

January 3, 2024

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

Re: **Notice of Exempt Modification – Facility Modification
24 Hospital Avenue, Danbury, Connecticut**

Dear Attorney Bachman:

Cellco Partnership d/b/a Verizon Wireless (“Cellco”) currently maintains a wireless telecommunications facility at the above-referenced address (the “Property”). Cellco’s facility consists of antennas and remote radio heads attached to a tower. Equipment associated with the facility is located inside the hospital building. The Cellco’s existing roof-top facility was approved by the Siting Council in September of 1987 (Docket No. 79). A copy of the Council’s Docket No. 79 Decision and Order is included in [Attachment 1](#).

Cellco’s proposed modification involves the installation of four (4) interference mitigation filters (“Filters”) on its existing mounting assembly. The Filter specification sheet is included in [Attachment 2](#).

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to Danbury’s Chief Elected Official and Land Use Officer.

The planned modifications to the facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

1. The proposed modification will not result in an increase in the height of the existing antennas or mounting structure. The Filters will be installed on Cellco’s existing antenna mounts.

Melanie A. Bachman, Esq.
January 3, 2024
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2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.
3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
4. The installation of the new Filters will not result in a change to radio frequency (RF) emissions from the facility. Therefore, no new RF emissions information is included in this filing.
5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
6. According to the attached Structural Assessment Letter (“SL”) and Antenna Mount Analysis Report (“MA”), the existing structure, and antenna mounts can support Cellco’s proposed facility modifications. A copy of the SL and MA are included in Attachment 3.

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

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

Sincerely,



Kenneth C. Baldwin

Enclosures

Copy to:

Roberto Alves, Mayor
Sharon Calitro, AICP, Director of Planning and Zoning
Danbury Hospital, Property Owner
Alex Tyurin, Verizon Wireless

ATTACHMENT 1

DOCKET NO. 79

AN APPLICATION OF METRO MOBILE CTS OF : CONNECTICUT SITING
FAIRFIELD COUNTY, INC., FOR A CERTIFICATE OF : COUNCIL
ENVIRONMENTAL COMPATIBILITY AND PUBLIC NEED
FOR CELLULAR TELEPHONE ANTENNAS AND ASSOCIATED :
EQUIPMENT IN THE CITY OF DANBURY, CONNECTICUT. : SEPTEMBER 10, 1987

DECISION AND ORDER

Pursuant to the foregoing opinion, the Connecticut Siting Council hereby directs that a Certificate of Environmental Compatibility and Public Need, as provided by Section 16-50k of the General Statutes of Connecticut (CGS), be issued to Metro Mobile CTS of Fairfield County, Inc., for the construction, operation, and maintenance of cellular mobile telephone antennas in the City of Danbury, Connecticut.

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

1. The facility shall be constructed in accordance with all applicable federal, state, and municipal laws and regulations.
2. The Certificate holder shall notify the Federal Aviation Administration of its intention to mount antennas on the Danbury Hospital, and provide it the opportunity to comment prior to initiation of construction. A copy of the notification to the Federal Aviation Administration shall be sent to the City of Danbury's Airport Administrator.

3. The Certificate holder or its successor shall notify the Council if and when directional antennas or any equipment other than that listed in this application is added to this facility.
4. If this facility does not provide or permanently ceases to provide cellular service following completion of construction, this Decision and Order shall be void, and the antennas and all associated equipment in this application shall be dismantled and removed or reapplication for any new use shall be made to the Council before any such new use is made.
5. Unless otherwise approved by the Council, this Decision and Order shall be void if all construction authorized herein is not completed within three years of the issuance of this Decision and Order, or within three years of the completion of any appeal taken in this Decision.
6. The certificate holder shall comply with any future radio frequency (RF) standards promulgated by state or federal regulatory agencies. Upon the establishment of any new governmental RF standards, the facility granted in this Decision shall be brought into compliance with such standards.

Pursuant to CGS Section 16-50p, we hereby direct that a copy of this Decision and Order be served on each person listed below. A notice of the issuance shall be published in the Danbury News-Times.

The parties to the proceeding are:

Metro Mobile CTS of (applicant)
Fairfield County, Inc.
50 Rockland Road
South Norwalk, CT 06854
Attn: Peter Kelley, Vice President

Howard L. Slater, Esq. (its representatives)
Jennifer Young Gaudet, Esq.
Byrne, Slater, Sandler,
Shulman & Rouse, P.C.
330 Main Street
PO Box 3216
Hartford, CT 06103

Fleischman and Walsh, P.C.
1725 N Street, N.W.
Washington, DC 20036
Attn: Richard Rubin, Esq.
Jonathan Cohen, Esq.

SNET Cellular, Inc. (intervenor)
c/o Peter J. Tyrrell
Senior Attorney
227 Church Street
New Haven, CT 06506

0198E

CERTIFICATION

The undersigned members of the Connecticut Siting Council hereby certify that they have heard the case in Docket 79 or read the record thereof, and that we voted as follows:

Dated at New Britain, Connecticut the 10th day of September, 1987.

<u>Council Members</u>	<u>Vote Cast</u>
<u>Gloria Dibble Pond</u> Gloria Dibble Pond Chairperson	Yes
<u>Kathy A. Geppert</u> Commissioner Peter Boucher Designee: Kathy A. Geppert	Yes
<u>Commissioner Leslie Carothers</u> Designee: Brian Emerick	Absent
<u>Owen L. Clark</u> Owen L. Clark	Yes
<u>Fred J. Doosy</u> Fred J. Doosy	Yes
<u>Mortimer A. Gelston</u> Mortimer A. Gelston	Yes
<u>James G. Horsfall</u> James G. Horsfall	Yes
<u>William H. Smith</u> William H. Smith	Yes
<u>Colin C. Tait</u> Colin C. Tait	Yes

ATTACHMENT 2

KA-6030

TWIN BANDSTOP 900MHZ INTERFERENCE MITIGATION FILTER

The KA-6030 is ideal for co-located 700, 850 and 900 networks. Utilising a 2.6MHz guardband the KA-6030 provides rejection of the 900 UL band while passing 700/850 UL and DL bands. Capable of being used in an outdoor environment the KA-6030 contains two identical bandstop filters, suitable for 2x2 MIMO configuration, offering excellent insertion loss, group delay and rejection.



FEATURES

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

TECHNICAL SPECIFICATIONS

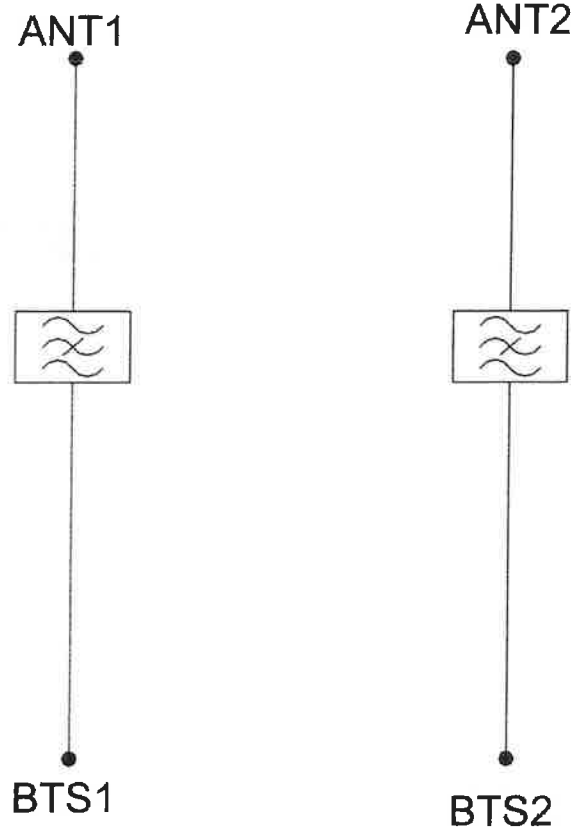
BAND NAME	700 PATH/ 850 UPLINK PATH	850 DOWNLINK PATH
Passband	698 - 849MHz	869 - 891.5MHz
Insertion loss	0.1dB typical / 0.3dB maximum	0.5dB typical, 1.45dB maximum
Return loss	24dB typical, 18dB minimum	
Maximum input power (Per Port)	100W average	200W average and 66W per 5MHz
Rejection	53dB minimum @ 894.1 - 896.5MHz	
ELECTRICAL		
Impedance	50Ohms	
Intermodulation products	-160dBc maximum in UL Band (assuming 20MHz Signal), with 2 x 43dBm carriers -153dBc maximum with 2 x 43dBm	
DC / AISG		
Passband	0 - 13MHz	
Insertion loss	0.3dB maximum	
Return loss	15dB minimum	
Input voltage range	± 33V	
DC current rating	2A continuous, 4A peak	
Compliance	3GPP TS 25.461	
ENVIRONMENTAL		
For further details of environmental compliance, please contact Kaelus.		
Temperature range	-20°C to +60°C -4°F to +140°F	
Ingress protection	IP67	
Altitude	2600m 8530ft	
Lightning protection	RF port: ±5kA maximum (8/20us), IEC 61000-4-5 – Unit must be terminated with some lightning protection circuits.	
MTBF	>1,000,000 hours	
Compliance	ETSI EN 300 019 class 4.1H, RoHS, NEBS GR-487-CORE	

MECHANICAL	
Dimensions H x D x W	269 x 277 x 80mm 10.60 x 10.90 x 3.15in (Excluding brackets and connectors)
Weight	8.0 kg 17.6 lbs (no bracket)
Finish	Powder coated, light grey (RAL7035)
Connectors	RF: 4.3-10 (F) x 4
Mounting	Optional pole/wall bracket supplied with two metal clamps 45-178mm diameter poles or custom bracket. See ordering information.

