.005	2
121	MP3B	X	13.863	2
122	MP3B	Z	8.004	2
123	MP3B	Mx	-.001	2
124	MP3C	X	9.613	2
125	MP3C	Z	5.55	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
126	MP3C	Mx	-.005	2
127	MP2A	X	7.697	5
128	MP2A	Z	4.444	5
129	MP2A	Mx	.004	5
130	MP2B	X	11.598	5
131	MP2B	Z	6.696	5
132	MP2B	Mx	-.001	5
133	MP2C	X	7.697	5
134	MP2C	Z	4.444	5
135	MP2C	Mx	-.004	5
136	OVP	X	24.145	1
137	OVP	Z	13.94	1
138	OVP	Mx	-.005	1
139	OVP	X	24.145	1
140	OVP	Z	13.94	1
141	OVP	Mx	-.019	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	8.242	.5
2	MP2A	Z	14.275	.5
3	MP2A	Mx	-.004	.5
4	MP2A	X	8.242	2.5
5	MP2A	Z	14.275	2.5
6	MP2A	Mx	-.004	2.5
7	MP2B	X	8.977	.5
8	MP2B	Z	15.549	.5
9	MP2B	Mx	-.003	.5
10	MP2B	X	8.977	2.5
11	MP2B	Z	15.549	2.5
12	MP2B	Mx	-.003	2.5
13	MP2C	X	4.096	.5
14	MP2C	Z	7.094	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	4.096	2.5
17	MP2C	Z	7.094	2.5
18	MP2C	Mx	.004	2.5
19	MP3A	X	16.66	1
20	MP3A	Z	28.855	1
21	MP3A	Mx	.009	1
22	MP3A	X	16.66	5
23	MP3A	Z	28.855	5
24	MP3A	Mx	.009	5
25	MP3B	X	17.425	1
26	MP3B	Z	30.182	1
27	MP3B	Mx	-.025	1
28	MP3B	X	17.425	5
29	MP3B	Z	30.182	5
30	MP3B	Mx	-.025	5
31	MP3C	X	12.342	1
32	MP3C	Z	21.376	1
33	MP3C	Mx	.012	1
34	MP3C	X	12.342	5
35	MP3C	Z	21.376	5
36	MP3C	Mx	.012	5
37	MP3A	X	16.66	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP3A	Z	28.855	1
39	MP3A	Mx	-.025	1
40	MP3A	X	16.66	5
41	MP3A	Z	28.855	5
42	MP3A	Mx	-.025	5
43	MP3B	X	17.425	1
44	MP3B	Z	30.182	1
45	MP3B	Mx	.013	1
46	MP3B	X	17.425	5
47	MP3B	Z	30.182	5
48	MP3B	Mx	.013	5
49	MP3C	X	12.342	1
50	MP3C	Z	21.376	1
51	MP3C	Mx	.012	1
52	MP3C	X	12.342	5
53	MP3C	Z	21.376	5
54	MP3C	Mx	.012	5
55	MP1A	X	7.037	1
56	MP1A	Z	12.188	1
57	MP1A	Mx	-.004	1
58	MP1A	X	7.037	5
59	MP1A	Z	12.188	5
60	MP1A	Mx	-.004	5
61	MP1B	X	6.342	1
62	MP1B	Z	10.984	1
63	MP1B	Mx	-.002	1
64	MP1B	X	6.342	5
65	MP1B	Z	10.984	5
66	MP1B	Mx	-.002	5
67	MP1C	X	10.956	1
68	MP1C	Z	18.976	1
69	MP1C	Mx	.011	1
70	MP1C	X	10.956	5
71	MP1C	Z	18.976	5
72	MP1C	Mx	.011	5
73	MP5A	X	7.037	1
74	MP5A	Z	12.188	1
75	MP5A	Mx	-.004	1
76	MP5A	X	7.037	5
77	MP5A	Z	12.188	5
78	MP5A	Mx	-.004	5
79	MP5B	X	6.342	1
80	MP5B	Z	10.984	1
81	MP5B	Mx	-.002	1
82	MP5B	X	6.342	5
83	MP5B	Z	10.984	5
84	MP5B	Mx	-.002	5
85	MP5C	X	10.956	1
86	MP5C	Z	18.976	1
87	MP5C	Mx	.011	1
88	MP5C	X	10.956	5
89	MP5C	Z	18.976	5
90	MP5C	Mx	.011	5
91	MP2A	X	10.471	5
92	MP2A	Z	18.136	5
93	MP2A	Mx	-.005	5
94	MP2B	X	11.578	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	MP2B	Z	20.054	5
96	MP2B	Mx	-.004	5
97	MP2C	X	4.227	5
98	MP2C	Z	7.321	5
99	MP2C	Mx	.004	5
100	MP4A	X	1.841	2.5
101	MP4A	Z	3.189	2.5
102	MP4A	Mx	.003	2.5
103	MP4B	X	1.841	2.5
104	MP4B	Z	3.189	2.5
105	MP4B	Mx	.003	2.5
106	MP4C	X	1.841	2.5
107	MP4C	Z	3.189	2.5
108	MP4C	Mx	.003	2.5
109	MP4A	X	7.489	1.5
110	MP4A	Z	12.971	1.5
111	MP4A	Mx	-.003	1.5
112	MP4B	X	7.817	1.5
113	MP4B	Z	13.54	1.5
114	MP4B	Mx	.01	1.5
115	MP4C	X	5.636	1.5
116	MP4C	Z	9.763	1.5
117	MP4C	Mx	-.006	1.5
118	MP3A	X	7.254	2
119	MP3A	Z	12.565	2
120	MP3A	Mx	.004	2
121	MP3B	X	7.708	2
122	MP3B	Z	13.35	2
123	MP3B	Mx	.003	2
124	MP3C	X	4.698	2
125	MP3C	Z	8.137	2
126	MP3C	Mx	-.005	2
127	MP2A	X	6.008	5
128	MP2A	Z	10.406	5
129	MP2A	Mx	.003	5
130	MP2B	X	6.424	5
131	MP2B	Z	11.127	5
132	MP2B	Mx	.002	5
133	MP2C	X	3.662	5
134	MP2C	Z	6.342	5
135	MP2C	Mx	-.004	5
136	OVP	X	15.759	1
137	OVP	Z	27.295	1
138	OVP	Mx	.006	1
139	OVP	X	15.759	1
140	OVP	Z	27.295	1
141	OVP	Mx	-.022	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	19.247	.5
3	MP2A	Mx	0	.5
4	MP2A	X	0	2.5
5	MP2A	Z	19.247	2.5
6	MP2A	Mx	0	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2B	X	0	.5
8	MP2B	Z	12.76	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	0	2.5
11	MP2B	Z	12.76	2.5
12	MP2B	Mx	-.005	2.5
13	MP2C	X	0	.5
14	MP2C	Z	10.955	.5
15	MP2C	Mx	.005	.5
16	MP2C	X	0	2.5
17	MP2C	Z	10.955	2.5
18	MP2C	Mx	.005	2.5
19	MP3A	X	0	1
20	MP3A	Z	36.198	1
21	MP3A	Mx	.021	1
22	MP3A	X	0	5
23	MP3A	Z	36.198	5
24	MP3A	Mx	.021	5
25	MP3B	X	0	1
26	MP3B	Z	29.441	1
27	MP3B	Mx	-.022	1
28	MP3B	X	0	5
29	MP3B	Z	29.441	5
30	MP3B	Mx	-.022	5
31	MP3C	X	0	1
32	MP3C	Z	27.562	1
33	MP3C	Mx	.02	1
34	MP3C	X	0	5
35	MP3C	Z	27.562	5
36	MP3C	Mx	.02	5
37	MP3A	X	0	1
38	MP3A	Z	36.198	1
39	MP3A	Mx	-.021	1
40	MP3A	X	0	5
41	MP3A	Z	36.198	5
42	MP3A	Mx	-.021	5
43	MP3B	X	0	1
44	MP3B	Z	29.441	1
45	MP3B	Mx	-.000237	1
46	MP3B	X	0	5
47	MP3B	Z	29.441	5
48	MP3B	Mx	-.000237	5
49	MP3C	X	0	1
50	MP3C	Z	27.562	1
51	MP3C	Mx	.004	1
52	MP3C	X	0	5
53	MP3C	Z	27.562	5
54	MP3C	Mx	.004	5
55	MP1A	X	0	1
56	MP1A	Z	11.461	1
57	MP1A	Mx	0	1
58	MP1A	X	0	5
59	MP1A	Z	11.461	5
60	MP1A	Mx	0	5
61	MP1B	X	0	1
62	MP1B	Z	17.593	1
63	MP1B	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1B	X	0	5
65	MP1B	Z	17.593	5
66	MP1B	Mx	-.007	5
67	MP1C	X	0	1
68	MP1C	Z	19.299	1
69	MP1C	Mx	.008	1
70	MP1C	X	0	5
71	MP1C	Z	19.299	5
72	MP1C	Mx	.008	5
73	MP5A	X	0	1
74	MP5A	Z	11.461	1
75	MP5A	Mx	0	1
76	MP5A	X	0	5
77	MP5A	Z	11.461	5
78	MP5A	Mx	0	5
79	MP5B	X	0	1
80	MP5B	Z	17.593	1
81	MP5B	Mx	-.007	1
82	MP5B	X	0	5
83	MP5B	Z	17.593	5
84	MP5B	Mx	-.007	5
85	MP5C	X	0	1
86	MP5C	Z	19.299	1
87	MP5C	Mx	.008	1
88	MP5C	X	0	5
89	MP5C	Z	19.299	5
90	MP5C	Mx	.008	5
91	MP2A	X	0	5
92	MP2A	Z	25.104	5
93	MP2A	Mx	0	5
94	MP2B	X	0	5
95	MP2B	Z	15.333	5
96	MP2B	Mx	-.006	5
97	MP2C	X	0	5
98	MP2C	Z	12.617	5
99	MP2C	Mx	.005	5
100	MP4A	X	0	2.5
101	MP4A	Z	3.928	2.5
102	MP4A	Mx	.002	2.5
103	MP4B	X	0	2.5
104	MP4B	Z	3.928	2.5
105	MP4B	Mx	.002	2.5
106	MP4C	X	0	2.5
107	MP4C	Z	3.928	2.5
108	MP4C	Mx	.002	2.5
109	MP4A	X	0	1.5
110	MP4A	Z	16.213	1.5
111	MP4A	Mx	-.008	1.5
112	MP4B	X	0	1.5
113	MP4B	Z	13.314	1.5
114	MP4B	Mx	.009	1.5
115	MP4C	X	0	1.5
116	MP4C	Z	12.508	1.5
117	MP4C	Mx	-.002	1.5
118	MP3A	X	0	2
119	MP3A	Z	16.213	2
120	MP3A	Mx	0	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
121	MP3B	X	0	2
122	MP3B	Z	12.212	2
123	MP3B	Mx	.005	2
124	MP3C	X	0	2
125	MP3C	Z	11.1	2
126	MP3C	Mx	-.005	2
127	MP2A	X	0	5
128	MP2A	Z	13.58	5
129	MP2A	Mx	0	5
130	MP2B	X	0	5
131	MP2B	Z	9.909	5
132	MP2B	Mx	.004	5
133	MP2C	X	0	5
134	MP2C	Z	8.887	5
135	MP2C	Mx	-.004	5
136	OVP	X	0	1
137	OVP	Z	33.335	1
138	OVP	Mx	.017	1
139	OVP	X	0	1
140	OVP	Z	33.335	1
141	OVP	Mx	-.017	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.242	.5
2	MP2A	Z	14.275	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-8.242	2.5
5	MP2A	Z	14.275	2.5
6	MP2A	Mx	.004	2.5
7	MP2B	X	-4.262	.5
8	MP2B	Z	7.383	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	-4.262	2.5
11	MP2B	Z	7.383	2.5
12	MP2B	Mx	-.004	2.5
13	MP2C	X	-8.242	.5
14	MP2C	Z	14.275	.5
15	MP2C	Mx	.004	.5
16	MP2C	X	-8.242	2.5
17	MP2C	Z	14.275	2.5
18	MP2C	Mx	.004	2.5
19	MP3A	X	-16.66	1
20	MP3A	Z	28.855	1
21	MP3A	Mx	.025	1
22	MP3A	X	-16.66	5
23	MP3A	Z	28.855	5
24	MP3A	Mx	.025	5
25	MP3B	X	-12.515	1
26	MP3B	Z	21.677	1
27	MP3B	Mx	-.015	1
28	MP3B	X	-12.515	5
29	MP3B	Z	21.677	5
30	MP3B	Mx	-.015	5
31	MP3C	X	-16.66	1
32	MP3C	Z	28.855	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	.025	1
34	MP3C	X	-16.66	5
35	MP3C	Z	28.855	5
36	MP3C	Mx	.025	5
37	MP3A	X	-16.66	1
38	MP3A	Z	28.855	1
39	MP3A	Mx	-.009	1
40	MP3A	X	-16.66	5
41	MP3A	Z	28.855	5
42	MP3A	Mx	-.009	5
43	MP3B	X	-12.515	1
44	MP3B	Z	21.677	1
45	MP3B	Mx	-.01	1
46	MP3B	X	-12.515	5
47	MP3B	Z	21.677	5
48	MP3B	Mx	-.01	5
49	MP3C	X	-16.66	1
50	MP3C	Z	28.855	1
51	MP3C	Mx	-.009	1
52	MP3C	X	-16.66	5
53	MP3C	Z	28.855	5
54	MP3C	Mx	-.009	5
55	MP1A	X	-7.037	1
56	MP1A	Z	12.188	1
57	MP1A	Mx	.004	1
58	MP1A	X	-7.037	5
59	MP1A	Z	12.188	5
60	MP1A	Mx	.004	5
61	MP1B	X	-10.798	1
62	MP1B	Z	18.703	1
63	MP1B	Mx	-.011	1
64	MP1B	X	-10.798	5
65	MP1B	Z	18.703	5
66	MP1B	Mx	-.011	5
67	MP1C	X	-7.037	1
68	MP1C	Z	12.188	1
69	MP1C	Mx	.004	1
70	MP1C	X	-7.037	5
71	MP1C	Z	12.188	5
72	MP1C	Mx	.004	5
73	MP5A	X	-7.037	1
74	MP5A	Z	12.188	1
75	MP5A	Mx	.004	1
76	MP5A	X	-7.037	5
77	MP5A	Z	12.188	5
78	MP5A	Mx	.004	5
79	MP5B	X	-10.798	1
80	MP5B	Z	18.703	1
81	MP5B	Mx	-.011	1
82	MP5B	X	-10.798	5
83	MP5B	Z	18.703	5
84	MP5B	Mx	-.011	5
85	MP5C	X	-7.037	1
86	MP5C	Z	12.188	1
87	MP5C	Mx	.004	1
88	MP5C	X	-7.037	5
89	MP5C	Z	12.188	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP5C	Mx	.004	5
91	MP2A	X	-10.471	5
92	MP2A	Z	18.136	5
93	MP2A	Mx	.005	5
94	MP2B	X	-4.478	5
95	MP2B	Z	7.756	5
96	MP2B	Mx	-.004	5
97	MP2C	X	-10.471	5
98	MP2C	Z	18.136	5
99	MP2C	Mx	.005	5
100	MP4A	X	-1.841	2.5
101	MP4A	Z	3.189	2.5
102	MP4A	Mx	.000674	2.5
103	MP4B	X	-1.841	2.5
104	MP4B	Z	3.189	2.5
105	MP4B	Mx	.000674	2.5
106	MP4C	X	-1.841	2.5
107	MP4C	Z	3.189	2.5
108	MP4C	Mx	.000674	2.5
109	MP4A	X	-7.489	1.5
110	MP4A	Z	12.971	1.5
111	MP4A	Mx	-.01	1.5
112	MP4B	X	-5.711	1.5
113	MP4B	Z	9.892	1.5
114	MP4B	Mx	.007	1.5
115	MP4C	X	-7.489	1.5
116	MP4C	Z	12.971	1.5
117	MP4C	Mx	.003	1.5
118	MP3A	X	-7.254	2
119	MP3A	Z	12.565	2
120	MP3A	Mx	-.004	2
121	MP3B	X	-4.801	2
122	MP3B	Z	8.315	2
123	MP3B	Mx	.005	2
124	MP3C	X	-7.254	2
125	MP3C	Z	12.565	2
126	MP3C	Mx	-.004	2
127	MP2A	X	-6.008	5
128	MP2A	Z	10.406	5
129	MP2A	Mx	-.003	5
130	MP2B	X	-3.756	5
131	MP2B	Z	6.505	5
132	MP2B	Mx	.004	5
133	MP2C	X	-6.008	5
134	MP2C	Z	10.406	5
135	MP2C	Mx	-.003	5
136	OVP	X	-15.759	1
137	OVP	Z	27.295	1
138	OVP	Mx	.022	1
139	OVP	X	-15.759	1
140	OVP	Z	27.295	1
141	OVP	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.488	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	5.478	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-9.488	2.5
5	MP2A	Z	5.478	2.5
6	MP2A	Mx	.005	2.5
7	MP2B	X	-8.214	.5
8	MP2B	Z	4.742	.5
9	MP2B	Mx	-.004	.5
10	MP2B	X	-8.214	2.5
11	MP2B	Z	4.742	2.5
12	MP2B	Mx	-.004	2.5
13	MP2C	X	-16.669	.5
14	MP2C	Z	9.624	.5
15	MP2C	Mx	0	.5
16	MP2C	X	-16.669	2.5
17	MP2C	Z	9.624	2.5
18	MP2C	Mx	0	2.5
19	MP3A	X	-23.869	1
20	MP3A	Z	13.781	1
21	MP3A	Mx	.02	1
22	MP3A	X	-23.869	5
23	MP3A	Z	13.781	5
24	MP3A	Mx	.02	5
25	MP3B	X	-22.543	1
26	MP3B	Z	13.015	1
27	MP3B	Mx	-.007	1
28	MP3B	X	-22.543	5
29	MP3B	Z	13.015	5
30	MP3B	Mx	-.007	5
31	MP3C	X	-31.348	1
32	MP3C	Z	18.099	1
33	MP3C	Mx	.021	1
34	MP3C	X	-31.348	5
35	MP3C	Z	18.099	5
36	MP3C	Mx	.021	5
37	MP3A	X	-23.869	1
38	MP3A	Z	13.781	1
39	MP3A	Mx	.004	1
40	MP3A	X	-23.869	5
41	MP3A	Z	13.781	5
42	MP3A	Mx	.004	5
43	MP3B	X	-22.543	1
44	MP3B	Z	13.015	1
45	MP3B	Mx	-.017	1
46	MP3B	X	-22.543	5
47	MP3B	Z	13.015	5
48	MP3B	Mx	-.017	5
49	MP3C	X	-31.348	1
50	MP3C	Z	18.099	1
51	MP3C	Mx	-.021	1
52	MP3C	X	-31.348	5
53	MP3C	Z	18.099	5
54	MP3C	Mx	-.021	5
55	MP1A	X	-16.713	1
56	MP1A	Z	9.649	1
57	MP1A	Mx	.008	1
58	MP1A	X	-16.713	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1A	Z	9.649	5
60	MP1A	Mx	.008	5
61	MP1B	X	-17.917	1
62	MP1B	Z	10.344	1
63	MP1B	Mx	-.01	1
64	MP1B	X	-17.917	5
65	MP1B	Z	10.344	5
66	MP1B	Mx	-.01	5
67	MP1C	X	-9.925	1
68	MP1C	Z	5.73	1
69	MP1C	Mx	0	1
70	MP1C	X	-9.925	5
71	MP1C	Z	5.73	5
72	MP1C	Mx	0	5
73	MP5A	X	-16.713	1
74	MP5A	Z	9.649	1
75	MP5A	Mx	.008	1
76	MP5A	X	-16.713	5
77	MP5A	Z	9.649	5
78	MP5A	Mx	.008	5
79	MP5B	X	-17.917	1
80	MP5B	Z	10.344	1
81	MP5B	Mx	-.01	1
82	MP5B	X	-17.917	5
83	MP5B	Z	10.344	5
84	MP5B	Mx	-.01	5
85	MP5C	X	-9.925	1
86	MP5C	Z	5.73	1
87	MP5C	Mx	0	1
88	MP5C	X	-9.925	5
89	MP5C	Z	5.73	5
90	MP5C	Mx	0	5
91	MP2A	X	-10.926	5
92	MP2A	Z	6.308	5
93	MP2A	Mx	.005	5
94	MP2B	X	-9.008	5
95	MP2B	Z	5.201	5
96	MP2B	Mx	-.005	5
97	MP2C	X	-21.741	5
98	MP2C	Z	12.552	5
99	MP2C	Mx	0	5
100	MP4A	X	-2.763	2.5
101	MP4A	Z	1.595	2.5
102	MP4A	Mx	-.000584	2.5
103	MP4B	X	-2.763	2.5
104	MP4B	Z	1.595	2.5
105	MP4B	Mx	-.000584	2.5
106	MP4C	X	-2.763	2.5
107	MP4C	Z	1.595	2.5
108	MP4C	Mx	-.000584	2.5
109	MP4A	X	-10.832	1.5
110	MP4A	Z	6.254	1.5
111	MP4A	Mx	-.009	1.5
112	MP4B	X	-10.263	1.5
113	MP4B	Z	5.925	1.5
114	MP4B	Mx	.004	1.5
115	MP4C	X	-14.041	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
116	MP4C	Z	8.106	1.5
117	MP4C	Mx	.008	1.5
118	MP3A	X	-9.613	2
119	MP3A	Z	5.55	2
120	MP3A	Mx	-.005	2
121	MP3B	X	-8.828	2
122	MP3B	Z	5.097	2
123	MP3B	Mx	.005	2
124	MP3C	X	-14.041	2
125	MP3C	Z	8.106	2
126	MP3C	Mx	0	2
127	MP2A	X	-7.697	5
128	MP2A	Z	4.444	5
129	MP2A	Mx	-.004	5
130	MP2B	X	-6.976	5
131	MP2B	Z	4.028	5
132	MP2B	Mx	.004	5
133	MP2C	X	-11.761	5
134	MP2C	Z	6.79	5
135	MP2C	Mx	0	5
136	OVP	X	-24.145	1
137	OVP	Z	13.94	1
138	OVP	Mx	.019	1
139	OVP	X	-24.145	1
140	OVP	Z	13.94	1
141	OVP	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.192	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-8.192	2.5
5	MP2A	Z	0	2.5
6	MP2A	Mx	.004	2.5
7	MP2B	X	-14.679	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.005	.5
10	MP2B	X	-14.679	2.5
11	MP2B	Z	0	2.5
12	MP2B	Mx	-.005	2.5
13	MP2C	X	-16.483	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.004	.5
16	MP2C	X	-16.483	2.5
17	MP2C	Z	0	2.5
18	MP2C	Mx	-.004	2.5
19	MP3A	X	-24.683	1
20	MP3A	Z	0	1
21	MP3A	Mx	.012	1
22	MP3A	X	-24.683	5
23	MP3A	Z	0	5
24	MP3A	Mx	.012	5
25	MP3B	X	-31.44	1
26	MP3B	Z	0	1
27	MP3B	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP3B	X	-31.44	5
29	MP3B	Z	0	5
30	MP3B	Mx	.004	5
31	MP3C	X	-33.319	1
32	MP3C	Z	0	1
33	MP3C	Mx	.009	1
34	MP3C	X	-33.319	5
35	MP3C	Z	0	5
36	MP3C	Mx	.009	5
37	MP3A	X	-24.683	1
38	MP3A	Z	0	1
39	MP3A	Mx	.012	1
40	MP3A	X	-24.683	5
41	MP3A	Z	0	5
42	MP3A	Mx	.012	5
43	MP3B	X	-31.44	1
44	MP3B	Z	0	1
45	MP3B	Mx	-.024	1
46	MP3B	X	-31.44	5
47	MP3B	Z	0	5
48	MP3B	Mx	-.024	5
49	MP3C	X	-33.319	1
50	MP3C	Z	0	1
51	MP3C	Mx	-.025	1
52	MP3C	X	-33.319	5
53	MP3C	Z	0	5
54	MP3C	Mx	-.025	5
55	MP1A	X	-21.911	1
56	MP1A	Z	0	1
57	MP1A	Mx	.011	1
58	MP1A	X	-21.911	5
59	MP1A	Z	0	5
60	MP1A	Mx	.011	5
61	MP1B	X	-15.779	1
62	MP1B	Z	0	1
63	MP1B	Mx	-.005	1
64	MP1B	X	-15.779	5
65	MP1B	Z	0	5
66	MP1B	Mx	-.005	5
67	MP1C	X	-14.073	1
68	MP1C	Z	0	1
69	MP1C	Mx	-.004	1
70	MP1C	X	-14.073	5
71	MP1C	Z	0	5
72	MP1C	Mx	-.004	5
73	MP5A	X	-21.911	1
74	MP5A	Z	0	1
75	MP5A	Mx	.011	1
76	MP5A	X	-21.911	5
77	MP5A	Z	0	5
78	MP5A	Mx	.011	5
79	MP5B	X	-15.779	1
80	MP5B	Z	0	1
81	MP5B	Mx	-.005	1
82	MP5B	X	-15.779	5
83	MP5B	Z	0	5
84	MP5B	Mx	-.005	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP5C	X	-14.073	1
86	MP5C	Z	0	1
87	MP5C	Mx	-.004	1
88	MP5C	X	-14.073	5
89	MP5C	Z	0	5
90	MP5C	Mx	-.004	5
91	MP2A	X	-8.454	5
92	MP2A	Z	0	5
93	MP2A	Mx	.004	5
94	MP2B	X	-18.225	5
95	MP2B	Z	0	5
96	MP2B	Mx	-.006	5
97	MP2C	X	-20.942	5
98	MP2C	Z	0	5
99	MP2C	Mx	-.005	5
100	MP4A	X	-2.945	2.5
101	MP4A	Z	0	2.5
102	MP4A	Mx	-.001	2.5
103	MP4B	X	-2.945	2.5
104	MP4B	Z	0	2.5
105	MP4B	Mx	-.001	2.5
106	MP4C	X	-2.945	2.5
107	MP4C	Z	0	2.5
108	MP4C	Mx	-.001	2.5
109	MP4A	X	-11.273	1.5
110	MP4A	Z	0	1.5
111	MP4A	Mx	-.006	1.5
112	MP4B	X	-14.172	1.5
113	MP4B	Z	0	1.5
114	MP4B	Mx	-.000873	1.5
115	MP4C	X	-14.978	1.5
116	MP4C	Z	0	1.5
117	MP4C	Mx	.01	1.5
118	MP3A	X	-9.396	2
119	MP3A	Z	0	2
120	MP3A	Mx	-.005	2
121	MP3B	X	-13.396	2
122	MP3B	Z	0	2
123	MP3B	Mx	.004	2
124	MP3C	X	-14.509	2
125	MP3C	Z	0	2
126	MP3C	Mx	.004	2
127	MP2A	X	-7.323	5
128	MP2A	Z	0	5
129	MP2A	Mx	-.004	5
130	MP2B	X	-10.995	5
131	MP2B	Z	0	5
132	MP2B	Mx	.004	5
133	MP2C	X	-12.016	5
134	MP2C	Z	0	5
135	MP2C	Mx	.003	5
136	OVP	X	-26.062	1
137	OVP	Z	0	1
138	OVP	Mx	.013	1
139	OVP	X	-26.062	1
140	OVP	Z	0	1
141	OVP	Mx	.013	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-9.488	.5
2	MP2A	Z	-5.478	.5
3	MP2A	Mx	.005	.5
4	MP2A	X	-9.488	2.5
5	MP2A	Z	-5.478	2.5
6	MP2A	Mx	.005	2.5
7	MP2B	X	-16.38	.5
8	MP2B	Z	-9.457	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	-16.38	2.5
11	MP2B	Z	-9.457	2.5
12	MP2B	Mx	-.002	2.5
13	MP2C	X	-9.488	.5
14	MP2C	Z	-5.478	.5
15	MP2C	Mx	-.005	.5
16	MP2C	X	-9.488	2.5
17	MP2C	Z	-5.478	2.5
18	MP2C	Mx	-.005	2.5
19	MP3A	X	-23.869	1
20	MP3A	Z	-13.781	1
21	MP3A	Mx	.004	1
22	MP3A	X	-23.869	5
23	MP3A	Z	-13.781	5
24	MP3A	Mx	.004	5
25	MP3B	X	-31.047	1
26	MP3B	Z	-17.925	1
27	MP3B	Mx	.017	1
28	MP3B	X	-31.047	5
29	MP3B	Z	-17.925	5
30	MP3B	Mx	.017	5
31	MP3C	X	-23.869	1
32	MP3C	Z	-13.781	1
33	MP3C	Mx	-.004	1
34	MP3C	X	-23.869	5
35	MP3C	Z	-13.781	5
36	MP3C	Mx	-.004	5
37	MP3A	X	-23.869	1
38	MP3A	Z	-13.781	1
39	MP3A	Mx	.02	1
40	MP3A	X	-23.869	5
41	MP3A	Z	-13.781	5
42	MP3A	Mx	.02	5
43	MP3B	X	-31.047	1
44	MP3B	Z	-17.925	1
45	MP3B	Mx	-.024	1
46	MP3B	X	-31.047	5
47	MP3B	Z	-17.925	5
48	MP3B	Mx	-.024	5
49	MP3C	X	-23.869	1
50	MP3C	Z	-13.781	1
51	MP3C	Mx	-.02	1
52	MP3C	X	-23.869	5
53	MP3C	Z	-13.781	5
54	MP3C	Mx	-.02	5
55	MP1A	X	-16.713	1
56	MP1A	Z	-9.649	1
57	MP1A	Mx	.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-16.713	5
59	MP1A	Z	-9.649	5
60	MP1A	Mx	.008	5
61	MP1B	X	-10.198	1
62	MP1B	Z	-5.888	1
63	MP1B	Mx	-.001	1
64	MP1B	X	-10.198	5
65	MP1B	Z	-5.888	5
66	MP1B	Mx	-.001	5
67	MP1C	X	-16.713	1
68	MP1C	Z	-9.649	1
69	MP1C	Mx	-.008	1
70	MP1C	X	-16.713	5
71	MP1C	Z	-9.649	5
72	MP1C	Mx	-.008	5
73	MP5A	X	-16.713	1
74	MP5A	Z	-9.649	1
75	MP5A	Mx	.008	1
76	MP5A	X	-16.713	5
77	MP5A	Z	-9.649	5
78	MP5A	Mx	.008	5
79	MP5B	X	-10.198	1
80	MP5B	Z	-5.888	1
81	MP5B	Mx	-.001	1
82	MP5B	X	-10.198	5
83	MP5B	Z	-5.888	5
84	MP5B	Mx	-.001	5
85	MP5C	X	-16.713	1
86	MP5C	Z	-9.649	1
87	MP5C	Mx	-.008	1
88	MP5C	X	-16.713	5
89	MP5C	Z	-9.649	5
90	MP5C	Mx	-.008	5
91	MP2A	X	-10.926	5
92	MP2A	Z	-6.308	5
93	MP2A	Mx	.005	5
94	MP2B	X	-21.306	5
95	MP2B	Z	-12.301	5
96	MP2B	Mx	-.002	5
97	MP2C	X	-10.926	5
98	MP2C	Z	-6.308	5
99	MP2C	Mx	-.005	5
100	MP4A	X	-2.763	2.5
101	MP4A	Z	-1.595	2.5
102	MP4A	Mx	-.002	2.5
103	MP4B	X	-2.763	2.5
104	MP4B	Z	-1.595	2.5
105	MP4B	Mx	-.002	2.5
106	MP4C	X	-2.763	2.5
107	MP4C	Z	-1.595	2.5
108	MP4C	Mx	-.002	2.5
109	MP4A	X	-10.832	1.5
110	MP4A	Z	-6.254	1.5
111	MP4A	Mx	-.002	1.5
112	MP4B	X	-13.912	1.5
113	MP4B	Z	-8.032	1.5
114	MP4B	Mx	-.007	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP4C	X	-10.832	1.5
116	MP4C	Z	-6.254	1.5
117	MP4C	Mx	.009	1.5
118	MP3A	X	-9.613	2
119	MP3A	Z	-5.55	2
120	MP3A	Mx	-.005	2
121	MP3B	X	-13.863	2
122	MP3B	Z	-8.004	2
123	MP3B	Mx	.001	2
124	MP3C	X	-9.613	2
125	MP3C	Z	-5.55	2
126	MP3C	Mx	.005	2
127	MP2A	X	-7.697	5
128	MP2A	Z	-4.444	5
129	MP2A	Mx	-.004	5
130	MP2B	X	-11.598	5
131	MP2B	Z	-6.696	5
132	MP2B	Mx	.001	5
133	MP2C	X	-7.697	5
134	MP2C	Z	-4.444	5
135	MP2C	Mx	.004	5
136	OVP	X	-24.145	1
137	OVP	Z	-13.94	1
138	OVP	Mx	.005	1
139	OVP	X	-24.145	1
140	OVP	Z	-13.94	1
141	OVP	Mx	.019	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-8.242	.5
2	MP2A	Z	-14.275	.5
3	MP2A	Mx	.004	.5
4	MP2A	X	-8.242	2.5
5	MP2A	Z	-14.275	2.5
6	MP2A	Mx	.004	2.5
7	MP2B	X	-8.977	.5
8	MP2B	Z	-15.549	.5
9	MP2B	Mx	.003	.5
10	MP2B	X	-8.977	2.5
11	MP2B	Z	-15.549	2.5
12	MP2B	Mx	.003	2.5
13	MP2C	X	-4.096	.5
14	MP2C	Z	-7.094	.5
15	MP2C	Mx	-.004	.5
16	MP2C	X	-4.096	2.5
17	MP2C	Z	-7.094	2.5
18	MP2C	Mx	-.004	2.5
19	MP3A	X	-16.66	1
20	MP3A	Z	-28.855	1
21	MP3A	Mx	-.009	1
22	MP3A	X	-16.66	5
23	MP3A	Z	-28.855	5
24	MP3A	Mx	-.009	5
25	MP3B	X	-17.425	1
26	MP3B	Z	-30.182	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
27	MP3B	Mx	.025	1
28	MP3B	X	-17.425	5
29	MP3B	Z	-30.182	5
30	MP3B	Mx	.025	5
31	MP3C	X	-12.342	1
32	MP3C	Z	-21.376	1
33	MP3C	Mx	-.012	1
34	MP3C	X	-12.342	5
35	MP3C	Z	-21.376	5
36	MP3C	Mx	-.012	5
37	MP3A	X	-16.66	1
38	MP3A	Z	-28.855	1
39	MP3A	Mx	.025	1
40	MP3A	X	-16.66	5
41	MP3A	Z	-28.855	5
42	MP3A	Mx	.025	5
43	MP3B	X	-17.425	1
44	MP3B	Z	-30.182	1
45	MP3B	Mx	-.013	1
46	MP3B	X	-17.425	5
47	MP3B	Z	-30.182	5
48	MP3B	Mx	-.013	5
49	MP3C	X	-12.342	1
50	MP3C	Z	-21.376	1
51	MP3C	Mx	-.012	1
52	MP3C	X	-12.342	5
53	MP3C	Z	-21.376	5
54	MP3C	Mx	-.012	5
55	MP1A	X	-7.037	1
56	MP1A	Z	-12.188	1
57	MP1A	Mx	.004	1
58	MP1A	X	-7.037	5
59	MP1A	Z	-12.188	5
60	MP1A	Mx	.004	5
61	MP1B	X	-6.342	1
62	MP1B	Z	-10.984	1
63	MP1B	Mx	.002	1
64	MP1B	X	-6.342	5
65	MP1B	Z	-10.984	5
66	MP1B	Mx	.002	5
67	MP1C	X	-10.956	1
68	MP1C	Z	-18.976	1
69	MP1C	Mx	-.011	1
70	MP1C	X	-10.956	5
71	MP1C	Z	-18.976	5
72	MP1C	Mx	-.011	5
73	MP5A	X	-7.037	1
74	MP5A	Z	-12.188	1
75	MP5A	Mx	.004	1
76	MP5A	X	-7.037	5
77	MP5A	Z	-12.188	5
78	MP5A	Mx	.004	5
79	MP5B	X	-6.342	1
80	MP5B	Z	-10.984	1
81	MP5B	Mx	.002	1
82	MP5B	X	-6.342	5
83	MP5B	Z	-10.984	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
84	MP5B	Mx	.002	5
85	MP5C	X	-10.956	1
86	MP5C	Z	-18.976	1
87	MP5C	Mx	-.011	1
88	MP5C	X	-10.956	5
89	MP5C	Z	-18.976	5
90	MP5C	Mx	-.011	5
91	MP2A	X	-10.471	5
92	MP2A	Z	-18.136	5
93	MP2A	Mx	.005	5
94	MP2B	X	-11.578	5
95	MP2B	Z	-20.054	5
96	MP2B	Mx	.004	5
97	MP2C	X	-4.227	5
98	MP2C	Z	-7.321	5
99	MP2C	Mx	-.004	5
100	MP4A	X	-1.841	2.5
101	MP4A	Z	-3.189	2.5
102	MP4A	Mx	-.003	2.5
103	MP4B	X	-1.841	2.5
104	MP4B	Z	-3.189	2.5
105	MP4B	Mx	-.003	2.5
106	MP4C	X	-1.841	2.5
107	MP4C	Z	-3.189	2.5
108	MP4C	Mx	-.003	2.5
109	MP4A	X	-7.489	1.5
110	MP4A	Z	-12.971	1.5
111	MP4A	Mx	.003	1.5
112	MP4B	X	-7.817	1.5
113	MP4B	Z	-13.54	1.5
114	MP4B	Mx	-.01	1.5
115	MP4C	X	-5.636	1.5
116	MP4C	Z	-9.763	1.5
117	MP4C	Mx	.006	1.5
118	MP3A	X	-7.254	2
119	MP3A	Z	-12.565	2
120	MP3A	Mx	-.004	2
121	MP3B	X	-7.708	2
122	MP3B	Z	-13.35	2
123	MP3B	Mx	-.003	2
124	MP3C	X	-4.698	2
125	MP3C	Z	-8.137	2
126	MP3C	Mx	.005	2
127	MP2A	X	-6.008	5
128	MP2A	Z	-10.406	5
129	MP2A	Mx	-.003	5
130	MP2B	X	-6.424	5
131	MP2B	Z	-11.127	5
132	MP2B	Mx	-.002	5
133	MP2C	X	-3.662	5
134	MP2C	Z	-6.342	5
135	MP2C	Mx	.004	5
136	OVP	X	-15.759	1
137	OVP	Z	-27.295	1
138	OVP	Mx	-.006	1
139	OVP	X	-15.759	1
140	OVP	Z	-27.295	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
141	OVP	Mx	.022	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	-6.141	.5
3	MP2A	Mx	0	.5
4	MP2A	X	0	2.5
5	MP2A	Z	-6.141	2.5
6	MP2A	Mx	0	2.5
7	MP2B	X	0	.5
8	MP2B	Z	-3.948	.5
9	MP2B	Mx	.002	.5
10	MP2B	X	0	2.5
11	MP2B	Z	-3.948	2.5
12	MP2B	Mx	.002	2.5
13	MP2C	X	0	.5
14	MP2C	Z	-3.338	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	0	2.5
17	MP2C	Z	-3.338	2.5
18	MP2C	Mx	-.001	2.5
19	MP3A	X	0	1
20	MP3A	Z	-11.903	1
21	MP3A	Mx	-.007	1
22	MP3A	X	0	5
23	MP3A	Z	-11.903	5
24	MP3A	Mx	-.007	5
25	MP3B	X	0	1
26	MP3B	Z	-9.505	1
27	MP3B	Mx	.007	1
28	MP3B	X	0	5
29	MP3B	Z	-9.505	5
30	MP3B	Mx	.007	5
31	MP3C	X	0	1
32	MP3C	Z	-8.839	1
33	MP3C	Mx	-.006	1
34	MP3C	X	0	5
35	MP3C	Z	-8.839	5
36	MP3C	Mx	-.006	5
37	MP3A	X	0	1
38	MP3A	Z	-11.903	1
39	MP3A	Mx	.007	1
40	MP3A	X	0	5
41	MP3A	Z	-11.903	5
42	MP3A	Mx	.007	5
43	MP3B	X	0	1
44	MP3B	Z	-9.505	1
45	MP3B	Mx	7.7e-5	1
46	MP3B	X	0	5
47	MP3B	Z	-9.505	5
48	MP3B	Mx	7.7e-5	5
49	MP3C	X	0	1
50	MP3C	Z	-8.839	1
51	MP3C	Mx	-.001	1
52	MP3C	X	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
53	MP3C	Z	-8.839	5
54	MP3C	Mx	-.001	5
55	MP1A	X	0	1
56	MP1A	Z	-3.41	1
57	MP1A	Mx	0	1
58	MP1A	X	0	5
59	MP1A	Z	-3.41	5
60	MP1A	Mx	0	5
61	MP1B	X	0	1
62	MP1B	Z	-5.548	1
63	MP1B	Mx	.002	1
64	MP1B	X	0	5
65	MP1B	Z	-5.548	5
66	MP1B	Mx	.002	5
67	MP1C	X	0	1
68	MP1C	Z	-6.143	1
69	MP1C	Mx	-.003	1
70	MP1C	X	0	5
71	MP1C	Z	-6.143	5
72	MP1C	Mx	-.003	5
73	MP5A	X	0	1
74	MP5A	Z	-3.41	1
75	MP5A	Mx	0	1
76	MP5A	X	0	5
77	MP5A	Z	-3.41	5
78	MP5A	Mx	0	5
79	MP5B	X	0	1
80	MP5B	Z	-5.548	1
81	MP5B	Mx	.002	1
82	MP5B	X	0	5
83	MP5B	Z	-5.548	5
84	MP5B	Mx	.002	5
85	MP5C	X	0	1
86	MP5C	Z	-6.143	1
87	MP5C	Mx	-.003	1
88	MP5C	X	0	5
89	MP5C	Z	-6.143	5
90	MP5C	Mx	-.003	5
91	MP2A	X	0	5
92	MP2A	Z	-7.839	5
93	MP2A	Mx	0	5
94	MP2B	X	0	5
95	MP2B	Z	-4.569	5
96	MP2B	Mx	.002	5
97	MP2C	X	0	5
98	MP2C	Z	-3.66	5
99	MP2C	Mx	-.002	5
100	MP4A	X	0	2.5
101	MP4A	Z	-.967	2.5
102	MP4A	Mx	-.000484	2.5
103	MP4B	X	0	2.5
104	MP4B	Z	-.967	2.5
105	MP4B	Mx	-.000484	2.5
106	MP4C	X	0	2.5
107	MP4C	Z	-.967	2.5
108	MP4C	Mx	-.000484	2.5
109	MP4A	X	0	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
110	MP4A	Z	-4.886	1.5
111	MP4A	Mx	.002	1.5
112	MP4B	X	0	1.5
113	MP4B	Z	-3.936	1.5
114	MP4B	Mx	-.003	1.5
115	MP4C	X	0	1.5
116	MP4C	Z	-3.671	1.5
117	MP4C	Mx	.000672	1.5
118	MP3A	X	0	2
119	MP3A	Z	-4.886	2
120	MP3A	Mx	0	2
121	MP3B	X	0	2
122	MP3B	Z	-3.572	2
123	MP3B	Mx	-.001	2
124	MP3C	X	0	2
125	MP3C	Z	-3.206	2
126	MP3C	Mx	.001	2
127	MP2A	X	0	5
128	MP2A	Z	-3.998	5
129	MP2A	Mx	0	5
130	MP2B	X	0	5
131	MP2B	Z	-2.809	5
132	MP2B	Mx	-.001	5
133	MP2C	X	0	5
134	MP2C	Z	-2.479	5
135	MP2C	Mx	.001	5
136	OVP	X	0	1
137	OVP	Z	-10.609	1
138	OVP	Mx	-.005	1
139	OVP	X	0	1
140	OVP	Z	-10.609	1
141	OVP	Mx	.005	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.603	.5
2	MP2A	Z	-4.509	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	2.603	2.5
5	MP2A	Z	-4.509	2.5
6	MP2A	Mx	-.001	2.5
7	MP2B	X	1.258	.5
8	MP2B	Z	-2.18	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	1.258	2.5
11	MP2B	Z	-2.18	2.5
12	MP2B	Mx	.001	2.5
13	MP2C	X	2.603	.5
14	MP2C	Z	-4.509	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	2.603	2.5
17	MP2C	Z	-4.509	2.5
18	MP2C	Mx	-.001	2.5
19	MP3A	X	5.441	1
20	MP3A	Z	-9.424	1
21	MP3A	Mx	-.008	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
22	MP3A	X	5.441	5
23	MP3A	Z	-9.424	5
24	MP3A	Mx	-.008	5
25	MP3B	X	3.97	1
26	MP3B	Z	-6.877	1
27	MP3B	Mx	.005	1
28	MP3B	X	3.97	5
29	MP3B	Z	-6.877	5
30	MP3B	Mx	.005	5
31	MP3C	X	5.441	1
32	MP3C	Z	-9.424	1
33	MP3C	Mx	-.008	1
34	MP3C	X	5.441	5
35	MP3C	Z	-9.424	5
36	MP3C	Mx	-.008	5
37	MP3A	X	5.441	1
38	MP3A	Z	-9.424	1
39	MP3A	Mx	.003	1
40	MP3A	X	5.441	5
41	MP3A	Z	-9.424	5
42	MP3A	Mx	.003	5
43	MP3B	X	3.97	1
44	MP3B	Z	-6.877	1
45	MP3B	Mx	.003	1
46	MP3B	X	3.97	5
47	MP3B	Z	-6.877	5
48	MP3B	Mx	.003	5
49	MP3C	X	5.441	1
50	MP3C	Z	-9.424	1
51	MP3C	Mx	.003	1
52	MP3C	X	5.441	5
53	MP3C	Z	-9.424	5
54	MP3C	Mx	.003	5
55	MP1A	X	2.161	1
56	MP1A	Z	-3.742	1
57	MP1A	Mx	-.001	1
58	MP1A	X	2.161	5
59	MP1A	Z	-3.742	5
60	MP1A	Mx	-.001	5
61	MP1B	X	3.472	1
62	MP1B	Z	-6.014	1
63	MP1B	Mx	.003	1
64	MP1B	X	3.472	5
65	MP1B	Z	-6.014	5
66	MP1B	Mx	.003	5
67	MP1C	X	2.161	1
68	MP1C	Z	-3.742	1
69	MP1C	Mx	-.001	1
70	MP1C	X	2.161	5
71	MP1C	Z	-3.742	5
72	MP1C	Mx	-.001	5
73	MP5A	X	2.161	1
74	MP5A	Z	-3.742	1
75	MP5A	Mx	-.001	1
76	MP5A	X	2.161	5
77	MP5A	Z	-3.742	5
78	MP5A	Mx	-.001	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
79	MP5B	X	3.472	1
80	MP5B	Z	-6.014	1
81	MP5B	Mx	.003	1
82	MP5B	X	3.472	5
83	MP5B	Z	-6.014	5
84	MP5B	Mx	.003	5
85	MP5C	X	2.161	1
86	MP5C	Z	-3.742	1
87	MP5C	Mx	-.001	1
88	MP5C	X	2.161	5
89	MP5C	Z	-3.742	5
90	MP5C	Mx	-.001	5
91	MP2A	X	3.223	5
92	MP2A	Z	-5.582	5
93	MP2A	Mx	-.002	5
94	MP2B	X	1.217	5
95	MP2B	Z	-2.108	5
96	MP2B	Mx	.001	5
97	MP2C	X	3.223	5
98	MP2C	Z	-5.582	5
99	MP2C	Mx	-.002	5
100	MP4A	X	.446	2.5
101	MP4A	Z	-.773	2.5
102	MP4A	Mx	-.000164	2.5
103	MP4B	X	.446	2.5
104	MP4B	Z	-.773	2.5
105	MP4B	Mx	-.000164	2.5
106	MP4C	X	.446	2.5
107	MP4C	Z	-.773	2.5
108	MP4C	Mx	-.000164	2.5
109	MP4A	X	2.241	1.5
110	MP4A	Z	-3.881	1.5
111	MP4A	Mx	.003	1.5
112	MP4B	X	1.658	1.5
113	MP4B	Z	-2.871	1.5
114	MP4B	Mx	-.002	1.5
115	MP4C	X	2.241	1.5
116	MP4C	Z	-3.881	1.5
117	MP4C	Mx	-.00082	1.5
118	MP3A	X	2.163	2
119	MP3A	Z	-3.747	2
120	MP3A	Mx	.001	2
121	MP3B	X	1.357	2
122	MP3B	Z	-2.35	2
123	MP3B	Mx	-.001	2
124	MP3C	X	2.163	2
125	MP3C	Z	-3.747	2
126	MP3C	Mx	.001	2
127	MP2A	X	1.746	5
128	MP2A	Z	-3.024	5
129	MP2A	Mx	.000873	5
130	MP2B	X	1.017	5
131	MP2B	Z	-1.761	5
132	MP2B	Mx	-.001	5
133	MP2C	X	1.746	5
134	MP2C	Z	-3.024	5
135	MP2C	Mx	.000873	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
136	OVP	X	4.99	1
137	OVP	Z	-8.643	1
138	OVP	Mx	-.007	1
139	OVP	X	4.99	1
140	OVP	Z	-8.643	1
141	OVP	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.891	.5
2	MP2A	Z	-1.669	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	2.891	2.5
5	MP2A	Z	-1.669	2.5
6	MP2A	Mx	-.001	2.5
7	MP2B	X	2.461	.5
8	MP2B	Z	-1.421	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	2.461	2.5
11	MP2B	Z	-1.421	2.5
12	MP2B	Mx	.001	2.5
13	MP2C	X	5.318	.5
14	MP2C	Z	-3.07	.5
15	MP2C	Mx	0	.5
16	MP2C	X	5.318	2.5
17	MP2C	Z	-3.07	2.5
18	MP2C	Mx	0	2.5
19	MP3A	X	7.655	1
20	MP3A	Z	-4.419	1
21	MP3A	Mx	-.006	1
22	MP3A	X	7.655	5
23	MP3A	Z	-4.419	5
24	MP3A	Mx	-.006	5
25	MP3B	X	7.184	1
26	MP3B	Z	-4.148	1
27	MP3B	Mx	.002	1
28	MP3B	X	7.184	5
29	MP3B	Z	-4.148	5
30	MP3B	Mx	.002	5
31	MP3C	X	10.308	1
32	MP3C	Z	-5.951	1
33	MP3C	Mx	-.007	1
34	MP3C	X	10.308	5
35	MP3C	Z	-5.951	5
36	MP3C	Mx	-.007	5
37	MP3A	X	7.655	1
38	MP3A	Z	-4.419	1
39	MP3A	Mx	-.001	1
40	MP3A	X	7.655	5
41	MP3A	Z	-4.419	5
42	MP3A	Mx	-.001	5
43	MP3B	X	7.184	1
44	MP3B	Z	-4.148	1
45	MP3B	Mx	.006	1
46	MP3B	X	7.184	5
47	MP3B	Z	-4.148	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
48	MP3B	Mx	.006	5
49	MP3C	X	10.308	1
50	MP3C	Z	-5.951	1
51	MP3C	Mx	.007	1
52	MP3C	X	10.308	5
53	MP3C	Z	-5.951	5
54	MP3C	Mx	.007	5
55	MP1A	X	5.32	1
56	MP1A	Z	-3.071	1
57	MP1A	Mx	-.003	1
58	MP1A	X	5.32	5
59	MP1A	Z	-3.071	5
60	MP1A	Mx	-.003	5
61	MP1B	X	5.74	1
62	MP1B	Z	-3.314	1
63	MP1B	Mx	.003	1
64	MP1B	X	5.74	5
65	MP1B	Z	-3.314	5
66	MP1B	Mx	.003	5
67	MP1C	X	2.953	1
68	MP1C	Z	-1.705	1
69	MP1C	Mx	0	1
70	MP1C	X	2.953	5
71	MP1C	Z	-1.705	5
72	MP1C	Mx	0	5
73	MP5A	X	5.32	1
74	MP5A	Z	-3.071	1
75	MP5A	Mx	-.003	1
76	MP5A	X	5.32	5
77	MP5A	Z	-3.071	5
78	MP5A	Mx	-.003	5
79	MP5B	X	5.74	1
80	MP5B	Z	-3.314	1
81	MP5B	Mx	.003	1
82	MP5B	X	5.74	5
83	MP5B	Z	-3.314	5
84	MP5B	Mx	.003	5
85	MP5C	X	2.953	1
86	MP5C	Z	-1.705	1
87	MP5C	Mx	0	1
88	MP5C	X	2.953	5
89	MP5C	Z	-1.705	5
90	MP5C	Mx	0	5
91	MP2A	X	3.169	5
92	MP2A	Z	-1.83	5
93	MP2A	Mx	-.002	5
94	MP2B	X	2.527	5
95	MP2B	Z	-1.459	5
96	MP2B	Mx	.001	5
97	MP2C	X	6.789	5
98	MP2C	Z	-3.92	5
99	MP2C	Mx	0	5
100	MP4A	X	.644	2.5
101	MP4A	Z	-.372	2.5
102	MP4A	Mx	.000136	2.5
103	MP4B	X	.644	2.5
104	MP4B	Z	-.372	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
105	MP4B	Mx	.000136	2.5
106	MP4C	X	.644	2.5
107	MP4C	Z	-.372	2.5
108	MP4C	Mx	.000136	2.5
109	MP4A	X	3.18	1.5
110	MP4A	Z	-1.836	1.5
111	MP4A	Mx	.003	1.5
112	MP4B	X	2.993	1.5
113	MP4B	Z	-1.728	1.5
114	MP4B	Mx	-.001	1.5
115	MP4C	X	4.232	1.5
116	MP4C	Z	-2.443	1.5
117	MP4C	Mx	-.002	1.5
118	MP3A	X	2.776	2
119	MP3A	Z	-1.603	2
120	MP3A	Mx	.001	2
121	MP3B	X	2.518	2
122	MP3B	Z	-1.454	2
123	MP3B	Mx	-.001	2
124	MP3C	X	4.232	2
125	MP3C	Z	-2.443	2
126	MP3C	Mx	0	2
127	MP2A	X	2.147	5
128	MP2A	Z	-1.239	5
129	MP2A	Mx	.001	5
130	MP2B	X	1.913	5
131	MP2B	Z	-1.105	5
132	MP2B	Mx	-.001	5
133	MP2C	X	3.462	5
134	MP2C	Z	-1.999	5
135	MP2C	Mx	0	5
136	OVP	X	7.554	1
137	OVP	Z	-4.361	1
138	OVP	Mx	-.006	1
139	OVP	X	7.554	1
140	OVP	Z	-4.361	1
141	OVP	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.404	.5
2	MP2A	Z	0	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	2.404	2.5
5	MP2A	Z	0	2.5
6	MP2A	Mx	-.001	2.5
7	MP2B	X	4.597	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	.001	.5
10	MP2B	X	4.597	2.5
11	MP2B	Z	0	2.5
12	MP2B	Mx	.001	2.5
13	MP2C	X	5.207	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	5.207	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
17	MP2C	Z	0	2.5
18	MP2C	Mx	.001	2.5
19	MP3A	X	7.817	1
20	MP3A	Z	0	1
21	MP3A	Mx	-.004	1
22	MP3A	X	7.817	5
23	MP3A	Z	0	5
24	MP3A	Mx	-.004	5
25	MP3B	X	10.215	1
26	MP3B	Z	0	1
27	MP3B	Mx	-.001	1
28	MP3B	X	10.215	5
29	MP3B	Z	0	5
30	MP3B	Mx	-.001	5
31	MP3C	X	10.881	1
32	MP3C	Z	0	1
33	MP3C	Mx	-.003	1
34	MP3C	X	10.881	5
35	MP3C	Z	0	5
36	MP3C	Mx	-.003	5
37	MP3A	X	7.817	1
38	MP3A	Z	0	1
39	MP3A	Mx	-.004	1
40	MP3A	X	7.817	5
41	MP3A	Z	0	5
42	MP3A	Mx	-.004	5
43	MP3B	X	10.215	1
44	MP3B	Z	0	1
45	MP3B	Mx	.008	1
46	MP3B	X	10.215	5
47	MP3B	Z	0	5
48	MP3B	Mx	.008	5
49	MP3C	X	10.881	1
50	MP3C	Z	0	1
51	MP3C	Mx	.008	1
52	MP3C	X	10.881	5
53	MP3C	Z	0	5
54	MP3C	Mx	.008	5
55	MP1A	X	7.054	1
56	MP1A	Z	0	1
57	MP1A	Mx	-.004	1
58	MP1A	X	7.054	5
59	MP1A	Z	0	5
60	MP1A	Mx	-.004	5
61	MP1B	X	4.916	1
62	MP1B	Z	0	1
63	MP1B	Mx	.002	1
64	MP1B	X	4.916	5
65	MP1B	Z	0	5
66	MP1B	Mx	.002	5
67	MP1C	X	4.321	1
68	MP1C	Z	0	1
69	MP1C	Mx	.001	1
70	MP1C	X	4.321	5
71	MP1C	Z	0	5
72	MP1C	Mx	.001	5
73	MP5A	X	7.054	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
74	MP5A	Z	0	1
75	MP5A	Mx	-.004	1
76	MP5A	X	7.054	5
77	MP5A	Z	0	5
78	MP5A	Mx	-.004	5
79	MP5B	X	4.916	1
80	MP5B	Z	0	1
81	MP5B	Mx	.002	1
82	MP5B	X	4.916	5
83	MP5B	Z	0	5
84	MP5B	Mx	.002	5
85	MP5C	X	4.321	1
86	MP5C	Z	0	1
87	MP5C	Mx	.001	1
88	MP5C	X	4.321	5
89	MP5C	Z	0	5
90	MP5C	Mx	.001	5
91	MP2A	X	2.267	5
92	MP2A	Z	0	5
93	MP2A	Mx	-.001	5
94	MP2B	X	5.537	5
95	MP2B	Z	0	5
96	MP2B	Mx	.002	5
97	MP2C	X	6.446	5
98	MP2C	Z	0	5
99	MP2C	Mx	.002	5
100	MP4A	X	.669	2.5
101	MP4A	Z	0	2.5
102	MP4A	Mx	.000334	2.5
103	MP4B	X	.669	2.5
104	MP4B	Z	0	2.5
105	MP4B	Mx	.000334	2.5
106	MP4C	X	.669	2.5
107	MP4C	Z	0	2.5
108	MP4C	Mx	.000334	2.5
109	MP4A	X	3.266	1.5
110	MP4A	Z	0	1.5
111	MP4A	Mx	.002	1.5
112	MP4B	X	4.217	1.5
113	MP4B	Z	0	1.5
114	MP4B	Mx	.00026	1.5
115	MP4C	X	4.481	1.5
116	MP4C	Z	0	1.5
117	MP4C	Mx	-.003	1.5
118	MP3A	X	2.646	2
119	MP3A	Z	0	2
120	MP3A	Mx	.001	2
121	MP3B	X	3.961	2
122	MP3B	Z	0	2
123	MP3B	Mx	-.001	2
124	MP3C	X	4.326	2
125	MP3C	Z	0	2
126	MP3C	Mx	-.001	2
127	MP2A	X	1.972	5
128	MP2A	Z	0	5
129	MP2A	Mx	.000986	5
130	MP2B	X	3.161	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
131	MP2B	Z	0	5
132	MP2B	Mx	-.001	5
133	MP2C	X	3.492	5
134	MP2C	Z	0	5
135	MP2C	Mx	-.000873	5
136	OVP	X	8.094	1
137	OVP	Z	0	1
138	OVP	Mx	-.004	1
139	OVP	X	8.094	1
140	OVP	Z	0	1
141	OVP	Mx	-.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.891	.5
2	MP2A	Z	1.669	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	2.891	2.5
5	MP2A	Z	1.669	2.5
6	MP2A	Mx	-.001	2.5
7	MP2B	X	5.22	.5
8	MP2B	Z	3.014	.5
9	MP2B	Mx	.000523	.5
10	MP2B	X	5.22	2.5
11	MP2B	Z	3.014	2.5
12	MP2B	Mx	.000523	2.5
13	MP2C	X	2.891	.5
14	MP2C	Z	1.669	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	2.891	2.5
17	MP2C	Z	1.669	2.5
18	MP2C	Mx	.001	2.5
19	MP3A	X	7.655	1
20	MP3A	Z	4.419	1
21	MP3A	Mx	-.001	1
22	MP3A	X	7.655	5
23	MP3A	Z	4.419	5
24	MP3A	Mx	-.001	5
25	MP3B	X	10.201	1
26	MP3B	Z	5.89	1
27	MP3B	Mx	-.006	1
28	MP3B	X	10.201	5
29	MP3B	Z	5.89	5
30	MP3B	Mx	-.006	5
31	MP3C	X	7.655	1
32	MP3C	Z	4.419	1
33	MP3C	Mx	.001	1
34	MP3C	X	7.655	5
35	MP3C	Z	4.419	5
36	MP3C	Mx	.001	5
37	MP3A	X	7.655	1
38	MP3A	Z	4.419	1
39	MP3A	Mx	-.006	1
40	MP3A	X	7.655	5
41	MP3A	Z	4.419	5
42	MP3A	Mx	-.006	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
43	MP3B	X	10.201	1
44	MP3B	Z	5.89	1
45	MP3B	Mx	.008	1
46	MP3B	X	10.201	5
47	MP3B	Z	5.89	5
48	MP3B	Mx	.008	5
49	MP3C	X	7.655	1
50	MP3C	Z	4.419	1
51	MP3C	Mx	.006	1
52	MP3C	X	7.655	5
53	MP3C	Z	4.419	5
54	MP3C	Mx	.006	5
55	MP1A	X	5.32	1
56	MP1A	Z	3.071	1
57	MP1A	Mx	-.003	1
58	MP1A	X	5.32	5
59	MP1A	Z	3.071	5
60	MP1A	Mx	-.003	5
61	MP1B	X	3.048	1
62	MP1B	Z	1.76	1
63	MP1B	Mx	.000305	1
64	MP1B	X	3.048	5
65	MP1B	Z	1.76	5
66	MP1B	Mx	.000305	5
67	MP1C	X	5.32	1
68	MP1C	Z	3.071	1
69	MP1C	Mx	.003	1
70	MP1C	X	5.32	5
71	MP1C	Z	3.071	5
72	MP1C	Mx	.003	5
73	MP5A	X	5.32	1
74	MP5A	Z	3.071	1
75	MP5A	Mx	-.003	1
76	MP5A	X	5.32	5
77	MP5A	Z	3.071	5
78	MP5A	Mx	-.003	5
79	MP5B	X	3.048	1
80	MP5B	Z	1.76	1
81	MP5B	Mx	.000305	1
82	MP5B	X	3.048	5
83	MP5B	Z	1.76	5
84	MP5B	Mx	.000305	5
85	MP5C	X	5.32	1
86	MP5C	Z	3.071	1
87	MP5C	Mx	.003	1
88	MP5C	X	5.32	5
89	MP5C	Z	3.071	5
90	MP5C	Mx	.003	5
91	MP2A	X	3.169	5
92	MP2A	Z	1.83	5
93	MP2A	Mx	-.002	5
94	MP2B	X	6.643	5
95	MP2B	Z	3.836	5
96	MP2B	Mx	.000666	5
97	MP2C	X	3.169	5
98	MP2C	Z	1.83	5
99	MP2C	Mx	.002	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
100	MP4A	X	.644	2.5
101	MP4A	Z	.372	2.5
102	MP4A	Mx	.000508	2.5
103	MP4B	X	.644	2.5
104	MP4B	Z	.372	2.5
105	MP4B	Mx	.000508	2.5
106	MP4C	X	.644	2.5
107	MP4C	Z	.372	2.5
108	MP4C	Mx	.000508	2.5
109	MP4A	X	3.18	1.5
110	MP4A	Z	1.836	1.5
111	MP4A	Mx	.000672	1.5
112	MP4B	X	4.189	1.5
113	MP4B	Z	2.419	1.5
114	MP4B	Mx	.002	1.5
115	MP4C	X	3.18	1.5
116	MP4C	Z	1.836	1.5
117	MP4C	Mx	-.003	1.5
118	MP3A	X	2.776	2
119	MP3A	Z	1.603	2
120	MP3A	Mx	.001	2
121	MP3B	X	4.173	2
122	MP3B	Z	2.409	2
123	MP3B	Mx	-.000418	2
124	MP3C	X	2.776	2
125	MP3C	Z	1.603	2
126	MP3C	Mx	-.001	2
127	MP2A	X	2.147	5
128	MP2A	Z	1.239	5
129	MP2A	Mx	.001	5
130	MP2B	X	3.409	5
131	MP2B	Z	1.968	5
132	MP2B	Mx	-.000342	5
133	MP2C	X	2.147	5
134	MP2C	Z	1.239	5
135	MP2C	Mx	-.001	5
136	OVP	X	7.554	1
137	OVP	Z	4.361	1
138	OVP	Mx	-.002	1
139	OVP	X	7.554	1
140	OVP	Z	4.361	1
141	OVP	Mx	-.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	2.603	.5
2	MP2A	Z	4.509	.5
3	MP2A	Mx	-.001	.5
4	MP2A	X	2.603	2.5
5	MP2A	Z	4.509	2.5
6	MP2A	Mx	-.001	2.5
7	MP2B	X	2.852	.5
8	MP2B	Z	4.94	.5
9	MP2B	Mx	-.000976	.5
10	MP2B	X	2.852	2.5
11	MP2B	Z	4.94	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
12	MP2B	Mx	-.000976	2.5
13	MP2C	X	1.202	.5
14	MP2C	Z	2.082	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	1.202	2.5
17	MP2C	Z	2.082	2.5
18	MP2C	Mx	.001	2.5
19	MP3A	X	5.441	1
20	MP3A	Z	9.424	1
21	MP3A	Mx	.003	1
22	MP3A	X	5.441	5
23	MP3A	Z	9.424	5
24	MP3A	Mx	.003	5
25	MP3B	X	5.712	1
26	MP3B	Z	9.894	1
27	MP3B	Mx	-.008	1
28	MP3B	X	5.712	5
29	MP3B	Z	9.894	5
30	MP3B	Mx	-.008	5
31	MP3C	X	3.909	1
32	MP3C	Z	6.77	1
33	MP3C	Mx	.004	1
34	MP3C	X	3.909	5
35	MP3C	Z	6.77	5
36	MP3C	Mx	.004	5
37	MP3A	X	5.441	1
38	MP3A	Z	9.424	1
39	MP3A	Mx	-.008	1
40	MP3A	X	5.441	5
41	MP3A	Z	9.424	5
42	MP3A	Mx	-.008	5
43	MP3B	X	5.712	1
44	MP3B	Z	9.894	1
45	MP3B	Mx	.004	1
46	MP3B	X	5.712	5
47	MP3B	Z	9.894	5
48	MP3B	Mx	.004	5
49	MP3C	X	3.909	1
50	MP3C	Z	6.77	1
51	MP3C	Mx	.004	1
52	MP3C	X	3.909	5
53	MP3C	Z	6.77	5
54	MP3C	Mx	.004	5
55	MP1A	X	2.161	1
56	MP1A	Z	3.742	1
57	MP1A	Mx	-.001	1
58	MP1A	X	2.161	5
59	MP1A	Z	3.742	5
60	MP1A	Mx	-.001	5
61	MP1B	X	1.918	1
62	MP1B	Z	3.322	1
63	MP1B	Mx	-.000656	1
64	MP1B	X	1.918	5
65	MP1B	Z	3.322	5
66	MP1B	Mx	-.000656	5
67	MP1C	X	3.527	1
68	MP1C	Z	6.109	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
69	MP1C	Mx	.004	1
70	MP1C	X	3.527	5
71	MP1C	Z	6.109	5
72	MP1C	Mx	.004	5
73	MP5A	X	2.161	1
74	MP5A	Z	3.742	1
75	MP5A	Mx	-.001	1
76	MP5A	X	2.161	5
77	MP5A	Z	3.742	5
78	MP5A	Mx	-.001	5
79	MP5B	X	1.918	1
80	MP5B	Z	3.322	1
81	MP5B	Mx	-.000656	1
82	MP5B	X	1.918	5
83	MP5B	Z	3.322	5
84	MP5B	Mx	-.000656	5
85	MP5C	X	3.527	1
86	MP5C	Z	6.109	1
87	MP5C	Mx	.004	1
88	MP5C	X	3.527	5
89	MP5C	Z	6.109	5
90	MP5C	Mx	.004	5
91	MP2A	X	3.223	5
92	MP2A	Z	5.582	5
93	MP2A	Mx	-.002	5
94	MP2B	X	3.594	5
95	MP2B	Z	6.224	5
96	MP2B	Mx	-.001	5
97	MP2C	X	1.133	5
98	MP2C	Z	1.963	5
99	MP2C	Mx	.001	5
100	MP4A	X	.446	2.5
101	MP4A	Z	.773	2.5
102	MP4A	Mx	.00061	2.5
103	MP4B	X	.446	2.5
104	MP4B	Z	.773	2.5
105	MP4B	Mx	.00061	2.5
106	MP4C	X	.446	2.5
107	MP4C	Z	.773	2.5
108	MP4C	Mx	.00061	2.5
109	MP4A	X	2.241	1.5
110	MP4A	Z	3.881	1.5
111	MP4A	Mx	-.00082	1.5
112	MP4B	X	2.348	1.5
113	MP4B	Z	4.068	1.5
114	MP4B	Mx	.003	1.5
115	MP4C	X	1.633	1.5
116	MP4C	Z	2.829	1.5
117	MP4C	Mx	-.002	1.5
118	MP3A	X	2.163	2
119	MP3A	Z	3.747	2
120	MP3A	Mx	.001	2
121	MP3B	X	2.312	2
122	MP3B	Z	4.005	2
123	MP3B	Mx	.000791	2
124	MP3C	X	1.323	2
125	MP3C	Z	2.291	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
126	MP3C	Mx	-.001	2
127	MP2A	X	1.746	5
128	MP2A	Z	3.024	5
129	MP2A	Mx	.000873	5
130	MP2B	X	1.881	5
131	MP2B	Z	3.257	5
132	MP2B	Mx	.000643	5
133	MP2C	X	.986	5
134	MP2C	Z	1.708	5
135	MP2C	Mx	-.000986	5
136	OVP	X	4.99	1
137	OVP	Z	8.643	1
138	OVP	Mx	.002	1
139	OVP	X	4.99	1
140	OVP	Z	8.643	1
141	OVP	Mx	-.007	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	0	.5
2	MP2A	Z	6.141	.5
3	MP2A	Mx	0	.5
4	MP2A	X	0	2.5
5	MP2A	Z	6.141	2.5
6	MP2A	Mx	0	2.5
7	MP2B	X	0	.5
8	MP2B	Z	3.948	.5
9	MP2B	Mx	-.002	.5
10	MP2B	X	0	2.5
11	MP2B	Z	3.948	2.5
12	MP2B	Mx	-.002	2.5
13	MP2C	X	0	.5
14	MP2C	Z	3.338	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	0	2.5
17	MP2C	Z	3.338	2.5
18	MP2C	Mx	.001	2.5
19	MP3A	X	0	1
20	MP3A	Z	11.903	1
21	MP3A	Mx	.007	1
22	MP3A	X	0	5
23	MP3A	Z	11.903	5
24	MP3A	Mx	.007	5
25	MP3B	X	0	1
26	MP3B	Z	9.505	1
27	MP3B	Mx	-.007	1
28	MP3B	X	0	5
29	MP3B	Z	9.505	5
30	MP3B	Mx	-.007	5
31	MP3C	X	0	1
32	MP3C	Z	8.839	1
33	MP3C	Mx	.006	1
34	MP3C	X	0	5
35	MP3C	Z	8.839	5
36	MP3C	Mx	.006	5
37	MP3A	X	0	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
38	MP3A	Z	11.903	1
39	MP3A	Mx	-.007	1
40	MP3A	X	0	5
41	MP3A	Z	11.903	5
42	MP3A	Mx	-.007	5
43	MP3B	X	0	1
44	MP3B	Z	9.505	1
45	MP3B	Mx	-7.7e-5	1
46	MP3B	X	0	5
47	MP3B	Z	9.505	5
48	MP3B	Mx	-7.7e-5	5
49	MP3C	X	0	1
50	MP3C	Z	8.839	1
51	MP3C	Mx	.001	1
52	MP3C	X	0	5
53	MP3C	Z	8.839	5
54	MP3C	Mx	.001	5
55	MP1A	X	0	1
56	MP1A	Z	3.41	1
57	MP1A	Mx	0	1
58	MP1A	X	0	5
59	MP1A	Z	3.41	5
60	MP1A	Mx	0	5
61	MP1B	X	0	1
62	MP1B	Z	5.548	1
63	MP1B	Mx	-.002	1
64	MP1B	X	0	5
65	MP1B	Z	5.548	5
66	MP1B	Mx	-.002	5
67	MP1C	X	0	1
68	MP1C	Z	6.143	1
69	MP1C	Mx	.003	1
70	MP1C	X	0	5
71	MP1C	Z	6.143	5
72	MP1C	Mx	.003	5
73	MP5A	X	0	1
74	MP5A	Z	3.41	1
75	MP5A	Mx	0	1
76	MP5A	X	0	5
77	MP5A	Z	3.41	5
78	MP5A	Mx	0	5
79	MP5B	X	0	1
80	MP5B	Z	5.548	1
81	MP5B	Mx	-.002	1
82	MP5B	X	0	5
83	MP5B	Z	5.548	5
84	MP5B	Mx	-.002	5
85	MP5C	X	0	1
86	MP5C	Z	6.143	1
87	MP5C	Mx	.003	1
88	MP5C	X	0	5
89	MP5C	Z	6.143	5
90	MP5C	Mx	.003	5
91	MP2A	X	0	5
92	MP2A	Z	7.839	5
93	MP2A	Mx	0	5
94	MP2B	X	0	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
95	MP2B	Z	4.569	5
96	MP2B	Mx	-.002	5
97	MP2C	X	0	5
98	MP2C	Z	3.66	5
99	MP2C	Mx	.002	5
100	MP4A	X	0	2.5
101	MP4A	Z	.967	2.5
102	MP4A	Mx	.000484	2.5
103	MP4B	X	0	2.5
104	MP4B	Z	.967	2.5
105	MP4B	Mx	.000484	2.5
106	MP4C	X	0	2.5
107	MP4C	Z	.967	2.5
108	MP4C	Mx	.000484	2.5
109	MP4A	X	0	1.5
110	MP4A	Z	4.886	1.5
111	MP4A	Mx	-.002	1.5
112	MP4B	X	0	1.5
113	MP4B	Z	3.936	1.5
114	MP4B	Mx	.003	1.5
115	MP4C	X	0	1.5
116	MP4C	Z	3.671	1.5
117	MP4C	Mx	-.000672	1.5
118	MP3A	X	0	2
119	MP3A	Z	4.886	2
120	MP3A	Mx	0	2
121	MP3B	X	0	2
122	MP3B	Z	3.572	2
123	MP3B	Mx	.001	2
124	MP3C	X	0	2
125	MP3C	Z	3.206	2
126	MP3C	Mx	-.001	2
127	MP2A	X	0	5
128	MP2A	Z	3.998	5
129	MP2A	Mx	0	5
130	MP2B	X	0	5
131	MP2B	Z	2.809	5
132	MP2B	Mx	.001	5
133	MP2C	X	0	5
134	MP2C	Z	2.479	5
135	MP2C	Mx	-.001	5
136	OVP	X	0	1
137	OVP	Z	10.609	1
138	OVP	Mx	.005	1
139	OVP	X	0	1
140	OVP	Z	10.609	1
141	OVP	Mx	-.005	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.603	.5
2	MP2A	Z	4.509	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-2.603	2.5
5	MP2A	Z	4.509	2.5
6	MP2A	Mx	.001	2.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
7	MP2B	X	-1.258	.5
8	MP2B	Z	2.18	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	-1.258	2.5
11	MP2B	Z	2.18	2.5
12	MP2B	Mx	-.001	2.5
13	MP2C	X	-2.603	.5
14	MP2C	Z	4.509	.5
15	MP2C	Mx	.001	.5
16	MP2C	X	-2.603	2.5
17	MP2C	Z	4.509	2.5
18	MP2C	Mx	.001	2.5
19	MP3A	X	-5.441	1
20	MP3A	Z	9.424	1
21	MP3A	Mx	.008	1
22	MP3A	X	-5.441	5
23	MP3A	Z	9.424	5
24	MP3A	Mx	.008	5
25	MP3B	X	-3.97	1
26	MP3B	Z	6.877	1
27	MP3B	Mx	-.005	1
28	MP3B	X	-3.97	5
29	MP3B	Z	6.877	5
30	MP3B	Mx	-.005	5
31	MP3C	X	-5.441	1
32	MP3C	Z	9.424	1
33	MP3C	Mx	.008	1
34	MP3C	X	-5.441	5
35	MP3C	Z	9.424	5
36	MP3C	Mx	.008	5
37	MP3A	X	-5.441	1
38	MP3A	Z	9.424	1
39	MP3A	Mx	-.003	1
40	MP3A	X	-5.441	5
41	MP3A	Z	9.424	5
42	MP3A	Mx	-.003	5
43	MP3B	X	-3.97	1
44	MP3B	Z	6.877	1
45	MP3B	Mx	-.003	1
46	MP3B	X	-3.97	5
47	MP3B	Z	6.877	5
48	MP3B	Mx	-.003	5
49	MP3C	X	-5.441	1
50	MP3C	Z	9.424	1
51	MP3C	Mx	-.003	1
52	MP3C	X	-5.441	5
53	MP3C	Z	9.424	5
54	MP3C	Mx	-.003	5
55	MP1A	X	-2.161	1
56	MP1A	Z	3.742	1
57	MP1A	Mx	.001	1
58	MP1A	X	-2.161	5
59	MP1A	Z	3.742	5
60	MP1A	Mx	.001	5
61	MP1B	X	-3.472	1
62	MP1B	Z	6.014	1
63	MP1B	Mx	-.003	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
64	MP1B	X	-3.472	5
65	MP1B	Z	6.014	5
66	MP1B	Mx	-.003	5
67	MP1C	X	-2.161	1
68	MP1C	Z	3.742	1
69	MP1C	Mx	.001	1
70	MP1C	X	-2.161	5
71	MP1C	Z	3.742	5
72	MP1C	Mx	.001	5
73	MP5A	X	-2.161	1
74	MP5A	Z	3.742	1
75	MP5A	Mx	.001	1
76	MP5A	X	-2.161	5
77	MP5A	Z	3.742	5
78	MP5A	Mx	.001	5
79	MP5B	X	-3.472	1
80	MP5B	Z	6.014	1
81	MP5B	Mx	-.003	1
82	MP5B	X	-3.472	5
83	MP5B	Z	6.014	5
84	MP5B	Mx	-.003	5
85	MP5C	X	-2.161	1
86	MP5C	Z	3.742	1
87	MP5C	Mx	.001	1
88	MP5C	X	-2.161	5
89	MP5C	Z	3.742	5
90	MP5C	Mx	.001	5
91	MP2A	X	-3.223	5
92	MP2A	Z	5.582	5
93	MP2A	Mx	.002	5
94	MP2B	X	-1.217	5
95	MP2B	Z	2.108	5
96	MP2B	Mx	-.001	5
97	MP2C	X	-3.223	5
98	MP2C	Z	5.582	5
99	MP2C	Mx	.002	5
100	MP4A	X	-.446	2.5
101	MP4A	Z	.773	2.5
102	MP4A	Mx	.000164	2.5
103	MP4B	X	-.446	2.5
104	MP4B	Z	.773	2.5
105	MP4B	Mx	.000164	2.5
106	MP4C	X	-.446	2.5
107	MP4C	Z	.773	2.5
108	MP4C	Mx	.000164	2.5
109	MP4A	X	-2.241	1.5
110	MP4A	Z	3.881	1.5
111	MP4A	Mx	-.003	1.5
112	MP4B	X	-1.658	1.5
113	MP4B	Z	2.871	1.5
114	MP4B	Mx	.002	1.5
115	MP4C	X	-2.241	1.5
116	MP4C	Z	3.881	1.5
117	MP4C	Mx	.00082	1.5
118	MP3A	X	-2.163	2
119	MP3A	Z	3.747	2
120	MP3A	Mx	-.001	2