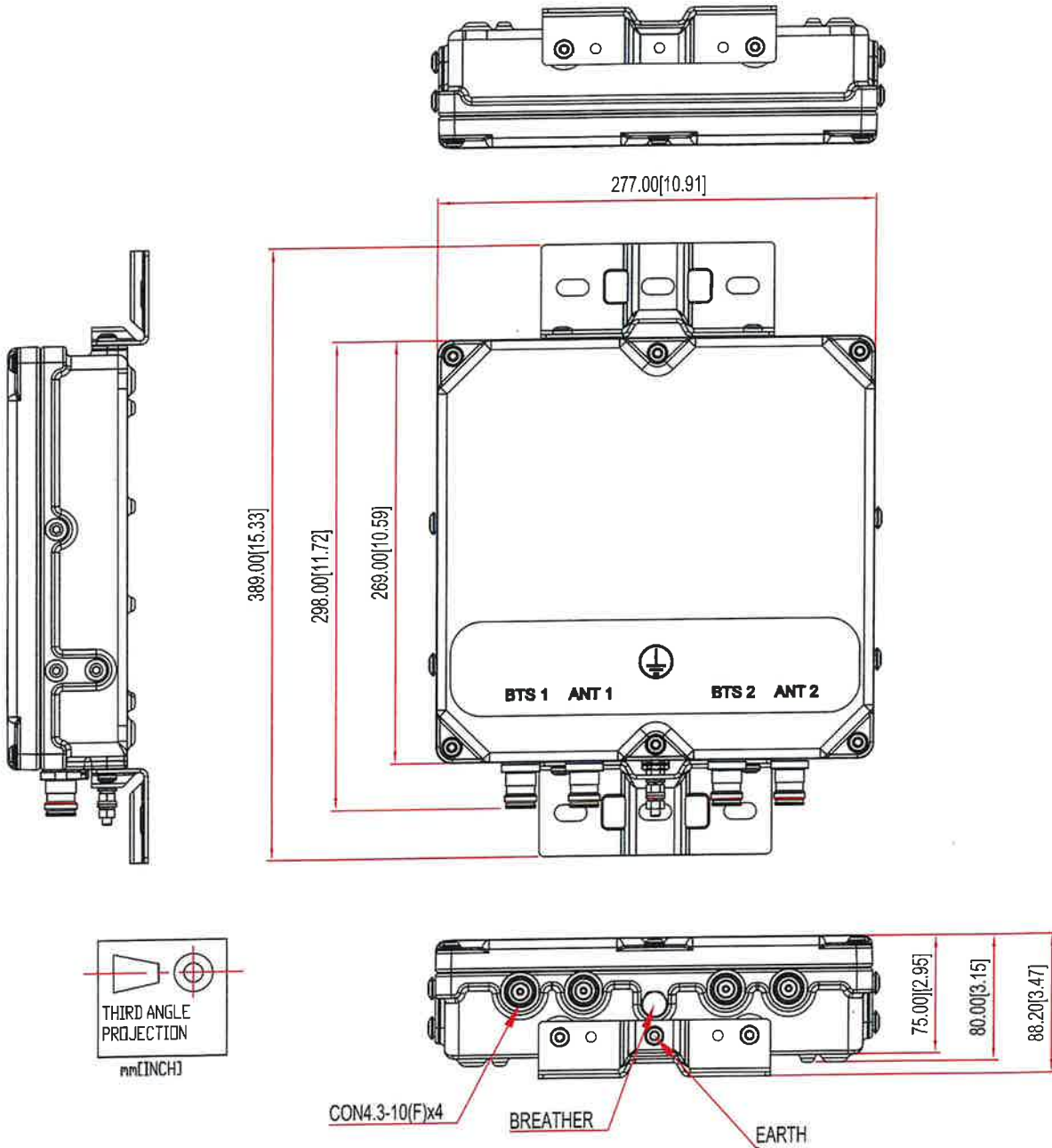
ORDERING INFORMATION

PART NUMBER	CONFIGURATION	OPTIONAL FEATURES	CONNECTORS
KA-6030-2032	TWIN, 2 in / 2 out	DC/AISG PASS	4.3-10 (F)

ELECTRICAL BLOCK DIAGRAM



MECHANICAL BLOCK DIAGRAM



ATTACHMENT 3



September 18, 2023

verizon
20 Alexander Drive
Wallingford, CT 06492

Subject: Structural Assessment Letter
Location Code: 468092
Site Name: DANBURY_CT
Site Address: 24 Hospital Ave
Danbury, CT 06810

To Whom It May Concern:

Centerline Communications has performed a structural assessment of the above-referenced site to determine if the existing structure can support the following Verizon Wireless equipment:

- (4) Kaelus KA-6030 Filters (10.60" H, 10.90" W, 3.15" D, Weight=17.6 lbs./each) (2 per Alpha and Beta Sector)**
- (2) Site Pro 1 #RRUDSM (1 per Alpha and Beta Sector)**

Based on our structural assessment, we have concluded the existing structure can support the proposed Verizon Wireless equipment. The proposed loading results in a negligible vertical and lateral load increase on the existing structure. The new equipment is proposed to be installed behind the existing antennas.

This assessment was conducted in accordance with the 2021 International Building Code, ASCE 7-16 Minimum Design Loads for Buildings and Other Structures, and the 2022 CT State Building Code. Documents utilized as the basis for this assessment includes: Construction Drawings by Dewberry Engineers, Inc., dated February 19 2020 and Structural Analysis by Dewberry Engineers, Inc., dated February 19, 2020. Any deterioration or damage to the existing structure should be documented and reported to the engineer and repaired by the contractor prior to the installation of the proposed equipment.

Should you have any questions, please do not hesitate to contact us.

Sincerely,
Centerline Communications, LLC

Derek Creaser, PE
Director - A&E Services



Centerline Engineering Services, PA
750 W Center St, Suite 301
West Bridgewater, MA 02379
781-713-4725



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

Antenna Mount Analysis Report and PMI Requirements

Mount ReAnalysis

SMART Tool Project #: 10207119
Colliers Engineering & Design CT, PC Project #: 23777139

July 17, 2023

Site Information

Site ID: 5000387162-VZW / DANBURY CT
Site Name: DANBURY CT
Carrier Name: Verizon Wireless
Address: 24 Hospital Ave.
Danbury, Connecticut 06810
Fairfield County
Latitude: 41.404983°
Longitude: -73.445739°

Structure Information

Tower Type: 203-Ft Rooftop
Mount Type: (2) 15.00-Ft Rooftop Frame (Alpha/Beta)

FUZE ID # 17123924

Analysis Results

Rooftop Frame – Alpha/Beta: **88.0% Pass***

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

***Contractor PMI Requirements:

Included at the end of this MA report

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

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

Report Prepared By: Prasanna Dhakal



07/17/2023

Executive Summary:

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

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

Sources of Information:

Document Type	Remarks
Radio Frequency Data Sheet (RFDS)	Verizon RFDS, Site ID: 323709, dated November 11, 2020
Mount Mapping Report	Tower Engineering Professionals, Site ID: 468092, dated December 11, 2020
Construction Drawings	Dewberry Engineers Inc., Project #: 50095218, dated January 30, 2020
Previous Post-Mod Antenna Mount Analysis	Maser Consulting Connecticut, Project #: 20777270A, dated April 12, 2021
Previous Mount Modification Drawings	Maser Consulting Connecticut, Project #: 20777270A (Rev. 1), dated April 12, 2021
Final Loading Configuration	Filter Add Scope Provided by Verizon Wireless

Analysis Criteria:

Codes and Standards:	ANSI/TIA-222-H 2022 Connecticut State Building Code (CSBC), Effective October 1, 2022
Wind Parameters:	Basic Wind Speed (Ultimate 3-sec. Gust), V_{ULT} : 125 mph Ice Wind Speed (3-sec. Gust): 50 mph Design Ice Thickness: 1.00 in Risk Category: III Exposure Category: C Topographic Category: 1 Topographic Feature Considered: N/A Topographic Method: N/A Ground Elevation Factor, K_e : 0.984
Seismic Parameters:	S_s : 0.225 g S_1 : 0.056 g
Maintenance Parameters:	Wind Speed (3-sec. Gust): N/A Maintenance Load, L_v : N/A Maintenance Load, L_m : N/A
Analysis Software:	RISA-3D (V17)

Final Loading Configuration:

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

Alpha and Beta Sectors					
Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
156.00	158.50	2	Samsung	XXDWMM-12.5-65-8T CBRS	Retained
	156.00	2	Samsung	MT6407-77A	
		2	Amphenol	BXA-80063-6BF-EDIN	
		4	Commscope	JAHH-65B-R3B	
		2	Raycap	RRFDC-1064-PF-48	
		4	Commscope	CBC78T-DS-43-2X	
		2	Samsung	B2/B66A RRH-BR049	
		2	Samsung	B5/B13 RRH-BR04C	
	4	KAelus	KA-6030	Added	

Gamma Sector					
Mount Elevation (ft)	Equipment Elevation (ft)	Quantity	Manufacturer	Model	Status
156.00	158.50	1	Samsung	XXDWMM-12.5-65-8T CBRS*	Retained
	156.00	1	Samsung	MT6407-77A*	
		1	Amphenol	BXA-80080-6CF*	
		2	Commscope	JAHH-65B-R3B*	
		1	Raycap	RRFDC-1064-PF-48*	
		2	Commscope	CBC78T-DS-43-2X*	
		1	Samsung	B2/B66A RRH-BR049*	
		1	Samsung	B5/B13 RRH-BR04C*	

*All equipment in gamma sector are retained and not included in this mount analysis. Please refer to previous post-mod mount analysis report listed above for details.

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

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

Standard Conditions:

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

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

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

3. For mount analyses completed from other data sources (including new replacement mounts) and not specifically mapped in accordance with the NSTD-446 Standard, the mounts are assumed to have been properly fabricated, installed and maintained in good condition, twist free and plumb in accordance with its original design and manufacturer's specifications.
4. All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
5. The mount was checked up to, and including, the bolts that fasten it to the mount collar/attachment and threaded rod connections in collar members if applicable. Local deformation and interaction between the mount collar/attachment and the supporting tower structure are outside the scope of this analysis.
6. All services are performed, results obtained, and recommendations made in accordance with generally accepted engineering principles and practices. Colliers Engineering & Design CT, PC is not responsible for the conclusion, opinions, and recommendations made by others based on the information supplied.
7. Structural Steel Grades have been assumed as follows, if applicable, unless otherwise noted in this analysis:
 - o Channel, Solid Round, Angle, Plate ASTM A36 (Gr. 36)
 - o HSS (Rectangular) ASTM 500 (Gr. B-46)
 - o Pipe ASTM A53 (Gr. B-35)
 - o Threaded Rod F1554 (Gr. 36)
 - o Bolts ASTM A325
8. It is assumed that the mount modifications listed under Sources of Information 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 Colliers Engineering & Design CT, PC.

Analysis Results:

Rooftop Frame- Alpha/Beta		
Component	Utilization %	Pass/Fail
<i>Replacement Horizontal</i>	71.5%	<i>Pass</i>
<i>Face Horizontal</i>	28.9%	<i>Pass</i>
<i>Replacement Mount Pipe</i>	79.3%	<i>Pass</i>
<i>Antenna Pipe</i>	79.5%	<i>Pass</i>
<i>Frame Horizontal</i>	24.4%	<i>Pass</i>
<i>Unistrut</i>	16.8%	<i>Pass</i>
<i>Frame Angle Top</i>	88.0%	<i>Pass</i>
<i>Frame Angle</i>	61.9%	<i>Pass</i>
<i>Mod Vertical Brace Angle</i>	8.6%	<i>Pass</i>
Structure Rating – (Controlling Utilization of all Components)		88.0%

Construction of supporting structure could not be confirmed. The final desired loading configuration results in factored loads as shown in the table below.

We recommend the supporting structure EOR utilize these values to determine the adequacy of the connection and supporting structure. Alternatively, Colliers Engineering & Design CT, PC can evaluate the connection capacity if additional information regarding the supporting structure construction is provided.

Rooftop Frame- Alpha/Beta						
Post Reactions	Mx (Kip-ft)	My (Kip-ft)	Mz (Kip-ft)	Fx (lb)	Fy (lb)	Fz (lb)
Top Connection 1	0.00	0.00	0.00	527.9	900.0	13.7
Top Connection 2	0.00	0.00	0.00	1224.2	2146.0	2950.9
Top Connection 3	0.00	0.00	0.00	1151.4	1185.3	13.7
Top Connection 4	0.00	0.00	0.00	2541.0	2561.4	2873.9
Bottom Connection 1	0.00	0.00	0.00	289.8	389.0	45.2
Bottom Connection 2	0.00	0.00	0.00	1590.9	1907.3	1062.2
Bottom Connection 3	0.00	0.00	0.00	136.3	219.4	45.2
Bottom Connection 4	0.00	0.00	0.00	928.3	1306.3	753.3

Requirements:

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

- | |
|--|
| <ol style="list-style-type: none">1. Contractor shall verify modifications detailed in Construction Drawings by Maser Consulting Connecticut, Project #: 20777270A (Rev. 1), dated April 12, 2021, have been installed prior to install of proposed equipment. <u>Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications.</u> |
|--|

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

Attachments:

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

Mount Desktop – Post Modification Inspection (PMI) Report Requirements

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

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

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

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

MDG #: 5000387162

SMART Project #: 10207119

Fuze Project ID: 17123924

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

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

Base Requirements:

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

Photo Requirements:

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

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

Antenna & equipment placement and Geometry Confirmation:

- The contractor shall certify that the antenna & equipment placement and geometry is in accordance with the sketch and table as included in the mount analysis and noted below.
 - The contractor certifies that the photos support and the equipment on the mount is as depicted on the sketch and table included in this form and with the mount analysis provided.

OR

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

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

Issue:

1. Contractor shall verify modifications detailed in Construction Drawings by Maser Consulting Connecticut, Project #: 20777270A (Rev. 1), dated April 12, 2021, have been installed prior to install of proposed equipment. **Escalate any discrepancies to EOR immediately as it may render the results of this analysis invalid and require additional modifications.**

Response:

Special Instruction Confirmation:

- The contractor has read and acknowledges the above special instructions.
- All hardware listed in the Special Instructions above (if applicable) has been properly installed, and the existing hardware was inspected.
- The material utilized was as specified in the SMART Tool engineering vendor Special Instructions above (if applicable) and included in the material certification folder is a packing list or invoice for these materials.

OR

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

Comments:

--

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

Yes No

Contractor certifies no new damage created during the current installation:

Yes No

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

Safety Climb in Good Condition Safety Climb Damaged

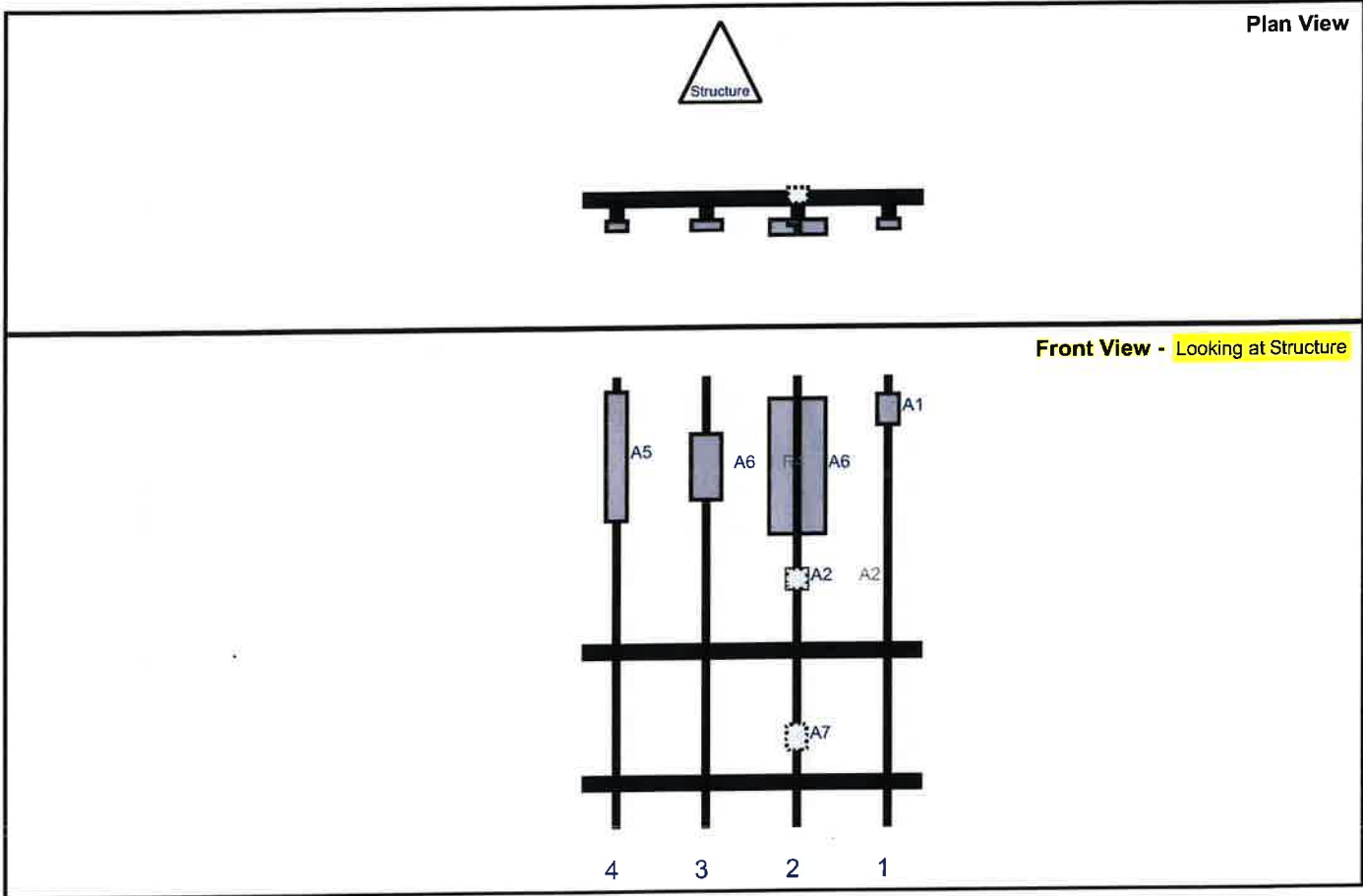
Certifying Individual:

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

Sector: **A**
 Structure Type: Rooftop
 Mount Elev: 156.00

10207119

7/13/2023



Reff#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	XXDWMM-12.5-65-8T CBRS	16.2	11.4	162	1	a	Front	18	0	Retained	
A6	JAHH-65B-R3B	72	13.8	114	2	a	Front	48	8	Retained	12/11/2020
A6	JAHH-65B-R3B	72	13.8	114	2	b	Front	48	-8	Retained	12/11/2020
A2	KA-6030	10.6	10.9	114	2	a	Front	108	0	Added	
A2	KA-6030	10.6	10.9	114	2	b	Behind	108	0	Added	
A7	RRFDC-1064-PF-48	13.6	10.2	114	2	a	Behind	192	0	Retained	12/11/2020
R4	MT6407-77A	35.1	16.1	66	3	a	Front	48	0	Retained	
A5	BXA-80063-6BF-EDIN	68.6	11.2	18	4	a	Front	42	0	Retained	12/11/2020
M26	CBC78T-DS-43-2X	6.4	6.9			Member				Retained	
M25	B2/B66A RRH-BR049	15	15			Member				Retained	
M29	B5/B13 RRH-BR04C	15	15			Member				Retained	12/11/2020