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
121	MP3B	X	-1.357	2
122	MP3B	Z	2.35	2
123	MP3B	Mx	.001	2
124	MP3C	X	-2.163	2
125	MP3C	Z	3.747	2
126	MP3C	Mx	-.001	2
127	MP2A	X	-1.746	5
128	MP2A	Z	3.024	5
129	MP2A	Mx	-.000873	5
130	MP2B	X	-1.017	5
131	MP2B	Z	1.761	5
132	MP2B	Mx	.001	5
133	MP2C	X	-1.746	5
134	MP2C	Z	3.024	5
135	MP2C	Mx	-.000873	5
136	OVP	X	-4.99	1
137	OVP	Z	8.643	1
138	OVP	Mx	.007	1
139	OVP	X	-4.99	1
140	OVP	Z	8.643	1
141	OVP	Mx	-.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.891	.5
2	MP2A	Z	1.669	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-2.891	2.5
5	MP2A	Z	1.669	2.5
6	MP2A	Mx	.001	2.5
7	MP2B	X	-2.461	.5
8	MP2B	Z	1.421	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	-2.461	2.5
11	MP2B	Z	1.421	2.5
12	MP2B	Mx	-.001	2.5
13	MP2C	X	-5.318	.5
14	MP2C	Z	3.07	.5
15	MP2C	Mx	0	.5
16	MP2C	X	-5.318	2.5
17	MP2C	Z	3.07	2.5
18	MP2C	Mx	0	2.5
19	MP3A	X	-7.655	1
20	MP3A	Z	4.419	1
21	MP3A	Mx	.006	1
22	MP3A	X	-7.655	5
23	MP3A	Z	4.419	5
24	MP3A	Mx	.006	5
25	MP3B	X	-7.184	1
26	MP3B	Z	4.148	1
27	MP3B	Mx	-.002	1
28	MP3B	X	-7.184	5
29	MP3B	Z	4.148	5
30	MP3B	Mx	-.002	5
31	MP3C	X	-10.308	1
32	MP3C	Z	5.951	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
33	MP3C	Mx	.007	1
34	MP3C	X	-10.308	5
35	MP3C	Z	5.951	5
36	MP3C	Mx	.007	5
37	MP3A	X	-7.655	1
38	MP3A	Z	4.419	1
39	MP3A	Mx	.001	1
40	MP3A	X	-7.655	5
41	MP3A	Z	4.419	5
42	MP3A	Mx	.001	5
43	MP3B	X	-7.184	1
44	MP3B	Z	4.148	1
45	MP3B	Mx	-.006	1
46	MP3B	X	-7.184	5
47	MP3B	Z	4.148	5
48	MP3B	Mx	-.006	5
49	MP3C	X	-10.308	1
50	MP3C	Z	5.951	1
51	MP3C	Mx	-.007	1
52	MP3C	X	-10.308	5
53	MP3C	Z	5.951	5
54	MP3C	Mx	-.007	5
55	MP1A	X	-5.32	1
56	MP1A	Z	3.071	1
57	MP1A	Mx	.003	1
58	MP1A	X	-5.32	5
59	MP1A	Z	3.071	5
60	MP1A	Mx	.003	5
61	MP1B	X	-5.74	1
62	MP1B	Z	3.314	1
63	MP1B	Mx	-.003	1
64	MP1B	X	-5.74	5
65	MP1B	Z	3.314	5
66	MP1B	Mx	-.003	5
67	MP1C	X	-2.953	1
68	MP1C	Z	1.705	1
69	MP1C	Mx	0	1
70	MP1C	X	-2.953	5
71	MP1C	Z	1.705	5
72	MP1C	Mx	0	5
73	MP5A	X	-5.32	1
74	MP5A	Z	3.071	1
75	MP5A	Mx	.003	1
76	MP5A	X	-5.32	5
77	MP5A	Z	3.071	5
78	MP5A	Mx	.003	5
79	MP5B	X	-5.74	1
80	MP5B	Z	3.314	1
81	MP5B	Mx	-.003	1
82	MP5B	X	-5.74	5
83	MP5B	Z	3.314	5
84	MP5B	Mx	-.003	5
85	MP5C	X	-2.953	1
86	MP5C	Z	1.705	1
87	MP5C	Mx	0	1
88	MP5C	X	-2.953	5
89	MP5C	Z	1.705	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
90	MP5C	Mx	0	5
91	MP2A	X	-3.169	5
92	MP2A	Z	1.83	5
93	MP2A	Mx	.002	5
94	MP2B	X	-2.527	5
95	MP2B	Z	1.459	5
96	MP2B	Mx	-.001	5
97	MP2C	X	-6.789	5
98	MP2C	Z	3.92	5
99	MP2C	Mx	0	5
100	MP4A	X	-.644	2.5
101	MP4A	Z	.372	2.5
102	MP4A	Mx	-.000136	2.5
103	MP4B	X	-.644	2.5
104	MP4B	Z	.372	2.5
105	MP4B	Mx	-.000136	2.5
106	MP4C	X	-.644	2.5
107	MP4C	Z	.372	2.5
108	MP4C	Mx	-.000136	2.5
109	MP4A	X	-3.18	1.5
110	MP4A	Z	1.836	1.5
111	MP4A	Mx	-.003	1.5
112	MP4B	X	-2.993	1.5
113	MP4B	Z	1.728	1.5
114	MP4B	Mx	.001	1.5
115	MP4C	X	-4.232	1.5
116	MP4C	Z	2.443	1.5
117	MP4C	Mx	.002	1.5
118	MP3A	X	-2.776	2
119	MP3A	Z	1.603	2
120	MP3A	Mx	-.001	2
121	MP3B	X	-2.518	2
122	MP3B	Z	1.454	2
123	MP3B	Mx	.001	2
124	MP3C	X	-4.232	2
125	MP3C	Z	2.443	2
126	MP3C	Mx	0	2
127	MP2A	X	-2.147	5
128	MP2A	Z	1.239	5
129	MP2A	Mx	-.001	5
130	MP2B	X	-1.913	5
131	MP2B	Z	1.105	5
132	MP2B	Mx	.001	5
133	MP2C	X	-3.462	5
134	MP2C	Z	1.999	5
135	MP2C	Mx	0	5
136	OVP	X	-7.554	1
137	OVP	Z	4.361	1
138	OVP	Mx	.006	1
139	OVP	X	-7.554	1
140	OVP	Z	4.361	1
141	OVP	Mx	.002	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.404	.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
2	MP2A	Z	0	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-2.404	2.5
5	MP2A	Z	0	2.5
6	MP2A	Mx	.001	2.5
7	MP2B	X	-4.597	.5
8	MP2B	Z	0	.5
9	MP2B	Mx	-.001	.5
10	MP2B	X	-4.597	2.5
11	MP2B	Z	0	2.5
12	MP2B	Mx	-.001	2.5
13	MP2C	X	-5.207	.5
14	MP2C	Z	0	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	-5.207	2.5
17	MP2C	Z	0	2.5
18	MP2C	Mx	-.001	2.5
19	MP3A	X	-7.817	1
20	MP3A	Z	0	1
21	MP3A	Mx	.004	1
22	MP3A	X	-7.817	5
23	MP3A	Z	0	5
24	MP3A	Mx	.004	5
25	MP3B	X	-10.215	1
26	MP3B	Z	0	1
27	MP3B	Mx	.001	1
28	MP3B	X	-10.215	5
29	MP3B	Z	0	5
30	MP3B	Mx	.001	5
31	MP3C	X	-10.881	1
32	MP3C	Z	0	1
33	MP3C	Mx	.003	1
34	MP3C	X	-10.881	5
35	MP3C	Z	0	5
36	MP3C	Mx	.003	5
37	MP3A	X	-7.817	1
38	MP3A	Z	0	1
39	MP3A	Mx	.004	1
40	MP3A	X	-7.817	5
41	MP3A	Z	0	5
42	MP3A	Mx	.004	5
43	MP3B	X	-10.215	1
44	MP3B	Z	0	1
45	MP3B	Mx	-.008	1
46	MP3B	X	-10.215	5
47	MP3B	Z	0	5
48	MP3B	Mx	-.008	5
49	MP3C	X	-10.881	1
50	MP3C	Z	0	1
51	MP3C	Mx	-.008	1
52	MP3C	X	-10.881	5
53	MP3C	Z	0	5
54	MP3C	Mx	-.008	5
55	MP1A	X	-7.054	1
56	MP1A	Z	0	1
57	MP1A	Mx	.004	1
58	MP1A	X	-7.054	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
59	MP1A	Z	0	5
60	MP1A	Mx	.004	5
61	MP1B	X	-4.916	1
62	MP1B	Z	0	1
63	MP1B	Mx	-.002	1
64	MP1B	X	-4.916	5
65	MP1B	Z	0	5
66	MP1B	Mx	-.002	5
67	MP1C	X	-4.321	1
68	MP1C	Z	0	1
69	MP1C	Mx	-.001	1
70	MP1C	X	-4.321	5
71	MP1C	Z	0	5
72	MP1C	Mx	-.001	5
73	MP5A	X	-7.054	1
74	MP5A	Z	0	1
75	MP5A	Mx	.004	1
76	MP5A	X	-7.054	5
77	MP5A	Z	0	5
78	MP5A	Mx	.004	5
79	MP5B	X	-4.916	1
80	MP5B	Z	0	1
81	MP5B	Mx	-.002	1
82	MP5B	X	-4.916	5
83	MP5B	Z	0	5
84	MP5B	Mx	-.002	5
85	MP5C	X	-4.321	1
86	MP5C	Z	0	1
87	MP5C	Mx	-.001	1
88	MP5C	X	-4.321	5
89	MP5C	Z	0	5
90	MP5C	Mx	-.001	5
91	MP2A	X	-2.267	5
92	MP2A	Z	0	5
93	MP2A	Mx	.001	5
94	MP2B	X	-5.537	5
95	MP2B	Z	0	5
96	MP2B	Mx	-.002	5
97	MP2C	X	-6.446	5
98	MP2C	Z	0	5
99	MP2C	Mx	-.002	5
100	MP4A	X	-.669	2.5
101	MP4A	Z	0	2.5
102	MP4A	Mx	-.000334	2.5
103	MP4B	X	-.669	2.5
104	MP4B	Z	0	2.5
105	MP4B	Mx	-.000334	2.5
106	MP4C	X	-.669	2.5
107	MP4C	Z	0	2.5
108	MP4C	Mx	-.000334	2.5
109	MP4A	X	-3.266	1.5
110	MP4A	Z	0	1.5
111	MP4A	Mx	-.002	1.5
112	MP4B	X	-4.217	1.5
113	MP4B	Z	0	1.5
114	MP4B	Mx	-.00026	1.5
115	MP4C	X	-4.481	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
116	MP4C	Z	0	1.5
117	MP4C	Mx	.003	1.5
118	MP3A	X	-2.646	2
119	MP3A	Z	0	2
120	MP3A	Mx	-.001	2
121	MP3B	X	-3.961	2
122	MP3B	Z	0	2
123	MP3B	Mx	.001	2
124	MP3C	X	-4.326	2
125	MP3C	Z	0	2
126	MP3C	Mx	.001	2
127	MP2A	X	-1.972	5
128	MP2A	Z	0	5
129	MP2A	Mx	-.000986	5
130	MP2B	X	-3.161	5
131	MP2B	Z	0	5
132	MP2B	Mx	.001	5
133	MP2C	X	-3.492	5
134	MP2C	Z	0	5
135	MP2C	Mx	.000873	5
136	OVP	X	-8.094	1
137	OVP	Z	0	1
138	OVP	Mx	.004	1
139	OVP	X	-8.094	1
140	OVP	Z	0	1
141	OVP	Mx	.004	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.891	.5
2	MP2A	Z	-1.669	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-2.891	2.5
5	MP2A	Z	-1.669	2.5
6	MP2A	Mx	.001	2.5
7	MP2B	X	-5.22	.5
8	MP2B	Z	-3.014	.5
9	MP2B	Mx	-.000523	.5
10	MP2B	X	-5.22	2.5
11	MP2B	Z	-3.014	2.5
12	MP2B	Mx	-.000523	2.5
13	MP2C	X	-2.891	.5
14	MP2C	Z	-1.669	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	-2.891	2.5
17	MP2C	Z	-1.669	2.5
18	MP2C	Mx	-.001	2.5
19	MP3A	X	-7.655	1
20	MP3A	Z	-4.419	1
21	MP3A	Mx	.001	1
22	MP3A	X	-7.655	5
23	MP3A	Z	-4.419	5
24	MP3A	Mx	.001	5
25	MP3B	X	-10.201	1
26	MP3B	Z	-5.89	1
27	MP3B	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
28	MP3B	X	-10.201	5
29	MP3B	Z	-5.89	5
30	MP3B	Mx	.006	5
31	MP3C	X	-7.655	1
32	MP3C	Z	-4.419	1
33	MP3C	Mx	-.001	1
34	MP3C	X	-7.655	5
35	MP3C	Z	-4.419	5
36	MP3C	Mx	-.001	5
37	MP3A	X	-7.655	1
38	MP3A	Z	-4.419	1
39	MP3A	Mx	.006	1
40	MP3A	X	-7.655	5
41	MP3A	Z	-4.419	5
42	MP3A	Mx	.006	5
43	MP3B	X	-10.201	1
44	MP3B	Z	-5.89	1
45	MP3B	Mx	-.008	1
46	MP3B	X	-10.201	5
47	MP3B	Z	-5.89	5
48	MP3B	Mx	-.008	5
49	MP3C	X	-7.655	1
50	MP3C	Z	-4.419	1
51	MP3C	Mx	-.006	1
52	MP3C	X	-7.655	5
53	MP3C	Z	-4.419	5
54	MP3C	Mx	-.006	5
55	MP1A	X	-5.32	1
56	MP1A	Z	-3.071	1
57	MP1A	Mx	.003	1
58	MP1A	X	-5.32	5
59	MP1A	Z	-3.071	5
60	MP1A	Mx	.003	5
61	MP1B	X	-3.048	1
62	MP1B	Z	-1.76	1
63	MP1B	Mx	-.000305	1
64	MP1B	X	-3.048	5
65	MP1B	Z	-1.76	5
66	MP1B	Mx	-.000305	5
67	MP1C	X	-5.32	1
68	MP1C	Z	-3.071	1
69	MP1C	Mx	-.003	1
70	MP1C	X	-5.32	5
71	MP1C	Z	-3.071	5
72	MP1C	Mx	-.003	5
73	MP5A	X	-5.32	1
74	MP5A	Z	-3.071	1
75	MP5A	Mx	.003	1
76	MP5A	X	-5.32	5
77	MP5A	Z	-3.071	5
78	MP5A	Mx	.003	5
79	MP5B	X	-3.048	1
80	MP5B	Z	-1.76	1
81	MP5B	Mx	-.000305	1
82	MP5B	X	-3.048	5
83	MP5B	Z	-1.76	5
84	MP5B	Mx	-.000305	5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
85	MP5C	X	-5.32	1
86	MP5C	Z	-3.071	1
87	MP5C	Mx	-.003	1
88	MP5C	X	-5.32	5
89	MP5C	Z	-3.071	5
90	MP5C	Mx	-.003	5
91	MP2A	X	-3.169	5
92	MP2A	Z	-1.83	5
93	MP2A	Mx	.002	5
94	MP2B	X	-6.643	5
95	MP2B	Z	-3.836	5
96	MP2B	Mx	-.000666	5
97	MP2C	X	-3.169	5
98	MP2C	Z	-1.83	5
99	MP2C	Mx	-.002	5
100	MP4A	X	-.644	2.5
101	MP4A	Z	-.372	2.5
102	MP4A	Mx	-.000508	2.5
103	MP4B	X	-.644	2.5
104	MP4B	Z	-.372	2.5
105	MP4B	Mx	-.000508	2.5
106	MP4C	X	-.644	2.5
107	MP4C	Z	-.372	2.5
108	MP4C	Mx	-.000508	2.5
109	MP4A	X	-3.18	1.5
110	MP4A	Z	-1.836	1.5
111	MP4A	Mx	-.000672	1.5
112	MP4B	X	-4.189	1.5
113	MP4B	Z	-2.419	1.5
114	MP4B	Mx	-.002	1.5
115	MP4C	X	-3.18	1.5
116	MP4C	Z	-1.836	1.5
117	MP4C	Mx	.003	1.5
118	MP3A	X	-2.776	2
119	MP3A	Z	-1.603	2
120	MP3A	Mx	-.001	2
121	MP3B	X	-4.173	2
122	MP3B	Z	-2.409	2
123	MP3B	Mx	.000418	2
124	MP3C	X	-2.776	2
125	MP3C	Z	-1.603	2
126	MP3C	Mx	.001	2
127	MP2A	X	-2.147	5
128	MP2A	Z	-1.239	5
129	MP2A	Mx	-.001	5
130	MP2B	X	-3.409	5
131	MP2B	Z	-1.968	5
132	MP2B	Mx	.000342	5
133	MP2C	X	-2.147	5
134	MP2C	Z	-1.239	5
135	MP2C	Mx	.001	5
136	OVP	X	-7.554	1
137	OVP	Z	-4.361	1
138	OVP	Mx	.002	1
139	OVP	X	-7.554	1
140	OVP	Z	-4.361	1
141	OVP	Mx	.006	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	MP2A	X	-2.603	.5
2	MP2A	Z	-4.509	.5
3	MP2A	Mx	.001	.5
4	MP2A	X	-2.603	2.5
5	MP2A	Z	-4.509	2.5
6	MP2A	Mx	.001	2.5
7	MP2B	X	-2.852	.5
8	MP2B	Z	-4.94	.5
9	MP2B	Mx	.000976	.5
10	MP2B	X	-2.852	2.5
11	MP2B	Z	-4.94	2.5
12	MP2B	Mx	.000976	2.5
13	MP2C	X	-1.202	.5
14	MP2C	Z	-2.082	.5
15	MP2C	Mx	-.001	.5
16	MP2C	X	-1.202	2.5
17	MP2C	Z	-2.082	2.5
18	MP2C	Mx	-.001	2.5
19	MP3A	X	-5.441	1
20	MP3A	Z	-9.424	1
21	MP3A	Mx	-.003	1
22	MP3A	X	-5.441	5
23	MP3A	Z	-9.424	5
24	MP3A	Mx	-.003	5
25	MP3B	X	-5.712	1
26	MP3B	Z	-9.894	1
27	MP3B	Mx	.008	1
28	MP3B	X	-5.712	5
29	MP3B	Z	-9.894	5
30	MP3B	Mx	.008	5
31	MP3C	X	-3.909	1
32	MP3C	Z	-6.77	1
33	MP3C	Mx	-.004	1
34	MP3C	X	-3.909	5
35	MP3C	Z	-6.77	5
36	MP3C	Mx	-.004	5
37	MP3A	X	-5.441	1
38	MP3A	Z	-9.424	1
39	MP3A	Mx	.008	1
40	MP3A	X	-5.441	5
41	MP3A	Z	-9.424	5
42	MP3A	Mx	.008	5
43	MP3B	X	-5.712	1
44	MP3B	Z	-9.894	1
45	MP3B	Mx	-.004	1
46	MP3B	X	-5.712	5
47	MP3B	Z	-9.894	5
48	MP3B	Mx	-.004	5
49	MP3C	X	-3.909	1
50	MP3C	Z	-6.77	1
51	MP3C	Mx	-.004	1
52	MP3C	X	-3.909	5
53	MP3C	Z	-6.77	5
54	MP3C	Mx	-.004	5
55	MP1A	X	-2.161	1
56	MP1A	Z	-3.742	1
57	MP1A	Mx	.001	1