Structure: 5000387162-VZW - DANBURY CT

Sector: B

7/13/2023

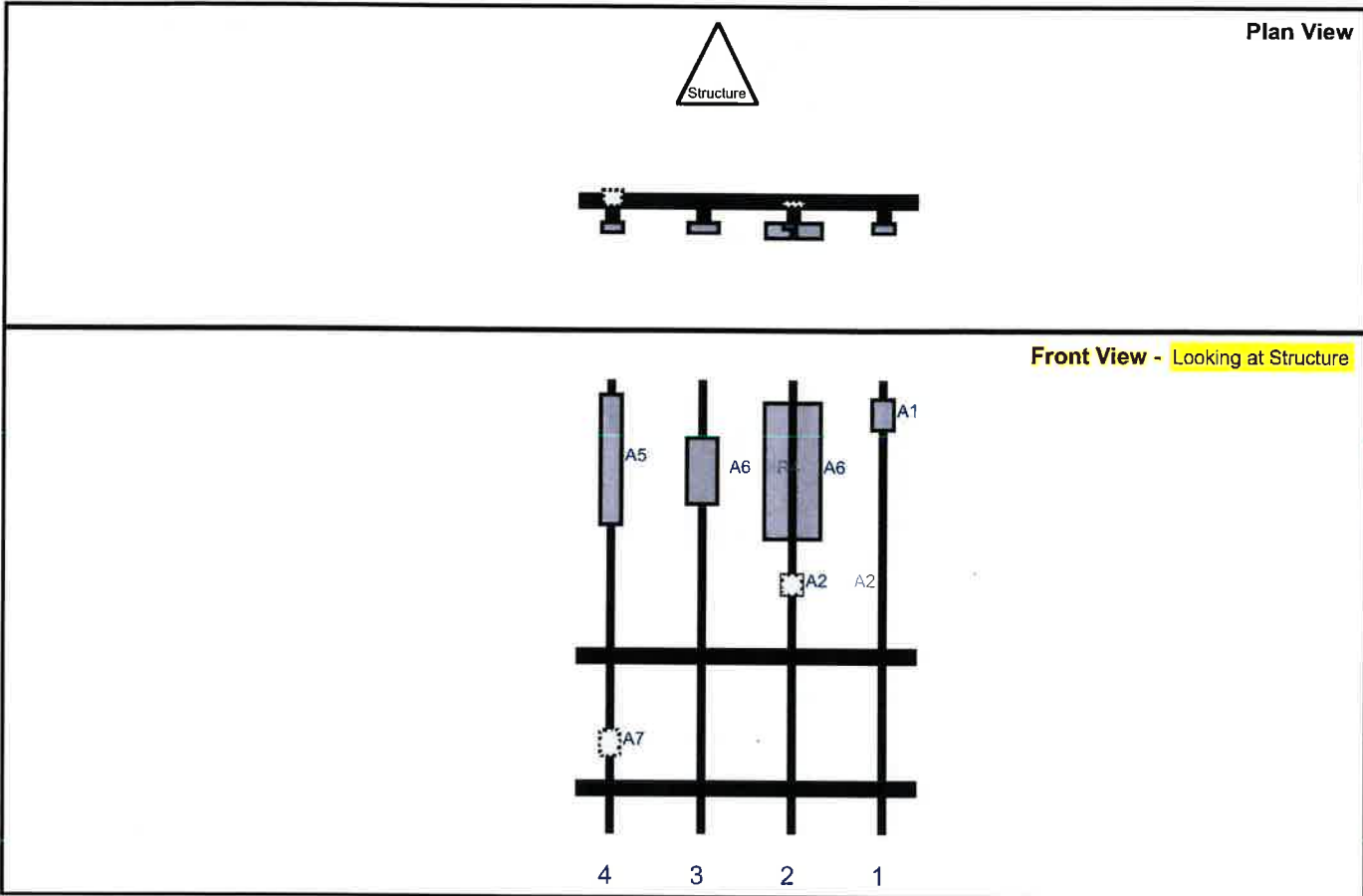
Structure Type: Rooftop

10207119



Mount Elev: 156.00

Page: 2



Ref#	Model	Height (in)	Width (in)	H Dist Fm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Fm T.	Ant H Off	Status	Validation
A1	XXDWMM-12.5-65-8T CBRS	16.2	11.4	162	1	a	Front	18	0	Retained	
A6	JAHH-65B-R3B	72	13.8	114	2	a	Front	48	8	Retained	12/11/2020
A6	JAHH-65B-R3B	72	13.8	114	2	b	Front	48	-8	Retained	12/11/2020
A2	KA-6030	10.6	10.9	114	2	a	Front	108	0	Added	
A2	KA-6030	10.6	10.9	114	2	b	Behind	108	0	Added	
R4	MT6407-77A	35.1	16.1	66	3	a	Front	48	0	Retained	
A5	BXA-80063-6BF-EDIN	68.6	11.2	18	4	a	Front	42	0	Retained	12/11/2020
A7	RRFDC-1064-PF-48	13.6	10.2	18	4	a	Behind	192	0	Retained	12/11/2020
M26	CBC78T-DS-43-2X	6.4	6.9			Member				Retained	
M25	B2/B66A RRH-BR049	15	15			Member				Retained	
M29	B5/B13 RRH-BR04C	15	15			Member				Retained	12/11/2020

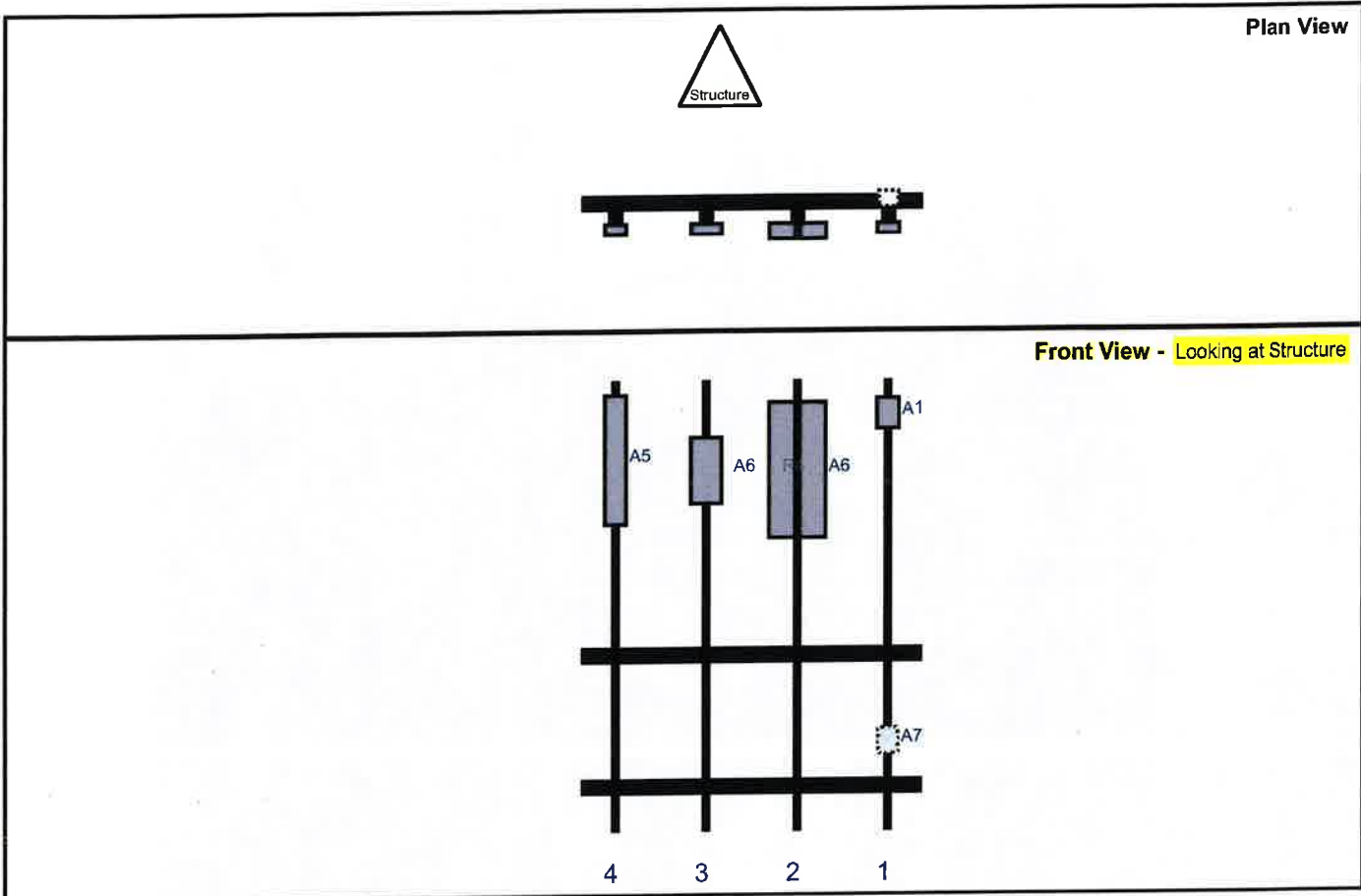
Sector: C
 Structure Type: Rooftop
 Mount Elev: 156.00

10207119

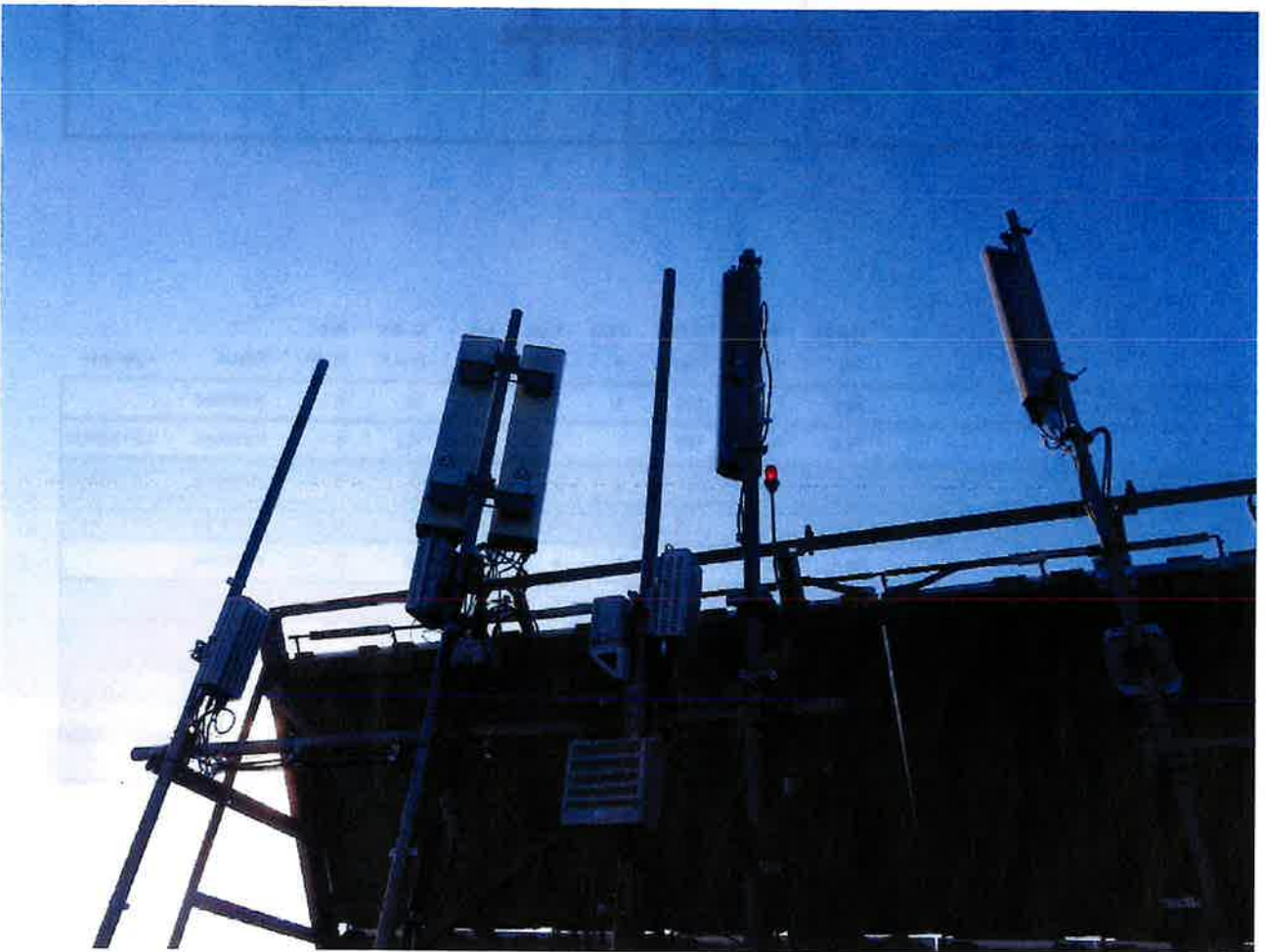
7/17/2023



Page: 1

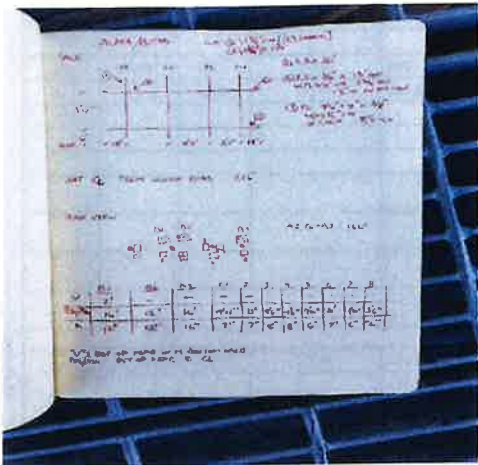


Ref#	Model	Height (in)	Width (in)	H Dist Frm L.	Pipe #	Pipe Pos V	Ant Pos	C. Ant Frm T.	Ant H Off	Status	Validation
A1	XXDWMM-12.5-65-8T CBRS	16.2	11.4	162	1	a	Front	18	0	Retained	
A7	RRFDC-1064-PF-48	13.6	10.2	162	1	a	Behind	192	0	Retained	12/11/2020
A6	JAHH-65B-R3B	72	13.8	114	2	a	Front	48	8	Retained	12/11/2020
A6	JAHH-65B-R3B	72	13.8	114	2	b	Front	48	-8	Retained	12/11/2020
R4	MT6407-77A	35.1	16.1	66	3	a	Front	48	0	Retained	
A5	BXA-80063-6BF-EDIN	68.6	11.2	18	4	a	Front	42	0	Retained	12/11/2020
M26	CBC78T-DS-43-2X	6.4	6.9			Member				Retained	
M25	B2/B66A RRH-BR049	15	15			Member				Retained	
M29	B5/B13 RRH-BR04C	15	15			Member				Retained	12/11/2020

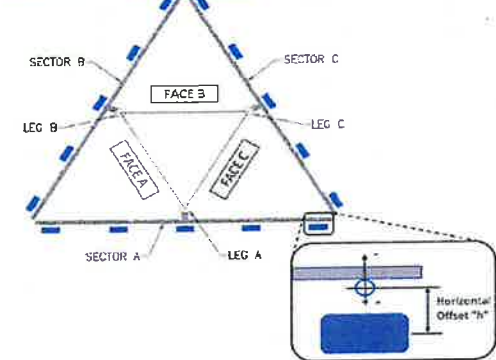


Antenna Mount Mapping Form (PATENT PENDING)				FCC #
				N/A
Tower Owner:	Unknown	Mapping Date:	12/11/2020	
Site Name:	Danbury CT	Tower Type:	Other	
Site Number or ID:	468092	Tower Height (FL):	203	
Mapping Contractor:	TEP	Mount Elevation (FL):	222	

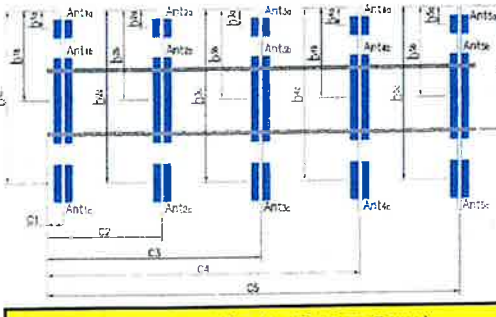
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Mount Pipe Configuration and Geometries (Unit = Inches)								
Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "h"	Horizontal Offset "C1, C2, C3, etc."	Sector / Position	Mount Pipe Size & Length	Vertical Offset Dimension "h"	Horizontal Offset "C1, C2, C3, etc."	
A1	3.5"Øx0.226"x240"	216.00	18.00	C1	2.9"Øx0.203"x240"	240.00		
A2	3.5"Øx0.226"x240"	216.00	86.00	C2	2.9"Øx0.203"x240"	240.00		
A3	3.5"Øx0.226"x240"	216.00	137.00	C3	2.9"Øx0.203"x240"	240.00		
A4	3.5"Øx0.226"x240"	216.00	162.00	C4	2.9"Øx0.203"x240"	240.00		
A5				C5				
A6				C6				
B1	3.5"Øx0.226"x240"	216.00	18.00	D1				
B2	3.5"Øx0.226"x240"	216.00	86.00	D2				
B3	3.5"Øx0.226"x240"	216.00	137.00	D3				
B4	3.5"Øx0.226"x240"	216.00	162.00	D4				
B5				D5				
B6				D6				
Distance between bottom rail and mount CL elevation (dim d). Unit is inches. See 'Mount Elev Ref' tab for details.:							35.00	
Distance from top of bottom support rail to lowest tip of ant./eqpt. of Carrier above. (N/A if > 10 ft.):								
Distance from top of bottom support rail to highest tip of ant./eqpt. of Carrier below. (N/A if > 10 ft.):								
Please enter additional information or comments below.								
Tower Face Width at Mount Elev. (ft.):				Tower Leg Size or Pole Shaft Diameter at Mount Elev. (in.):				

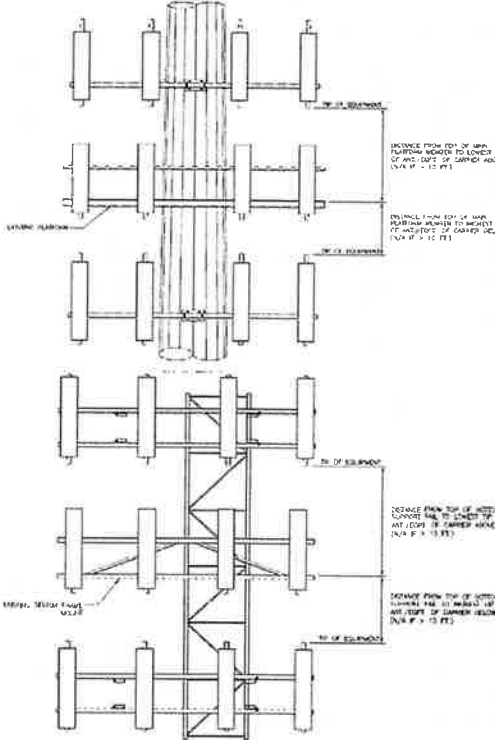


Ants. Items	Enter antenna model. If not labeled, enter "Unknown".					Mounting Locations [Units are inches and degrees]			Photos of antennas
	Antenna Models if Known	Width (in.)	Depth (in.)	Height (in.)	Coax Size and Qty	Antenna Center-line (Ft.)	Vertical Distances "b1, b2, b3, b1b, b2b, b3b..." (inches)	Horiz. Offset "h" (Use "-" if Ant. is behind)	
Sector A									
Ant1a	B66a RRH 4x45	12.00	7.30	25.80		237.083			16
Ant1b						237.083			17
Ant1c	RRFDC-1064-PF-48	10.15	8.15	13.58		237.083			23
Ant2a	B13 RRH4x30	11.97	7.18	21.20		237.083			19, 20
Ant2b	(2) JAHH-65B-R3B	13.78	8.19	71.97		237.083			21
Ant2c	RFV01U-D2A	15.00	8.10	15.00		237.083			
Ant3a									
Ant3b									
Ant3c	B25 RRH4x30	11.97	7.18	21.20		237.083			25
Ant4a									
Ant4b	BXA-80063-GCF-EDIN	11.20	6.00	71.00		237.083			15
Ant4c	UNKOWN					237.083			26
Ant5a									
Ant5b									
Ant5c									
Ant on Standoff	(2) CBC78T-DS-43-2X	15.73	10.30	28.93					22
Ant on Standoff	RRFDC-1064-PF-48	10.15	8.15	13.58					19
Ant on Tower									
Ant on Tower									



Antenna Layout (Looking Out From Tower)

Mount Azimuth (Degree) for Each Sector			Tower Leg Azimuth (Degree) for Each Sector			Sector B									
Sector A:	Deg	Leg A:	Deg	Leg B:	Deg	Ant _{1a}									
Sector B:	Deg	Leg B:	Deg	Leg C:	Deg	Ant _{1b}									
Sector C:	270.00	Leg C:	Deg	Leg D:	Deg	Ant _{1c}	B66a RRH 4x45	12.00	7.30	25.80	227.167	119.00	7.00	35	
Sector D:	Deg	Leg D:	Deg		Deg	Ant _{1d}	B13 RRH4x30	11.97	7.18	21.20	226.083	132.00	7.00	45	
Climbing Facility Information						Ant _{2a}	(2) JAHH-65B-R3B	13.78	8.19	71.97	221.083	192.00	12.00	160.00	40, 42
Location:	Deg					Ant _{2b}	(2) CBC78T-DS-43-2X	15.73	10.30	28.93	227.583	114.00	8.00	48	
Climbing Facility	Corrosion Type:					Ant _{2c}	RRFDC-1064-PF-48	10.15	8.15	13.58	227.25	118.00	6.00	50	
	Access:					Ant _{2d}	B25 RRH4x30	11.97	7.18	21.20	231.083	72.00	7.00	51, 62	
	Condition:					Ant _{2e}	RFV01U-D2A	15.00	8.10	15.00	231.083	72.00	-7.00	54	
						Ant _{2f}									
						Ant _{3a}	BXA-80063-6CF-EDIN	11.20	6.00	71.00	221.083	192.00	10.00	160.00	56
						Ant _{3b}	RRFDC-1064-PF-48 (M)	10.15	8.15	13.58	233.583	42.00	-6.00	58	
						Ant _{3c}									
						Ant _{3d}									
						Ant _{3e}									
						Ant _{3f}									
						Ant on Standoff									
						Ant on Standoff									
						Ant on Tower									
						Ant on Tower									
						Sector C									
						Ant _{1a}	RRFDC-1064-PF-48	10.15	8.15	13.58	237.083	24.00	7.00	102	
						Ant _{1b}	EMPTY				239.083				
						Ant _{1c}	B25 RRH4x30	11.97	7.18	21.20	232.5	79.00	7.00	100	
						Ant _{1d}	B66a RRH 4x45	12.00	7.30	25.80	233.083	72.00	7.00	111	
						Ant _{1e}	(2) JAHH-65B-R3B	13.78	8.19	71.97	222.583	198.00	12.00	270.00	106, 108
						Ant _{1f}	(2) CBC78T-DS-43-2X	15.73	10.30	28.93	235.917	38.00	7.50	113	
						Ant _{2a}									
						Ant _{2b}	EMPTY				239.083				
						Ant _{2c}									
						Ant _{2d}									
						Ant _{2e}	BXA-80080-6CF-EDIN	11.20	6.00	71.00	221.583	210.00	10.00	270.00	171
						Ant _{2f}	RRFDC-1064-PF-48 (M)	10.15	8.15	13.58	234.083	60.00	7.00	174	
						Ant _{3a}									
						Ant _{3b}									
						Ant _{3c}									
						Ant on Standoff	RFV01U-D2A (POS 2)	15.00	8.10	15.00		28.00	8.00	116	
						Ant on Standoff									
						Ant on Tower									
						Ant on Tower									
						Sector D									
						Ant _{1a}									
						Ant _{1b}									
						Ant _{1c}									
						Ant _{1d}									
						Ant _{1e}									
						Ant _{1f}									
						Ant _{2a}									
						Ant _{2b}									
						Ant _{2c}									
						Ant _{2d}									
						Ant _{2e}									
						Ant _{2f}									
						Ant _{3a}									
						Ant _{3b}									
						Ant _{3c}									
						Ant _{3d}									
						Ant _{3e}									
						Ant _{3f}									
						Ant on Standoff									
						Ant on Standoff									
						Ant on Tower									
						Ant on Tower									