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
58	MP1A	X	-2.161	5
59	MP1A	Z	-3.742	5
60	MP1A	Mx	.001	5
61	MP1B	X	-1.918	1
62	MP1B	Z	-3.322	1
63	MP1B	Mx	.000656	1
64	MP1B	X	-1.918	5
65	MP1B	Z	-3.322	5
66	MP1B	Mx	.000656	5
67	MP1C	X	-3.527	1
68	MP1C	Z	-6.109	1
69	MP1C	Mx	-.004	1
70	MP1C	X	-3.527	5
71	MP1C	Z	-6.109	5
72	MP1C	Mx	-.004	5
73	MP5A	X	-2.161	1
74	MP5A	Z	-3.742	1
75	MP5A	Mx	.001	1
76	MP5A	X	-2.161	5
77	MP5A	Z	-3.742	5
78	MP5A	Mx	.001	5
79	MP5B	X	-1.918	1
80	MP5B	Z	-3.322	1
81	MP5B	Mx	.000656	1
82	MP5B	X	-1.918	5
83	MP5B	Z	-3.322	5
84	MP5B	Mx	.000656	5
85	MP5C	X	-3.527	1
86	MP5C	Z	-6.109	1
87	MP5C	Mx	-.004	1
88	MP5C	X	-3.527	5
89	MP5C	Z	-6.109	5
90	MP5C	Mx	-.004	5
91	MP2A	X	-3.223	5
92	MP2A	Z	-5.582	5
93	MP2A	Mx	.002	5
94	MP2B	X	-3.594	5
95	MP2B	Z	-6.224	5
96	MP2B	Mx	.001	5
97	MP2C	X	-1.133	5
98	MP2C	Z	-1.963	5
99	MP2C	Mx	-.001	5
100	MP4A	X	-.446	2.5
101	MP4A	Z	-.773	2.5
102	MP4A	Mx	-.00061	2.5
103	MP4B	X	-.446	2.5
104	MP4B	Z	-.773	2.5
105	MP4B	Mx	-.00061	2.5
106	MP4C	X	-.446	2.5
107	MP4C	Z	-.773	2.5
108	MP4C	Mx	-.00061	2.5
109	MP4A	X	-2.241	1.5
110	MP4A	Z	-3.881	1.5
111	MP4A	Mx	.00082	1.5
112	MP4B	X	-2.348	1.5
113	MP4B	Z	-4.068	1.5
114	MP4B	Mx	-.003	1.5

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

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
115	MP4C	X	-1.633	1.5
116	MP4C	Z	-2.829	1.5
117	MP4C	Mx	.002	1.5
118	MP3A	X	-2.163	2
119	MP3A	Z	-3.747	2
120	MP3A	Mx	-.001	2
121	MP3B	X	-2.312	2
122	MP3B	Z	-4.005	2
123	MP3B	Mx	-.000791	2
124	MP3C	X	-1.323	2
125	MP3C	Z	-2.291	2
126	MP3C	Mx	.001	2
127	MP2A	X	-1.746	5
128	MP2A	Z	-3.024	5
129	MP2A	Mx	-.000873	5
130	MP2B	X	-1.881	5
131	MP2B	Z	-3.257	5
132	MP2B	Mx	-.000643	5
133	MP2C	X	-.986	5
134	MP2C	Z	-1.708	5
135	MP2C	Mx	.000986	5
136	OVP	X	-4.99	1
137	OVP	Z	-8.643	1
138	OVP	Mx	-.002	1
139	OVP	X	-4.99	1
140	OVP	Z	-8.643	1
141	OVP	Mx	.007	1

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M48	Y	-500	%100

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M50	Y	-500	%100

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M42	Y	-250	%50

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb,k-ft]	Location[ft,%]
1	M42	Y	-250	%100

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	M4	Y	-9.49	-9.49	0	%100
2	M14	Y	-9.49	-9.49	0	%100
3	M27	Y	-9.49	-9.49	0	%100
4	M40	Y	-9.49	-9.49	0	%100
5	M41	Y	-9.49	-9.49	0	%100
6	M42	Y	-9.49	-9.49	0	%100
7	OVP	Y	-4.91	-4.91	0	%100

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,%]
8	MP1A	Y	-4.91	-4.91	0	%100
9	MP2A	Y	-4.91	-4.91	0	%100
10	MP3A	Y	-5.607	-5.607	0	%100
11	MP4A	Y	-4.91	-4.91	0	%100
12	MP5A	Y	-4.91	-4.91	0	%100
13	MP1C	Y	-4.91	-4.91	0	%100
14	MP2C	Y	-4.91	-4.91	0	%100
15	MP3C	Y	-5.607	-5.607	0	%100
16	MP4C	Y	-4.91	-4.91	0	%100
17	MP5C	Y	-4.91	-4.91	0	%100
18	MP1B	Y	-4.91	-4.91	0	%100
19	MP2B	Y	-4.91	-4.91	0	%100
20	MP3B	Y	-5.607	-5.607	0	%100
21	MP4B	Y	-4.91	-4.91	0	%100
22	MP5B	Y	-4.91	-4.91	0	%100
23	M75	Y	-11.016	-11.016	0	%100
24	M76	Y	-11.016	-11.016	0	%100
25	M77	Y	-11.016	-11.016	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-12.418	-12.418	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-12.418	-12.418	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	-4.283	-4.283	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	-4.283	-4.283	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	-17.131	-17.131	0	%100
13	OVP	X	0	0	0	%100
14	OVP	Z	-8.899	-8.899	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-9.765	-9.765	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	-9.765	-9.765	0	%100
19	MP3A	X	0	0	0	%100
20	MP3A	Z	-11.821	-11.821	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	-9.765	-9.765	0	%100
23	MP5A	X	0	0	0	%100
24	MP5A	Z	-9.765	-9.765	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	-9.765	-9.765	0	%100
27	MP2C	X	0	0	0	%100
28	MP2C	Z	-9.765	-9.765	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	-11.821	-11.821	0	%100
31	MP4C	X	0	0	0	%100
32	MP4C	Z	-9.765	-9.765	0	%100
33	MP5C	X	0	0	0	%100
34	MP5C	Z	-9.765	-9.765	0	%100
35	MP1B	X	0	0	0	%100