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

1		
2		
3		
4		
5		
6		
7		
8		

Mapping Notes

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

Standard Conditions

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



Antenna Mount Mapping Form (PATENT PENDING)

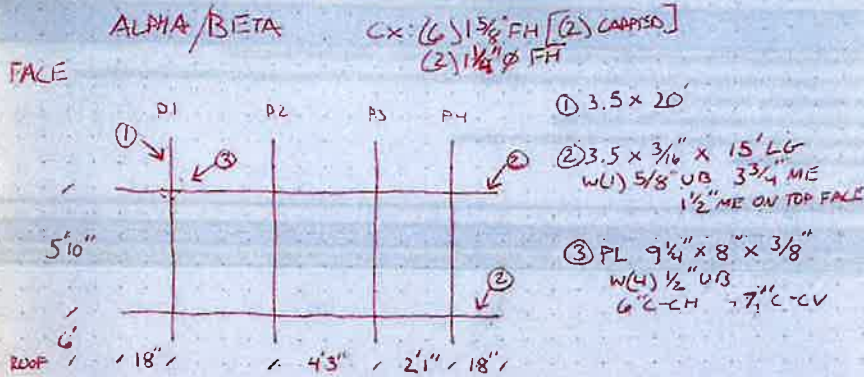
FCC #

N/A

Tower Owner:	Unknown	Mapping Date:	12/11/2020
Site Name:	Danbury CT	Tower Type:	Other
Site Number or ID:	468092	Tower Height (FL):	203
Mapping Contractor:	TEP	Mount Elevation (FL):	222

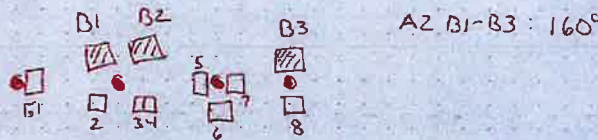
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Please Insert Sketches of the Antenna Mount



ANT CL: FROM SOUTH ROAD 216'

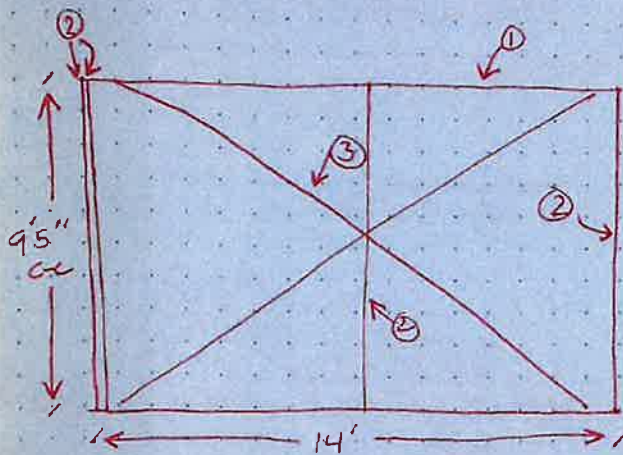
PLAN VIEW



U	B1	B2	B3	E1	2	3	4	5	6	7	8
B310/A16	16'	16'	16'	9'11"	11'	9'6"	9'6"	9'10"	6'	9'6"	3'6"
h	12"	12"	10"	7"	7"	8"	8"	6"	7"	6"	6"

"U": BOT OF PIPE UP TO BOTTOM FACE
B310/A16: BOT OF PIPE TO CL

BASE STRUCTURE FOR BETA

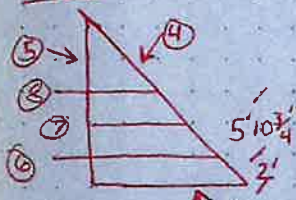


① I BEAM 1'6" X 6" X 3/8" TH WEB
1/2" FLANGE

② I BEAM 5 7/8" X 4" X 1/4" WEB
13.7" C-C

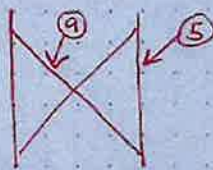
③ L 4 X 4 X 5/16"

SIDE



④ L 7 X 4 X 3/8"

BACK



⑨ L 3 1/2 X 3 1/2 X 5/16"

⑤ L 4 X 3 X 1/4" X 11'2" TALL

⑥ L 4 X 4 X 3/8" W(1) 3/4" B 2 1/2" ME X 11' LG 2'6" PROJECTION

⑦ L 4 X 3 X 1/4"

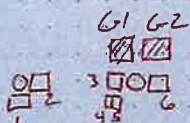
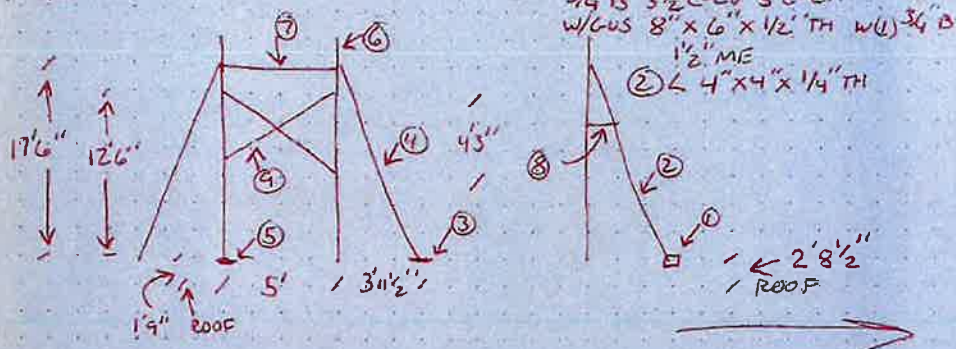
⑧ L 4 X 4 X 1/4" 2'3" PROJECTION

BASE STRUCTURE GAMMA 270° MOUNT/ANT AZ

FRONT I-BEAM
1'6" x 7'2" x 1/2" TH

BACK I-BEAM
12" x 3'8" x 7/32" WCB

CX: (2) 1 5/8" FH (CARRIED)
(1) 7/8" FH
FACE: (2) 5/8" FH [(1) IS CUT]



	G1	G2	1	2	3	4	5	6
U								
B16/A16	16'6"	16'6"	2'	6'7"	6'1"	3'2"	3'2"	2'4"
h	12"	12"	7"	7"	7"	7 1/2"	7 1/2"	8"

B16/A16 - BOTTOM PL -> CL

ANT. CL: FROM WEST RD. 212'

- ③ L 4" x 4" x 12" x 1/4" TH. W(2) 3/4" B 8 1/2" C-C
- ④ L 4 x 4 x 1/4 W(1) 3/4" B 2" ME
- ⑤ PL 8" x 12" x 3/4" TH W(4) 3/4" B 5" C-C 9" C-C
- ⑥ PIPE 2.9" x 20'
- ⑦ L 4 x 4 x 1/4 x 6'6" LL
- ⑧ L 4 x 4 x 1/4
- ⑨ "X" L 3 x 3 x 1/4" TH (1) 3/4" B 2" ME

GAMMA ANT 3 (G3) L: 213'

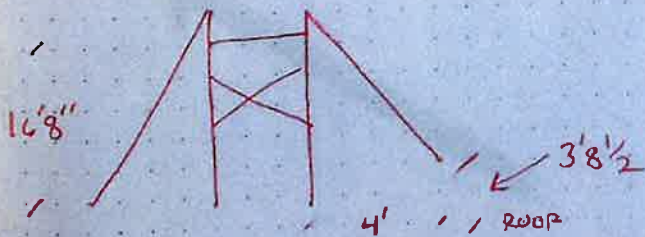
- SAME MOUNT

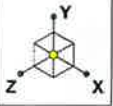
CX: (3) 1 5/8" FH (1) CUT
 (2)
 (1)

	G3	E
U	—	—
D1/D2/DIA	17'6"	5'
h	10"	7"

G3


ONLY DIFFERENCE





Envelope Only Solution

Colliers Engineering & De...