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,%]
36	MP1B	Z	-9.765	-9.765	0	%100
37	MP2B	X	0	0	0	%100
38	MP2B	Z	-9.765	-9.765	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	-11.821	-11.821	0	%100
41	MP4B	X	0	0	0	%100
42	MP4B	Z	-9.765	-9.765	0	%100
43	MP5B	X	0	0	0	%100
44	MP5B	Z	-9.765	-9.765	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-12.18	-12.18	0	%100
47	M76	X	0	0	0	%100
48	M76	Z	-17.179	-17.179	0	%100
49	M77	X	0	0	0	%100
50	M77	Z	-17.179	-17.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.07	2.07	0	%100
2	M4	Z	-3.585	-3.585	0	%100
3	M14	X	2.07	2.07	0	%100
4	M14	Z	-3.585	-3.585	0	%100
5	M27	X	8.278	8.278	0	%100
6	M27	Z	-14.339	-14.339	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	6.424	6.424	0	%100
10	M41	Z	-11.127	-11.127	0	%100
11	M42	X	6.424	6.424	0	%100
12	M42	Z	-11.127	-11.127	0	%100
13	OVP	X	4.449	4.449	0	%100
14	OVP	Z	-7.707	-7.707	0	%100
15	MP1A	X	4.882	4.882	0	%100
16	MP1A	Z	-8.457	-8.457	0	%100
17	MP2A	X	4.882	4.882	0	%100
18	MP2A	Z	-8.457	-8.457	0	%100
19	MP3A	X	5.91	5.91	0	%100
20	MP3A	Z	-10.237	-10.237	0	%100
21	MP4A	X	4.882	4.882	0	%100
22	MP4A	Z	-8.457	-8.457	0	%100
23	MP5A	X	4.882	4.882	0	%100
24	MP5A	Z	-8.457	-8.457	0	%100
25	MP1C	X	4.882	4.882	0	%100
26	MP1C	Z	-8.457	-8.457	0	%100
27	MP2C	X	4.882	4.882	0	%100
28	MP2C	Z	-8.457	-8.457	0	%100
29	MP3C	X	5.91	5.91	0	%100
30	MP3C	Z	-10.237	-10.237	0	%100
31	MP4C	X	4.882	4.882	0	%100
32	MP4C	Z	-8.457	-8.457	0	%100
33	MP5C	X	4.882	4.882	0	%100
34	MP5C	Z	-8.457	-8.457	0	%100
35	MP1B	X	4.882	4.882	0	%100
36	MP1B	Z	-8.457	-8.457	0	%100
37	MP2B	X	4.882	4.882	0	%100
38	MP2B	Z	-8.457	-8.457	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
39	MP3B	X	5.91	5.91	0	%100
40	MP3B	Z	-10.237	-10.237	0	%100
41	MP4B	X	4.882	4.882	0	%100
42	MP4B	Z	-8.457	-8.457	0	%100
43	MP5B	X	4.882	4.882	0	%100
44	MP5B	Z	-8.457	-8.457	0	%100
45	M75	X	6.923	6.923	0	%100
46	M75	Z	-11.991	-11.991	0	%100
47	M76	X	6.923	6.923	0	%100
48	M76	Z	-11.991	-11.991	0	%100
49	M77	X	9.422	9.422	0	%100
50	M77	Z	-16.32	-16.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	10.754	10.754	0	%100
2	M4	Z	-6.209	-6.209	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	10.754	10.754	0	%100
6	M27	Z	-6.209	-6.209	0	%100
7	M40	X	3.709	3.709	0	%100
8	M40	Z	-2.141	-2.141	0	%100
9	M41	X	14.836	14.836	0	%100
10	M41	Z	-8.566	-8.566	0	%100
11	M42	X	3.709	3.709	0	%100
12	M42	Z	-2.141	-2.141	0	%100
13	OVP	X	7.707	7.707	0	%100
14	OVP	Z	-4.449	-4.449	0	%100
15	MP1A	X	8.457	8.457	0	%100
16	MP1A	Z	-4.882	-4.882	0	%100
17	MP2A	X	8.457	8.457	0	%100
18	MP2A	Z	-4.882	-4.882	0	%100
19	MP3A	X	10.237	10.237	0	%100
20	MP3A	Z	-5.91	-5.91	0	%100
21	MP4A	X	8.457	8.457	0	%100
22	MP4A	Z	-4.882	-4.882	0	%100
23	MP5A	X	8.457	8.457	0	%100
24	MP5A	Z	-4.882	-4.882	0	%100
25	MP1C	X	8.457	8.457	0	%100
26	MP1C	Z	-4.882	-4.882	0	%100
27	MP2C	X	8.457	8.457	0	%100
28	MP2C	Z	-4.882	-4.882	0	%100
29	MP3C	X	10.237	10.237	0	%100
30	MP3C	Z	-5.91	-5.91	0	%100
31	MP4C	X	8.457	8.457	0	%100
32	MP4C	Z	-4.882	-4.882	0	%100
33	MP5C	X	8.457	8.457	0	%100
34	MP5C	Z	-4.882	-4.882	0	%100
35	MP1B	X	8.457	8.457	0	%100
36	MP1B	Z	-4.882	-4.882	0	%100
37	MP2B	X	8.457	8.457	0	%100
38	MP2B	Z	-4.882	-4.882	0	%100
39	MP3B	X	10.237	10.237	0	%100
40	MP3B	Z	-5.91	-5.91	0	%100
41	MP4B	X	8.457	8.457	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,%]
42	MP4B	Z	-4.882	-4.882	0	%100
43	MP5B	X	8.457	8.457	0	%100
44	MP5B	Z	-4.882	-4.882	0	%100
45	M75	X	14.877	14.877	0	%100
46	M75	Z	-8.589	-8.589	0	%100
47	M76	X	10.549	10.549	0	%100
48	M76	Z	-6.09	-6.09	0	%100
49	M77	X	14.877	14.877	0	%100
50	M77	Z	-8.589	-8.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	16.557	16.557	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	4.139	4.139	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	4.139	4.139	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	12.849	12.849	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	12.849	12.849	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	OVP	X	8.899	8.899	0	%100
14	OVP	Z	0	0	0	%100
15	MP1A	X	9.765	9.765	0	%100
16	MP1A	Z	0	0	0	%100
17	MP2A	X	9.765	9.765	0	%100
18	MP2A	Z	0	0	0	%100
19	MP3A	X	11.821	11.821	0	%100
20	MP3A	Z	0	0	0	%100
21	MP4A	X	9.765	9.765	0	%100
22	MP4A	Z	0	0	0	%100
23	MP5A	X	9.765	9.765	0	%100
24	MP5A	Z	0	0	0	%100
25	MP1C	X	9.765	9.765	0	%100
26	MP1C	Z	0	0	0	%100
27	MP2C	X	9.765	9.765	0	%100
28	MP2C	Z	0	0	0	%100
29	MP3C	X	11.821	11.821	0	%100
30	MP3C	Z	0	0	0	%100
31	MP4C	X	9.765	9.765	0	%100
32	MP4C	Z	0	0	0	%100
33	MP5C	X	9.765	9.765	0	%100
34	MP5C	Z	0	0	0	%100
35	MP1B	X	9.765	9.765	0	%100
36	MP1B	Z	0	0	0	%100
37	MP2B	X	9.765	9.765	0	%100
38	MP2B	Z	0	0	0	%100
39	MP3B	X	11.821	11.821	0	%100
40	MP3B	Z	0	0	0	%100
41	MP4B	X	9.765	9.765	0	%100
42	MP4B	Z	0	0	0	%100
43	MP5B	X	9.765	9.765	0	%100
44	MP5B	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
45	M75	X	18.845	18.845	0	%100
46	M75	Z	0	0	0	%100
47	M76	X	13.846	13.846	0	%100
48	M76	Z	0	0	0	%100
49	M77	X	13.846	13.846	0	%100
50	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	10.754	10.754	0	%100
2	M4	Z	6.209	6.209	0	%100
3	M14	X	10.754	10.754	0	%100
4	M14	Z	6.209	6.209	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	14.836	14.836	0	%100
8	M40	Z	8.566	8.566	0	%100
9	M41	X	3.709	3.709	0	%100
10	M41	Z	2.141	2.141	0	%100
11	M42	X	3.709	3.709	0	%100
12	M42	Z	2.141	2.141	0	%100
13	OVP	X	7.707	7.707	0	%100
14	OVP	Z	4.449	4.449	0	%100
15	MP1A	X	8.457	8.457	0	%100
16	MP1A	Z	4.882	4.882	0	%100
17	MP2A	X	8.457	8.457	0	%100
18	MP2A	Z	4.882	4.882	0	%100
19	MP3A	X	10.237	10.237	0	%100
20	MP3A	Z	5.91	5.91	0	%100
21	MP4A	X	8.457	8.457	0	%100
22	MP4A	Z	4.882	4.882	0	%100
23	MP5A	X	8.457	8.457	0	%100
24	MP5A	Z	4.882	4.882	0	%100
25	MP1C	X	8.457	8.457	0	%100
26	MP1C	Z	4.882	4.882	0	%100
27	MP2C	X	8.457	8.457	0	%100
28	MP2C	Z	4.882	4.882	0	%100
29	MP3C	X	10.237	10.237	0	%100
30	MP3C	Z	5.91	5.91	0	%100
31	MP4C	X	8.457	8.457	0	%100
32	MP4C	Z	4.882	4.882	0	%100
33	MP5C	X	8.457	8.457	0	%100
34	MP5C	Z	4.882	4.882	0	%100
35	MP1B	X	8.457	8.457	0	%100
36	MP1B	Z	4.882	4.882	0	%100
37	MP2B	X	8.457	8.457	0	%100
38	MP2B	Z	4.882	4.882	0	%100
39	MP3B	X	10.237	10.237	0	%100
40	MP3B	Z	5.91	5.91	0	%100
41	MP4B	X	8.457	8.457	0	%100
42	MP4B	Z	4.882	4.882	0	%100
43	MP5B	X	8.457	8.457	0	%100
44	MP5B	Z	4.882	4.882	0	%100
45	M75	X	14.877	14.877	0	%100
46	M75	Z	8.589	8.589	0	%100
47	M76	X	14.877	14.877	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
48	M76	Z	8.589	8.589	0	%100
49	M77	X	10.549	10.549	0	%100
50	M77	Z	6.09	6.09	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.07	2.07	0	%100
2	M4	Z	3.585	3.585	0	%100
3	M14	X	8.278	8.278	0	%100
4	M14	Z	14.339	14.339	0	%100
5	M27	X	2.07	2.07	0	%100
6	M27	Z	3.585	3.585	0	%100
7	M40	X	6.424	6.424	0	%100
8	M40	Z	11.127	11.127	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	6.424	6.424	0	%100
12	M42	Z	11.127	11.127	0	%100
13	OVP	X	4.449	4.449	0	%100
14	OVP	Z	7.707	7.707	0	%100
15	MP1A	X	4.882	4.882	0	%100
16	MP1A	Z	8.457	8.457	0	%100
17	MP2A	X	4.882	4.882	0	%100
18	MP2A	Z	8.457	8.457	0	%100
19	MP3A	X	5.91	5.91	0	%100
20	MP3A	Z	10.237	10.237	0	%100
21	MP4A	X	4.882	4.882	0	%100
22	MP4A	Z	8.457	8.457	0	%100
23	MP5A	X	4.882	4.882	0	%100
24	MP5A	Z	8.457	8.457	0	%100
25	MP1C	X	4.882	4.882	0	%100
26	MP1C	Z	8.457	8.457	0	%100
27	MP2C	X	4.882	4.882	0	%100
28	MP2C	Z	8.457	8.457	0	%100
29	MP3C	X	5.91	5.91	0	%100
30	MP3C	Z	10.237	10.237	0	%100
31	MP4C	X	4.882	4.882	0	%100
32	MP4C	Z	8.457	8.457	0	%100
33	MP5C	X	4.882	4.882	0	%100
34	MP5C	Z	8.457	8.457	0	%100
35	MP1B	X	4.882	4.882	0	%100
36	MP1B	Z	8.457	8.457	0	%100
37	MP2B	X	4.882	4.882	0	%100
38	MP2B	Z	8.457	8.457	0	%100
39	MP3B	X	5.91	5.91	0	%100
40	MP3B	Z	10.237	10.237	0	%100
41	MP4B	X	4.882	4.882	0	%100
42	MP4B	Z	8.457	8.457	0	%100
43	MP5B	X	4.882	4.882	0	%100
44	MP5B	Z	8.457	8.457	0	%100
45	M75	X	6.923	6.923	0	%100
46	M75	Z	11.991	11.991	0	%100
47	M76	X	9.422	9.422	0	%100
48	M76	Z	16.32	16.32	0	%100
49	M77	X	6.923	6.923	0	%100
50	M77	Z	11.991	11.991	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	12.418	12.418	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	12.418	12.418	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	4.283	4.283	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	4.283	4.283	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	17.131	17.131	0	%100
13	OVP	X	0	0	0	%100
14	OVP	Z	8.899	8.899	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	9.765	9.765	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	9.765	9.765	0	%100
19	MP3A	X	0	0	0	%100
20	MP3A	Z	11.821	11.821	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	9.765	9.765	0	%100
23	MP5A	X	0	0	0	%100
24	MP5A	Z	9.765	9.765	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	9.765	9.765	0	%100
27	MP2C	X	0	0	0	%100
28	MP2C	Z	9.765	9.765	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	11.821	11.821	0	%100
31	MP4C	X	0	0	0	%100
32	MP4C	Z	9.765	9.765	0	%100
33	MP5C	X	0	0	0	%100
34	MP5C	Z	9.765	9.765	0	%100
35	MP1B	X	0	0	0	%100
36	MP1B	Z	9.765	9.765	0	%100
37	MP2B	X	0	0	0	%100
38	MP2B	Z	9.765	9.765	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	11.821	11.821	0	%100
41	MP4B	X	0	0	0	%100
42	MP4B	Z	9.765	9.765	0	%100
43	MP5B	X	0	0	0	%100
44	MP5B	Z	9.765	9.765	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	12.18	12.18	0	%100
47	M76	X	0	0	0	%100
48	M76	Z	17.179	17.179	0	%100
49	M77	X	0	0	0	%100
50	M77	Z	17.179	17.179	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-2.07	-2.07	0	%100
2	M4	Z	3.585	3.585	0	%100
3	M14	X	-2.07	-2.07	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,%]
4	M14	Z	3.585	3.585	0	%100
5	M27	X	-8.278	-8.278	0	%100
6	M27	Z	14.339	14.339	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-6.424	-6.424	0	%100
10	M41	Z	11.127	11.127	0	%100
11	M42	X	-6.424	-6.424	0	%100
12	M42	Z	11.127	11.127	0	%100
13	OVP	X	-4.449	-4.449	0	%100
14	OVP	Z	7.707	7.707	0	%100
15	MP1A	X	-4.882	-4.882	0	%100
16	MP1A	Z	8.457	8.457	0	%100
17	MP2A	X	-4.882	-4.882	0	%100
18	MP2A	Z	8.457	8.457	0	%100
19	MP3A	X	-5.91	-5.91	0	%100
20	MP3A	Z	10.237	10.237	0	%100
21	MP4A	X	-4.882	-4.882	0	%100
22	MP4A	Z	8.457	8.457	0	%100
23	MP5A	X	-4.882	-4.882	0	%100
24	MP5A	Z	8.457	8.457	0	%100
25	MP1C	X	-4.882	-4.882	0	%100
26	MP1C	Z	8.457	8.457	0	%100
27	MP2C	X	-4.882	-4.882	0	%100
28	MP2C	Z	8.457	8.457	0	%100
29	MP3C	X	-5.91	-5.91	0	%100
30	MP3C	Z	10.237	10.237	0	%100
31	MP4C	X	-4.882	-4.882	0	%100
32	MP4C	Z	8.457	8.457	0	%100
33	MP5C	X	-4.882	-4.882	0	%100
34	MP5C	Z	8.457	8.457	0	%100
35	MP1B	X	-4.882	-4.882	0	%100
36	MP1B	Z	8.457	8.457	0	%100
37	MP2B	X	-4.882	-4.882	0	%100
38	MP2B	Z	8.457	8.457	0	%100
39	MP3B	X	-5.91	-5.91	0	%100
40	MP3B	Z	10.237	10.237	0	%100
41	MP4B	X	-4.882	-4.882	0	%100
42	MP4B	Z	8.457	8.457	0	%100
43	MP5B	X	-4.882	-4.882	0	%100
44	MP5B	Z	8.457	8.457	0	%100
45	M75	X	-6.923	-6.923	0	%100
46	M75	Z	11.991	11.991	0	%100
47	M76	X	-6.923	-6.923	0	%100
48	M76	Z	11.991	11.991	0	%100
49	M77	X	-9.422	-9.422	0	%100
50	M77	Z	16.32	16.32	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-10.754	-10.754	0	%100
2	M4	Z	6.209	6.209	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-10.754	-10.754	0	%100
6	M27	Z	6.209	6.209	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
7	M40	X	-3.709	-3.709	0	%100
8	M40	Z	2.141	2.141	0	%100
9	M41	X	-14.836	-14.836	0	%100
10	M41	Z	8.566	8.566	0	%100
11	M42	X	-3.709	-3.709	0	%100
12	M42	Z	2.141	2.141	0	%100
13	OVP	X	-7.707	-7.707	0	%100
14	OVP	Z	4.449	4.449	0	%100
15	MP1A	X	-8.457	-8.457	0	%100
16	MP1A	Z	4.882	4.882	0	%100
17	MP2A	X	-8.457	-8.457	0	%100
18	MP2A	Z	4.882	4.882	0	%100
19	MP3A	X	-10.237	-10.237	0	%100
20	MP3A	Z	5.91	5.91	0	%100
21	MP4A	X	-8.457	-8.457	0	%100
22	MP4A	Z	4.882	4.882	0	%100
23	MP5A	X	-8.457	-8.457	0	%100
24	MP5A	Z	4.882	4.882	0	%100
25	MP1C	X	-8.457	-8.457	0	%100
26	MP1C	Z	4.882	4.882	0	%100
27	MP2C	X	-8.457	-8.457	0	%100
28	MP2C	Z	4.882	4.882	0	%100
29	MP3C	X	-10.237	-10.237	0	%100
30	MP3C	Z	5.91	5.91	0	%100
31	MP4C	X	-8.457	-8.457	0	%100
32	MP4C	Z	4.882	4.882	0	%100
33	MP5C	X	-8.457	-8.457	0	%100
34	MP5C	Z	4.882	4.882	0	%100
35	MP1B	X	-8.457	-8.457	0	%100
36	MP1B	Z	4.882	4.882	0	%100
37	MP2B	X	-8.457	-8.457	0	%100
38	MP2B	Z	4.882	4.882	0	%100
39	MP3B	X	-10.237	-10.237	0	%100
40	MP3B	Z	5.91	5.91	0	%100
41	MP4B	X	-8.457	-8.457	0	%100
42	MP4B	Z	4.882	4.882	0	%100
43	MP5B	X	-8.457	-8.457	0	%100
44	MP5B	Z	4.882	4.882	0	%100
45	M75	X	-14.877	-14.877	0	%100
46	M75	Z	8.589	8.589	0	%100
47	M76	X	-10.549	-10.549	0	%100
48	M76	Z	6.09	6.09	0	%100
49	M77	X	-14.877	-14.877	0	%100
50	M77	Z	8.589	8.589	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-16.557	-16.557	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-4.139	-4.139	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-4.139	-4.139	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-12.849	-12.849	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-12.849	-12.849	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,%]
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	OVP	X	-8.899	-8.899	0	%100
14	OVP	Z	0	0	0	%100
15	MP1A	X	-9.765	-9.765	0	%100
16	MP1A	Z	0	0	0	%100
17	MP2A	X	-9.765	-9.765	0	%100
18	MP2A	Z	0	0	0	%100
19	MP3A	X	-11.821	-11.821	0	%100
20	MP3A	Z	0	0	0	%100
21	MP4A	X	-9.765	-9.765	0	%100
22	MP4A	Z	0	0	0	%100
23	MP5A	X	-9.765	-9.765	0	%100
24	MP5A	Z	0	0	0	%100
25	MP1C	X	-9.765	-9.765	0	%100
26	MP1C	Z	0	0	0	%100
27	MP2C	X	-9.765	-9.765	0	%100
28	MP2C	Z	0	0	0	%100
29	MP3C	X	-11.821	-11.821	0	%100
30	MP3C	Z	0	0	0	%100
31	MP4C	X	-9.765	-9.765	0	%100
32	MP4C	Z	0	0	0	%100
33	MP5C	X	-9.765	-9.765	0	%100
34	MP5C	Z	0	0	0	%100
35	MP1B	X	-9.765	-9.765	0	%100
36	MP1B	Z	0	0	0	%100
37	MP2B	X	-9.765	-9.765	0	%100
38	MP2B	Z	0	0	0	%100
39	MP3B	X	-11.821	-11.821	0	%100
40	MP3B	Z	0	0	0	%100
41	MP4B	X	-9.765	-9.765	0	%100
42	MP4B	Z	0	0	0	%100
43	MP5B	X	-9.765	-9.765	0	%100
44	MP5B	Z	0	0	0	%100
45	M75	X	-18.845	-18.845	0	%100
46	M75	Z	0	0	0	%100
47	M76	X	-13.846	-13.846	0	%100
48	M76	Z	0	0	0	%100
49	M77	X	-13.846	-13.846	0	%100
50	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-10.754	-10.754	0	%100
2	M4	Z	-6.209	-6.209	0	%100
3	M14	X	-10.754	-10.754	0	%100
4	M14	Z	-6.209	-6.209	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-14.836	-14.836	0	%100
8	M40	Z	-8.566	-8.566	0	%100
9	M41	X	-3.709	-3.709	0	%100
10	M41	Z	-2.141	-2.141	0	%100
11	M42	X	-3.709	-3.709	0	%100
12	M42	Z	-2.141	-2.141	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,%]
13	OVP	X	-7.707	-7.707	0	%100
14	OVP	Z	-4.449	-4.449	0	%100
15	MP1A	X	-8.457	-8.457	0	%100
16	MP1A	Z	-4.882	-4.882	0	%100
17	MP2A	X	-8.457	-8.457	0	%100
18	MP2A	Z	-4.882	-4.882	0	%100
19	MP3A	X	-10.237	-10.237	0	%100
20	MP3A	Z	-5.91	-5.91	0	%100
21	MP4A	X	-8.457	-8.457	0	%100
22	MP4A	Z	-4.882	-4.882	0	%100
23	MP5A	X	-8.457	-8.457	0	%100
24	MP5A	Z	-4.882	-4.882	0	%100
25	MP1C	X	-8.457	-8.457	0	%100
26	MP1C	Z	-4.882	-4.882	0	%100
27	MP2C	X	-8.457	-8.457	0	%100
28	MP2C	Z	-4.882	-4.882	0	%100
29	MP3C	X	-10.237	-10.237	0	%100
30	MP3C	Z	-5.91	-5.91	0	%100
31	MP4C	X	-8.457	-8.457	0	%100
32	MP4C	Z	-4.882	-4.882	0	%100
33	MP5C	X	-8.457	-8.457	0	%100
34	MP5C	Z	-4.882	-4.882	0	%100
35	MP1B	X	-8.457	-8.457	0	%100
36	MP1B	Z	-4.882	-4.882	0	%100
37	MP2B	X	-8.457	-8.457	0	%100
38	MP2B	Z	-4.882	-4.882	0	%100
39	MP3B	X	-10.237	-10.237	0	%100
40	MP3B	Z	-5.91	-5.91	0	%100
41	MP4B	X	-8.457	-8.457	0	%100
42	MP4B	Z	-4.882	-4.882	0	%100
43	MP5B	X	-8.457	-8.457	0	%100
44	MP5B	Z	-4.882	-4.882	0	%100
45	M75	X	-14.877	-14.877	0	%100
46	M75	Z	-8.589	-8.589	0	%100
47	M76	X	-14.877	-14.877	0	%100
48	M76	Z	-8.589	-8.589	0	%100
49	M77	X	-10.549	-10.549	0	%100
50	M77	Z	-6.09	-6.09	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-2.07	-2.07	0	%100
2	M4	Z	-3.585	-3.585	0	%100
3	M14	X	-8.278	-8.278	0	%100
4	M14	Z	-14.339	-14.339	0	%100
5	M27	X	-2.07	-2.07	0	%100
6	M27	Z	-3.585	-3.585	0	%100
7	M40	X	-6.424	-6.424	0	%100
8	M40	Z	-11.127	-11.127	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	-6.424	-6.424	0	%100
12	M42	Z	-11.127	-11.127	0	%100
13	OVP	X	-4.449	-4.449	0	%100
14	OVP	Z	-7.707	-7.707	0	%100
15	MP1A	X	-4.882	-4.882	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
16	MP1A	Z	-8.457	-8.457	0	%100
17	MP2A	X	-4.882	-4.882	0	%100
18	MP2A	Z	-8.457	-8.457	0	%100
19	MP3A	X	-5.91	-5.91	0	%100
20	MP3A	Z	-10.237	-10.237	0	%100
21	MP4A	X	-4.882	-4.882	0	%100
22	MP4A	Z	-8.457	-8.457	0	%100
23	MP5A	X	-4.882	-4.882	0	%100
24	MP5A	Z	-8.457	-8.457	0	%100
25	MP1C	X	-4.882	-4.882	0	%100
26	MP1C	Z	-8.457	-8.457	0	%100
27	MP2C	X	-4.882	-4.882	0	%100
28	MP2C	Z	-8.457	-8.457	0	%100
29	MP3C	X	-5.91	-5.91	0	%100
30	MP3C	Z	-10.237	-10.237	0	%100
31	MP4C	X	-4.882	-4.882	0	%100
32	MP4C	Z	-8.457	-8.457	0	%100
33	MP5C	X	-4.882	-4.882	0	%100
34	MP5C	Z	-8.457	-8.457	0	%100
35	MP1B	X	-4.882	-4.882	0	%100
36	MP1B	Z	-8.457	-8.457	0	%100
37	MP2B	X	-4.882	-4.882	0	%100
38	MP2B	Z	-8.457	-8.457	0	%100
39	MP3B	X	-5.91	-5.91	0	%100
40	MP3B	Z	-10.237	-10.237	0	%100
41	MP4B	X	-4.882	-4.882	0	%100
42	MP4B	Z	-8.457	-8.457	0	%100
43	MP5B	X	-4.882	-4.882	0	%100
44	MP5B	Z	-8.457	-8.457	0	%100
45	M75	X	-6.923	-6.923	0	%100
46	M75	Z	-11.991	-11.991	0	%100
47	M76	X	-9.422	-9.422	0	%100
48	M76	Z	-16.32	-16.32	0	%100
49	M77	X	-6.923	-6.923	0	%100
50	M77	Z	-11.991	-11.991	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-3.436	-3.436	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-3.436	-3.436	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	-1.171	-1.171	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	-1.171	-1.171	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	-4.683	-4.683	0	%100
13	OVP	X	0	0	0	%100
14	OVP	Z	-3.107	-3.107	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-3.382	-3.382	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	-3.382	-3.382	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,%]
19	MP3A	X	0	0	0	%100
20	MP3A	Z	-3.745	-3.745	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	-3.382	-3.382	0	%100
23	MP5A	X	0	0	0	%100
24	MP5A	Z	-3.382	-3.382	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	-3.382	-3.382	0	%100
27	MP2C	X	0	0	0	%100
28	MP2C	Z	-3.382	-3.382	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	-3.745	-3.745	0	%100
31	MP4C	X	0	0	0	%100
32	MP4C	Z	-3.382	-3.382	0	%100
33	MP5C	X	0	0	0	%100
34	MP5C	Z	-3.382	-3.382	0	%100
35	MP1B	X	0	0	0	%100
36	MP1B	Z	-3.382	-3.382	0	%100
37	MP2B	X	0	0	0	%100
38	MP2B	Z	-3.382	-3.382	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	-3.745	-3.745	0	%100
41	MP4B	X	0	0	0	%100
42	MP4B	Z	-3.382	-3.382	0	%100
43	MP5B	X	0	0	0	%100
44	MP5B	Z	-3.382	-3.382	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-2.747	-2.747	0	%100
47	M76	X	0	0	0	%100
48	M76	Z	-4.426	-4.426	0	%100
49	M77	X	0	0	0	%100
50	M77	Z	-4.426	-4.426	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.573	.573	0	%100
2	M4	Z	-.992	-.992	0	%100
3	M14	X	.573	.573	0	%100
4	M14	Z	-.992	-.992	0	%100
5	M27	X	2.291	2.291	0	%100
6	M27	Z	-3.968	-3.968	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	1.756	1.756	0	%100
10	M41	Z	-3.042	-3.042	0	%100
11	M42	X	1.756	1.756	0	%100
12	M42	Z	-3.042	-3.042	0	%100
13	OVP	X	1.553	1.553	0	%100
14	OVP	Z	-2.691	-2.691	0	%100
15	MP1A	X	1.691	1.691	0	%100
16	MP1A	Z	-2.929	-2.929	0	%100
17	MP2A	X	1.691	1.691	0	%100
18	MP2A	Z	-2.929	-2.929	0	%100
19	MP3A	X	1.873	1.873	0	%100
20	MP3A	Z	-3.244	-3.244	0	%100
21	MP4A	X	1.691	1.691	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
22	MP4A	Z	-2.929	-2.929	0	%100
23	MP5A	X	1.691	1.691	0	%100
24	MP5A	Z	-2.929	-2.929	0	%100
25	MP1C	X	1.691	1.691	0	%100
26	MP1C	Z	-2.929	-2.929	0	%100
27	MP2C	X	1.691	1.691	0	%100
28	MP2C	Z	-2.929	-2.929	0	%100
29	MP3C	X	1.873	1.873	0	%100
30	MP3C	Z	-3.244	-3.244	0	%100
31	MP4C	X	1.691	1.691	0	%100
32	MP4C	Z	-2.929	-2.929	0	%100
33	MP5C	X	1.691	1.691	0	%100
34	MP5C	Z	-2.929	-2.929	0	%100
35	MP1B	X	1.691	1.691	0	%100
36	MP1B	Z	-2.929	-2.929	0	%100
37	MP2B	X	1.691	1.691	0	%100
38	MP2B	Z	-2.929	-2.929	0	%100
39	MP3B	X	1.873	1.873	0	%100
40	MP3B	Z	-3.244	-3.244	0	%100
41	MP4B	X	1.691	1.691	0	%100
42	MP4B	Z	-2.929	-2.929	0	%100
43	MP5B	X	1.691	1.691	0	%100
44	MP5B	Z	-2.929	-2.929	0	%100
45	M75	X	1.653	1.653	0	%100
46	M75	Z	-2.864	-2.864	0	%100
47	M76	X	1.653	1.653	0	%100
48	M76	Z	-2.864	-2.864	0	%100
49	M77	X	2.493	2.493	0	%100
50	M77	Z	-4.317	-4.317	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.976	2.976	0	%100
2	M4	Z	-1.718	-1.718	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	2.976	2.976	0	%100
6	M27	Z	-1.718	-1.718	0	%100
7	M40	X	1.014	1.014	0	%100
8	M40	Z	-.585	-.585	0	%100
9	M41	X	4.056	4.056	0	%100
10	M41	Z	-2.341	-2.341	0	%100
11	M42	X	1.014	1.014	0	%100
12	M42	Z	-.585	-.585	0	%100
13	OVP	X	2.691	2.691	0	%100
14	OVP	Z	-1.553	-1.553	0	%100
15	MP1A	X	2.929	2.929	0	%100
16	MP1A	Z	-1.691	-1.691	0	%100
17	MP2A	X	2.929	2.929	0	%100
18	MP2A	Z	-1.691	-1.691	0	%100
19	MP3A	X	3.244	3.244	0	%100
20	MP3A	Z	-1.873	-1.873	0	%100
21	MP4A	X	2.929	2.929	0	%100
22	MP4A	Z	-1.691	-1.691	0	%100
23	MP5A	X	2.929	2.929	0	%100
24	MP5A	Z	-1.691	-1.691	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,%]
25	MP1C	X	2.929	2.929	0	%100
26	MP1C	Z	-1.691	-1.691	0	%100
27	MP2C	X	2.929	2.929	0	%100
28	MP2C	Z	-1.691	-1.691	0	%100
29	MP3C	X	3.244	3.244	0	%100
30	MP3C	Z	-1.873	-1.873	0	%100
31	MP4C	X	2.929	2.929	0	%100
32	MP4C	Z	-1.691	-1.691	0	%100
33	MP5C	X	2.929	2.929	0	%100
34	MP5C	Z	-1.691	-1.691	0	%100
35	MP1B	X	2.929	2.929	0	%100
36	MP1B	Z	-1.691	-1.691	0	%100
37	MP2B	X	2.929	2.929	0	%100
38	MP2B	Z	-1.691	-1.691	0	%100
39	MP3B	X	3.244	3.244	0	%100
40	MP3B	Z	-1.873	-1.873	0	%100
41	MP4B	X	2.929	2.929	0	%100
42	MP4B	Z	-1.691	-1.691	0	%100
43	MP5B	X	2.929	2.929	0	%100
44	MP5B	Z	-1.691	-1.691	0	%100
45	M75	X	3.833	3.833	0	%100
46	M75	Z	-2.213	-2.213	0	%100
47	M76	X	2.379	2.379	0	%100
48	M76	Z	-1.374	-1.374	0	%100
49	M77	X	3.833	3.833	0	%100
50	M77	Z	-2.213	-2.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	4.581	4.581	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	1.145	1.145	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	1.145	1.145	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	3.512	3.512	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	3.512	3.512	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	OVP	X	3.107	3.107	0	%100
14	OVP	Z	0	0	0	%100
15	MP1A	X	3.382	3.382	0	%100
16	MP1A	Z	0	0	0	%100
17	MP2A	X	3.382	3.382	0	%100
18	MP2A	Z	0	0	0	%100
19	MP3A	X	3.745	3.745	0	%100
20	MP3A	Z	0	0	0	%100
21	MP4A	X	3.382	3.382	0	%100
22	MP4A	Z	0	0	0	%100
23	MP5A	X	3.382	3.382	0	%100
24	MP5A	Z	0	0	0	%100
25	MP1C	X	3.382	3.382	0	%100
26	MP1C	Z	0	0	0	%100
27	MP2C	X	3.382	3.382	0	%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,%]
28	MP2C	Z	0	0	0	%100
29	MP3C	X	3.745	3.745	0	%100
30	MP3C	Z	0	0	0	%100
31	MP4C	X	3.382	3.382	0	%100
32	MP4C	Z	0	0	0	%100
33	MP5C	X	3.382	3.382	0	%100
34	MP5C	Z	0	0	0	%100
35	MP1B	X	3.382	3.382	0	%100
36	MP1B	Z	0	0	0	%100
37	MP2B	X	3.382	3.382	0	%100
38	MP2B	Z	0	0	0	%100
39	MP3B	X	3.745	3.745	0	%100
40	MP3B	Z	0	0	0	%100
41	MP4B	X	3.382	3.382	0	%100
42	MP4B	Z	0	0	0	%100
43	MP5B	X	3.382	3.382	0	%100
44	MP5B	Z	0	0	0	%100
45	M75	X	4.985	4.985	0	%100
46	M75	Z	0	0	0	%100
47	M76	X	3.307	3.307	0	%100
48	M76	Z	0	0	0	%100
49	M77	X	3.307	3.307	0	%100
50	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	2.976	2.976	0	%100
2	M4	Z	1.718	1.718	0	%100
3	M14	X	2.976	2.976	0	%100
4	M14	Z	1.718	1.718	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	4.056	4.056	0	%100
8	M40	Z	2.341	2.341	0	%100
9	M41	X	1.014	1.014	0	%100
10	M41	Z	.585	.585	0	%100
11	M42	X	1.014	1.014	0	%100
12	M42	Z	.585	.585	0	%100
13	OVP	X	2.691	2.691	0	%100
14	OVP	Z	1.553	1.553	0	%100
15	MP1A	X	2.929	2.929	0	%100
16	MP1A	Z	1.691	1.691	0	%100
17	MP2A	X	2.929	2.929	0	%100
18	MP2A	Z	1.691	1.691	0	%100
19	MP3A	X	3.244	3.244	0	%100
20	MP3A	Z	1.873	1.873	0	%100
21	MP4A	X	2.929	2.929	0	%100
22	MP4A	Z	1.691	1.691	0	%100
23	MP5A	X	2.929	2.929	0	%100
24	MP5A	Z	1.691	1.691	0	%100
25	MP1C	X	2.929	2.929	0	%100
26	MP1C	Z	1.691	1.691	0	%100
27	MP2C	X	2.929	2.929	0	%100
28	MP2C	Z	1.691	1.691	0	%100
29	MP3C	X	3.244	3.244	0	%100
30	MP3C	Z	1.873	1.873	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,%]
31	MP4C	X	2.929	2.929	0	%100
32	MP4C	Z	1.691	1.691	0	%100
33	MP5C	X	2.929	2.929	0	%100
34	MP5C	Z	1.691	1.691	0	%100
35	MP1B	X	2.929	2.929	0	%100
36	MP1B	Z	1.691	1.691	0	%100
37	MP2B	X	2.929	2.929	0	%100
38	MP2B	Z	1.691	1.691	0	%100
39	MP3B	X	3.244	3.244	0	%100
40	MP3B	Z	1.873	1.873	0	%100
41	MP4B	X	2.929	2.929	0	%100
42	MP4B	Z	1.691	1.691	0	%100
43	MP5B	X	2.929	2.929	0	%100
44	MP5B	Z	1.691	1.691	0	%100
45	M75	X	3.833	3.833	0	%100
46	M75	Z	2.213	2.213	0	%100
47	M76	X	3.833	3.833	0	%100
48	M76	Z	2.213	2.213	0	%100
49	M77	X	2.379	2.379	0	%100
50	M77	Z	1.374	1.374	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.573	.573	0	%100
2	M4	Z	.992	.992	0	%100
3	M14	X	2.291	2.291	0	%100
4	M14	Z	3.968	3.968	0	%100
5	M27	X	.573	.573	0	%100
6	M27	Z	.992	.992	0	%100
7	M40	X	1.756	1.756	0	%100
8	M40	Z	3.042	3.042	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	1.756	1.756	0	%100
12	M42	Z	3.042	3.042	0	%100
13	OVP	X	1.553	1.553	0	%100
14	OVP	Z	2.691	2.691	0	%100
15	MP1A	X	1.691	1.691	0	%100
16	MP1A	Z	2.929	2.929	0	%100
17	MP2A	X	1.691	1.691	0	%100
18	MP2A	Z	2.929	2.929	0	%100
19	MP3A	X	1.873	1.873	0	%100
20	MP3A	Z	3.244	3.244	0	%100
21	MP4A	X	1.691	1.691	0	%100
22	MP4A	Z	2.929	2.929	0	%100
23	MP5A	X	1.691	1.691	0	%100
24	MP5A	Z	2.929	2.929	0	%100
25	MP1C	X	1.691	1.691	0	%100
26	MP1C	Z	2.929	2.929	0	%100
27	MP2C	X	1.691	1.691	0	%100
28	MP2C	Z	2.929	2.929	0	%100
29	MP3C	X	1.873	1.873	0	%100
30	MP3C	Z	3.244	3.244	0	%100
31	MP4C	X	1.691	1.691	0	%100
32	MP4C	Z	2.929	2.929	0	%100
33	MP5C	X	1.691	1.691	0	%100

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,%]
34	MP5C	Z	2.929	2.929	0	%100
35	MP1B	X	1.691	1.691	0	%100
36	MP1B	Z	2.929	2.929	0	%100
37	MP2B	X	1.691	1.691	0	%100
38	MP2B	Z	2.929	2.929	0	%100
39	MP3B	X	1.873	1.873	0	%100
40	MP3B	Z	3.244	3.244	0	%100
41	MP4B	X	1.691	1.691	0	%100
42	MP4B	Z	2.929	2.929	0	%100
43	MP5B	X	1.691	1.691	0	%100
44	MP5B	Z	2.929	2.929	0	%100
45	M75	X	1.653	1.653	0	%100
46	M75	Z	2.864	2.864	0	%100
47	M76	X	2.493	2.493	0	%100
48	M76	Z	4.317	4.317	0	%100
49	M77	X	1.653	1.653	0	%100
50	M77	Z	2.864	2.864	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	3.436	3.436	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	3.436	3.436	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	1.171	1.171	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	1.171	1.171	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	4.683	4.683	0	%100
13	OVP	X	0	0	0	%100
14	OVP	Z	3.107	3.107	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	3.382	3.382	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	3.382	3.382	0	%100
19	MP3A	X	0	0	0	%100
20	MP3A	Z	3.745	3.745	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	3.382	3.382	0	%100
23	MP5A	X	0	0	0	%100
24	MP5A	Z	3.382	3.382	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	3.382	3.382	0	%100
27	MP2C	X	0	0	0	%100
28	MP2C	Z	3.382	3.382	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	3.745	3.745	0	%100
31	MP4C	X	0	0	0	%100
32	MP4C	Z	3.382	3.382	0	%100
33	MP5C	X	0	0	0	%100
34	MP5C	Z	3.382	3.382	0	%100
35	MP1B	X	0	0	0	%100
36	MP1B	Z	3.382	3.382	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,%]
37	MP2B	X	0	0	0	%100
38	MP2B	Z	3.382	3.382	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	3.745	3.745	0	%100
41	MP4B	X	0	0	0	%100
42	MP4B	Z	3.382	3.382	0	%100
43	MP5B	X	0	0	0	%100
44	MP5B	Z	3.382	3.382	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	2.747	2.747	0	%100
47	M76	X	0	0	0	%100
48	M76	Z	4.426	4.426	0	%100
49	M77	X	0	0	0	%100
50	M77	Z	4.426	4.426	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.573	-.573	0	%100
2	M4	Z	.992	.992	0	%100
3	M14	X	-.573	-.573	0	%100
4	M14	Z	.992	.992	0	%100
5	M27	X	-2.291	-2.291	0	%100
6	M27	Z	3.968	3.968	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-1.756	-1.756	0	%100
10	M41	Z	3.042	3.042	0	%100
11	M42	X	-1.756	-1.756	0	%100
12	M42	Z	3.042	3.042	0	%100
13	OVP	X	-1.553	-1.553	0	%100
14	OVP	Z	2.691	2.691	0	%100
15	MP1A	X	-1.691	-1.691	0	%100
16	MP1A	Z	2.929	2.929	0	%100
17	MP2A	X	-1.691	-1.691	0	%100
18	MP2A	Z	2.929	2.929	0	%100
19	MP3A	X	-1.873	-1.873	0	%100
20	MP3A	Z	3.244	3.244	0	%100
21	MP4A	X	-1.691	-1.691	0	%100
22	MP4A	Z	2.929	2.929	0	%100
23	MP5A	X	-1.691	-1.691	0	%100
24	MP5A	Z	2.929	2.929	0	%100
25	MP1C	X	-1.691	-1.691	0	%100
26	MP1C	Z	2.929	2.929	0	%100
27	MP2C	X	-1.691	-1.691	0	%100
28	MP2C	Z	2.929	2.929	0	%100
29	MP3C	X	-1.873	-1.873	0	%100
30	MP3C	Z	3.244	3.244	0	%100
31	MP4C	X	-1.691	-1.691	0	%100
32	MP4C	Z	2.929	2.929	0	%100
33	MP5C	X	-1.691	-1.691	0	%100
34	MP5C	Z	2.929	2.929	0	%100
35	MP1B	X	-1.691	-1.691	0	%100
36	MP1B	Z	2.929	2.929	0	%100
37	MP2B	X	-1.691	-1.691	0	%100
38	MP2B	Z	2.929	2.929	0	%100
39	MP3B	X	-1.873	-1.873	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,%]
40	MP3B	Z	3.244	3.244	0	%100
41	MP4B	X	-1.691	-1.691	0	%100
42	MP4B	Z	2.929	2.929	0	%100
43	MP5B	X	-1.691	-1.691	0	%100
44	MP5B	Z	2.929	2.929	0	%100
45	M75	X	-1.653	-1.653	0	%100
46	M75	Z	2.864	2.864	0	%100
47	M76	X	-1.653	-1.653	0	%100
48	M76	Z	2.864	2.864	0	%100
49	M77	X	-2.493	-2.493	0	%100
50	M77	Z	4.317	4.317	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-2.976	-2.976	0	%100
2	M4	Z	1.718	1.718	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-2.976	-2.976	0	%100
6	M27	Z	1.718	1.718	0	%100
7	M40	X	-1.014	-1.014	0	%100
8	M40	Z	.585	.585	0	%100
9	M41	X	-4.056	-4.056	0	%100
10	M41	Z	2.341	2.341	0	%100
11	M42	X	-1.014	-1.014	0	%100
12	M42	Z	.585	.585	0	%100
13	OVP	X	-2.691	-2.691	0	%100
14	OVP	Z	1.553	1.553	0	%100
15	MP1A	X	-2.929	-2.929	0	%100
16	MP1A	Z	1.691	1.691	0	%100
17	MP2A	X	-2.929	-2.929	0	%100
18	MP2A	Z	1.691	1.691	0	%100
19	MP3A	X	-3.244	-3.244	0	%100
20	MP3A	Z	1.873	1.873	0	%100
21	MP4A	X	-2.929	-2.929	0	%100
22	MP4A	Z	1.691	1.691	0	%100
23	MP5A	X	-2.929	-2.929	0	%100
24	MP5A	Z	1.691	1.691	0	%100
25	MP1C	X	-2.929	-2.929	0	%100
26	MP1C	Z	1.691	1.691	0	%100
27	MP2C	X	-2.929	-2.929	0	%100
28	MP2C	Z	1.691	1.691	0	%100
29	MP3C	X	-3.244	-3.244	0	%100
30	MP3C	Z	1.873	1.873	0	%100
31	MP4C	X	-2.929	-2.929	0	%100
32	MP4C	Z	1.691	1.691	0	%100
33	MP5C	X	-2.929	-2.929	0	%100
34	MP5C	Z	1.691	1.691	0	%100
35	MP1B	X	-2.929	-2.929	0	%100
36	MP1B	Z	1.691	1.691	0	%100
37	MP2B	X	-2.929	-2.929	0	%100
38	MP2B	Z	1.691	1.691	0	%100
39	MP3B	X	-3.244	-3.244	0	%100
40	MP3B	Z	1.873	1.873	0	%100
41	MP4B	X	-2.929	-2.929	0	%100
42	MP4B	Z	1.691	1.691	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
43	MP5B	X	-2.929	-2.929	0	%100
44	MP5B	Z	1.691	1.691	0	%100
45	M75	X	-3.833	-3.833	0	%100
46	M75	Z	2.213	2.213	0	%100
47	M76	X	-2.379	-2.379	0	%100
48	M76	Z	1.374	1.374	0	%100
49	M77	X	-3.833	-3.833	0	%100
50	M77	Z	2.213	2.213	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-4.581	-4.581	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-1.145	-1.145	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-1.145	-1.145	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-3.512	-3.512	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-3.512	-3.512	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	OVP	X	-3.107	-3.107	0	%100
14	OVP	Z	0	0	0	%100
15	MP1A	X	-3.382	-3.382	0	%100
16	MP1A	Z	0	0	0	%100
17	MP2A	X	-3.382	-3.382	0	%100
18	MP2A	Z	0	0	0	%100
19	MP3A	X	-3.745	-3.745	0	%100
20	MP3A	Z	0	0	0	%100
21	MP4A	X	-3.382	-3.382	0	%100
22	MP4A	Z	0	0	0	%100
23	MP5A	X	-3.382	-3.382	0	%100
24	MP5A	Z	0	0	0	%100
25	MP1C	X	-3.382	-3.382	0	%100
26	MP1C	Z	0	0	0	%100
27	MP2C	X	-3.382	-3.382	0	%100
28	MP2C	Z	0	0	0	%100
29	MP3C	X	-3.745	-3.745	0	%100
30	MP3C	Z	0	0	0	%100
31	MP4C	X	-3.382	-3.382	0	%100
32	MP4C	Z	0	0	0	%100
33	MP5C	X	-3.382	-3.382	0	%100
34	MP5C	Z	0	0	0	%100
35	MP1B	X	-3.382	-3.382	0	%100
36	MP1B	Z	0	0	0	%100
37	MP2B	X	-3.382	-3.382	0	%100
38	MP2B	Z	0	0	0	%100
39	MP3B	X	-3.745	-3.745	0	%100
40	MP3B	Z	0	0	0	%100
41	MP4B	X	-3.382	-3.382	0	%100
42	MP4B	Z	0	0	0	%100
43	MP5B	X	-3.382	-3.382	0	%100
44	MP5B	Z	0	0	0	%100
45	M75	X	-4.985	-4.985	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
46	M75	Z	0	0	0	%100
47	M76	X	-3.307	-3.307	0	%100
48	M76	Z	0	0	0	%100
49	M77	X	-3.307	-3.307	0	%100
50	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-2.976	-2.976	0	%100
2	M4	Z	-1.718	-1.718	0	%100
3	M14	X	-2.976	-2.976	0	%100
4	M14	Z	-1.718	-1.718	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-4.056	-4.056	0	%100
8	M40	Z	-2.341	-2.341	0	%100
9	M41	X	-1.014	-1.014	0	%100
10	M41	Z	-.585	-.585	0	%100
11	M42	X	-1.014	-1.014	0	%100
12	M42	Z	-.585	-.585	0	%100
13	OVP	X	-2.691	-2.691	0	%100
14	OVP	Z	-1.553	-1.553	0	%100
15	MP1A	X	-2.929	-2.929	0	%100
16	MP1A	Z	-1.691	-1.691	0	%100
17	MP2A	X	-2.929	-2.929	0	%100
18	MP2A	Z	-1.691	-1.691	0	%100
19	MP3A	X	-3.244	-3.244	0	%100
20	MP3A	Z	-1.873	-1.873	0	%100
21	MP4A	X	-2.929	-2.929	0	%100
22	MP4A	Z	-1.691	-1.691	0	%100
23	MP5A	X	-2.929	-2.929	0	%100
24	MP5A	Z	-1.691	-1.691	0	%100
25	MP1C	X	-2.929	-2.929	0	%100
26	MP1C	Z	-1.691	-1.691	0	%100
27	MP2C	X	-2.929	-2.929	0	%100
28	MP2C	Z	-1.691	-1.691	0	%100
29	MP3C	X	-3.244	-3.244	0	%100
30	MP3C	Z	-1.873	-1.873	0	%100
31	MP4C	X	-2.929	-2.929	0	%100
32	MP4C	Z	-1.691	-1.691	0	%100
33	MP5C	X	-2.929	-2.929	0	%100
34	MP5C	Z	-1.691	-1.691	0	%100
35	MP1B	X	-2.929	-2.929	0	%100
36	MP1B	Z	-1.691	-1.691	0	%100
37	MP2B	X	-2.929	-2.929	0	%100
38	MP2B	Z	-1.691	-1.691	0	%100
39	MP3B	X	-3.244	-3.244	0	%100
40	MP3B	Z	-1.873	-1.873	0	%100
41	MP4B	X	-2.929	-2.929	0	%100
42	MP4B	Z	-1.691	-1.691	0	%100
43	MP5B	X	-2.929	-2.929	0	%100
44	MP5B	Z	-1.691	-1.691	0	%100
45	M75	X	-3.833	-3.833	0	%100
46	M75	Z	-2.213	-2.213	0	%100
47	M76	X	-3.833	-3.833	0	%100
48	M76	Z	-2.213	-2.213	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,%]
49	M77	X	-2.379	-2.379	0	%100
50	M77	Z	-1.374	-1.374	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.573	-.573	0	%100
2	M4	Z	-.992	-.992	0	%100
3	M14	X	-2.291	-2.291	0	%100
4	M14	Z	-3.968	-3.968	0	%100
5	M27	X	-.573	-.573	0	%100
6	M27	Z	-.992	-.992	0	%100
7	M40	X	-1.756	-1.756	0	%100
8	M40	Z	-3.042	-3.042	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	-1.756	-1.756	0	%100
12	M42	Z	-3.042	-3.042	0	%100
13	OVP	X	-1.553	-1.553	0	%100
14	OVP	Z	-2.691	-2.691	0	%100
15	MP1A	X	-1.691	-1.691	0	%100
16	MP1A	Z	-2.929	-2.929	0	%100
17	MP2A	X	-1.691	-1.691	0	%100
18	MP2A	Z	-2.929	-2.929	0	%100
19	MP3A	X	-1.873	-1.873	0	%100
20	MP3A	Z	-3.244	-3.244	0	%100
21	MP4A	X	-1.691	-1.691	0	%100
22	MP4A	Z	-2.929	-2.929	0	%100
23	MP5A	X	-1.691	-1.691	0	%100
24	MP5A	Z	-2.929	-2.929	0	%100
25	MP1C	X	-1.691	-1.691	0	%100
26	MP1C	Z	-2.929	-2.929	0	%100
27	MP2C	X	-1.691	-1.691	0	%100
28	MP2C	Z	-2.929	-2.929	0	%100
29	MP3C	X	-1.873	-1.873	0	%100
30	MP3C	Z	-3.244	-3.244	0	%100
31	MP4C	X	-1.691	-1.691	0	%100
32	MP4C	Z	-2.929	-2.929	0	%100
33	MP5C	X	-1.691	-1.691	0	%100
34	MP5C	Z	-2.929	-2.929	0	%100
35	MP1B	X	-1.691	-1.691	0	%100
36	MP1B	Z	-2.929	-2.929	0	%100
37	MP2B	X	-1.691	-1.691	0	%100
38	MP2B	Z	-2.929	-2.929	0	%100
39	MP3B	X	-1.873	-1.873	0	%100
40	MP3B	Z	-3.244	-3.244	0	%100
41	MP4B	X	-1.691	-1.691	0	%100
42	MP4B	Z	-2.929	-2.929	0	%100
43	MP5B	X	-1.691	-1.691	0	%100
44	MP5B	Z	-2.929	-2.929	0	%100
45	M75	X	-1.653	-1.653	0	%100
46	M75	Z	-2.864	-2.864	0	%100
47	M76	X	-2.493	-2.493	0	%100
48	M76	Z	-4.317	-4.317	0	%100
49	M77	X	-1.653	-1.653	0	%100
50	M77	Z	-2.864	-2.864	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	-.789	-.789	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	-.789	-.789	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	-.272	-.272	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	-.272	-.272	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	-1.089	-1.089	0	%100
13	OVP	X	0	0	0	%100
14	OVP	Z	-.566	-.566	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	-.621	-.621	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	-.621	-.621	0	%100
19	MP3A	X	0	0	0	%100
20	MP3A	Z	-.751	-.751	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	-.621	-.621	0	%100
23	MP5A	X	0	0	0	%100
24	MP5A	Z	-.621	-.621	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	-.621	-.621	0	%100
27	MP2C	X	0	0	0	%100
28	MP2C	Z	-.621	-.621	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	-.751	-.751	0	%100
31	MP4C	X	0	0	0	%100
32	MP4C	Z	-.621	-.621	0	%100
33	MP5C	X	0	0	0	%100
34	MP5C	Z	-.621	-.621	0	%100
35	MP1B	X	0	0	0	%100
36	MP1B	Z	-.621	-.621	0	%100
37	MP2B	X	0	0	0	%100
38	MP2B	Z	-.621	-.621	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	-.751	-.751	0	%100
41	MP4B	X	0	0	0	%100
42	MP4B	Z	-.621	-.621	0	%100
43	MP5B	X	0	0	0	%100
44	MP5B	Z	-.621	-.621	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	-.774	-.774	0	%100
47	M76	X	0	0	0	%100
48	M76	Z	-1.092	-1.092	0	%100
49	M77	X	0	0	0	%100
50	M77	Z	-1.092	-1.092	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.132	.132	0	%100
2	M4	Z	-.228	-.228	0	%100
3	M14	X	.132	.132	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
4	M14	Z	-.228	-.228	0	%100
5	M27	X	.526	.526	0	%100
6	M27	Z	-.911	-.911	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	.408	.408	0	%100
10	M41	Z	-.707	-.707	0	%100
11	M42	X	.408	.408	0	%100
12	M42	Z	-.707	-.707	0	%100
13	OVP	X	.283	.283	0	%100
14	OVP	Z	-.49	-.49	0	%100
15	MP1A	X	.31	.31	0	%100
16	MP1A	Z	-.537	-.537	0	%100
17	MP2A	X	.31	.31	0	%100
18	MP2A	Z	-.537	-.537	0	%100
19	MP3A	X	.376	.376	0	%100
20	MP3A	Z	-.651	-.651	0	%100
21	MP4A	X	.31	.31	0	%100
22	MP4A	Z	-.537	-.537	0	%100
23	MP5A	X	.31	.31	0	%100
24	MP5A	Z	-.537	-.537	0	%100
25	MP1C	X	.31	.31	0	%100
26	MP1C	Z	-.537	-.537	0	%100
27	MP2C	X	.31	.31	0	%100
28	MP2C	Z	-.537	-.537	0	%100
29	MP3C	X	.376	.376	0	%100
30	MP3C	Z	-.651	-.651	0	%100
31	MP4C	X	.31	.31	0	%100
32	MP4C	Z	-.537	-.537	0	%100
33	MP5C	X	.31	.31	0	%100
34	MP5C	Z	-.537	-.537	0	%100
35	MP1B	X	.31	.31	0	%100
36	MP1B	Z	-.537	-.537	0	%100
37	MP2B	X	.31	.31	0	%100
38	MP2B	Z	-.537	-.537	0	%100
39	MP3B	X	.376	.376	0	%100
40	MP3B	Z	-.651	-.651	0	%100
41	MP4B	X	.31	.31	0	%100
42	MP4B	Z	-.537	-.537	0	%100
43	MP5B	X	.31	.31	0	%100
44	MP5B	Z	-.537	-.537	0	%100
45	M75	X	.44	.44	0	%100
46	M75	Z	-.762	-.762	0	%100
47	M76	X	.44	.44	0	%100
48	M76	Z	-.762	-.762	0	%100
49	M77	X	.599	.599	0	%100
50	M77	Z	-1.037	-1.037	0	%100

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	M4	X	.683	.683	0	%100
2	M4	Z	-.395	-.395	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.683	.683	0	%100
6	M27	Z	-.395	-.395	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,%]
7	M40	X	.236	.236	0	%100
8	M40	Z	-.136	-.136	0	%100
9	M41	X	.943	.943	0	%100
10	M41	Z	-.544	-.544	0	%100
11	M42	X	.236	.236	0	%100
12	M42	Z	-.136	-.136	0	%100
13	OVP	X	.49	.49	0	%100
14	OVP	Z	-.283	-.283	0	%100
15	MP1A	X	.537	.537	0	%100
16	MP1A	Z	-.31	-.31	0	%100
17	MP2A	X	.537	.537	0	%100
18	MP2A	Z	-.31	-.31	0	%100
19	MP3A	X	.651	.651	0	%100
20	MP3A	Z	-.376	-.376	0	%100
21	MP4A	X	.537	.537	0	%100
22	MP4A	Z	-.31	-.31	0	%100
23	MP5A	X	.537	.537	0	%100
24	MP5A	Z	-.31	-.31	0	%100
25	MP1C	X	.537	.537	0	%100
26	MP1C	Z	-.31	-.31	0	%100
27	MP2C	X	.537	.537	0	%100
28	MP2C	Z	-.31	-.31	0	%100
29	MP3C	X	.651	.651	0	%100
30	MP3C	Z	-.376	-.376	0	%100
31	MP4C	X	.537	.537	0	%100
32	MP4C	Z	-.31	-.31	0	%100
33	MP5C	X	.537	.537	0	%100
34	MP5C	Z	-.31	-.31	0	%100
35	MP1B	X	.537	.537	0	%100
36	MP1B	Z	-.31	-.31	0	%100
37	MP2B	X	.537	.537	0	%100
38	MP2B	Z	-.31	-.31	0	%100
39	MP3B	X	.651	.651	0	%100
40	MP3B	Z	-.376	-.376	0	%100
41	MP4B	X	.537	.537	0	%100
42	MP4B	Z	-.31	-.31	0	%100
43	MP5B	X	.537	.537	0	%100
44	MP5B	Z	-.31	-.31	0	%100
45	M75	X	.946	.946	0	%100
46	M75	Z	-.546	-.546	0	%100
47	M76	X	.67	.67	0	%100
48	M76	Z	-.387	-.387	0	%100
49	M77	X	.946	.946	0	%100
50	M77	Z	-.546	-.546	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	1.052	1.052	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	.263	.263	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	.263	.263	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	.817	.817	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	.817	.817	0	%100

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,%]
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	OVP	X	.566	.566	0	%100
14	OVP	Z	0	0	0	%100
15	MP1A	X	.621	.621	0	%100
16	MP1A	Z	0	0	0	%100
17	MP2A	X	.621	.621	0	%100
18	MP2A	Z	0	0	0	%100
19	MP3A	X	.751	.751	0	%100
20	MP3A	Z	0	0	0	%100
21	MP4A	X	.621	.621	0	%100
22	MP4A	Z	0	0	0	%100
23	MP5A	X	.621	.621	0	%100
24	MP5A	Z	0	0	0	%100
25	MP1C	X	.621	.621	0	%100
26	MP1C	Z	0	0	0	%100
27	MP2C	X	.621	.621	0	%100
28	MP2C	Z	0	0	0	%100
29	MP3C	X	.751	.751	0	%100
30	MP3C	Z	0	0	0	%100
31	MP4C	X	.621	.621	0	%100
32	MP4C	Z	0	0	0	%100
33	MP5C	X	.621	.621	0	%100
34	MP5C	Z	0	0	0	%100
35	MP1B	X	.621	.621	0	%100
36	MP1B	Z	0	0	0	%100
37	MP2B	X	.621	.621	0	%100
38	MP2B	Z	0	0	0	%100
39	MP3B	X	.751	.751	0	%100
40	MP3B	Z	0	0	0	%100
41	MP4B	X	.621	.621	0	%100
42	MP4B	Z	0	0	0	%100
43	MP5B	X	.621	.621	0	%100
44	MP5B	Z	0	0	0	%100
45	M75	X	1.198	1.198	0	%100
46	M75	Z	0	0	0	%100
47	M76	X	.88	.88	0	%100
48	M76	Z	0	0	0	%100
49	M77	X	.88	.88	0	%100
50	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.683	.683	0	%100
2	M4	Z	.395	.395	0	%100
3	M14	X	.683	.683	0	%100
4	M14	Z	.395	.395	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	.943	.943	0	%100
8	M40	Z	.544	.544	0	%100
9	M41	X	.236	.236	0	%100
10	M41	Z	.136	.136	0	%100
11	M42	X	.236	.236	0	%100
12	M42	Z	.136	.136	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
13	OVP	X	.49	.49	0	%100
14	OVP	Z	.283	.283	0	%100
15	MP1A	X	.537	.537	0	%100
16	MP1A	Z	.31	.31	0	%100
17	MP2A	X	.537	.537	0	%100
18	MP2A	Z	.31	.31	0	%100
19	MP3A	X	.651	.651	0	%100
20	MP3A	Z	.376	.376	0	%100
21	MP4A	X	.537	.537	0	%100
22	MP4A	Z	.31	.31	0	%100
23	MP5A	X	.537	.537	0	%100
24	MP5A	Z	.31	.31	0	%100
25	MP1C	X	.537	.537	0	%100
26	MP1C	Z	.31	.31	0	%100
27	MP2C	X	.537	.537	0	%100
28	MP2C	Z	.31	.31	0	%100
29	MP3C	X	.651	.651	0	%100
30	MP3C	Z	.376	.376	0	%100
31	MP4C	X	.537	.537	0	%100
32	MP4C	Z	.31	.31	0	%100
33	MP5C	X	.537	.537	0	%100
34	MP5C	Z	.31	.31	0	%100
35	MP1B	X	.537	.537	0	%100
36	MP1B	Z	.31	.31	0	%100
37	MP2B	X	.537	.537	0	%100
38	MP2B	Z	.31	.31	0	%100
39	MP3B	X	.651	.651	0	%100
40	MP3B	Z	.376	.376	0	%100
41	MP4B	X	.537	.537	0	%100
42	MP4B	Z	.31	.31	0	%100
43	MP5B	X	.537	.537	0	%100
44	MP5B	Z	.31	.31	0	%100
45	M75	X	.946	.946	0	%100
46	M75	Z	.546	.546	0	%100
47	M76	X	.946	.946	0	%100
48	M76	Z	.546	.546	0	%100
49	M77	X	.67	.67	0	%100
50	M77	Z	.387	.387	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	.132	.132	0	%100
2	M4	Z	.228	.228	0	%100
3	M14	X	.526	.526	0	%100
4	M14	Z	.911	.911	0	%100
5	M27	X	.132	.132	0	%100
6	M27	Z	.228	.228	0	%100
7	M40	X	.408	.408	0	%100
8	M40	Z	.707	.707	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	.408	.408	0	%100
12	M42	Z	.707	.707	0	%100
13	OVP	X	.283	.283	0	%100
14	OVP	Z	.49	.49	0	%100
15	MP1A	X	.31	.31	0	%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,%]
16	MP1A	Z	.537	.537	0	%100
17	MP2A	X	.31	.31	0	%100
18	MP2A	Z	.537	.537	0	%100
19	MP3A	X	.376	.376	0	%100
20	MP3A	Z	.651	.651	0	%100
21	MP4A	X	.31	.31	0	%100
22	MP4A	Z	.537	.537	0	%100
23	MP5A	X	.31	.31	0	%100
24	MP5A	Z	.537	.537	0	%100
25	MP1C	X	.31	.31	0	%100
26	MP1C	Z	.537	.537	0	%100
27	MP2C	X	.31	.31	0	%100
28	MP2C	Z	.537	.537	0	%100
29	MP3C	X	.376	.376	0	%100
30	MP3C	Z	.651	.651	0	%100
31	MP4C	X	.31	.31	0	%100
32	MP4C	Z	.537	.537	0	%100
33	MP5C	X	.31	.31	0	%100
34	MP5C	Z	.537	.537	0	%100
35	MP1B	X	.31	.31	0	%100
36	MP1B	Z	.537	.537	0	%100
37	MP2B	X	.31	.31	0	%100
38	MP2B	Z	.537	.537	0	%100
39	MP3B	X	.376	.376	0	%100
40	MP3B	Z	.651	.651	0	%100
41	MP4B	X	.31	.31	0	%100
42	MP4B	Z	.537	.537	0	%100
43	MP5B	X	.31	.31	0	%100
44	MP5B	Z	.537	.537	0	%100
45	M75	X	.44	.44	0	%100
46	M75	Z	.762	.762	0	%100
47	M76	X	.599	.599	0	%100
48	M76	Z	1.037	1.037	0	%100
49	M77	X	.44	.44	0	%100
50	M77	Z	.762	.762	0	%100

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	M4	X	0	0	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	.789	.789	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	.789	.789	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	.272	.272	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	.272	.272	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	1.089	1.089	0	%100
13	OVP	X	0	0	0	%100
14	OVP	Z	.566	.566	0	%100
15	MP1A	X	0	0	0	%100
16	MP1A	Z	.621	.621	0	%100
17	MP2A	X	0	0	0	%100
18	MP2A	Z	.621	.621	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,%]
19	MP3A	X	0	0	0	%100
20	MP3A	Z	.751	.751	0	%100
21	MP4A	X	0	0	0	%100
22	MP4A	Z	.621	.621	0	%100
23	MP5A	X	0	0	0	%100
24	MP5A	Z	.621	.621	0	%100
25	MP1C	X	0	0	0	%100
26	MP1C	Z	.621	.621	0	%100
27	MP2C	X	0	0	0	%100
28	MP2C	Z	.621	.621	0	%100
29	MP3C	X	0	0	0	%100
30	MP3C	Z	.751	.751	0	%100
31	MP4C	X	0	0	0	%100
32	MP4C	Z	.621	.621	0	%100
33	MP5C	X	0	0	0	%100
34	MP5C	Z	.621	.621	0	%100
35	MP1B	X	0	0	0	%100
36	MP1B	Z	.621	.621	0	%100
37	MP2B	X	0	0	0	%100
38	MP2B	Z	.621	.621	0	%100
39	MP3B	X	0	0	0	%100
40	MP3B	Z	.751	.751	0	%100
41	MP4B	X	0	0	0	%100
42	MP4B	Z	.621	.621	0	%100
43	MP5B	X	0	0	0	%100
44	MP5B	Z	.621	.621	0	%100
45	M75	X	0	0	0	%100
46	M75	Z	.774	.774	0	%100
47	M76	X	0	0	0	%100
48	M76	Z	1.092	1.092	0	%100
49	M77	X	0	0	0	%100
50	M77	Z	1.092	1.092	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.132	-.132	0	%100
2	M4	Z	.228	.228	0	%100
3	M14	X	-.132	-.132	0	%100
4	M14	Z	.228	.228	0	%100
5	M27	X	-.526	-.526	0	%100
6	M27	Z	.911	.911	0	%100
7	M40	X	0	0	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-.408	-.408	0	%100
10	M41	Z	.707	.707	0	%100
11	M42	X	-.408	-.408	0	%100
12	M42	Z	.707	.707	0	%100
13	OVP	X	-.283	-.283	0	%100
14	OVP	Z	.49	.49	0	%100
15	MP1A	X	-.31	-.31	0	%100
16	MP1A	Z	.537	.537	0	%100
17	MP2A	X	-.31	-.31	0	%100
18	MP2A	Z	.537	.537	0	%100
19	MP3A	X	-.376	-.376	0	%100
20	MP3A	Z	.651	.651	0	%100
21	MP4A	X	-.31	-.31	0	%100

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,%]
22	MP4A	Z	.537	.537	0	%100
23	MP5A	X	-.31	-.31	0	%100
24	MP5A	Z	.537	.537	0	%100
25	MP1C	X	-.31	-.31	0	%100
26	MP1C	Z	.537	.537	0	%100
27	MP2C	X	-.31	-.31	0	%100
28	MP2C	Z	.537	.537	0	%100
29	MP3C	X	-.376	-.376	0	%100
30	MP3C	Z	.651	.651	0	%100
31	MP4C	X	-.31	-.31	0	%100
32	MP4C	Z	.537	.537	0	%100
33	MP5C	X	-.31	-.31	0	%100
34	MP5C	Z	.537	.537	0	%100
35	MP1B	X	-.31	-.31	0	%100
36	MP1B	Z	.537	.537	0	%100
37	MP2B	X	-.31	-.31	0	%100
38	MP2B	Z	.537	.537	0	%100
39	MP3B	X	-.376	-.376	0	%100
40	MP3B	Z	.651	.651	0	%100
41	MP4B	X	-.31	-.31	0	%100
42	MP4B	Z	.537	.537	0	%100
43	MP5B	X	-.31	-.31	0	%100
44	MP5B	Z	.537	.537	0	%100
45	M75	X	-.44	-.44	0	%100
46	M75	Z	.762	.762	0	%100
47	M76	X	-.44	-.44	0	%100
48	M76	Z	.762	.762	0	%100
49	M77	X	-.599	-.599	0	%100
50	M77	Z	1.037	1.037	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.683	-.683	0	%100
2	M4	Z	.395	.395	0	%100
3	M14	X	0	0	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.683	-.683	0	%100
6	M27	Z	.395	.395	0	%100
7	M40	X	-.236	-.236	0	%100
8	M40	Z	.136	.136	0	%100
9	M41	X	-.943	-.943	0	%100
10	M41	Z	.544	.544	0	%100
11	M42	X	-.236	-.236	0	%100
12	M42	Z	.136	.136	0	%100
13	OVP	X	-.49	-.49	0	%100
14	OVP	Z	.283	.283	0	%100
15	MP1A	X	-.537	-.537	0	%100
16	MP1A	Z	.31	.31	0	%100
17	MP2A	X	-.537	-.537	0	%100
18	MP2A	Z	.31	.31	0	%100
19	MP3A	X	-.651	-.651	0	%100
20	MP3A	Z	.376	.376	0	%100
21	MP4A	X	-.537	-.537	0	%100
22	MP4A	Z	.31	.31	0	%100
23	MP5A	X	-.537	-.537	0	%100
24	MP5A	Z	.31	.31	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,%]
25	MP1C	X	-.537	-.537	0	%100
26	MP1C	Z	.31	.31	0	%100
27	MP2C	X	-.537	-.537	0	%100
28	MP2C	Z	.31	.31	0	%100
29	MP3C	X	-.651	-.651	0	%100
30	MP3C	Z	.376	.376	0	%100
31	MP4C	X	-.537	-.537	0	%100
32	MP4C	Z	.31	.31	0	%100
33	MP5C	X	-.537	-.537	0	%100
34	MP5C	Z	.31	.31	0	%100
35	MP1B	X	-.537	-.537	0	%100
36	MP1B	Z	.31	.31	0	%100
37	MP2B	X	-.537	-.537	0	%100
38	MP2B	Z	.31	.31	0	%100
39	MP3B	X	-.651	-.651	0	%100
40	MP3B	Z	.376	.376	0	%100
41	MP4B	X	-.537	-.537	0	%100
42	MP4B	Z	.31	.31	0	%100
43	MP5B	X	-.537	-.537	0	%100
44	MP5B	Z	.31	.31	0	%100
45	M75	X	-.946	-.946	0	%100
46	M75	Z	.546	.546	0	%100
47	M76	X	-.67	-.67	0	%100
48	M76	Z	.387	.387	0	%100
49	M77	X	-.946	-.946	0	%100
50	M77	Z	.546	.546	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-1.052	-1.052	0	%100
2	M4	Z	0	0	0	%100
3	M14	X	-.263	-.263	0	%100
4	M14	Z	0	0	0	%100
5	M27	X	-.263	-.263	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-.817	-.817	0	%100
8	M40	Z	0	0	0	%100
9	M41	X	-.817	-.817	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	0	0	0	%100
12	M42	Z	0	0	0	%100
13	OVP	X	-.566	-.566	0	%100
14	OVP	Z	0	0	0	%100
15	MP1A	X	-.621	-.621	0	%100
16	MP1A	Z	0	0	0	%100
17	MP2A	X	-.621	-.621	0	%100
18	MP2A	Z	0	0	0	%100
19	MP3A	X	-.751	-.751	0	%100
20	MP3A	Z	0	0	0	%100
21	MP4A	X	-.621	-.621	0	%100
22	MP4A	Z	0	0	0	%100
23	MP5A	X	-.621	-.621	0	%100
24	MP5A	Z	0	0	0	%100
25	MP1C	X	-.621	-.621	0	%100
26	MP1C	Z	0	0	0	%100
27	MP2C	X	-.621	-.621	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,%]
28	MP2C	Z	0	0	0	%100
29	MP3C	X	-.751	-.751	0	%100
30	MP3C	Z	0	0	0	%100
31	MP4C	X	-.621	-.621	0	%100
32	MP4C	Z	0	0	0	%100
33	MP5C	X	-.621	-.621	0	%100
34	MP5C	Z	0	0	0	%100
35	MP1B	X	-.621	-.621	0	%100
36	MP1B	Z	0	0	0	%100
37	MP2B	X	-.621	-.621	0	%100
38	MP2B	Z	0	0	0	%100
39	MP3B	X	-.751	-.751	0	%100
40	MP3B	Z	0	0	0	%100
41	MP4B	X	-.621	-.621	0	%100
42	MP4B	Z	0	0	0	%100
43	MP5B	X	-.621	-.621	0	%100
44	MP5B	Z	0	0	0	%100
45	M75	X	-1.198	-1.198	0	%100
46	M75	Z	0	0	0	%100
47	M76	X	-.88	-.88	0	%100
48	M76	Z	0	0	0	%100
49	M77	X	-.88	-.88	0	%100
50	M77	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.683	-.683	0	%100
2	M4	Z	-.395	-.395	0	%100
3	M14	X	-.683	-.683	0	%100
4	M14	Z	-.395	-.395	0	%100
5	M27	X	0	0	0	%100
6	M27	Z	0	0	0	%100
7	M40	X	-.943	-.943	0	%100
8	M40	Z	-.544	-.544	0	%100
9	M41	X	-.236	-.236	0	%100
10	M41	Z	-.136	-.136	0	%100
11	M42	X	-.236	-.236	0	%100
12	M42	Z	-.136	-.136	0	%100
13	OVP	X	-.49	-.49	0	%100
14	OVP	Z	-.283	-.283	0	%100
15	MP1A	X	-.537	-.537	0	%100
16	MP1A	Z	-.31	-.31	0	%100
17	MP2A	X	-.537	-.537	0	%100
18	MP2A	Z	-.31	-.31	0	%100
19	MP3A	X	-.651	-.651	0	%100
20	MP3A	Z	-.376	-.376	0	%100
21	MP4A	X	-.537	-.537	0	%100
22	MP4A	Z	-.31	-.31	0	%100
23	MP5A	X	-.537	-.537	0	%100
24	MP5A	Z	-.31	-.31	0	%100
25	MP1C	X	-.537	-.537	0	%100
26	MP1C	Z	-.31	-.31	0	%100
27	MP2C	X	-.537	-.537	0	%100
28	MP2C	Z	-.31	-.31	0	%100
29	MP3C	X	-.651	-.651	0	%100
30	MP3C	Z	-.376	-.376	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
31	MP4C	X	-.537	-.537	0	%100
32	MP4C	Z	-.31	-.31	0	%100
33	MP5C	X	-.537	-.537	0	%100
34	MP5C	Z	-.31	-.31	0	%100
35	MP1B	X	-.537	-.537	0	%100
36	MP1B	Z	-.31	-.31	0	%100
37	MP2B	X	-.537	-.537	0	%100
38	MP2B	Z	-.31	-.31	0	%100
39	MP3B	X	-.651	-.651	0	%100
40	MP3B	Z	-.376	-.376	0	%100
41	MP4B	X	-.537	-.537	0	%100
42	MP4B	Z	-.31	-.31	0	%100
43	MP5B	X	-.537	-.537	0	%100
44	MP5B	Z	-.31	-.31	0	%100
45	M75	X	-.946	-.946	0	%100
46	M75	Z	-.546	-.546	0	%100
47	M76	X	-.946	-.946	0	%100
48	M76	Z	-.546	-.546	0	%100
49	M77	X	-.67	-.67	0	%100
50	M77	Z	-.387	-.387	0	%100

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

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	X	-.132	-.132	0	%100
2	M4	Z	-.228	-.228	0	%100
3	M14	X	-.526	-.526	0	%100
4	M14	Z	-.911	-.911	0	%100
5	M27	X	-.132	-.132	0	%100
6	M27	Z	-.228	-.228	0	%100
7	M40	X	-.408	-.408	0	%100
8	M40	Z	-.707	-.707	0	%100
9	M41	X	0	0	0	%100
10	M41	Z	0	0	0	%100
11	M42	X	-.408	-.408	0	%100
12	M42	Z	-.707	-.707	0	%100
13	OVP	X	-.283	-.283	0	%100
14	OVP	Z	-.49	-.49	0	%100
15	MP1A	X	-.31	-.31	0	%100
16	MP1A	Z	-.537	-.537	0	%100
17	MP2A	X	-.31	-.31	0	%100
18	MP2A	Z	-.537	-.537	0	%100
19	MP3A	X	-.376	-.376	0	%100
20	MP3A	Z	-.651	-.651	0	%100
21	MP4A	X	-.31	-.31	0	%100
22	MP4A	Z	-.537	-.537	0	%100
23	MP5A	X	-.31	-.31	0	%100
24	MP5A	Z	-.537	-.537	0	%100
25	MP1C	X	-.31	-.31	0	%100
26	MP1C	Z	-.537	-.537	0	%100
27	MP2C	X	-.31	-.31	0	%100
28	MP2C	Z	-.537	-.537	0	%100
29	MP3C	X	-.376	-.376	0	%100
30	MP3C	Z	-.651	-.651	0	%100
31	MP4C	X	-.31	-.31	0	%100
32	MP4C	Z	-.537	-.537	0	%100
33	MP5C	X	-.31	-.31	0	%100

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,%]
34	MP5C	Z	-.537	-.537	0	%100
35	MP1B	X	-.31	-.31	0	%100
36	MP1B	Z	-.537	-.537	0	%100
37	MP2B	X	-.31	-.31	0	%100
38	MP2B	Z	-.537	-.537	0	%100
39	MP3B	X	-.376	-.376	0	%100
40	MP3B	Z	-.651	-.651	0	%100
41	MP4B	X	-.31	-.31	0	%100
42	MP4B	Z	-.537	-.537	0	%100
43	MP5B	X	-.31	-.31	0	%100
44	MP5B	Z	-.537	-.537	0	%100
45	M75	X	-.44	-.44	0	%100
46	M75	Z	-.762	-.762	0	%100
47	M76	X	-.599	-.599	0	%100
48	M76	Z	-1.037	-1.037	0	%100
49	M77	X	-.44	-.44	0	%100
50	M77	Z	-.762	-.762	0	%100

Member Distributed Loads (BLC 81 : BLC 39 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	Y	2.333e-15	-36.852	3.046	3.655
2	M4	Y	-36.852	-41.929	3.655	4.264
3	M4	Y	-41.929	-49.381	4.264	4.873
4	M4	Y	-49.381	-44.304	4.873	5.482
5	M4	Y	-44.304	2.333e-15	5.482	6.092
6	M14	Y	4.666e-15	-36.852	3.046	3.655
7	M14	Y	-36.852	-41.929	3.655	4.264
8	M14	Y	-41.929	-49.381	4.264	4.873
9	M14	Y	-49.381	-44.304	4.873	5.482
10	M14	Y	-44.304	4.666e-15	5.482	6.092
11	M27	Y	-4.666e-15	-36.852	3.046	3.655
12	M27	Y	-36.852	-41.929	3.655	4.264
13	M27	Y	-41.929	-49.381	4.264	4.873
14	M27	Y	-49.381	-44.304	4.873	5.482
15	M27	Y	-44.304	-4.666e-15	5.482	6.092

Member Distributed Loads (BLC 82 : BLC 40 Transient Area Loads)

	Member Label	Direction	Start Magnitude[lb/ft,...	End Magnitude[lb/ft,F...	Start Location[ft,%]	End Location[ft,%]
1	M4	Y	4.666e-15	-45.041	3.046	3.655
2	M4	Y	-45.041	-51.246	3.655	4.264
3	M4	Y	-51.246	-60.354	4.264	4.873
4	M4	Y	-60.354	-54.149	4.873	5.482
5	M4	Y	-54.149	4.666e-15	5.482	6.092
6	M14	Y	4.666e-15	-45.041	3.046	3.655
7	M14	Y	-45.041	-51.246	3.655	4.264
8	M14	Y	-51.246	-60.354	4.264	4.873
9	M14	Y	-60.354	-54.149	4.873	5.482
10	M14	Y	-54.149	4.666e-15	5.482	6.092
11	M27	Y	0	-45.041	3.046	3.655
12	M27	Y	-45.041	-51.246	3.655	4.264
13	M27	Y	-51.246	-60.354	4.264	4.873
14	M27	Y	-60.354	-54.149	4.873	5.482
15	M27	Y	-54.149	0	5.482	6.092

Member Area Loads (BLC 39 : Structure D)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N5	N17	N101	N99	Y	A-B	-.009
2	N5	N29	N103	N99	Y	A-B	-.009
3	N17	N29	N103	N101	Y	A-B	-.009

Member Area Loads (BLC 40 : Structure Di)

	Joint A	Joint B	Joint C	Joint D	Direction	Distribution	Magnitude[ksf]
1	N5	N17	N101	N99	Y	A-B	-.011
2	N5	N29	N103	N99	Y	A-B	-.011
3	N17	N29	N103	N101	Y	A-B	-.011

Envelope Joint Reactions

	Joint		X [lb]	LC	Y [lb]	LC	Z [lb]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	N3	max	1238.204	10	357.543	19	4894.128	1	.374	13	2.302	4	.662	4
2		min	-1238.332	4	-60.847	1	-3114.293	7	.003	7	-2.302	10	-.623	10
3	N14	max	3689.524	9	144.263	41	1278.3	2	-.042	3	2.124	12	-.073	3
4		min	-2179.18	3	22.304	11	-2149.413	8	-.121	45	-2.125	6	-.209	45
5	N26	max	2191.91	11	141.847	48	1379.263	12	.023	50	2.102	8	.207	41
6		min	-3717.763	5	-88.075	50	-2259.688	6	-.12	41	-2.103	2	-.04	50
7	N103A	max	45.049	10	2483.599	13	-798.376	7	0	51	0	8	0	2
8		min	-45.043	4	598.226	7	-3239.244	13	0	1	0	2	0	8
9	N105	max	-904.688	3	2404.918	21	1567.161	21	0	10	0	4	0	4
10		min	-2714.337	21	782.889	3	522.257	3	0	4	0	10	0	10
11	N107	max	2734.307	17	2422.189	17	1578.659	17	0	4	0	4	0	4
12		min	902.047	11	780.629	11	520.801	11	0	10	0	10	0	10
13	Totals:	max	6078.595	10	7488.749	15	6278.146	1						
14		min	-6078.595	4	3609.974	9	-6278.146	7						

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

	Member	Shape	Code Che...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
1	M4	HSS4X4X4	.275	5.552	10	.081	0	z	4	109457...	139518	16.181	16.181	4...	H1-1b
2	M14	HSS4X4X4	.282	5.552	6	.057	4.045	y	21	109457...	139518	16.181	16.181	4...	H1-1b
3	M27	HSS4X4X4	.279	5.552	2	.058	4.045	y	17	109457...	139518	16.181	16.181	4...	H1-1b
4	M40	HSS4X4X4	.227	6.481	11	.088	0	z	11	67000....	139518	16.181	16.181	1...	H1-1b
5	M41	HSS4X4X4	.229	6.481	3	.091	0	z	3	67000....	139518	16.181	16.181	1...	H1-1b
6	M42	HSS4X4X4	.231	6.757	7	.091	13.2...	z	7	67000....	139518	16.181	16.181	1...	H1-1b
7	OVP	PIPE_2.0	.466	3.333	7	.106	3.333		4	26521....	32130	1.872	1.872	1	H1-1b
8	MP1A	PIPE_2.0	.143	3	10	.048	3		10	20866....	32130	1.872	1.872	1...	H1-1b
9	MP2A	PIPE_2.0	.333	4	7	.046	4		8	14916....	32130	1.872	1.872	1...	H1-1b
10	MP3A	PIPE_2.5	.387	4	1	.063	4		9	30038....	50715	3.596	3.596	1...	H1-1b
11	MP4A	PIPE_2.0	.126	3	1	.039	3		2	20866....	32130	1.872	1.872	1...	H1-1b
12	MP5A	PIPE_2.0	.143	3	4	.048	3		4	20866....	32130	1.872	1.872	1...	H1-1b
13	MP1C	PIPE_2.0	.144	3	6	.048	3		6	20866....	32130	1.872	1.872	1...	H1-1b
14	MP2C	PIPE_2.0	.333	4	3	.046	4		4	14916....	32130	1.872	1.872	1...	H1-1b
15	MP3C	PIPE_2.5	.387	4	9	.063	4		5	30038....	50715	3.596	3.596	1...	H1-1b
16	MP4C	PIPE_2.0	.120	3	8	.039	2.438		10	20866....	32130	1.872	1.872	1...	H1-1b
17	MP5C	PIPE_2.0	.144	3	12	.048	3		12	20866....	32130	1.872	1.872	1...	H1-1b
18	MP1B	PIPE_2.0	.143	3	2	.047	3		2	20866....	32130	1.872	1.872	1...	H1-1b
19	MP2B	PIPE_2.0	.328	4	11	.047	4		4	14916....	32130	1.872	1.872	1...	H1-1b
20	MP3B	PIPE_2.5	.383	4	5	.063	4		1	30038....	50715	3.596	3.596	1...	H1-1b
21	MP4B	PIPE_2.0	.127	3	5	.046	3		6	20866....	32130	1.872	1.872	1...	H1-1b
22	MP5B	PIPE_2.0	.143	3	8	.047	3		8	20866....	32130	1.872	1.872	1...	H1-1b
23	M75	LL3x3x3x6	.088	5	13	.003	5	y	2	46390....	70632	6.362	3.751	1	H1-1b*

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

	Member	Shape	Code Che...	Loc[ft]	LC	Shear...	Loc[ft]	Dir	LC	phi*Pn...	phi*Pnt...	phi*Mn...	phi*Mn...	Cb	Eqn
24	M76	LL3x3x3x6	.085	5	21	.003	0	z	12	46390....	70632	6.362	3.751	1	H1-1b*
25	M77	LL3x3x3x6	.086	5	17	.003	0	z	2	46390....	70632	6.362	3.751	1	H1-1b*

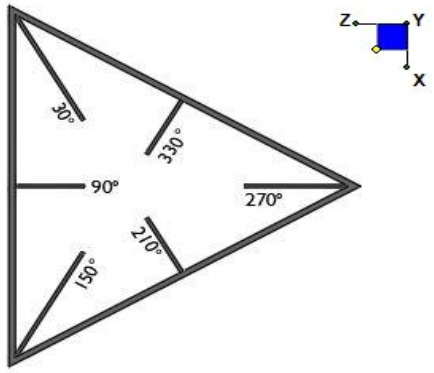
Client:	Verizon Wireless	Date:	10/5/2021
Site Name:	MERIDEN NORTH CT		
Project No.	21777434A		
Title:	Mount Analysis	Page:	1

Version 3.1

I. Mount-to-Tower Connection Check

RISA Model Data

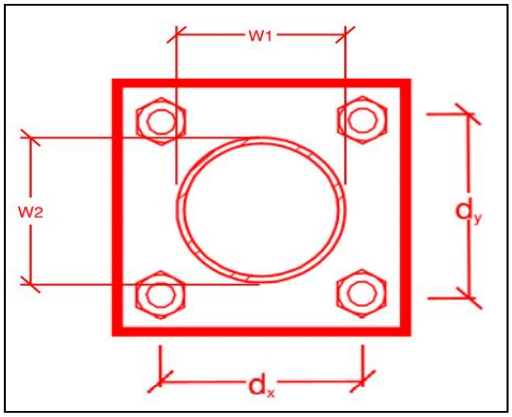
Nodes *(labeled per RISA)*	Orientation *(per graphic of typical platform)*
N14	30
N3	270
N26	150



TYPICAL PLATFORM

Tower Connection Bolt Checks

Any moment resistance?:	yes
Bolt Quantity per Reaction:	4
d_x (in) *(Delta X of typ. bolt config. sketch)*:	3
d_y (in) *(Delta Y of typ. bolt config. sketch)*:	8
Bolt Type:	A307
Bolt Diameter (in):	0.5
Required Tensile Strength (kips):	19.3
Required Shear Strength (kips):	6.5
Tensile Strength / bolt (kips):	5.6
Shear Strength / bolt (kips):	3.8
Tensile Capacity Overall:	**86.3%***
Shear Capacity Overall:	**42.6%**



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

Tower Connection Plate and Weld Check

Connecting Standoff Member Shape:	Rect
Plate Width (in):	6
Plate Height (in):	10
W1 (in):	4
W2 (in):	4
Fy (ksi, plate):	36
t_{Plate} (in):	0.5
Weld Size (1/16 in):	3
Phi*Rn (kip/in):	4.18
Required Weld Strength (kip/in):	1.39
Plate Bending Capacity:	**43.1%**
Weld Capacity:	**33.4%**

Max Plate Bending Strengths

Mu_{xx} *(kip-in)*:	5.4
Phi*Mn_{xx} *(kip-in)*:	12.2
Mu_{yy} *(kip-in)*:	-0.2
Phi*Mn_{yy} *(kip-in)*:	20.3

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

Documents & Photos Required from Contractor – Mount Modification

Electronic pdf version of this can be downloaded at https://pmi.vzwsmart.com
For additional questions and support, please reach out to pmisupport@colliersengineering.com

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Purpose – to upload the proper documentation to the SMART Tool in order to allow the SMART Tool engineering vendor to complete the required Mount Desktop review of the Post Modification Inspection Report.

- Contractor is responsible for making certain the photos provided as noted below provide confirmation that the modification was completed in accordance with the modification drawings.
- Contractor shall relay any data that can impact the performance of the mount or the mount modification, this includes safety issues.

Base Requirements:

- If installation of the modification will cause damage to the structure, the climbing facility, or safety climb if present or any installed system, SMART Tool vendor to be notified prior to install. Any special photos outside of the standard requirements will be indicated on the drawings.
- Provide "as built drawings" showing contractor's name, preparer's signature, and date. Any deviations from the drawings (proposed modification) shall be shown. NOTE: If loading is different than what is conveyed in the post-modification passing mount analysis (MA) contact the SMART Tool vendor immediately.
- Each photo shall be time and date stamped.
- Photos should be high resolution.
- Contractor shall ensure that the safety climb wire rope is not adversely impacted by the install of the modification components. This may involve the install of wire rope guides, or other items to protect the wire rope. If there is conflict, contact the SMART Tool engineer for recommendations.
- The PMI can be accessed at the following portal: **https://pmi.vzwsmart.com**

Photo Requirements:

- *Photos taken at ground level*
  - Photo of Gate Signs showing the tower owner, site name, and number.
  - Overall tower structure after installation of the modifications.
  - Photos of the mount after installation of the modifications; if the mounts are at different rad elevations, pictures must be provided for all elevations that the modifications were installed

- *Photos taken at Mount Elevation*
  - Photos showing the safety climb wire rope above and below the mount prior to modification.
  - Photos showing the climbing facility and safety climb if present.
  - Photos showing each individual sector after installation of modifications. Each entire sector must be in one photo to show the interconnection of members.

        - These photos shall also certify that the placement and geometry of the equipment on the mount is as depicted in the antenna placement diagram in this form.
    - Photos that show the model number of each antenna and piece of equipment installed per sector.
    - Photos of each installed modification per the modification drawings; pictures shall also include connection hardware (U-bolts, bolts, nuts, all-threaded rods, etc.)
    - Photos showing the distances (relative distance between collars) of the installed modifications from the appropriate reference locations shown in the modification drawings.
    - Photos showing the installed modifications onto the tower (i.e. ring/collar mounts, tie-backs, V-bracing kits, etc.); if the existing mount elevation needs to be changed according to the modification drawings, an elevation measurement shall be provided before the elevation change.

Material Certification:

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

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

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

OR

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

Antenna & equipment placement and Geometry Confirmation:

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

OR

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

Comments:

Certifying Individual:

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

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

☐ Yes ☐ No

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

Issue:

Prior to installation of equipment, contractor shall verify all dimensions and member sizes shown in the mount geometry verification requirements section of the mount modification drawings. Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications. Contact EOR if these documents are not available to the general contractor. If present, contractor shall inspect climbing facilities and ensure that the safety climb is in good condition. Contractor shall install safety climb wire rope guide (Part #: VZWSMART-MSK10) in locations where the wire rope is rubbing against mount to tower attachments. Contractor shall provide photos of safety climb wire rope guide installation.