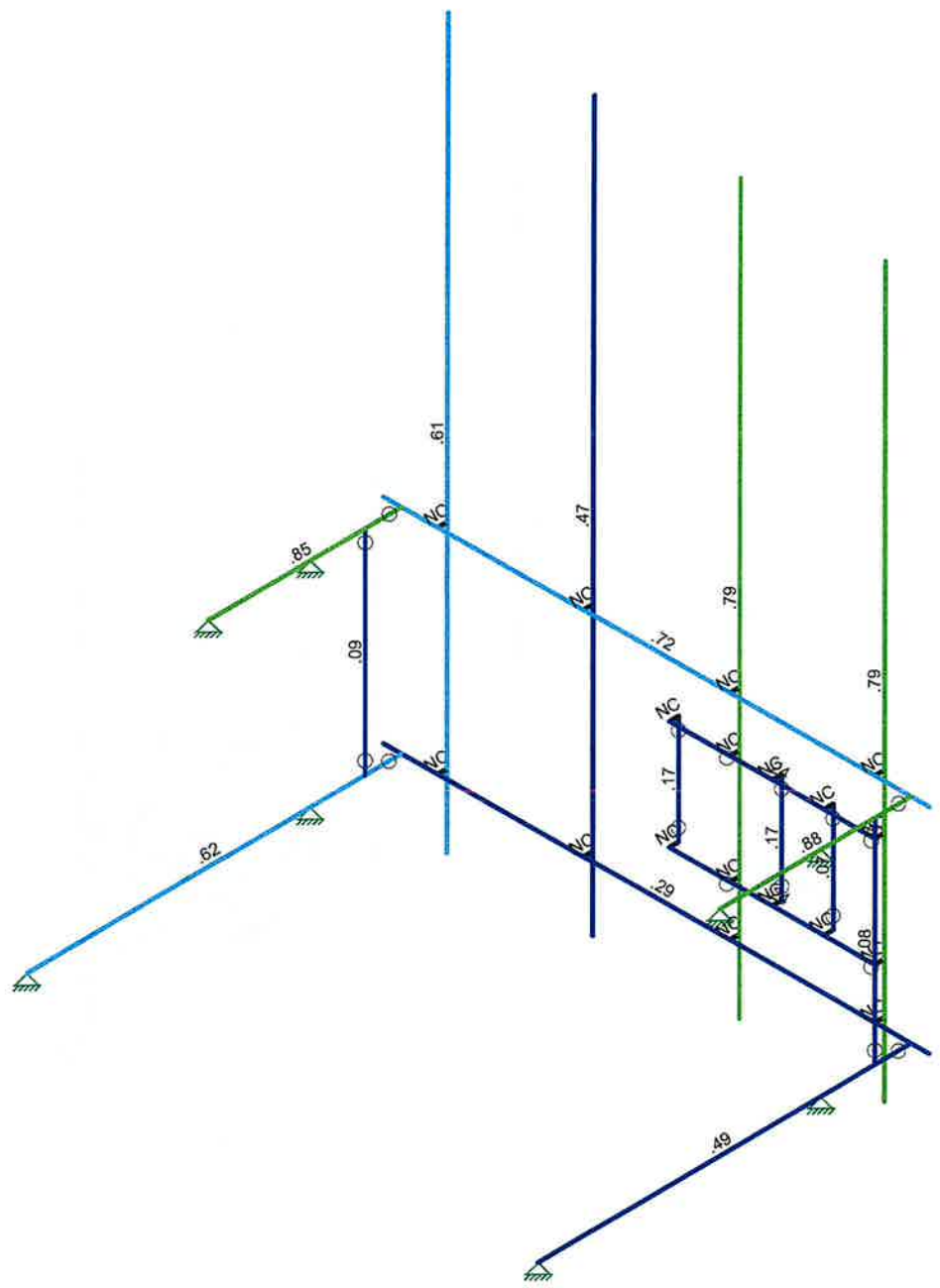
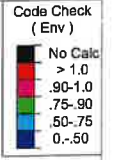
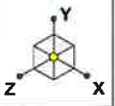
Project # 23777139

Antenna Mount Analysis (Alpha/Beta Sector)

SK - 1

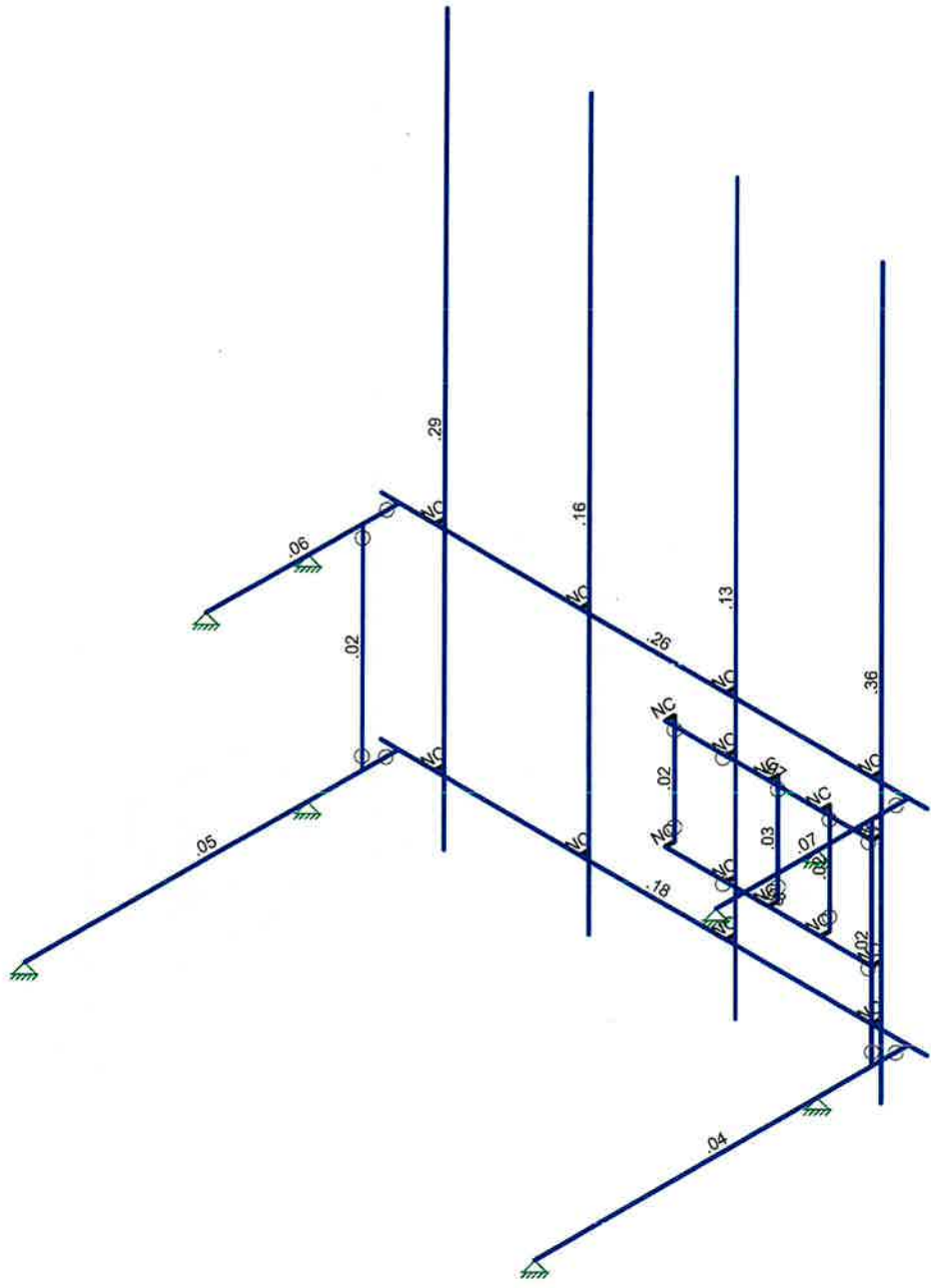
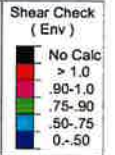
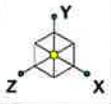
July 13, 2023 at 4:37 PM

5000387162-VZW_MT_LOT_B_H....



Member Code Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...	Antenna Mount Analysis (Alpha/Beta Sector)	SK - 2
Project # 23777139		July 13, 2023 at 4:38 PM
		5000387162-VZW_MT_LOT_B_H...



Member Shear Checks Displayed (Enveloped)
Envelope Only Solution

Colliers Engineering & De...

Antenna Mount Analysis (Alpha/Beta Sector)

SK - 3

July 13, 2023 at 4:38 PM

Project # 23777139

5000387162-VZW_MT_LOT_B_H....



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777139
 Model Name : Antenna Mount Analysis (Alpha/Beta Sector)

July 13, 2023
 4:39 PM
 Checked By: _____

Basic Load Cases

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



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Basic Load Cases (Continued)

BLC Description	Category	X Gr...	Y Gr...	Z Gr...	Joint	Point	Distributed	Area(Member)	Surfa...
57 Structure Wi (120 Deg)	None						34		
58 Structure Wi (150 Deg)	None						34		
59 Structure Wi (180 Deg)	None						34		
60 Structure Wi (210 Deg)	None						34		
61 Structure Wi (240 Deg)	None						34		
62 Structure Wi (270 Deg)	None						34		
63 Structure Wi (300 Deg)	None						34		
64 Structure Wi (330 Deg)	None						34		
65 Structure Wm (0 Deg)	None						34		
66 Structure Wm (30 Deg)	None						34		
67 Structure Wm (60 Deg)	None						34		
68 Structure Wm (90 Deg)	None						34		
69 Structure Wm (120 Deg)	None						34		
70 Structure Wm (150 Deg)	None						34		
71 Structure Wm (180 Deg)	None						34		
72 Structure Wm (210 Deg)	None						34		
73 Structure Wm (240 Deg)	None						34		
74 Structure Wm (270 Deg)	None						34		
75 Structure Wm (300 Deg)	None						34		
76 Structure Wm (330 Deg)	None						34		
77 Lm1	None					1			
78 Lm2	None					1			
79 Lv1	None					1			
80 Lv2	None					1			
81 Antenna Ev	None					45			
82 Antenna Eh (0 Deg)	None					30			
83 Antenna Eh (90 Deg)	None					30			
84 Structure Ev	ELY		-048						
85 Structure Eh (0 Deg)	ELZ			-15					
86 Structure Eh (90 Deg)	ELX	.15							

Load Combinations

Description	S...	PDel...	SR...	BLC	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
1 1.2D+1.0Wo (0 Deg)	Yes	Y		1	1.2	39	1.2	3	1	41	1												
2 1.2D+1.0Wo (30 Deg)	Yes	Y		1	1.2	39	1.2	4	1	42	1												
3 1.2D+1.0Wo (60 Deg)	Yes	Y		1	1.2	39	1.2	5	1	43	1												
4 1.2D+1.0Wo (90 Deg)	Yes	Y		1	1.2	39	1.2	6	1	44	1												
5 1.2D+1.0Wo (120 De...)	Yes	Y		1	1.2	39	1.2	7	1	45	1												
6 1.2D+1.0Wo (150 De...)	Yes	Y		1	1.2	39	1.2	8	1	46	1												
7 1.2D+1.0Wo (180 De...)	Yes	Y		1	1.2	39	1.2	9	1	47	1												
8 1.2D+1.0Wo (210 De...)	Yes	Y		1	1.2	39	1.2	10	1	48	1												
9 1.2D+1.0Wo (240 De...)	Yes	Y		1	1.2	39	1.2	11	1	49	1												
10 1.2D+1.0Wo (270 De...)	Yes	Y		1	1.2	39	1.2	12	1	50	1												
11 1.2D+1.0Wo (300 De...)	Yes	Y		1	1.2	39	1.2	13	1	51	1												
12 1.2D+1.0Wo (330 De...)	Yes	Y		1	1.2	39	1.2	14	1	52	1												
13 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	15	1	53	1								
14 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	16	1	54	1								
15 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	17	1	55	1								
16 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	18	1	56	1								
17 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	19	1	57	1								
18 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	20	1	58	1								
19 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	21	1	59	1								
20 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	22	1	60	1								
21 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	23	1	61	1								
22 1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	24	1	62	1								



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Load Combinations (Continued)