Response:

Contractor certifies that the climbing facility / safety climb was not damaged during installation:

☐ Yes ☐ No

Comments:

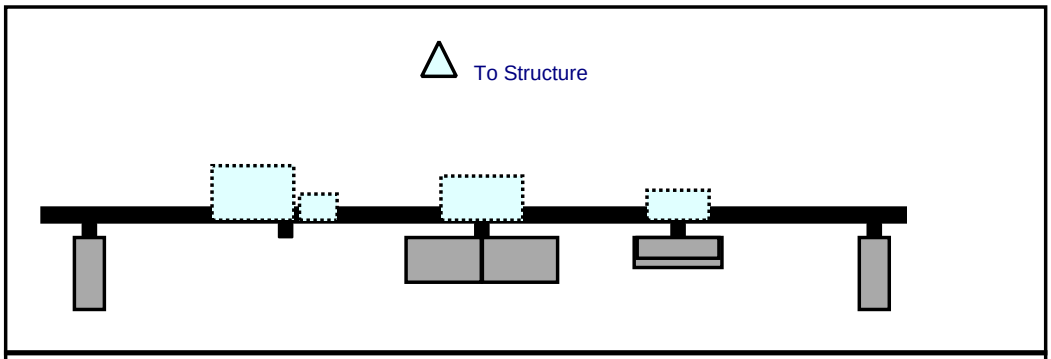
Structure: 468208-VZW - MERIDEN NORTH CT

Sector: **A** 10/1/2021

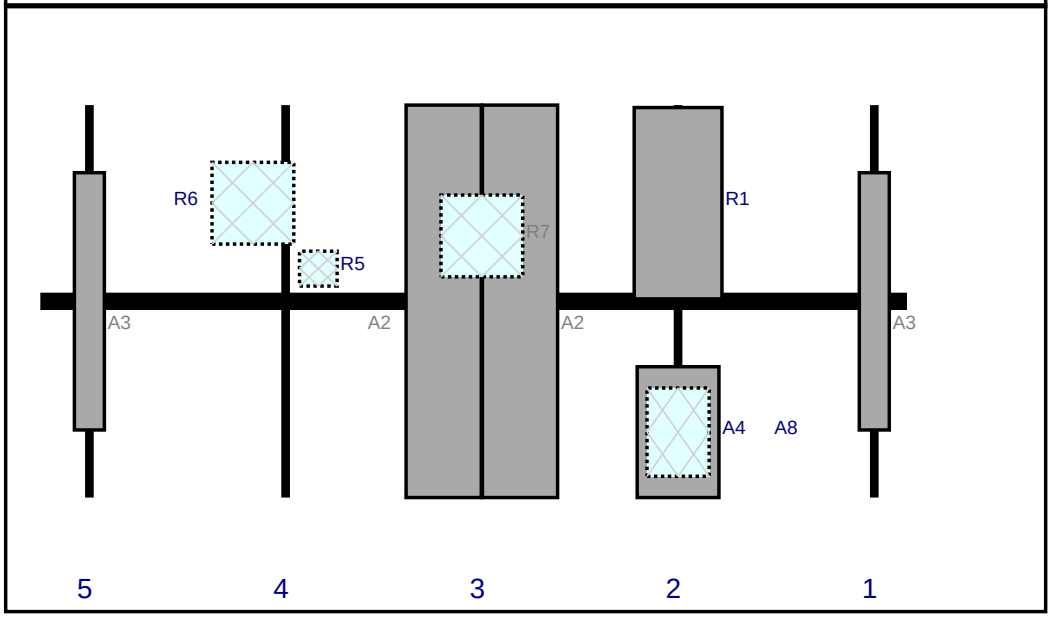
Structure Type: Monopole 10050375

Mount Elev: 125.00 Page: 1

Plan View



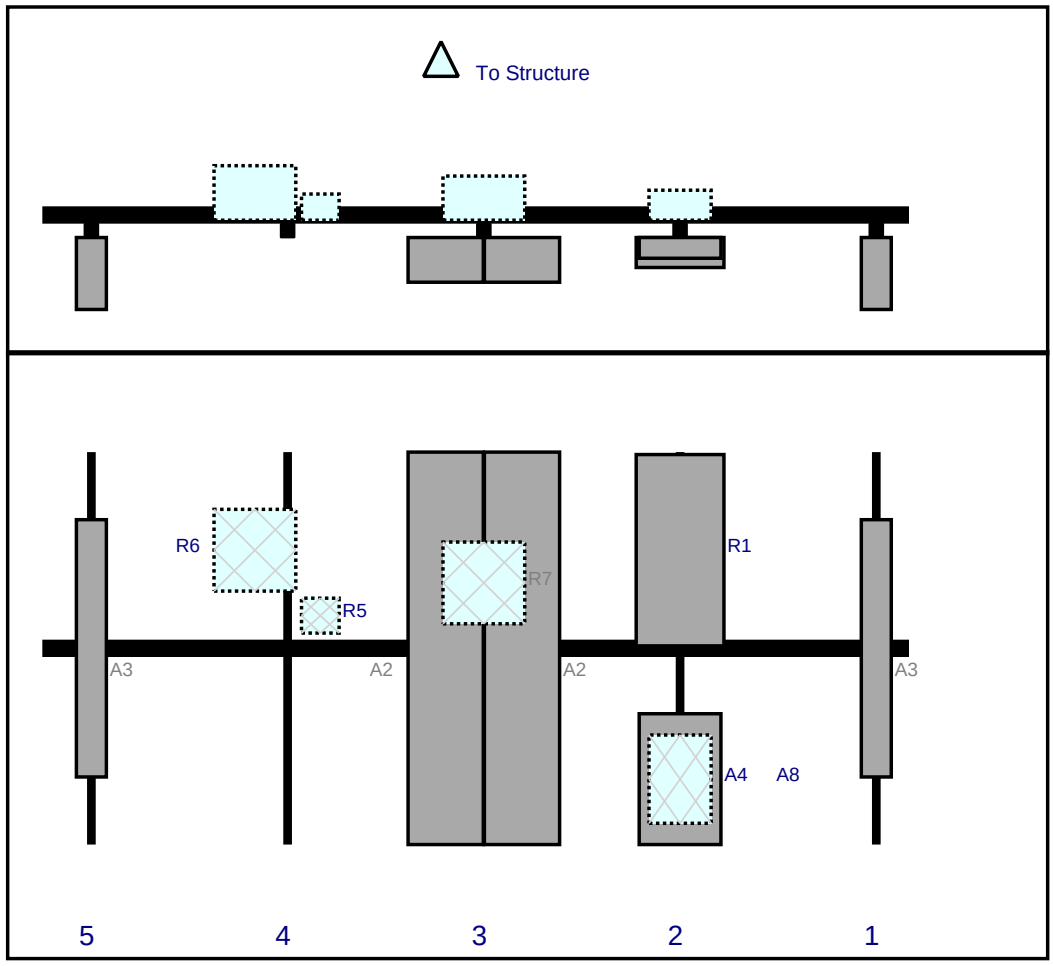
Front View
Looking at Structure



Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A3	LPA-80080/4CF	47.2	5.5	153	1	a	Front	36	0	Retained	
A4	DX12FRO260-20	24	15	117	2	a	Front	60	0	Retained	
A8	CBRS RRH - RT4401-48A	16.2	11.4	117	2	a	Behind	60	0	Retained	
R1	MT6407-77A	35.1	16.1	117	2	a	Front	18	0	Added	
A2	JAHH-65B-R3B	72	13.8	81	3	a	Front	36	7	Retained	
A2	JAHH-65B-R3B	72	13.8	81	3	b	Front	36	-7	Retained	
R7	B5/B13 RRH0BR04C	15	15	81	3	a	Behind	24	0	Retained	
R5	CBC78T-DS-43-2X	6.4	6.9	45	4	a	Behind	30	6	Retained	
R6	B2/B66A RRH-BR049	15	15	45	4	a	Behind	18	-6	Retained	
A3	LPA-80080/4CF	47.2	5.5	9	5	a	Front	36	0	Retained	

Plan View

Front View
Looking at Structure



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A8	CBRS RRH - RT4401-48A	16.2	11.4	117	2	a	Behind	60	0	Retained	
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R7	B5/B13 RRH0BR04C	15	15	81	3	a	Behind	24	0	Retained	
R5	CBC78T-DS-43-2X	6.4	6.9	45	4	a	Behind	30	6	Retained	
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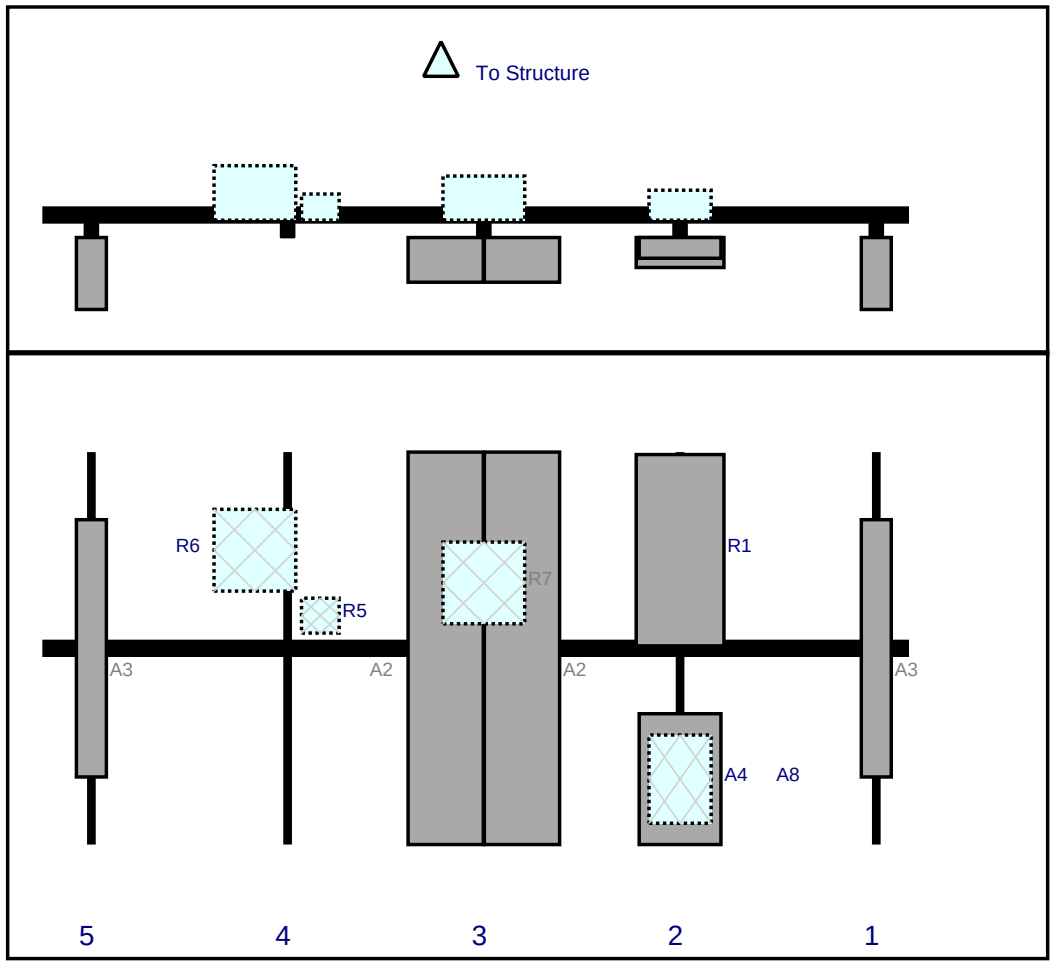
Plan View

Front View
Looking at Structure



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R5	CBC78T-DS-43-2X	6.4	6.9	45	4	a	Behind	30	6	Retained	
R6	B2/B66A RRH-BR049	15	15	45	4	a	Behind	18	-6	Retained	
A3	LPA-80080/4CF	47.2	5.5	9	5	a	Front	36	0	Retained	

Maser Consulting Connecticut

Subject	*TIA-222-H Usage*	
Site Information	*Site ID:*	*468208-VZW / MERIDEN NORTH CT*
	Site Name:	*MERIDEN NORTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*119 Empire Avenue* *Meriden, Connecticut 06450* *New Haven County*
	Latitude:	*41.572764°*
	Longitude:	*-72.778875°*
Structure Information	*Tower Type:*	*125-Ft Monopole*
	Mount Type:	*13.25-Ft Platform*

To Whom It May Concern,

We respectfully submit the above referenced Antenna Mount Structural Analysis report in conformance with ANSI/TIA-222-H, Structural Standard for Antenna Supporting Structures and Antennas and Small Wind Turbine Support Structures.

The 2015 International Building Code states that, in Section 3108, telecommunication towers shall be designed and constructed in accordance with the provisions of TIA-222. TIA-222-H is the latest revision of the TIA-222 Standard, effective as of January 01, 2018.

As with all ANSI standards and engineering best practice is to apply the most current revision of the standard. This ensures the engineer is applying all updates. As an example, the TIA-222-H Standard includes updates to bring it in line with the latest AISC and ACI standards and it also incorporates the latest wind speed maps by ASCE 7 based on updated studies of the wind data.

The TIA-222-H standard clarifies these specific requirements for the antenna mount analysis such as modeling methods, seismic analysis, 30-degree increment wind directions and maintenance loading. Therefore, it is our opinion that TIA-222-H is the most appropriate standard for antenna mount structural analysis and is acceptable for use at this site to ensure the engineer is taking into account the most current engineering standard available.

Sincerely,

Justin Linette, PE
Technical Manager

Site Name: ***MERIDEN NORTH CT***

Cumulative Power Density

Operator	Operating Frequency	Number of Trans.	ERP Per Trans.	Total ERP	Distance to Target	Calculated Power Density	Maximum Permissible Exposure*	Fraction of MPE
	(MHz)		(watts)	(watts)	(feet)	(mW/cm^2)	(mW/cm^2)	(%)
VZW 700	751	4	648	2593	125	0.0060	0.5007	1.19%
VZW CDMA	877.26	2	346	692	125	0.0016	0.5848	0.27%
VZW Cellular	874	4	742	2969	125	0.0068	0.5827	1.17%
VZW PCS	1975	4	1561	6243	125	0.0144	1.0000	1.44%
VZW AWS	2120	4	1528	6112	125	0.0141	1.0000	1.41%
VZW CBRS	3625	4	28	110	123	0.0003	1.0000	0.03%
VZW CBAND	3730.08	4	6531	26125	126.5	0.0587	1.0000	5.87%
Total Percentage of Maximum Permissible Exposure								11.38%

*Guidelines adopted by the FCC on August 1, 1996, 47 CFR Part 1 based on NCRP Report 86, 1986 and generally on ANSI/IEEE C95.1-1992

**Calculation includes a -10 dB Off Beam Antenna Pattern Adjustment pursuant to Attachments B and C of the Siting Council's November 10, 2015 Memorandum for Exempt Modification filings

MHz = Megahertz

mW/cm^2 = milliwatts per square centimeter

ERP = Effective Radiated Power

Absolute worst case maximum values used.

CITY OF MERIDEN
GIS Services, MIS Department
142 East Main St, Meriden, CT
203 630 4118

CITY OF MERIDEN, CT GIS

119 EMPIRE AVE

1 inch = 500 feet

Date: 11/3/2021

CITY OF MERIDEN
GIS Services

PROPERTY INFORMATION

Location: **119 EMPIRE AVE** Map/Lot: 0417-0154-0007-0000

OWNER INFORMATION

Owner(s):
119 EMPIRE AVENUE LLC

Owner Address:
119 EMPIRE AVE
MERIDEN, CT 06450

BUILDING INFORMATION

Card Number: 1

OVERVIEW	
Building ID	7429
Finished Area	*See Sub Area
Comm/Rental Units	1
Living Units	0
Building Type	Ind Mfg (L)
Year Built	1976
Effective Yr Built	
Building Number	1

INTERIOR DETAILS	
Rooms	
BedRooms	
Full Bath	0
Full Bath Rating	
Half Bath	0
Half Bath Rating	
Kitchens	0
Kitchen Rating	
Fireplaces	0

CONSTRUCTION DETAILS	
Exterior	
Roof Structure	
Roof Cover	
Quality	C
Heat Fuel	Oil
Heat Type	Steam w/Boil
Prcnt. Heated	6.00
Prcnt. AC	6.00
Stories	1 story
Foundation	

Sub Area Summary

Building ID	Description	Total Area	Finished Area	Perimeter
7429	1st FLOOR	38,400	38,400	880
7429	1st FLOOR	12,000	12,000	520
7429	1st FLOOR	63,200	63,200	1,120
7429	1st FLOOR	40,560	40,560	972
7429	1st FLOOR	1,120	1,120	136
7429	1st FLOOR	400	400	80
7429	1st FLOOR	480	480	88
7429	1st FLOOR	4,560	4,560	272
7429	CANOPY	10,266	0	734
7429	LOAD DOCK	10,266	0	734
	TOTALS	181,252 sqft	160,720 sqft	

Special Features

BuildingID	Description	Quantity	Area	Length	Width	YearBuilt	Quality
7429	PAVING-ASPT	1	50,000			1976	Average
7429	SHED	1	312			1976	Average
7429	FENCE 10	1	3,700			1976	Average

APPRAISAL INFORMATION

Tax District: 1 **District Name:** OUTER DISTRICT **District Mill Rate:** 40.86

Grand List Year: 2020

Land Appraised	Building Appraised	Yard Appraised	Total Appraised Value	Land Assessed	Building Assessed	Yard Assessed	Special Land Value	Total Assessed Value
$713,800	$1,856,400	$129,800	$2,700,000	$499,660	$1,299,480	$90,860	$0	$1,890,000

Previous Year: 2019

Land Appraised	Building Appraised	Yard Appraised	Appraised Value	Land Assesed	Building Assessed	Yard Assessed	Assessed Value
$713,800	$1,856,400	$129,800	$2,700,000	$499,660	$1,299,480	$90,860	**$1,890,000**

LAND INFORMATION

Land Use	Zoning	Land Area	Code	Neighborhood Description
Comm Bldg	M-2	12.42000	CI3A	NORTH COLONY AREA, NORTH OF RR

*Confirm zoning with Planning Office.
Zoning map is the official document to determine zone.

SALES INFORMATION

Sale Date	Sale Price	Book	Page	Grantor	Grantee	Deed Type
4/8/2016	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/8/2016	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/8/2016	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/8/2016	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
4/2/2015	$1,200,000	4985	258	ATLAS CONTAINER LLC,	119 EMPIRE AVE LLC	Warranty Deed
10/19/2001	$2,450,000	2756	182	WEYERHAEUSER COMPANY		
12/2/1995	$0	2142	136			

ASSESSOR'S PERMIT HISTORY

ADVISORY: Residents should not use Assessor Field Cards on the City of Meriden's GIS website to determine the status of building permits. Field cards on GIS do not list building permit status. The building department is the ONLY place where citizens can determine whether a building permit is open or not. For a record of all permits and their status, homeowners and title searchers who need to check permits when selling a home are welcome to contact the Building Department at 203-630-4091.

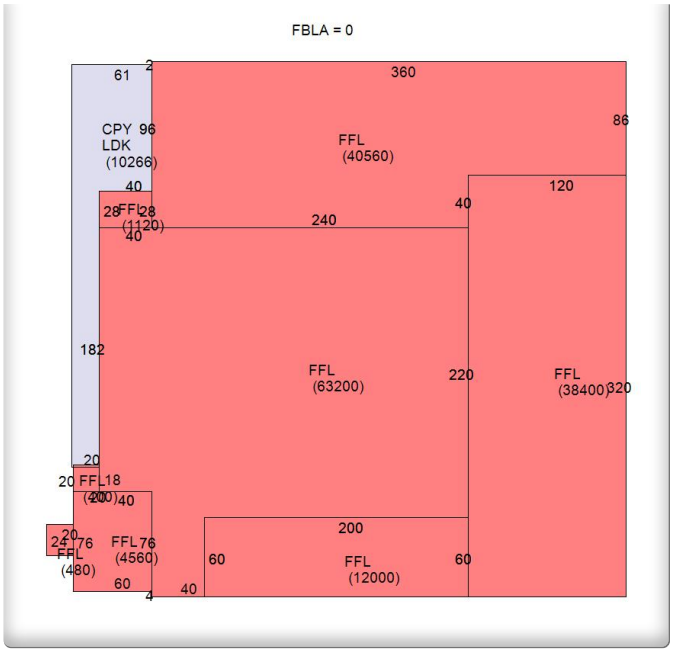
Date	Permit#	Description	Permit Type	Cost
11/28/2001	3843	2000AMP SERV BACKFEED	CA	$92,000
11/28/2001	3843	3000 AMP SERV UPGRADE	CA	$92,000
11/15/2002	3802	SPRINT RADIO EQUIP ON GRO	CA	$70,000
11/15/2002	3802	INSTALL PC ANTENNAS ON WA	CA	$70,000
4/16/2003	1140	ALSO INSTALL 200 AMP SERV	CA	$5,000
4/16/2003	1140	INSTALL 400 AMP SERV	CA	$5,000
7/25/2003	2591	AT&T COMMUN TOWER	CA	$122,000
9/9/2003	3154	WIRE CELLULAR EQUIP	CA	$6,000
[illegible]	[illegible]	ANTENNAS ON EX	[illegible]	[illegible]

5/13/2005	1626	ANTENNAS ON EX WATER TANK	CA	$51,000
5/13/2005	1626	INSTALL PRE FAB SHELTER,A	CA	$51,000
5/24/2005	1786	INSTALL POWER & GROUNDING	CA	$6,000
5/24/2005	1786	PREWIRED NEXTEL COMM SHEL	CA	$6,000
11/30/2005	4507	128' MONOPOLE FOR WIRELES	CA	$225,000
11/30/2005	4507	INSTALL VERIZON 12X30 PRE	CA	$225,000
11/30/2005	4507	T-MOBILE MOUNTED EQUIP	CA	$225,000
3/9/2006	734	NEW AMP SERV ,1PH WIRE	CA	$28,000
3/9/2006	734	1VERIZON, 1TMOBILE SERV	CA	$28,000
3/9/2006	734		CA	$28,000
3/9/2006	734	1VERIZON,1T MOBILE SERV	CA	$28,000
3/9/2006	741		CA	$28,000
7/18/2006	2672		CA	$5,000
5/29/2009	1586	SWAP EXISTING ANTENNAS ON EXISTING TOWER, ADD ONE TELE CABINET		
9/23/2009	2822	REROOF BLDG W/ RUBBER ROOF		
3/3/2010	504	SPRINT-MODIFICATIONS TO EXISTING TELECOMMUNICATIONS SITE PER PLANS AND TO CODE(REQUIRES SEPARATE ELECTRICAL PERMIT)		$20,000
3/3/2010	503	VERIZON REMOVAL OF EXISTING ANTENNAE ON MONOPOLE& REPLACE WITH 6 LTE ANTENNAE PER PLAN (WILL BE PAINTED TO MATCH EXISTING)	R	$16,000
6/12/2012	1847	AT&T REMOVE AND REPLACE 9 EXISTING ANTENNAS INSTALL 6 REMOTE RED HEADS AND INSTALL 1 3" CONDUIT TO HOUSE FIBER AND DC POWER ALL TO CODE	C	$25,000
3/8/2013	611	SPRINT - MODIF. OF TELECOMM. INST. ON WATER TANK, REPL. 3 ANTS. & CABLES AND ADD RRH`S AND NOTCH FILTERS BEHIND ANTS. ON WATER TANK, ADD CIENA EQUIP. ENCL. & FIBER JUNC. BOX & EITHER RETROFIT OR		$30,000

		EITHER RETROFIT OR REPL. BTS CABINET WITHIN SPRINT`S EXISTING EQUIP. SHELTER		
7/26/2013	2377	CELL TOWER		$12,500
1/26/2015	E-14-154	CELL TOWER/RUN DC CIRCUITS TO INVERTERS/RADIO HEADS ON CABINETS.		$3,000
3/24/2015	B-15-71	NEW ANTENNA W/NEW MASTS/RELOCATE EXISTING TMA		$20,000
7/23/2015	E-15-322	FIT-OUT LOGAN STEEL.INSTALL NEW LIGHTING AT WAREHOUSE AND OFFICE/WIRE NEW MACHINE TO EXISTING BUSDUCT.		$83,800
11/23/2015	B-15-965	NEW ANTENNAE ON NEW PIPE MOUNTS.Approved by Bldg Dept.		$20,000
1/20/2016	P-16-16	GAS PIPING TO CONNECT OWNER SUPPLIED RADIANT HEAT PANELS.Approved by Bldg Dept.		$10,000
12/21/2016	B-16-1235	REPLACING ANTENNAE PANELS/ADDING REMOTE RADIO HEADS TO CELL TOWER.		$15,000

PROPERTY IMAGES

1 2 3



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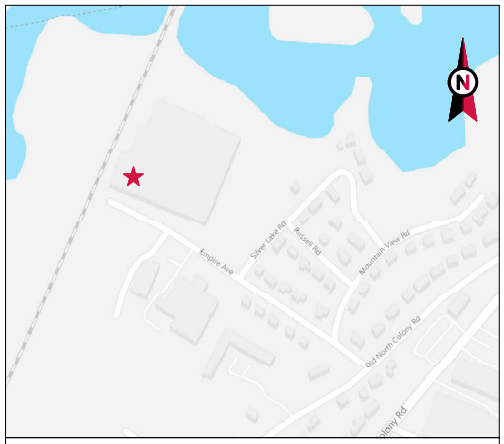

VICINITY MAP

AMERICAN TOWER®

ATC SITE NAME: ATLAS CONTAINER
ATC SITE NUMBER: 383657
VERIZON SITE NAME: MERIDEN NO CT
VERIZON SITE NUMBER:468208
SITE ADDRESS: 119 EMPIRE AVENUE
MERIDEN, CT 06450

LOCATION MAP

VERIZON
L-SUB6 CARRIER ADD ANTENNA AMENDMENT DRAWINGS

COMPLIANCE CODE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNMENT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2018 CONNECTICUT STATE BUILDING CODE-AMENDMENTS TO IBC 2015
2. INTERNATIONAL BUILDING CODE 2015, INTERNATIONAL CODE COUNCIL
3. TIA-222-G-4, STRUCTURAL STANDARD FRO ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
4. ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES, AMERICAN SOCIETY OF CIVIL ENGINEERS
5. STEEL CONSTRUCTION MANUAL 14TH EDITION, AMERICAN INSTITUTE OF STEEL CONSTRUCTION
6. CITY/COUNTY ORDINANCES

UTILITY COMPANIES

POWER COMPANY: ITRON
PHONE: (877) 487-6602

TELEPHONE COMPANY: N/A
PHONE: ---------

811
Know what's below.
Call before you dig.

PROJECT SUMMARY

SITE ADDRESS:

119 EMPIRE AVENUE

MERIDEN, CT 06450

COUNTY: NEW HAVEN

GEOGRAPHIC COORDINATES:

LATITUDE: 41.57305556

LONGITUDE: -72.77916667

GROUND ELEVATION: 158' AMSL

PROJECT TEAM

TOWER OWNER:

AMERICAN TOWER
10 PRESIDENTIAL WAY
WOBURN, MA 01801

APPLICANT:

VERIZON WIRELESS
118 FLANDERS ROAD
WESTBOROUGH, MA 01581

ENGINEER:

DEWBERRY ENGINEERS, INC.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110

PROPERTY OWNER:

119 EMPIRE AVENUE LLC
119 EMPIRE AVE
MERIDEN, CT 06450

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES MODIFYING GROUND BASED AND TOWER MOUNTED EQUIPMENT AS INDICATED PER BELOW:

INSTALL (3) ANTENNA(s) AND (3) RRH(s)

EXISTING (15) ANTENNA(s), (9) RRH(s), (3) DIPLEXER(s), (2) OVP(s), (6) 1-5/8" COAX CABLE(s), AND (2) 6X12 1-5/8" (6) HYBRID CABLE(s) TO REMAIN

PROJECT NOTES

1. THE FACILITY IS UNMANNED.
2. A TECHNICIAN WILL VISIT THE SITE APPROXIMATELY ONCE A MONTH FOR ROUTINE INSPECTION AND MAINTENANCE.
3. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT LAND DISTURBANCE OR EFFECT OF STORM WATER DRAINAGE.
4. NO SANITARY SEWER, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED.
5. HANDICAP ACCESS IS NOT REQUIRED.
6. THE PROJECT DEPICTED IN THESE PLANS QUALIFIES AS AN ELIGIBLE FACILITIES REQUEST ENTITLED TO EXPEDITED REVIEW UNDER 47 U.S.C. 1455(A) AS A MODIFICATION OF AN EXISTING WIRELESS TOWER THAT INVOLVES THE COLLOCATION REMOVAL AND/OR REPLACEMENT OF TRANSMISSION EQUIPMENT THAT IS NOT A SUBSTANTIAL CHANGE UNDER CFR 1.61000 (B)(7).

PROJECT LOCATION DIRECTIONS

FROM DOWNTOWN HAMDEN CT START OUT GOING EAST ON DIXWELL AVE/CT-10 TOWARD EVERGREEN AVE. CONTINUE TO FOLLOW DIXWELL AVE. MERGE ONTO CT-15 N VIA THE RAMP ON THE LEFT. TURN LEFT ONTO N COLONY RD. TURN SLIGHT RIGHT ONTO OLD NORTH COLONY RD. TAKE THE 1ST RIGHT ONTO EMPIRE AVE. 119 EMPIRE AVE, MERIDEN, CT 06450-1928, 119 EMPIRE AVE IS ON THE RIGHT.

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	MOUNT MODIFICATION DWG (9 PAGES)			

AMERICAN TOWER®

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Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
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PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/04/21
0	FINAL	BR	11/11/21

ATC SITE NUMBER:
383657

ATC SITE NAME:
ATLAS CONTAINER

VERIZON SITE NAME:
MERIDEN NO CT

SITE ADDRESS:
119 EMPIRE AVENUE
MERIDEN, CT 06450

SEAL:

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

TITLE SHEET

SHEET NUMBER:	REVISION:
G-001	0

GENERAL CONSTRUCTION NOTES:

1. OWNER FURNISHED MATERIALS. VERIZON "THE COMPANY" WILL PROVIDE AND THE CONTRACTOR WILL INSTALL.
   - A. BTS EQUIPMENT FRAME (PLATFORM) AND ICEBRIDGE SHELTER (GROUND BUILD/CO-LOCATE ONLY)
   - B. AC/TELCO INTERFACE BOX (PPC)
   - C. ICE BRIDGE (CABLE TRAY WITH COVER) (GROUND BUILD/CO-LOCATE ONLY, GC TO FURNISH AND INSTALL FOR ROOFTOP INSTALLATION)
   - D. TOWERS, MONOPOLES
   - E. TOWER LIGHTING
   - F. GENERATORS & LIQUID PROPANE TANK
   - G. ANTENNA STANDARD BRACKETS, FRAMES AND PIPES FOR MOUNTING
   - H. ANTENNAS (INSTALLED BY OTHERS)
   - I. TRANSMISSION LINE
   - J. TRANSMISSION LINE JUMPERS
   - K. TRANSMISSION LINE CONNECTORS WITH WEATHERPROOFING KITS
   - L. TRANSMISSION LINE GROUND KITS
   - M. HANGERS
   - N. HOISTING GRIPS
   - O. BTS EQUIPMENT
2. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL OTHER MATERIALS FOR THE COMPLETE INSTALLATION OF THE SITE INCLUDING, BUT NOT LIMITED TO, SUCH MATERIALS AS FENCING, STRUCTURAL STEEL SUPPORTING SUB-FRAME FOR PLATFORM, ROOFING LABOR AND MATERIALS, GROUNDING RINGS, GROUNDING WIRES, COPPER-CLAD OR KIT CHEMICAL GROUND ROD(S), BUSS BARS, TRANSFORMERS AND DISCONNECT SWITCHES WHERE APPLICABLE, TEMPORARY ELECTRICAL POWER, CONDUIT, LANDSCAPING COMPOUND STONE, CRANES, CORE DRILLING, SLEEPERS AND RUBBER MATTING, REBAR, CONCRETE CAISSONS. PADS AND/OR AUGER MOUNTS, MISCELLANEOUS FASTENERS, CABLE TRAYS, NON-STANDARD ANTENNA FRAMES AND ALL OTHER MATERIAL AND LABOR REQUIRED TO COMPLETE THE JOB ACCORDING TO THE DRAWINGS AND SPECIFICATIONS. IT IS THE POSITION OF VERIZON TO APPLY FOR PERMITTING AND CONTRACTOR RESPONSIBLE FOR PICKUP AND PAYMENT OF REQUIRED PERMITS.
3. ALL WORK SHALL CONFORM TO ALL CURRENT APPLICABLE FEDERAL, STATE, AND LOCAL CODES, INCLUDING ANSI/EIA/TIA-222, AND COMPLY WITH ATC CONSTRUCTION SPECIFICATIONS.
4. CONTRACTOR SHALL CONTACT LOCAL 811 FOR IDENTIFICATION OF UNDERGROUND UTILITIES PRIOR TO START OF CONSTRUCTION.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED INSPECTIONS.
6. ALL DIMENSIONS TO, OF, AND ON EXISTING BUILDINGS, DRAINAGE STRUCTURES, AND SITE IMPROVEMENTS SHALL BE VERIFIED IN FIELD BY CONTRACTOR WITH ALL DISCREPANCIES REPORTED TO THE ENGINEER.
7. DO NOT CHANGE SIZE OR SPACING OF STRUCTURAL ELEMENTS.
8. DETAILS SHOWN ARE TYPICAL; SIMILAR DETAILS APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.
9. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
10. CONTRACTOR SHALL BRACE STRUCTURES UNTIL ALL STRUCTURAL ELEMENTS NEEDED FOR STABILITY ARE INSTALLED. THESE ELEMENTS ARE AS FOLLOWS: LATERAL BRACING, ANCHOR BOLTS, ETC.
11. CONTRACTOR SHALL DETERMINE EXACT LOCATION OF EXISTING UTILITIES, GROUNDS DRAINS, DRAIN PIPES, VENTS, ETC. BEFORE COMMENCING WORK.
12. INCORRECTLY FABRICATED, DAMAGED, OR OTHERWISE MISFITTING OR NONCONFORMING MATERIALS OR CONDITIONS SHALL BE REPORTED TO THE VERIZON REP PRIOR TO REMEDIAL OR CORRECTIVE ACTION. ANY SUCH REMEDIAL ACTION SHALL REQUIRE WRITTEN APPROVAL BY THE VERIZON REP PRIOR TO PROCEEDING.
13. EACH CONTRACTOR SHALL COOPERATE WITH THE VERIZON REP, AND COORDINATE HIS WORK WITH THE WORK OF OTHERS.
14. CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED BY CONSTRUCTION OF THIS PROJECT TO MATCH EXISTING PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE VERIZON CONSTRUCTION MANAGER.
15. ALL CABLE/CONDUIT ENTRY/EXIT PORTS SHALL BE WEATHERPROOFED DURING INSTALLATION USING A SILICONE SEALANT.
16. WHERE EXISTING CONDITIONS DO NOT MATCH THOSE SHOWN IN THIS PLAN SET, CONTRACTOR SHALL NOTIFY THE VERIZON REP AND ENGINEER OF RECORD IMMEDIATELY.
17. CONTRACTOR SHALL ENSURE ALL SUBCONTRACTORS ARE PROVIDED WITH A COMPLETE AND CURRENT SET OF DRAWINGS AND SPECIFICATIONS FOR THIS PROJECT.
18. CONTRACTOR SHALL REMOVE ALL RUBBISH AND DEBRIS FROM THE SITE AT THE END OF EACH DAY.
19. CONTRACTOR SHALL COORDINATE WORK SCHEDULE WITH AMERICAN TOWER CORPORATION (ATC) AND TAKE PRECAUTIONS TO MINIMIZE IMPACT AND DISRUPTION OF OTHER OCCUPANTS OF THE FACILITY.
20. CONTRACTOR SHALL FURNISH VERIZON AND AMERICAN TOWER CORPORATION (ATC) WITH A PDF MARKED UP AS-BUILT SET OF DRAWINGS UPON COMPLETION OF WORK.
21. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE WHAT, IF ANY, ITEMS WILL BE PROVIDED. ALL ITEMS NOT PROVIDED SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR. CONTRACTOR WILL INSTALL ALL ITEMS PROVIDED.
22. PRIOR TO SUBMISSION OF BID, CONTRACTOR SHALL COORDINATE WITH VERIZON REP TO DETERMINE IF ANY PERMITS WILL BE OBTAINED BY CONTRACTOR. ALL REQUIRED PERMITS NOT OBTAINED BY VERIZON MUST BE OBTAINED, AND PAID FOR, BY THE CONTRACTOR.
23. CONTRACTOR SHALL INSTALL ALL SITE SIGNAGE IN ACCORDANCE WITH VERIZON SPECIFICATIONS AND REQUIREMENTS.
24. CONTRACTOR SHALL SUBMIT ALL SHOP DRAWINGS TO VERIZON FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
25. ALL EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS AND LOCATED ACCORDING TO VERIZON SPECIFICATIONS, AND AS SHOWN IN THESE PLANS.
26. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
27. CONTRACTOR SHALL NOTIFY VERIZON REP A MINIMUM OF 48 HOURS IN ADVANCE OF POURING CONCRETE OR BACKFILLING ANY UNDERGROUND UTILITIES, FOUNDATIONS OR SEALING ANY WALL, FLOOR OR ROOF PENETRATIONS FOR ENGINEERING REVIEW AND APPROVAL.
28. CONTRACTOR SHALL BE RESPONSIBLE FOR SITE SAFETY INCLUDING COMPLIANCE WITH ALL APPLICABLE OSHA STANDARDS AND RECOMMENDATIONS AND SHALL PROVIDE ALL NECESSARY SAFETY DEVICES INCLUDING PPE AND PPM AND CONSTRUCTION DEVICES SUCH AS WELDING AND FIRE PREVENTION, TEMPORARY SHORING, SCAFFOLDING, TRENCH BOXES/SLOPING, BARRIERS, ETC.
29. THE CONTRACTOR SHALL PROTECT AT HIS OWN EXPENSE, ALL EXISTING FACILITIES AND SUCH OF HIS NEW WORK LIABLE TO INJURY DURING THE CONSTRUCTION PERIOD. ANY DAMAGE CAUSED BY NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, OR BY THE ELEMENTS DUE TO NEGLECT ON THE PART OF THIS CONTRACTOR OR HIS REPRESENTATIVES, EITHER TO THE EXISTING WORK, OR TO HIS WORK OR THE WORK OF ANY OTHER CONTRACTOR, SHALL BE REPAIRED AT HIS EXPENSE TO THE OWNER'S SATISFACTION.
30. ALL WORK SHALL BE INSTALLED IN A FIRST CLASS, NEAT AND WORKMANLIKE MANNER BY MECHANICS SKILLED IN THE TRADE INVOLVED. THE QUALITY OF WORKMANSHIP SHALL BE SUBJECT TO THE APPROVAL OF THE VERIZON REP. ANY WORK FOUND BY THE VERIZON REP TO BE OF INFERIOR QUALITY AND/OR WORKMANSHIP SHALL BE REPLACED AND/OR REWORKED AT CONTRACTOR EXPENSE UNTIL APPROVAL IS OBTAINED.
31. IN ORDER TO ESTABLISH STANDARDS OF QUALITY AND PERFORMANCE, ALL TYPES OF MATERIALS LISTED HEREINAFTER BY MANUFACTURER'S NAMES AND/OR MANUFACTURER'S CATALOG NUMBER SHALL BE PROVIDED BY THESE MANUFACTURERS AS SPECIFIED.
32. VERIZON FURNISHED EQUIPMENT SHALL BE PICKED-UP AT THE VERIZON WAREHOUSE, NO LATER THAN 48HR AFTER BEING NOTIFIED INSURED, STORED, UNCRATE, PROTECTED AND INSTALLED BY THE CONTRACTOR WITH ALL APPURTENANCES REQUIRED TO PLACE THE EQUIPMENT IN OPERATION, READY FOR USE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EQUIPMENT AFTER PICKING IT UP.
33. VERIZON OR HIS ARCHITECT/ENGINEER RESERVES THE RIGHT TO REJECT ANY EQUIPMENT OR MATERIALS WHICH, IN HIS OWN OPINION ARE NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS, EITHER BEFORE OR AFTER INSTALLATION AND THE EQUIPMENT SHALL BE REPLACED WITH EQUIPMENT CONFORMING TO THE REQUIREMENTS OF THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO VERIZON OR THEIR ARCHITECT/ENGINEER.

SPECIAL CONSTRUCTION ANTENNA INSTALLATION NOTES:

1. WORK INCLUDED:
   - A. ANTENNA AND COAXIAL CABLES ARE FURNISHED BY VERIZON UNDER A SEPARATE CONTRACT. THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OD COORDINATION AND SITE ACCESS. ERECTION SUBCONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNEL AND
   - B. INSTALL ANTENNA AS INDICATE ON DRAWINGS AND VERIZON SPECIFICATIONS.
   - C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS
   - D. INSTALL FURNISHED GALVANIZED STEEL OR ALUMINUM WAVEGUIDE.
   - E. CONTRACTOR SHALL PROVIDE FOUR (4) SETS OF SWEEP TESTS USING ANRITZU-PACKARD 8713B RF SCALAR NETWORK ANALYZER. SUBMIT FREQUENCY DOMAIN REFLECTOMETER(FDR) TESTS RESULTS TO THE PROJECT MANAGER. SWEEP TESTS SHALL BE AS PER ATTACHED RFS "MINIMUM FIELD TESTING RECOMMENDED FOR ANTENNA AND HELIAX COAXIAL CABLE SYSTEMS" DATED 10/5/93. TESTING SHALL BE PERFORMED BY AN INDEPENDENT TESTING SERVICE AND BE BOUND AND SUBMITTED WITHIN ONE WEEK OF WORK COMPLETION.
   - F. INSTALL COAXIAL CABLES AND TERMINATING BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTIONS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
   - G. ANTENNA AND COAXIAL CABLE GROUNDING:
2. ALL EXTERIOR #6 GREED GROUND WIRE 'DAISY CHAIN' CONNECTIONS ARE TO BE WEATHER SEALED WITH RFS CONNECTORS/SPLICE WEATHERPROOFING KIT #221213 OR EQUAL.
3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS)

ALL DISCREPANCIES FROM WHAT IS SHOWN ON THESE CONSTRUCTION DRAWINGS SHALL BE COMMUNICATED TO ATC ENGINEERING IMMEDIATELY FOR CORRECTION OR RE-DESIGN. FAILURE TO COMMUNICATE DIRECTLY WITH ATC ENGINEERING OR ANY CHANGES FROM THE DESIGN CONDUCTED WITHOUT PRIOR APPROVAL FROM ATC ENGINEERING SHALL BE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

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REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/04/21
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ATC SITE NUMBER:
383657

ATC SITE NAME:
ATLAS CONTAINER

VERIZON SITE NAME:
MERIDEN NO CT

SITE ADDRESS:
119 EMPIRE AVENUE
MERIDEN, CT 06450

SEAL:

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

GENERAL NOTES

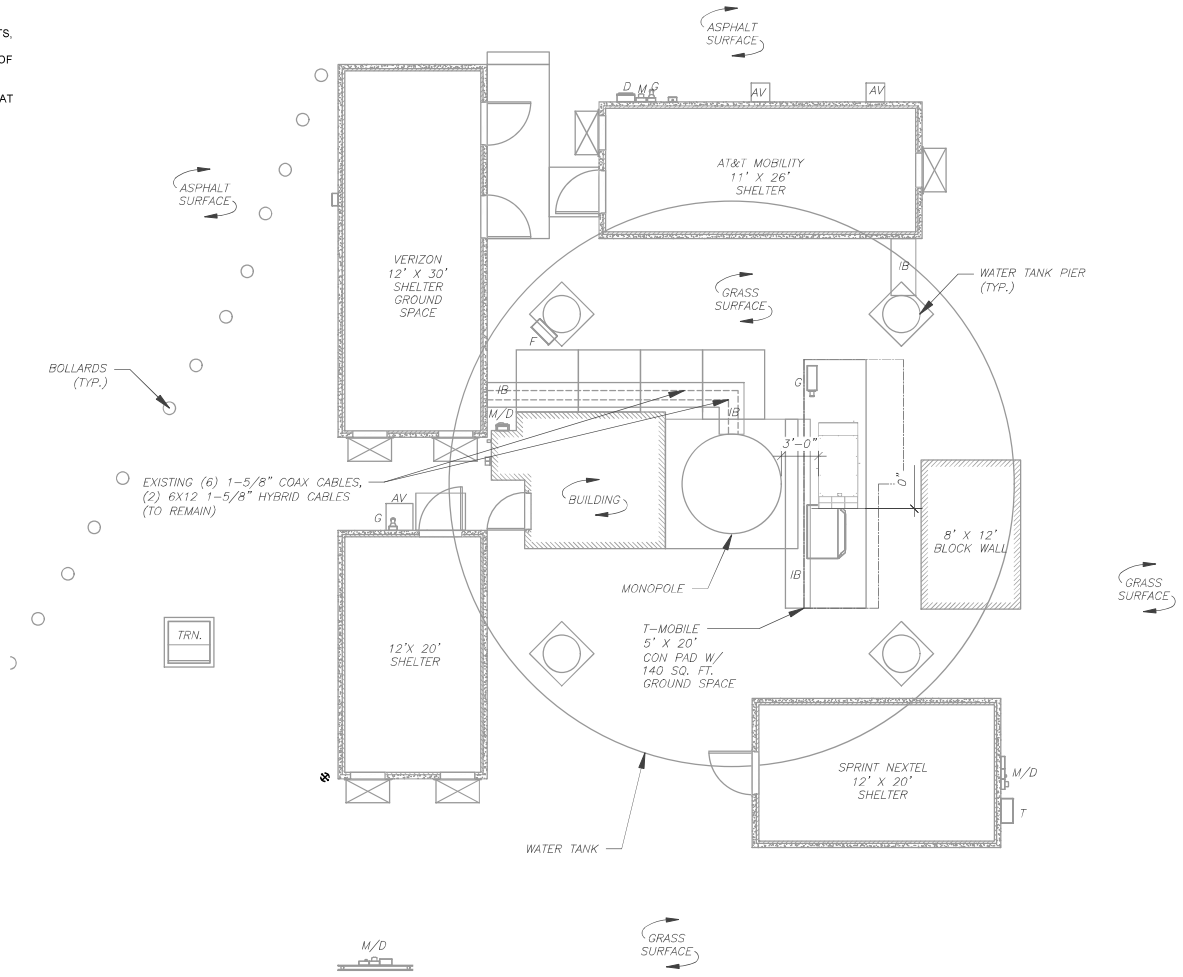
SHEET NUMBER:	REVISION:
G-002	0

SITE PLAN NOTES:

1. THIS SITE PLAN REPRESENTS THE BEST PRESENT KNOWLEDGE AVAILABLE TO THE ENGINEER AT THE TIME OF THIS DESIGN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO CONSTRUCTION AND VERIFY ALL EXISTING CONDITIONS RELATED TO THE SCOPE OF WORK FOR THIS PROJECT.
2. ICE BRIDGE, CABLE LADDER, COAX PORT, AND COAX CABLE ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL CONFIRM THE EXACT LOCATION OF ALL PROPOSED AND EXISTING EQUIPMENT AND STRUCTURES DEPICTED ON THIS PLAN. BEFORE UTILIZING EXISTING CABLE SUPPORTS, COAX PORTS, INSTALLING NEW PORTS OR ANY OTHER EQUIPMENT, CONTRACTOR SHALL VERIFY ALL ASPECTS OF THE COMPONENTS MEET THE ATC SPECIFICATIONS.
3. THIS PROJECT INCLUDES NO INSTALL OR MODIFICATION AT GRADE.

LEGEND

⊗	GROUNDING TEST WELL
ATS	AUTOMATIC TRANSFER SWITCH
B	BOLLARD
CSC	CELL SITE CABINET
D	DISCONNECT
E	ELECTRICAL
F	FIBER
GEN	GENERATOR
G	GENERATOR RECEPTACAL
HH, V	HAND HOLE, VAULT
IB	ICE BRIDGE
K	KENTROX BOX
LC	LIGHTING CONTROL
M	METER
PB	PULL BOX
PP	POWER POLE
T	TELCO
TRN	TRANSFORMER
——x——	CHAINLINK FENCE



1 DETAILED SITE PLAN

GRAPHIC SCALE

10 0 5 10

(IN FEET)
1 UNIT = 10 FEET

PROPOSED CABLE LENGTH:

1. ESTIMATED LENGTH OF PROPOSED CABLE IS **173'**. ESTIMATED LENGTH OF CABLE WAS PROVIDED BY CUSTOMER OR CALCULATED BY ADDING THE RAD CENTER AND THE DISTANCE FROM THE SHELTER ENTRY PLATE TO THE TOWER (ALONG THE ICE BRIDGE) AND A SAFETY FACTOR MEASUREMENT OF 15% (OF THE TWO PREVIOUS VALUES), CDS DEFER TO GREATEST CABLE LENGTH.
2. ROUTE PROPOSED CABLES ALONG SAME PATH AS EXISTING CABLES AND IN ACCORDANCE WITH STRUCTURAL ANALYSIS. WHERE POSSIBLE UTILIZE EXISTING CABLE SUPPORT STRUCTURES AS PROVIDED FOR CARRIER TO ADEQUATELY SECURE CABLES, USING EITHER APPROPRIATELY SIZED STAINLESS STEEL SNAP-INS OR MOUNTING HARDWARE AND BRACKETS AS SPECIFIED BY CABLE MANUFACTURER. OTHERWISE, ATTACH CABLES TO HORIZONTAL OR DIAGONAL TOWER MEMBERS USING PROPOSED STAINLESS STEEL ADAPTERS (DO NOT ATTACH TO TOWER LEG).

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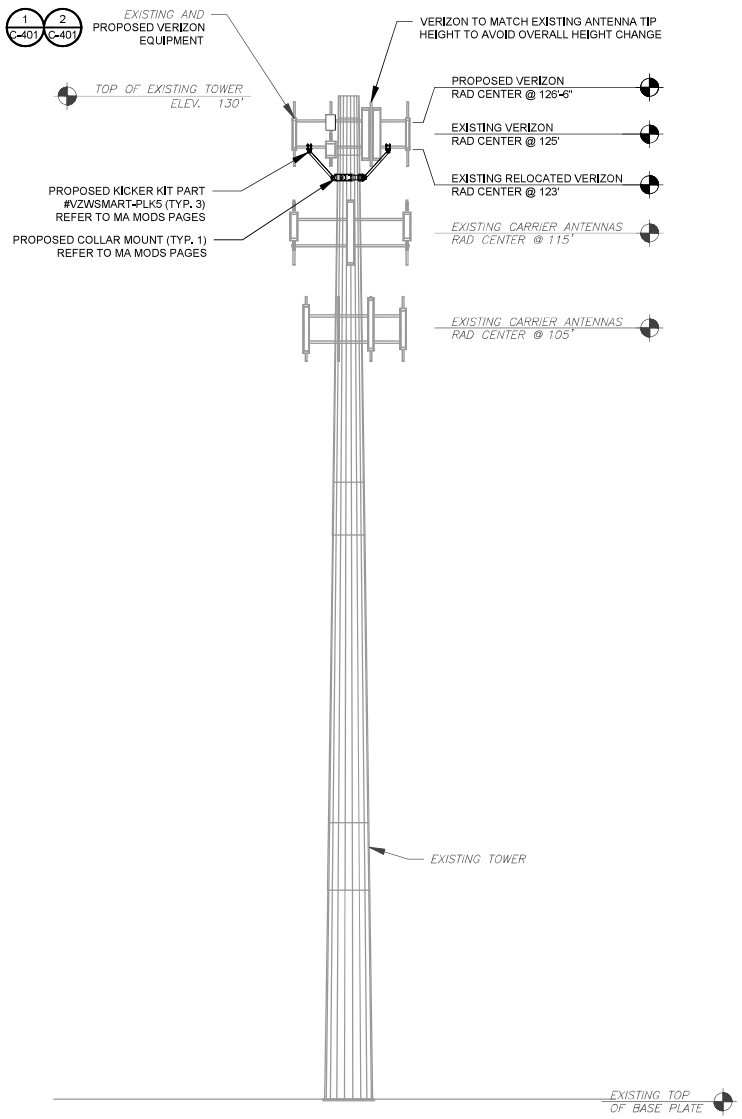
DETAILED SITE PLAN

SHEET NUMBER:	REVISION:
C-101	0



1 TOWER ELEVATION
SCALE: N.T.S.

PER MOUNT ANALYSIS COMPLETED BY MASER CONSULTING, DATED 10/05/21, THE EXISTING MOUNT MUST BE MODIFIED TO ADEQUATELY SUPPORT THE PROPOSED LOADING. THE MOUNT MODIFICATION DETAILED AT THE END OF THIS PLAN SET, MUST BE INSTALLED PRIOR TO THE INSTALLATION OF THE PROPOSED ANTENNAS AND OTHER EQUIPMENT.

TOWER NOTE:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM WITH THE PROJECT MANAGER THAT THEY HAVE THE MOST RECENT VERSION OF THE STRUCTURAL ANALYSIS BEFORE COMMENCING WORK. EXISTING AND PROPOSED TOWER APPURTENANCES, MOUNTS, AND ANTENNAS ARE SHOWN BASED ON THE STRUCTURAL ANALYSIS.
2. WHERE APPLICABLE, ALL NEW ANTENNAS, EQUIPMENT, MOUNTS, CABLING, ETC. SHALL BE PAINTED/SOCKED TO MATCH EXISTING EQUIPMENT IN ACCORDANCE WITH FAA, JURISDICTION, AND/OR OTHER LOCAL REQUIREMENTS.
3. TOWER ELEVATIONS ARE MEASURED FROM TOP OF BASE PLATE TO MATCH STRUCTURAL ANALYSIS. ELEVATIONS DO NOT REFLECT TRUE ABOVE GROUND LEVEL (A.G.L.)

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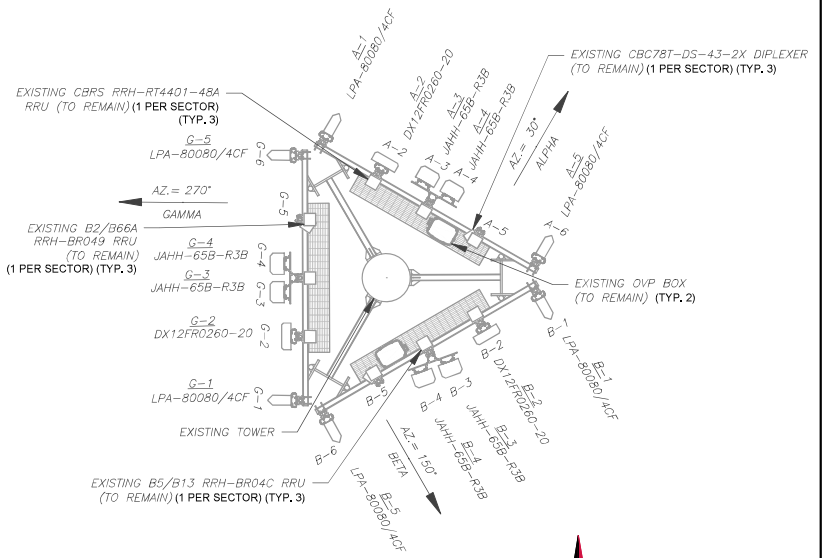
TOWER ELEVATION

SHEET NUMBER:	REVISION:
C-201	0



1 EXISTING ANTENNA PLAN

SCALE: N.T.S.

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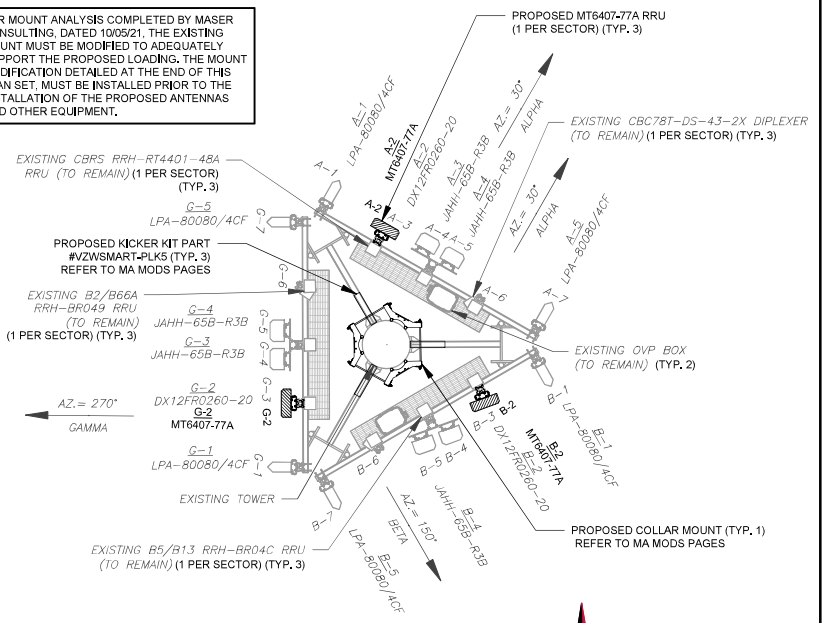

2 FINAL ANTENNA PLAN

SCALE: N.T.S.

EXISTING ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	125'	30°	A1	LPA–80080/4CF	CDMA 850	0/0	RMN	–	–
			A2	DX12FRO260–20	LTE	0/0	REL	CBRS RRH–RT4401–48A	–
			A3	JAHH–65B–R3B	700/850/1900/AWS	0/2,4,4,2,2	RMN	B5/B13 RRH–BR04C	RMN
			A4	JAHH–65B–R3B	700/850/1900/AWS	0/2,4,4,2,2	RMN		RMN
			A5	LPA–80080/4CF	CDMA 850	0/0	RMN	B2/B66 RRH–BR049	–
BETA	125'	160°	B1	LPA–80080/4CF	CDMA 850	0/0	RMN		–
			B2	DX12FR0260–20	LTE	0/0	REL	–	–
			B3	JAHH–65B–R3B	700/850/1900/AWS	0/4,8,8,2,2	RMN	B2/B66 RRH–BR049	RMN
			B4	JAHH–65B–R3B	700/850/1900/AWS	0/4,8,8,2,2	RMN	CBC78T–DS–43–2X	RMN
								B5/B13 RRH–BR04C	RMN
			B5	LPA–80080/4CF	CDMA 850	0/0	RMN	CBRS RRH–RT4401–48A	–
GAMMA	125'	270°	G1	LPA–80080/4CF	CDMA 850	2/0	RMN	–	–
			G2	DX12FR0260–20	LTE	0/0	REL	–	–
			G3	JAHH–65B–R3B	700/850/1900/AWS	0/2,4,4,2,2	RMN	B2/B66 RRH–BR049	RMN
			G4	JAHH–65B–R3B	700/850/1900/AWS	0/2,4,4,2,2	RMN	CBC78T–DS–43–2X	RMN
								B5/B13 RRH–BR04C	RMN
			G5	LPA–80080/4CF	CDMA 850	2/0	RMN	CBRS RRH–RT4401–48A	–

NOTES

1. CONFIRM WITH VERIZON REP FOR APPLICABLE UPDATES/REVISIONS AND MOST RECENT RFDS FOR NSN CONFIGURATION (CONFIG). GC TO CAP ALL UNUSED PORTS.
2. CONFIRM SPACING OF PROPOSED EQUIP DOES NOT CAUSE TOWER CONFLICTS NOR IMPEDE TOWER CLIMBING PEGS.

STATUS ABBREVIATIONS

RMV: TO BE REMOVED
RMN: TO REMAIN
REL: TO BE RELOCATED
ADD: TO BE ADDED

CABLE LENGTHS FOR JUMPERS

JUNCTION BOX TO RRU: 15'
RRU TO ANTENNA: 10'

FINAL ANTENNA SCHEDULE

LOCATION			ANTENNA SUMMARY					NON ANTENNA SUMMARY	
SECTOR	RAD	AZ	POS	ANTENNA	BAND	MECH/ELEC D-TILT	STATUS	ADDITIONAL TOWER MOUNTED EQUIPMENT	STATUS
ALPHA	125'	30°	A1	LPA-80080/4CF	CDMA 850	0/0	RMN	-	-
	126,5'		A2	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
	123'		A3	DX12FRO260-20	LTE	0/0	REL	CBRS RRH-RT4401-48A	-
	125'		A4	JAHH-65B-R3B	700/850/1900/AWS	0/2,4,4,,2,2	RMN	B5/B13 RRH-BR04C	REL
			A5	JAHH-65B-R3B	700/850/1900/AWS	0/2,4,4,,2,2	RMN		
			A6	-	-	-	-	B2/B66 RRH-BR049	REL
								CBC78T-DS-43-2X	REL
			A7	LPA-80080/4CF	CDMA 850	0/0	RMN	-	-
BETA	125'	160°	B1	LPA-80080/4CF	CDMA 850	0/0	RMN	-	-
	126,5'		B2	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
	123'		B3	DX12FRO260-20	LTE	0/0	REL	CBRS RRH-RT4401-48A	-
	125'		B4	JAHH-65B-R3B	700/850/1900/AWS	0/4,8,8,2,2	RMN	B5/B13 RRH-BR04C	REL
			B5	JAHH-65B-R3B	700/850/1900/AWS	0/4,8,8,2,2	RMN		
			B6	-	-	-	-	B2/B66 RRH-BR049	REL
								CBC78T-DS-43-2X	REL
			B7	LPA-80080/4CF	CDMA 850	0/0	RMN	-	-
GAMMA	125'	270°	G1	LPA-80080/4CF	CDMA 850	2/0	RMN	-	-
	126,5'		G2	MT6407-77A	L-SUB6	0/6	ADD	MT6407-77A	ADD
	123'		G3	DX12FRO260-20	LTE	0/0	REL	CBRS RRH-RT4401-48A	-
	125'		G4	JAHH-65B-R3B	700/850/1900/AWS	0/2,4,4,,2,2	RMN	B5/B13 RRH-BR04C	REL
			G5	JAHH-65B-R3B	700/850/1900/AWS	0/2,4,4,,2,2	RMN		
			G6	-	-	-	-	B2/B66 RRH-BR049	REL
								CBC78T-DS-43-2X	REL
			G7	LPA-80080/4CF	CDMA 850	2/0	RMN	-	-

EXISTING FIBER DISTRIBUTION/OVP BOX		EXISTING CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP–6	RMN	(6)1–5/8"	(2) 6X12 1–5/8"	RMN

3 EQUIPMENT SCHEDULES

FINAL FIBER DISTRIBUTION / OVP BOX		FINAL CABLING SUMMARY		
MODEL NUMBER	STATUS	COAX	HYBRID	STATUS
(2) OVP-6	RMN	(6) 1–5/8"	(2) 6X12 1–5/8"	RMN

AMERICAN TOWER®

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Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/04/21
0	FINAL	BR	11/11/21

ATC SITE NUMBER:
383657

ATC SITE NAME:
ATLAS CONTAINER

VERIZON SITE NAME:
MERIDEN NO CT

SITE ADDRESS:
119 EMPIRE AVENUE
MERIDEN, CT 06450

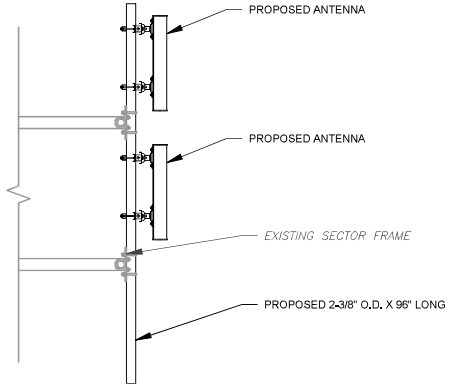
SEAL:

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

ANTENNA INFORMATION & SCHEDULE

SHEET NUMBER:	REVISION:
C-401	0



1 PROPOSED 5G ANTENNA MOUNTING DETAIL - TYPICAL

SCALE: N.T.S.

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FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/03/21
0	FINAL	BR	11/11/21

ATC SITE NUMBER:
383657

ATC SITE NAME:
ATLAS CONTAINER

VERIZON SITE NAME:
MERIDEN NO CT

SITE ADDRESS:
119 EMPIRE AVENUE
MERIDEN, CT 06450

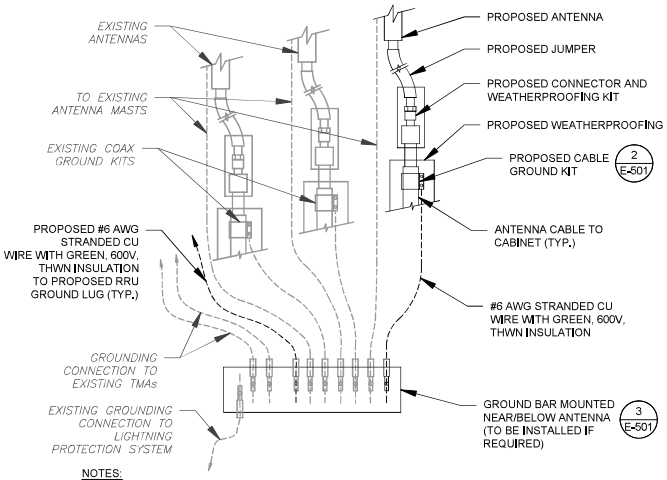
SEAL:

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

CONSTRUCTION DETAILS

SHEET NUMBER:	REVISION:
C-501	0

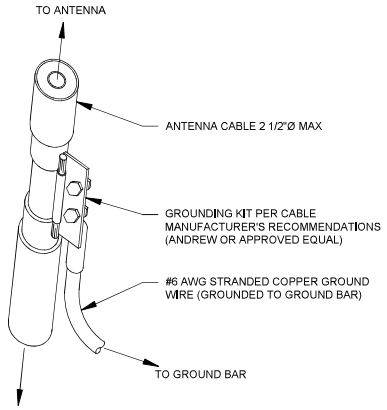


NOTES:

1. THIS DETAIL IS INTENDED TO SHOW THE GENERAL GROUNDING REQUIREMENTS. SLIGHT ADJUSTMENTS MAY BE REQUIRED BASED ON EXISTING SITE CONDITIONS. THE CONTRACTOR SHALL MAKE FIELD ADJUSTMENTS AS NEEDED AND INFORM THE CONSTRUCTION MANAGER OF ANY CONFLICTS.
2. SITE GROUNDING SHALL COMPLY WITH VERIZON GROUNDING STANDARDS, LATEST EDITION, AND COMPLY WITH VERIZON GROUNDING CHECKLIST, LATEST VERSION. WHEN NATIONAL AND LOCAL GROUNDING CODES ARE MORE STRINGENT THEY SHALL GOVERN.

1 TYPICAL ANTENNA GROUNDING DIAGRAM

SCALE: N.T.S.

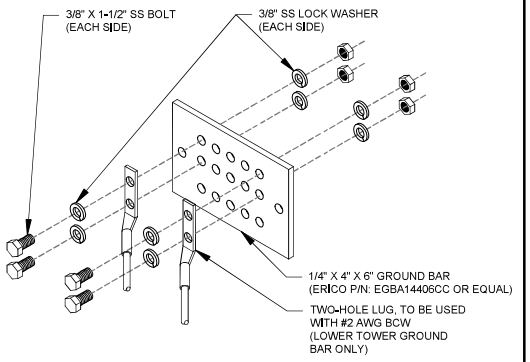


GROUND KIT NOTES:

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.
2. CONTRACTOR SHALL PROVIDE WEATHERPROOFING KIT (ANDREW PART NUMBER 221213) AND INSTALL/TAPE PER MANUFACTURER'S SPECIFICATIONS.

2 CABLE GROUND KIT CONNECTION DETAIL

SCALE: N.T.S.



GROUND BAR NOTES:

1. GROUND BAR KITS COME WITH ALL HARDWARE, NUTS, BOLTS, WASHERS, ETC. EXCEPT THE STRUCTURAL MOUNTING MEMBER(S).
2. GROUND BAR TO BE BONDED DIRECTLY TO TOWER.

3 TOWER GROUND BAR DETAIL

SCALE: N.T.S.

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Dewberry®
Dewberry Engineers Inc.
99 SUMMER STREET
SUITE 700
BOSTON, MA 02110
PHONE: 617.695.3400
FAX: 617.695.3310

REV.	DESCRIPTION	BY	DATE
A	PRELIM	SN	06/03/21
0	FINAL	BR	11/11/21

ATC SITE NUMBER:
383657

ATC SITE NAME:
ATLAS CONTAINER

VERIZON SITE NAME:
MERIDEN NO CT

SITE ADDRESS:
119 EMPIRE AVENUE
MERIDEN, CT 06450

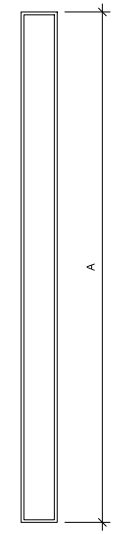
SEAL:

verizon

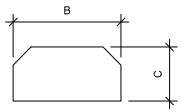
DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

GROUNDING DETAILS

SHEET NUMBER:	REVISION:
E-501	0



FRONT VIEW



TOP VIEW

1 ANTENNA SPECIFICATIONS

FOR ILLUSTRATIVE PURPOSES ONLY - NOT TO SCALE

ANTENNA SPECIFICATIONS				
ANTENNA MODEL	A	B	C	WEIGHT (LBS)
MT6407-77A	35.1"	16.1"	5.5"	81.6
CX12FRO260-20	24.0"	15.0"	5.3"	12.3

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ATC SITE NUMBER:
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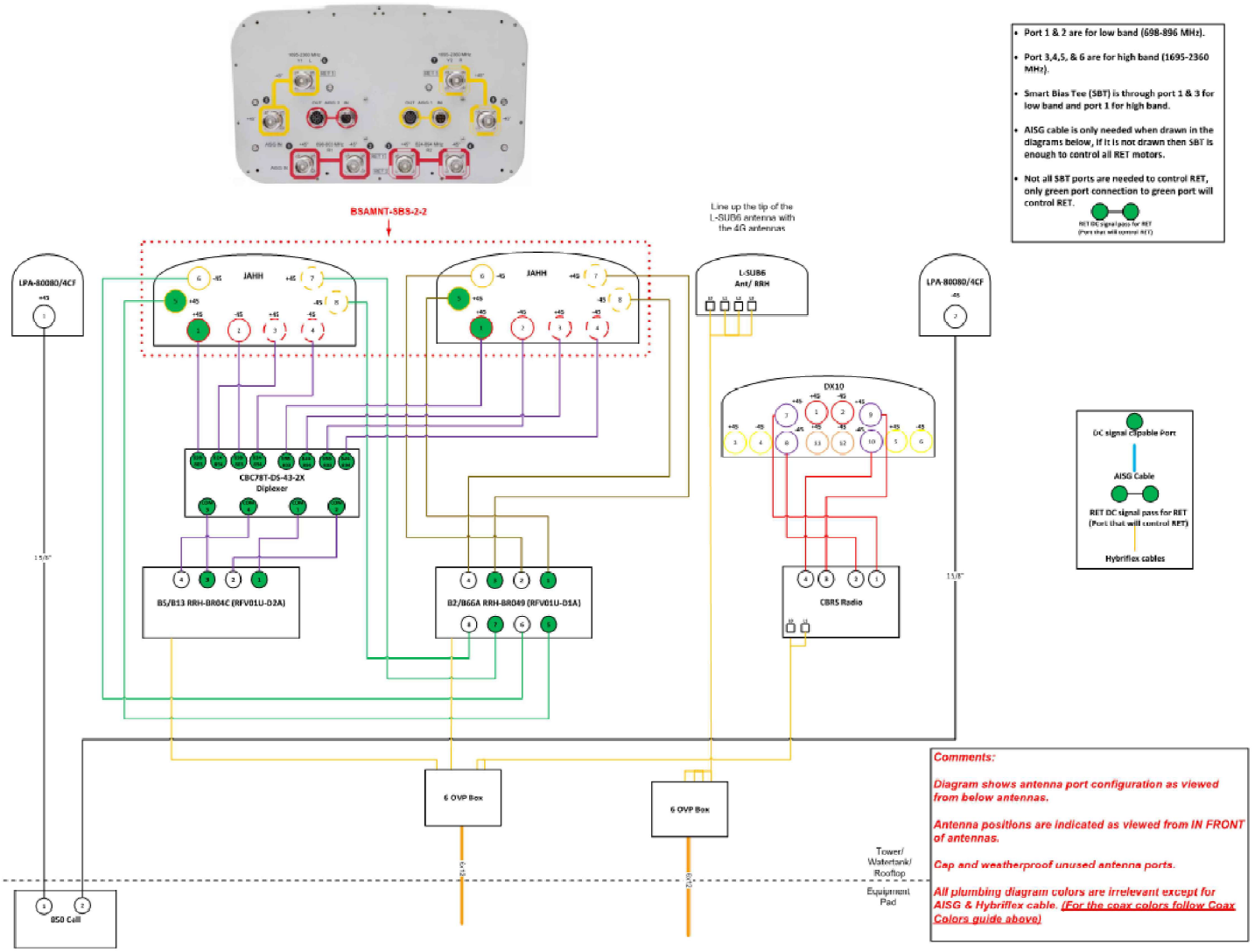
119 EMPIRE AVENUE
MERIDEN, CT 06450

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

SUPPLEMENTAL

SHEET NUMBER:
R-601



1 PLUMBING DIAGRAM

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ATC SITE NUMBER:
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VERIZON SITE NAME:
MERIDEN NO CT

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119 EMPIRE AVENUE
MERIDEN, CT 06450

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

SUPPLEMENTAL

SHEET NUMBER:
R-602

Maser Consulting Connecticut
2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
856.797.0412
Peter.Albano@CollinsEngineering.com

Post-Modification Antenna Mount Analysis Report and PMI Requirements

Mount Fix

SMART Tool Project #: 10104945
Maser Consulting Connecticut Project #: 21777434A

October 5, 2021

Site Information	*Site ID:*	*468208-VZW / MERIDEN NORTH CT*
	Site Name:	*MERIDEN NORTH CT*
	Carrier Name:	*Verizon Wireless*
	Address:	*119 Empire Avenue* *Meriden, Connecticut 06450* *New Haven County*
	Latitude:	*41.572764°*
	Longitude:	*-72.778875°*
Structure Information	*Tower Type:*	*125-Ft Monopole*
	Mount Type:	*13.25-Ft Platform*

FUZE ID # 16244088

Analysis Results

Platform: **86.3% Pass**

Contractor PMI Requirements:
Included at the end of this MA report
Available & Submitted via portal at https://pmi.vzwsmart.com
Contractor - Please Review Specific Site PMI Requirements Upon Award
Requirements also Noted on Mount Modification Drawings
Requirements may also be Noted on A & E drawings
For additional questions and support, please reach out to:
pmisupport@colliersengineering.com

Report Prepared By: Frank Centone

STATE OF CONNECTICUT — JUSTIN PETER LINETTE — No. 31065 — PROFESSIONAL ENGINEER

Digitally signed by Justin Linette
Date: 2021.10.05 12:34:42-04'00'

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

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

Analysis Results:

Component	Utilization %	Pass/Fail
Standoff Horizontal	28.2%	Pass
Face Horizontal	23.1%	Pass
Mount Pipe	46.6%	Pass
Dual Mount Pipe	38.7%	Pass
MOD Kicker	8.8%	Pass
Mount Connection	86.3%	Pass
Structure Rating – *(Controlling Utilization of all Components)*		**86.3%**

Recommendation:

The existing mounts will be **SUFFICIENT** for the final loading after the proposed modifications are successfully completed.

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

Attachments:

1. Mount Photos
2. Mount Mapping Report (for reference only)
3. Analysis Calculations
4. **Contractor Required PMI Report Deliverables**
5. Antenna Placement Diagrams
6. TIA Adoption and Wind Speed Usage Letter

1 MOUNT ANALYSIS

NOTE: THIS SHEET WAS CREATED BY OTHERS AND PROVIDED AT THE REQUEST OF THE CUSTOMER WITHOUT EDIT. PLEASE REFERENCE THE MOUNT ANALYSIS REPORT FOR COMPLETE MOUNT ANALYSIS CALCULATIONS AND DETAILS. SUPPLEMENTAL PAGES INCLUDED IN THE CONSTRUCTION DRAWINGS ARE FOR REFERENCE ONLY. GENERAL CONTRACTOR IS TO VERYIFY THEY HAVE THE MOST RECENT MOUNT ANALYSIS PRIOR TO CONTRUCTION.

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BOSTON, MA 02110
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FAX: 617.695.3310

ATC SITE NUMBER:
383657

ATC SITE NAME:
ATLAS CONTAINER

VERIZON SITE NAME:
MERIDEN NO CT

SITE ADDRESS:
119 EMPIRE AVENUE
MERIDEN, CT 06450

verizon

DATE DRAWN:	06/03/21
ATC JOB NO:	13668707
CUSTOMER ID:	MERIDEN NO CT
CUSTOMER #:	468208

SUPPLEMENTAL

SHEET NUMBER:
R-603

verizon

MOUNT MODIFICATION DRAWINGS
EXISTING 13.25' PLATFORM

TOWER OWNER: AMERICAN TOWER CORPORATION
TOWER OWNER SITE NUMBER: 383657

CARRIER SITE NAME: MERIDEN NORTH CT
CARRIER SITE NUMBER: 468208
FUZE ID: 16244088

119 EMPIRE AVE
MERIDEN, CT 06450
NEW HAVEN COUNTY

LATITUDE: 41.572764° N
LONGITUDE: 72.778875° W

DESIGN CRITERIA

WIND LOADS

BASIC WIND SPEED (3 SECOND GUST), V = 119 MPH
EXPOSURE CATEGORY C
TOPOGRAPHIC CATEGORY 1
MEAN BASE ELEVATION (AMSL) = 158'

ICE LOADS

ICE WIND SPEED (3 SECOND GUST), V = 50 MPH
ICE THICKNESS = 1.00 IN

SEISMIC LOADS

SEISMIC DESIGN CATEGORY B
SHORT TERM MCER GROUND MOTION, S_s = .202
LONG TERM MCER GROUND MOTION, S_1 = .055

PROJECT INFORMATION

APPLICANT/LESSEE

COMPANY: VERIZON WIRELESS

CLIENT REPRESENTATIVE

COMPANY: VERIZON WIRELESS

PROJECT MANAGER

COMPANY: COLLIERS ENGINEERING & DESIGN
CONTACT: PETER ALBANO
PHONE: 856.797.0412
E-MAIL: PETER.ALBANO@COLLIERSENGINEERING.COM

CONTRACTOR PMI REQUIREMENTS

PMI LOCATION: HTTPS://PMI.VZWSMART.COM
SMART TOOL PROJECT #: 10104945
VZW LOCATION CODE (PSLC): 468208
ANALYSIS DATE: 10/5/2021

PMI REQUIREMENTS EMBEDDED WITHIN MOUNT MODIFICATION REPORT

SHEET INDEX

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FOR STATE SPECIFIC DIRECT PHONE NUMBERS VISIT: WWW.CALLB1.COM

SCALE:	JOB NUMBER:
AS SHOWN	21777434A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
0	10/5/2021	ISSUED FOR CONSTRUCTION	ML	JL

STATE OF CONNECTICUT — JUSTIN PETER LINETTE — 31965 — LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Peter Linette
Date: 2021.10.05 12:37:23-04'00'

SITE NAME:

MERIDEN NORTH CT
468208

119 EMPIRE AVE
MERIDEN, CT 06450
NEW HAVEN COUNTY

MT. LAUREL
2000 Midlantic Drive
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
ST-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.

BILL OF MATERIALS

SECTION 1 - VZWSMART KITS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
1	VZWSMART	VZWSMART-PLK5	KICKER KIT	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1	291	291
1		VZWSMART-PLK7	MONOPOLE COLLAR MOUNT ASSEMBLY		150	150

SECTION 2 - OTHER REQUIRED PARTS

QUANTITY	MANUFACTURER	PART NUMBER	DESCRIPTION	NOTES	UNIT WEIGHT (LBS.)	WEIGHT (LBS.)
					TOTAL:	441

VZWSMART KITS - APPROVED VENDORS

COMMSCOPE	
CONTACT	SALVADOR ANGUIANO
PHONE	(817) 304-7492
EMAIL	SALVADOR.ANGUIANO@COMMSCOPE.COM
WEBSITE	WWW.COMMSCOPE.COM
METROSITE FABRICATORS, LLC	
CONTACT	KENT RAMEY
PHONE	(706) 335-7045 (O), (706) 982-9788 (M)
EMAIL	KENT@METROSITELLC.COM
WEBSITE	METROSITEFABRICATORS.COM
PERFECTVISION	
CONTACT	WIRELESS SALES
PHONE	(844) 887-6723
EMAIL	WWW.PERFECT-VISION.COM
WEBSITE	WIRELESSSALES@PERFECT-VISION.COM
SABRE INDUSTRIES, INC.	
CONTACT	ANGIE WELCH
PHONE	(866) 428-6937
EMAIL	AKWELCH@SABREINDUSTRIES.COM
WEBSITE	WWW.SABRESITESOLUTIONS.COM
SITE PRO 1	
CONTACT	PAULA BOSWELL
PHONE	(972) 236-9843
EMAIL	PAULA.BOSWELL@VALMONT.COM
WEBSITE	WWW.SITEPRO1.COM

NOTES:

1. THE MANUFACTURERS LISTED ARE THE APPROVED VENDORS FOR THE VZW MOUNT KITS. EACH MANUFACTURER WILL BE AWARE OF WHICH KITS HAVE BEEN THROUGH THE VZW APPROVAL PROCESS AND THEY ARE IN TURN APPROVED TO SELL. PLEASE NOTE THAT THE MATERIAL UTILIZED ON THE MOUNT MODIFICATIONS WILL BE REVIEWED AS A PART OF THE DESKTOP PMI COMPLETED BY THE SMART TOOL VENDOR. IT WILL BE REQUIRED THAT THE VZW KITS SPECIFIED ARE UTILIZED IN THE MODIFICATIONS.
2. ALL MATERIALS REQUIRED FOR THE DESIGNED MODIFICATIONS BUT NOT LISTED IN THIS SHEET ARE ASSUMED TO BE PROVIDED BY THE CONTRACTOR.

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SCALE: AS SHOWN | JOB NUMBER: 21777434A

REV	DATE	DESCRIPTION	DRAWN BY	CHECKED BY
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
0	10/5/2021	ISSUED FOR CONSTRUCTION	NL	JL

STATE OF CONNECTICUT — JUSTIN PETER LINETTE — 31965 — LICENSED PROFESSIONAL ENGINEER

Digitally signed by Justin Peter Linette
Date: 2021.10.05 12:37:40-04'00'

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

SITE NAME:

MERIDEN NORTH CT
468208

119 EMPIRE AVE
MERIDEN, CT 06450
NEW HAVEN COUNTY

MT. LAUREL
2000 Midlantic Drive,
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC. DOING BUSINESS AS MASER CONSULTING

SHEET TITLE: BILL OF MATERIALS

SHEET NUMBER: SBOM-1

PROJECT NOTES

1. SEE MODIFICATION NOTES
2. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES OR OTHER PUBLIC/GOVERNING AUTHORITIES.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
4. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE AS A RESULT OF CONSTRUCTION OF THIS FACILITY AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
6. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING THE BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND CONSTRUCTION DRAWINGS.
8. THE CONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THESE DRAWINGS MUST BE VERIFIED. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
9. SINCE THE CELL SITE MAY BE ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE REQUIRED TO BE WORN TO ALERT OF ANY POTENTIALLY DANGEROUS EXPOSURE LEVELS.
10. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY AS TO CAUSE A NUISANCE.
11. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS IS REQUIRED).

GENERAL NOTES

1. THESE MODIFICATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE TELECOMMUNICATIONS INDUSTRY STANDARD TIA-222-H. MATERIALS AND SERVICES PROVIDED BY THE CONTRACTOR SHALL CONFORM TO THE ABOVE MENTIONED CODES.
2. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE TO EXISTING STRUCTURES. ANY DAMAGE TO EXISTING STRUCTURES AS A RESULT OF THE CONTRACTOR'S WORK OR FROM DAMAGE DUE TO OTHER CAUSES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS BEFORE BEGINNING WORK, ORDERING MATERIAL AND PREPARING OF SHOP DRAWINGS. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND THE CONTRACT DOCUMENTS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. IF THE CONTRACTOR DISCOVERS ANY EXISTING CONDITIONS THAT ARE NOT REPRESENTED ON THESE DRAWINGS, OR ANY CONDITIONS THAT WOULD INTERFERE WITH THE INSTALLATION OF THE MODIFICATIONS, NOTIFY THE ENGINEER IMMEDIATELY.
4. IT IS ASSUMED THAT ANY STRUCTURAL MODIFICATION WORK SPECIFIED ON THESE PLANS WILL BE ACCOMPLISHED BY KNOWLEDGEABLE WORKMEN WITH TOWER CONSTRUCTION EXPERIENCE.
5. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, MEANS, TECHNIQUES, SEQUENCES, AND PROCEDURES.
6. ALL CONSTRUCTION MEANS AND METHODS; INCLUDING BUT NOT LIMITED TO, ERECTION PLANS, RIGGING PLANS, CLIMBING PLANS, AND RESCUE PLANS SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR RESPONSIBLE FOR THE EXECUTION OF THE WORK CONTAINED HEREIN AND SHALL MEET ANSI/TIA-322 (LATEST EDITION), OSHA, AND GENERAL INDUSTRY STANDARDS. ALL RIGGING PLANS SHALL ADHERE TO ANSI/TIA-322 (LATEST EDITION) INCLUDING THE REQUIRED INVOLVEMENT OF A QUALIFIED ENGINEER FOR CLASS IV CONSTRUCTION.
7. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PROGRAMS IN ACCORDANCE WITH APPLICABLE SAFETY CODES.
8. WORK SHALL ONLY BE PERFORMED DURING CALM DRY DAYS (WINDS LESS THAN 30-MPH). THE STRUCTURE SHOWN ON THE DRAWINGS IS STRUCTURALLY SOUND ONLY IN THE COMPLETED FORM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STRENGTH AND STABILITY OF THE STRUCTURE DURING ERECTION. CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT, SHORING, BRACING AND ANY OTHER STRUCTURAL SYSTEMS AS REQUIRED TO RESIST ALL FORCES THAT MAY OCCUR DURING HANDLING AND ERECTION UNTIL THE STRUCTURE IS FULLY COMPLETED. TEMPORARY SUPPORTS, BRACING AND OTHER STRUCTURAL SYSTEMS REQUIRED DURING CONSTRUCTION SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THEIR USE.
9. ALL INSTALLATIONS PERFORMED ON THIS STRUCTURE SHALL BE COMPLETED IN ACCORDANCE WITH THE GOVERNING PROVISIONS OF THE STANDARD FOR INSTALLATION, ALTERATION AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS, ANSI/TIA-322.
10. CONTRACTOR SHALL SECURE SITE BACK TO EXISTING CONDITION UNDER SUPERVISION OF OWNER. ALL FENCE, STONE, GEOFABRIC, GROUNDING, AND SURROUNDING GRADE SHALL BE REPLACED AND REPAIRED AS REQUIRED TO ACHIEVE OWNER APPROVAL. POSITIVE DRAINAGE AWAY FROM TOWER SITE SHALL BE MAINTAINED.
11. CONNECTIONS BETWEEN ITEMS SUPPORTED BY THE STRUCTURE AND THE STRUCTURE NOT SPECIFICALLY DETAILED IN THE CONTRACT DOCUMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR. SUCH CONNECTIONS SHALL BE DESIGNED, COORDINATED AND INSPECTED BY A PROFESSIONAL STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT. SUBMIT SIGNED AND SEALED CALCULATIONS DURING SHOP DRAWING REVIEW.
12. DO NOT SCALE DRAWINGS.
13. DO NOT USE THESE DRAWINGS FOR ANY OTHER SITE.
14. ALL MATERIAL UTILIZED FOR THIS PROJECT MUST BE NEW AND FREE OF ANY DEFECTS. ANY MATERIAL SUBSTITUTIONS, INCLUDING BUT NOT LIMITED TO ALTERED SIZE AND/OR STRENGTHS, MUST BE APPROVED BY THE OWNER AND ENGINEER IN WRITING.
15. THE MOUNT UNDER NO CIRCUMSTANCES SHOULD BE USED AS A TIE OFF POINT.

STRUCTURAL STEEL

1. DESIGN, DETAILING, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING PUBLICATIONS EXCEPT AS SPECIFICALLY INDICATED IN THE CONTRACT DOCUMENTS.
   a. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) MANUAL OF STEEL CONSTRUCTION (15TH EDITION)
   b. SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS
   c. AISC CODE OF STANDARD PRACTICE
2. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE SHOWN:

CHANNELS, ANGLES, PLATES, ETC.	ASTM A36 (GR 36)
STEEL PIPE	ASTM A53 (GR 35)
BOLTS	ASTM A325
NUTS	ASTM A563
LOCK WASHERS	LOCKING STRUCTURAL GRADE

3. ALL SUBSTITUTIONS PROPOSED BY THE CONTRACTOR SHALL BE APPROVED IN WRITING BY THE ENGINEER. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO ENGINEER FOR VERIFYING THE SUBSTITUTE IS SUITABLE FOR USE AND MEETS ORIGINAL DESIGN CRITERIA. DIFFERENCES FROM THE ORIGINAL DESIGN, INCLUDING MAINTENANCE, REPAIR AND REPLACEMENT, SHALL BE NOTED. ESTIMATES OF COSTS/CREDITS ASSOCIATED WITH THE SUBSTITUTION (INCLUDING RE-DESIGN COSTS AND COSTS TO SUB-CONTRACTORS) SHALL BE PROVIDED TO THE ENGINEER. CONTRACTOR SHALL PROVIDE ADDITIONAL DOCUMENTATION AND/OR SPECIFICATIONS TO THE ENGINEER AS REQUESTED.
4. PROVIDE STRUCTURAL STEEL SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION.
   a. SUBMIT SHOP DRAWINGS TO
      PETER.ALBANO@COLLIERSENGINEERING.COM
   b. PROVIDE MASER CONSULTING PROJECT # AND MASER CONSULTING PROJECT ENGINEER CONTACT IN THE BODY OF THE EMAIL.
5. DRILL NO HOLES IN ANY NEW OR EXISTING STRUCTURAL STEEL MEMBERS OTHER THAN THOSE SHOWN ON STRUCTURAL DRAWINGS WITHOUT THE APPROVAL OF THE ENGINEER OF RECORD.
6. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
7. ALL NEW STEEL SHALL BE HOT BE DIPPED GALVANIZED FOR FULL WEATHER PROTECTION. IN ADDITION ALL NEW STEEL SHALL BE PAINTED TO MATCH EXISTING STEEL. CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROTECT STEEL BY ANY OTHER MEANS.
8. CONTRACTOR SHALL PROTECT CUT ENDS OF ALL FIELD-CUT STEEL WITH TWO (2) COATS OF COLD GALVANIZATION (ZINGA OR ZINC COTE).
9. ALL BOLT ASSEMBLIES FOR STRUCTURAL MEMBERS REPRESENTED IN THIS DRAWING REQUIRE LOCKING DEVICES TO BE INSTALLED IN ACCORDANCE WITH TIA-222-H SECTION 4.9.2 REQUIREMENTS.
10. WHERE CONNECTIONS ARE NOT FULLY DETAILED ON THESE DRAWINGS, FABRICATOR SHALL DESIGN CONNECTIONS TO RESIST LOADS AND FORCES WHERE SHOWN ON DRAWINGS AND AS OUTLINED IN SPECIFICATIONS.
11. FOR MEMBERS BEING REPLACED, PROVIDE NEW BOLTS AND MATCH EXISTING SIZE AND GRADE. MAINTAIN AISC REQUIREMENTS FOR MINIMUM BOLT DISTANCE AND SPACING.
12. ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT IS AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
13. GALVANIZED ASTM A325 BOLTS SHALL NOT BE REUSED.
14. ALL EXISTING PAINTED/GALVANIZED SURFACES DAMAGED DURING REHAB INCLUDING AREAS UNDER STIFFENER PLATES SHALL BE WIRE BRUSHED CLEAN, REPAIRED BY COLD GALVANIZING (ZINGA OR ZINC COTE), AND REPAINTED TO MATCH THE EXISTING FINISH (IF APPLICABLE).
15. ALL HOLES IN STEEL MEMBERS SHALL BE SIZED 1/16" LARGER THAN THE BOLT DIAMETER. STANDARD HOLES SHALL BE USED UNLESS NOTED OTHERWISE.

WELDING NOTES

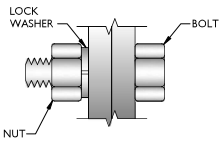
1. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH AWS D1.0 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELD INSPECTION (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS. PRE, DURING, AND POST INSTALLATION, USING THE ACCEPTANCE CRITERIA OF AWS D1.1.
2. CONTRACTOR IS RESPONSIBLE FOR COMMISSIONING A THIRD PARTY CERTIFIED WELD INSPECTOR (CWI) THROUGHOUT THE ENTIRETY OF THE PROJECT. A PASSING CWI REPORT SHALL BE PROVIDED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
3. THE CERTIFIED WELD INSPECTOR SHALL INDICATE, IN A WRITTEN CWI REPORT, THAT ALL WELDING OPERATIONS PRE, DURING, AND POST INSTALLATION WERE CONDUCTED IN ACCORDANCE WITH AWS D1.1 WITH PHOTOGRAPHS AND DOCUMENTATION SUPPORTING THE ACCEPTANCE OR REJECTION OF ALL WELDING. ALL CWI WELD INSPECTION DOCUMENTATION AND PHOTOS SHALL BE SUBMITTED DURING THE PMI.
4. IN CASES WHERE A WELD IS SPECIFIED BETWEEN TWO MEMBERS IN WHICH THERE IS A GAP IN BETWEEN, THE WELD IS TO BE BUILT-UP SUCH THAT THE SIZE OF WELD ON THE MEMBER IS EQUAL TO THAT SHOWN IN THE DRAWINGS.
5. OXY FUEL GAS WELDING OR BRAZING IS STRICTLY PROHIBITED. SPECIFICALLY, NO TORCH CUTTING IS PERMITTED ON SITE. ALL HOLES SHALL BE CUT WITH A GRINDER.
6. CONTRACTOR SHALL EXERCISE CAUTION WHEN WELDING A GALVANIZED SURFACE.
7. CONTRACTOR SHALL HAVE A FIRE PROTECTION PLAN IN PLACE THAT CONFORMS WITH ALL OSHA, ANSI/ASSP A10.48, ANSI Z49.1, AND LOCAL JURISDICTIONAL REQUIREMENTS.

BOLT SCHEDULE (IN.)

BOLT DIAMETER	STANDARD HOLE	SHORT SLOT	MIN. EDGE DISTANCE	SPACING
1/2	9/16	9/16 x 11/16	7/8	1 1/2
5/8	11/16	11/16 x 7/8	1 1/8	1 7/8
3/4	13/16	13/16 x 1	1 1/4	2 1/4
7/8	15/16	15/16 x 1 1/8	1 1/2	2 5/8
1	1 1/16	1 1/16 x 1 5/16	1 3/4	3

WORKABLE GAGES (IN.)

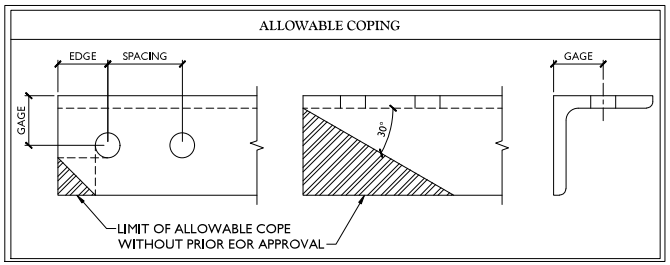
LEG	GAGE
4	2 1/2
3 1/2	2
3	1 3/4
2 1/2	1 3/8
2	1 1/8



TYP. BOLT ASSEMBLY

NOTES:

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



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STATE OF CONNECTICUT
JUSTIN PETER LINETTE
31965
LICENSED PROFESSIONAL ENGINEER
Digitally signed by Justin Peter Linette
Date: 2021.10.05 12:37:18-04'00'

SITE NAME:

MERIDEN NORTH CT
468208

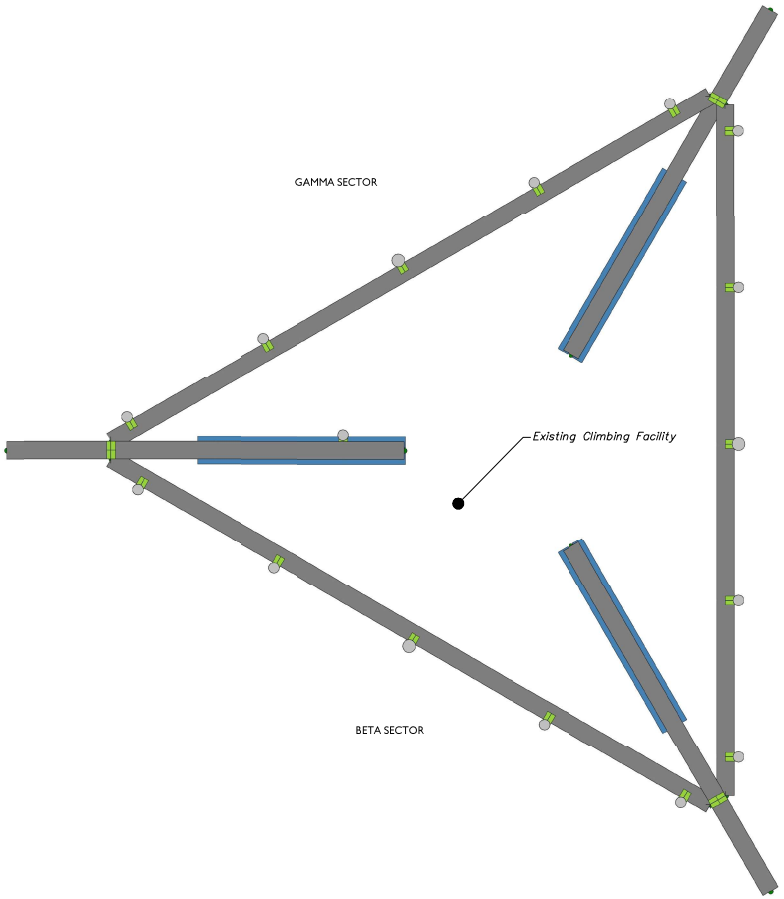
119 EMPIRE AVE
MERIDEN, CT 06450
NEW HAVEN COUNTY

MT. LAUREL
2000 Midlantic Drive
Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

SHEET TITLE:
MODIFICATION NOTES

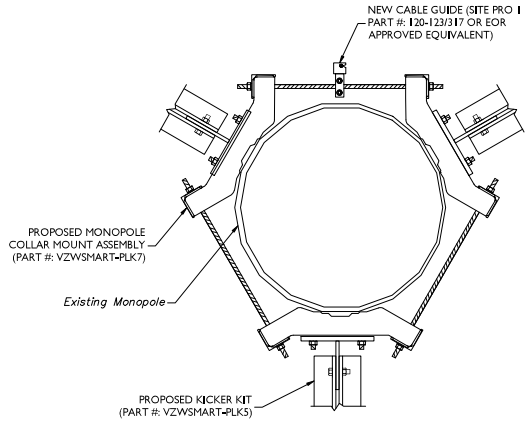
SHEET NUMBER:
SGN-1

NOTE: DO NOT SCALE DRAWINGS FOR CONSTRUCTION.



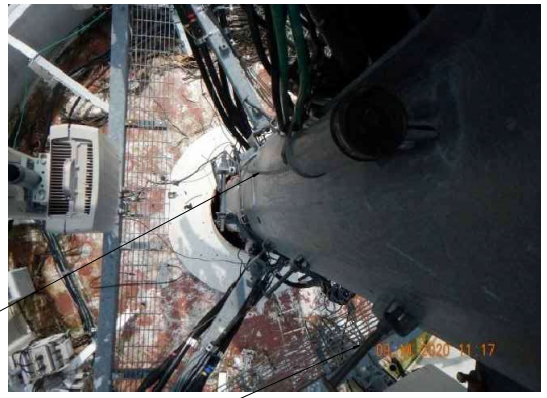
1 CLIMBING FACILITY LOCATION

SCALE : N.T.S.



2 CABLE GUIDE THREADED ROD ATTACHMENT - PLAN VIEW

SCALE : N.T.S.



CLIMBING FACILITY PHOTO

STRUCTURAL NOTES:

1. CONTRACTOR TO INSPECT CLIMBING FACILITIES AT SITE AND ENSURE THAT THE SAFETY CLIMB IS IN GOOD CONDITION AND THAT THE WIRE ROPE DOES NOT OR WILL NOT INTERFERE WITH THE EXISTING OR PROPOSED MOUNT CONNECTIONS. CONTRACTOR SHALL INSTALL SAFETY CLIMB WIRE ROPE GUIDED AROUND MOUNT CONNECTIONS AS NEEDED.

2. INSTALL SHALL NOT CAUSE HARM TO THE STRUCTURE, CLIMBING FACILITY, SAFETY CLIMB, OR ANY SYSTEM INSTALLED ON THE STRUCTURE. TIMELY NOTICE AND DOCUMENTATION SHALL BE PROVIDED BY CONTRACTORS TO THE EOR (OF STRUCTURAL DESIGN) IF AN OBSTRUCTION WAS REQUIRED TO MEET THE RF SYSTEM DESIGN REQUIREMENTS AND PERFORMANCES.

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NEW HAVEN COUNTY

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2000 Midlantic Drive, Suite 100
Mt. Laurel, NJ 08054
Phone: 856.797.0412
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SHEET TITLE:
CLIMBING FACILITY DETAIL

SHEET NUMBER:
SCF-1

LEGEND:

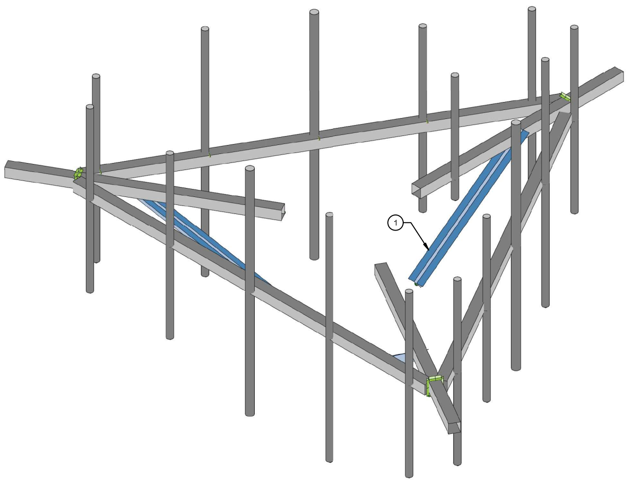
- PROPOSED
- RELOCATED
- EXISTING

MOUNT MODIFICATION SCHEDULE

NO.	ELEVATION	QUANTITY	DESCRIPTION	NOTES
1	125'-0"	1	KICKER KIT (VZWSMART-PLK5)	CONTRACTOR TO VERIFY THE LENGTH REQUIRED AND TRIM AS NECESSARY IN ACCORDANCE WITH THE 'STRUCTURAL STEEL' NOTES ON SHEET SGN-1. CONNECT TO EXISTING MONOPOLE USING NEW COLLAR MOUNT (VZWSMART-PLK7).

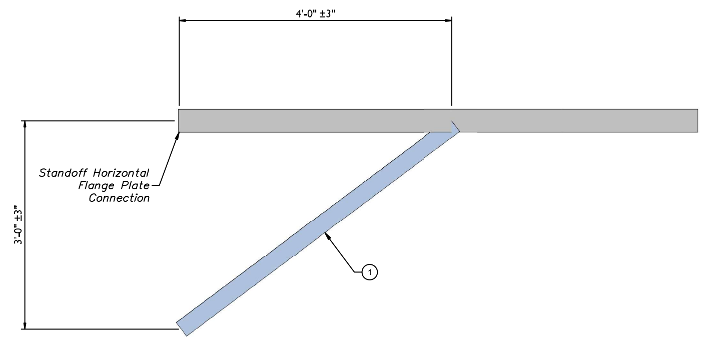
NOTES.

MOUNT MEMBERS NOT SHOWN FOR CLARITY U.N.O.



1 PROPOSED ISOMETRIC VIEW

SCALE : N.T.S.



2 PROPOSED SIDE ELEVATION VIEW (TYP. ALL SECTORS)

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SHEET TITLE :

MODIFICATION DETAILS

SHEET NUMBER :

SS-1

EXISTING MEMBERS

NO.	DESCRIPTION	SHAPE	NOTES	DEVIATIONS
1	FACE HORIZONTAL	158" LONG, HSS4X4X1/4	TYP. OF 3, 1 PER SECTOR	
2	STANDOFF HORIZONTAL	91" LONG, HSS4X4X1/4	TYP. OF 3, 1 PER SECTOR	
3	MOUNT PIPE	96" LONG, P2 1/2 STD	TYP. OF 3, 1 PER SECTOR	
4	MOUNT PIPE	72" LONG, P2 STD	TYP. OF 9, 3 PER SECTOR	
5	MOUNT PIPE	96" LONG, P2 STD	TYP. OF 3, 1 PER SECTOR	
6	OVP PIPE	48" LONG, P2 STD	TYP. OF 1	
7	FLANGE PLATE CONNECTION	REFER TO DETAIL 3	TYP. OF 3, 1 PER SECTOR	

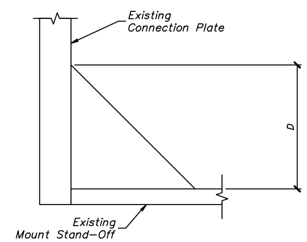
NOTE:
LIST ALL MEMBER SIZE DEVIATIONS IN PROVIDED COLUMN. DIMENSION DEVIATIONS SHALL BE DOCUMENTED ON SKETCHES.

STANDARD PIPE DIMENSIONS

PIPE SIZE	O.D. (IN.)	THICKNESS (IN.)		
		STD	XSTR	XXSTR
P1 1/2	1.900	0.145	0.200	0.400
P2	2.375	0.154	0.218	0.436
P2 1/2	2.875	0.203	0.276	0.552
P3	3.500	0.216	0.300	0.600
P3 1/2	4.000	0.226	0.318	0.636
P4	4.500	0.237	0.337	0.674
P4 1/2	5.000	0.247	0.355	0.710
P5	5.563	0.258	0.375	0.750
P6	6.625	0.280	0.432	0.864

NOTE:

PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND MEMBER SIZES SHOWN IN THIS SKETCH. DOCUMENT ALL VARIATIONS OR DEVIATIONS VIA PHOTOS AND SKETCHES AND PROVIDE TO THE EOR FOR EVALUATION. THE CONTRACTOR SHALL STOP CONSTRUCTION IF ANY VARIATIONS OR DEVIATIONS ARE FOUND AND OBTAIN APPROVAL TO PROCEED FROM EOR.

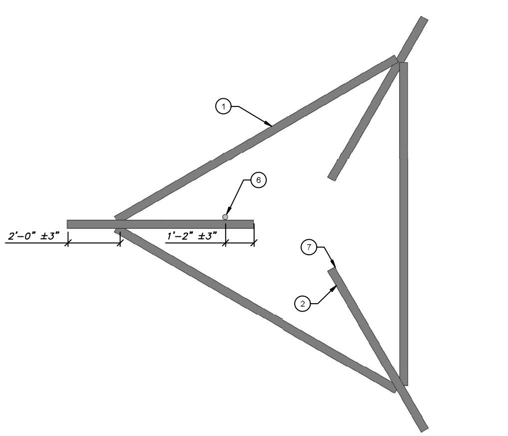


WELD MEASUREMENT NOTE:

CONTRACTOR SHALL MEASURE WELD SIZE 'D' AS SHOWN IN THIS DETAIL.

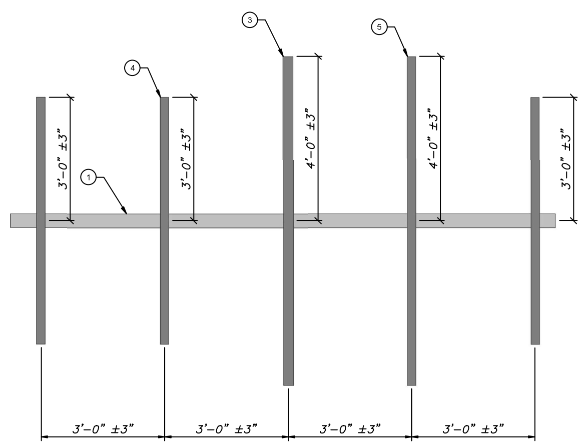
4 WELD MEASUREMENT DETAIL

SCALE : N.T.S.



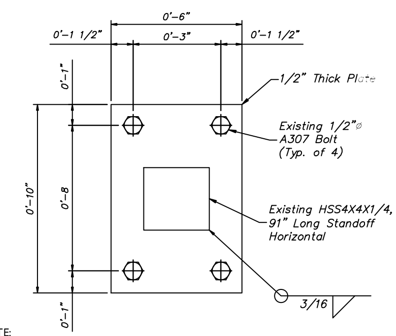
1 EXISTING MOUNT GEOMETRY VERIFICATION PLAN VIEW

SCALE : N.T.S.



2 EXISTING MOUNT GEOMETRY VERIFICATION FRONT ELEVATION VIEW

SCALE : N.T.S.



NOTE:

REFER TO WELD MEASUREMENT DETAIL FOR DIRECTIONS ON OBTAINING WELD MEASUREMENTS.

3 MOUNT FLANGE CONNECTION DETAIL

SCALE : N.T.S.

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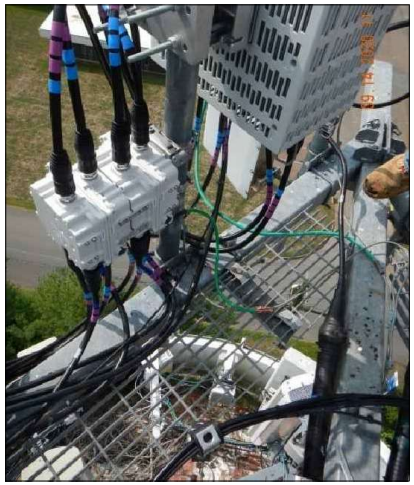
SHEET TITLE : GEOMETRY VERIFICATION SKETCHES

SHEET NUMBER : SS-2

MOUNT PHOTO 1

MOUNT PHOTO 2

MOUNT PHOTO 3



MOUNT PHOTO 4

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STATE OF CONNECTICUT
37965
LICENSED PROFESSIONAL ENGINEER

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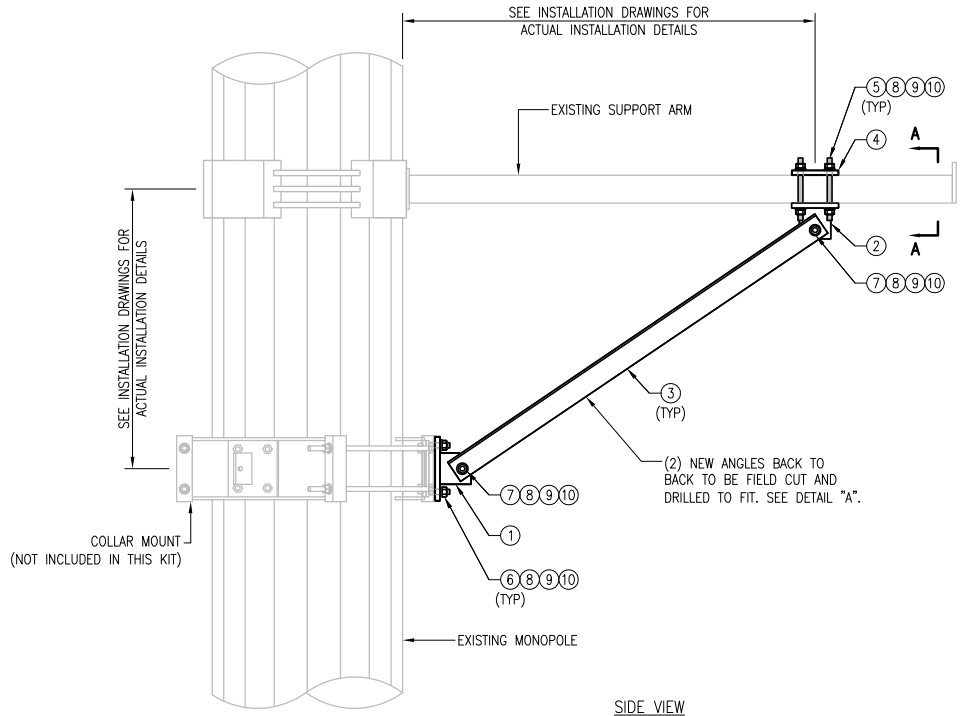
Phone: 856.797.0412
COLLIERS ENGINEERING & DESIGN, INC.
DOING BUSINESS AS MASER CONSULTING

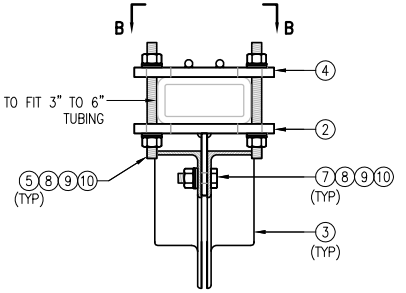
SHEET TITLE:
MOUNT PHOTOS

SHEET NUMBER:
SS-3

NOTE:
THE LOCATION OF KICKER AND EXISTING ANTENNA MOUNT SHOWN ON THE DRAWING IS FOR REPRESENTATION PURPOSE ONLY. SEE INSTALLATION DRAWINGS FOR ACTUAL INSTALLATION OF DETAILS.

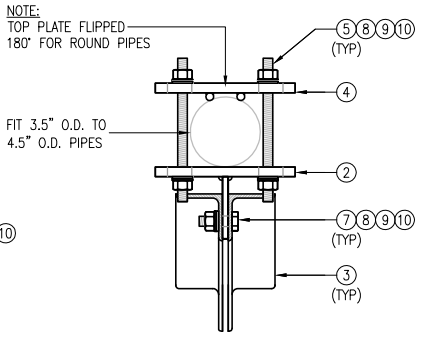


SIDE VIEW
KICKER KIT

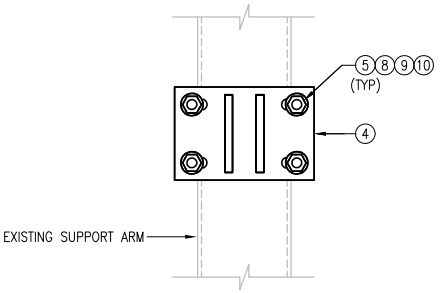


SECTION "A–A"
RECT. HSS MOUNTING

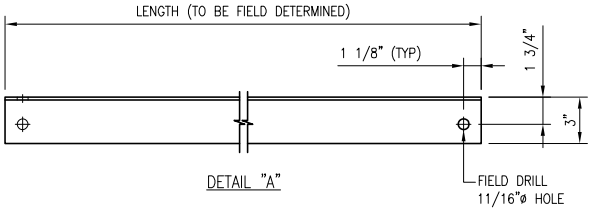
NOTE:
TOP PLATE FLIPPED 180° FOR ROUND PIPES



SECTION "A–A"
ROUND PIPE MOUNTING



SECTION "B–B"



DETAIL "A"

VZWSMART–PLK5 (KICKER KIT)					
ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	BRKW–XXX	BRACKET WELDMENT A36	PLK5–F3	43.8
2	3	BRKW–XXXX	BRACKET WELDMENT A36	PLK5–F2	35.7
3	6	L331875–8	L 3" X 3" X 3/16" X 8'–0" A36	PLK5–F4	182.9
4	3	PL–KI	PL 5/8" X 6" X 9" A36	PLK5–F1	29.0
5	12	---	THREADED ROD 5/8" DIA. X 1'–0" F1554–36 HDG	---	--
6	6	---	BOLT 5/8" X 2" A325	---	--
7	12	---	BOLT 5/8" X 2 1/2" A325	---	--
8	42	FW–625	5/8" HDG USS FLAT WASHER	---	3
9	42	LW–625	5/8" HDG LOCK WASHER	---	1
10	42	NUT–625	5/8" HDG HEX NUT	---	5
				GALVANIZED WT	291

NOTES:
1. ALL HOLES ARE 11/16" DIA. U.N.O
2. HOT–DIPPED GALVANIZED PER ASTM A123.
3. FIT UP TO 6" SQ. TUBING OR 4 1/2" O.D. PIPE

VzW SMART Tool© Vendor

verizon

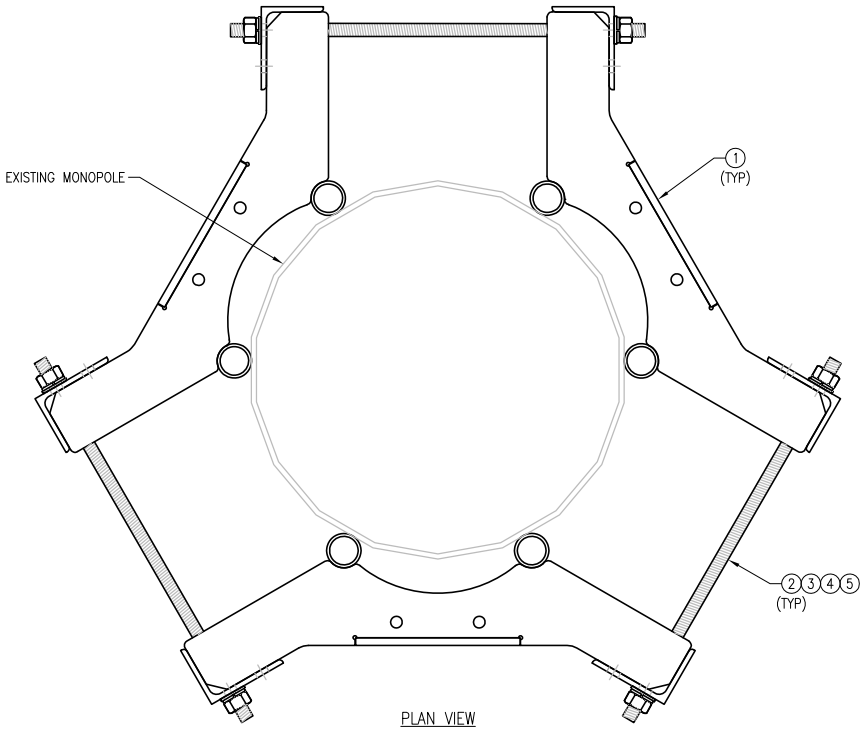
DRAWN BY: MN | CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	MN	05/08/20

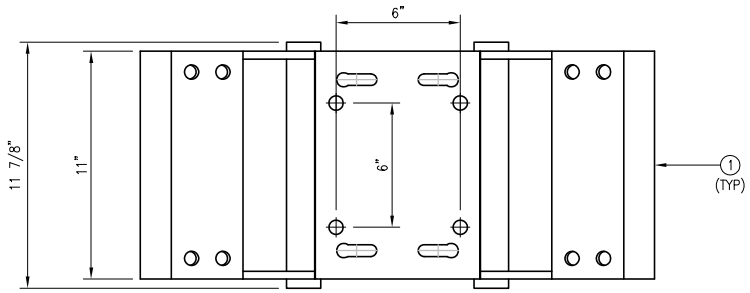
SHEET TITLE:
VZWSMART–PLK5
KICKER KIT

SHEET NUMBER: VZWSMART–PLK5

REV #: 0



PLAN VIEW
MONOPOLE COLLAR MOUNT ASSEMBLY



FRONT VIEW

NOTES:
1. FIT 12" TO 45" DIA MONOPOLE.
2. HOT-DIPPED GALVANIZED PER ASTM A123.

VZWSMART-PLK7 (MONOPOLE COLLAR MOUNT ASSEMBLY)

ITEM NO.	QTY.	PART NO.	DESCRIPTION	SHEET #	WT
1	3	CM-1245	COLLAR MOUNT ASSEMBLY	PLK7-F1	147
2	6	---	THREADED ROD 5/8" X 4'-0" A193-B7	---	
3	12	FW-625	5/8" HDG USS FLAT WASHER	---	1
4	12	LW-625	5/8" HDG LOCK WASHER	---	0
5	12	NUT-625	5/8" HDG HEX NUT	---	1
				GALVANIZED WT	150

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DRAWN BY: BT | CHECKED BY: HMA/KW

REV.	DESCRIPTION	BY	DATE
0	FIRST ISSUE	BT	05/11/20

SHEET TITLE:
VZWSMART-PLK7
MONOPOLE COLLAR
MOUNT ASSEMBLY

SHEET NUMBER: VZWSMART-PLK7

REV #: 0