	Description	S...	PDel.	SR...	BLC	Fa...	BLC	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...	BLC	Fa...	B...	Fa...	B...	Fa...	B...	Fa...
23	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	25	1	63	1								
24	1.2D + 1.0Di + 1.0Wi...	Yes	Y		1	1.2	39	1.2	2	1	40	1	26	1	64	1								
25	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	27	1	65	1										
26	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	28	1	66	1										
27	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	29	1	67	1										
28	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	30	1	68	1										
29	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	31	1	69	1										
30	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	32	1	70	1										
31	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	33	1	71	1										
32	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	34	1	72	1										
33	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	35	1	73	1										
34	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	36	1	74	1										
35	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	37	1	75	1										
36	1.2D + 1.5Lm1 + 1.0...		Y		1	1.2	39	1.2	77	1.5	38	1	76	1										
37	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	27	1	65	1										
38	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	28	1	66	1										
39	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	29	1	67	1										
40	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	30	1	68	1										
41	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	31	1	69	1										
42	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	32	1	70	1										
43	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	33	1	71	1										
44	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	34	1	72	1										
45	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	35	1	73	1										
46	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	36	1	74	1										
47	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	37	1	75	1										
48	1.2D + 1.5Lm2 + 1.0...		Y		1	1.2	39	1.2	78	1.5	38	1	76	1										
49	1.2D + 1.5Lv1		Y		1	1.2	39	1.2	79	1.5														
50	1.2D + 1.5Lv2		Y		1	1.2	39	1.2	80	1.5														
51	1.4D	Yes	Y		1	1.4	39	1.4																
52	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	1	83	ELZ	1	E...						
53	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	.5	ELZ	.866	E...	.5				
54	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	.866	ELZ	.5	E...	.866				
55	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	1	ELZ		E...	1				
56	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	.866	ELZ	-.5	E...	.866				
57	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8	83	.5	ELZ	-.8	E...	.5				
58	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.1	83		ELZ	-.1	E...					
59	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.8	83	-.5	ELZ	-.8	E...	-.5				
60	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	-.5	83	-.8	ELZ	-.5	E...	-.8				
61	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82		83	-.1	ELZ		E...	-.1				
62	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.5	83	-.8	ELZ	.5	E...	-.8				
63	1.2D + 1.0Ev + 1.0E...	Yes	Y		1	1.2	39	1.2	81	1	E...	1	82	.866	83	-.5	ELZ	.866	E...	-.5				
64	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	1	83	ELZ	1	E...						
65	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	.866	83	.5	ELZ	.866	E...	.5				
66	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	.5	83	.866	ELZ	.5	E...	.866				
67	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82		83	1	ELZ		E...	1				
68	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	-.5	83	.866	ELZ	-.5	E...	.866				
69	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	-.8	83	.5	ELZ	-.8	E...	.5				
70	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	-.1	83		ELZ	-.1	E...					
71	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	-.8	83	-.5	ELZ	-.8	E...	-.5				
72	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	-.5	83	-.8	ELZ	-.5	E...	-.8				
73	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82		83	-.1	ELZ		E...	-.1				
74	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	.5	83	-.8	ELZ	.5	E...	-.8				
75	0.9D - 1.0Ev + 1.0Eh...	Yes	Y		1	.9	39	.9	81	-.1	E...	-.1	82	.866	83	-.5	ELZ	.866	E...	-.5				



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777139
 Model Name : Antenna Mount Analysis (Alpha/Beta Sector)

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Joint Coordinates and Temperatures

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
1	N31	.5	9.125	2.041667	0	
2	N32	-14.5	9.125	2.041667	0	
3	N37	.5	3.25	2.041667	0	
4	N38	-14.5	3.25	2.041667	0	
5	N41	-13	9.125	2.041667	0	
6	N42	-13	3.25	2.041667	0	
7	N45	-13	9.125	1.791667	0	
8	N46	-13	3.25	1.791667	0	
9	N45A	-13	21.25	1.791667	0	
10	N46A	-13	1.25	1.791667	0	
11	N53	-9	9.125	2.041667	0	
12	N54	-9	3.25	2.041667	0	
13	N55	-9	9.125	1.791667	0	
14	N56	-9	3.25	1.791667	0	
15	N57	-9	21.25	1.791667	0	
16	N58	-9	1.25	1.791667	0	
17	N59	-1	9.125	2.041667	0	
18	N60	-1	3.25	2.041667	0	
19	N61	-1	9.125	1.791667	0	
20	N62	-1	3.25	1.791667	0	
21	N63	-1	21.25	1.791667	0	
22	N64	-1	1.25	1.791667	0	
23	N29	0	9.125	2.041667	0	
24	N32A	-13.75	2.958333	2.041667	0	
25	N33	-13	17.25	1.791667	0	
26	N35	-9	17.25	1.791667	0	
27	N36	-1	17.25	1.791667	0	
28	N39	-9	18.25	1.791667	0	
29	N40	-9	16.25	1.791667	0	
30	N41A	-1	11.166667	1.791667	0	
31	N44	-9	11.083333	1.791667	0	
32	N45B	-9	7.25	1.791667	0	
33	N46B	-13	4.75	1.791667	0	
34	N48A	-1	7.625	1.791667	0	
35	N50A	-1	4.625	1.791667	0	
36	N51A	-6.666667	7.625	2.041667	0	
37	N52A	-1	7.625	2.041667	0	
38	N53A	-6.666667	4.625	2.041667	0	
39	N54A	-1	4.625	2.041667	0	
40	N55A	-3.833333	7.625	2.041667	0	
41	N56A	-3.833333	4.625	2.041667	0	
42	N57A	-2.416667	7.625	2.041667	0	
43	N58A	-2.416667	4.625	2.041667	0	
44	N59A	-3.833333	7.625	1.791667	0	
45	N60A	-3.833333	4.625	1.791667	0	
46	N61A	-2.416667	7.625	1.791667	0	
47	N62A	-2.416667	4.625	1.791667	0	
48	N71	-6.666667	7.625	1.791667	0	
49	N72	-6.666667	4.625	1.791667	0	
50	N83	0	9.125	7.317475	0	
51	N92	-13.75	3.25	2.041667	0	
52	N97	-14	9.125	7.317475	0	
53	N98	-14	9.125	2.041667	0	
54	N98A	-14	3.25	2.041667	0	
55	N100A	-14	3.25	12.271766	0	
56	N102	0	3.25	2.041667	0	



Joint Coordinates and Temperatures (Continued)

	Label	X [ft]	Y [ft]	Z [ft]	Temp [F]	Detach From Diap...
57	N104	0.	3.25	12.271766	0	
58	N77	0.	9.125	4.541667	0	
59	N79	-14	9.125	4.541667	0	
60	N81	-14	3.25	4.541667	0	
61	N83A	0.	3.25	4.541667	0	
62	N77A	-13	11.75	1.791667	0	
63	N78	-14	9.125	3.041667	0	
64	N79A	-14	3.25	3.041667	0	
65	N80	0	9.125	3.041667	0	
66	N81A	0	3.25	3.041667	0	
67	N82	-5	9.125	2.041667	0	
68	N83B	-5	3.25	2.041667	0	
69	N84	-5	9.125	1.791667	0	
70	N85	-5	3.25	1.791667	0	
71	N86	-5	21.25	1.791667	0	
72	N87	-5	1.25	1.791667	0	
73	N88	-5	17.25	1.791667	0	
74	N89	-5	19.75	1.791667	0	
75	N90	-5	14.75	1.791667	0	
76	N91	-5	12.25	1.791667	0	
77	N92A	-5	10.75	1.791667	0	
78	N93	-5	7.625	1.791667	0	
79	N94	-5	4.625	1.791667	0	
80	N95	-5	7.625	2.041667	0	
81	N96	-5	4.625	2.041667	0	

Hot Rolled Steel Section Sets

	Label	Shape	Type	Design List	Material	Design... A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Antenna Pipe	PIPE 3.0	Column	Pipe	A53 Gr. B	Typical 2.07	2.85	2.85	5.69
2	Face Horizontal	PIPE 3.0	Beam	Pipe	A53 Gr. B	Typical 2.07	2.85	2.85	5.69
3	Frame Horizontal	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical 1.93	3	3	.0438
4	Frame Angle	L4X4X6	Beam	Single Angle	A36 Gr.36	Typical 2.86	4.32	4.32	.141
5	Frame Angle Top	L4X4X4	Beam	Single Angle	A36 Gr.36	Typical 1.93	3	3	.0438
6	Replacement Mount Pipe	PIPE 3.5X	Column	Pipe	A53 Gr. B	Typical 3.43	5.94	5.94	11.9
7	Replacement Horizontal	PIPE 3.5X	Beam	Pipe	A53 Gr. B	Typical 3.43	5.94	5.94	11.9
8	Mod Vertical Brace Angle	L3X3X4	Beam	Single Angle	A36 Gr.36	Typical 1.44	1.23	1.23	.0313

Cold Formed Steel Section Sets

	Label	Shape	Type	Design ...	Material	Design ... A [in2]	Iy [in4]	Izz [in4]	J [in4]
1	Unistrut	1.625CS1.625X125	Column	CS	A570 Gr.33	Typical .6	.184	.25	.003

Hot Rolled Steel Properties

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



Cold Formed Steel Properties

	Label	E [ksj]	G [ksj]	Nu	Therm (/1E5 F)	Density[k/ft^3]	Yield[ksj]	Fu[ksj]
1	A570 Gr.33	29500	11346	.3	.65	.49	33	52
2	A607 C1 Gr.55	29500	11346	.3	.65	.49	55	70

Member Primary Data

	Label	I Joint	J Joint	K Joint	Rotate(d...	Section/Shape	Type	Design List	Material	Design Ru...
1	M21	N31	N32			Replacement Hori...	Beam	Pipe	A53 Gr. B	Typical
2	M24	N37	N38			Face Horizontal	Beam	Pipe	A53 Gr. B	Typical
3	M27	N41	N45			RIGID	None	None	RIGID	Typical
4	M28	N42	N46			RIGID	None	None	RIGID	Typical
5	MP4A	N45A	N46A			Replacement Mou...	Column	Pipe	A53 Gr. B	Typical
6	M33	N53	N55			RIGID	None	None	RIGID	Typical
7	M34	N54	N56			RIGID	None	None	RIGID	Typical
8	MP3A	N57	N58			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
9	M36	N59	N61			RIGID	None	None	RIGID	Typical
10	M37	N60	N62			RIGID	None	None	RIGID	Typical
11	MP1A	N63	N64			Antenna Pipe	Column	Pipe	A53 Gr. B	Typical
12	M15	N48A	N52A		90	RIGID	None	None	RIGID	Typical
13	M16	N50A	N54A		90	RIGID	None	None	RIGID	Typical
14	M19	N51A	N52A		90	Frame Horizontal	Beam	Single Angle	A36 Gr.36	Typical
15	M20	N53A	N54A		90	Frame Horizontal	Beam	Single Angle	A36 Gr.36	Typical
16	M21A	N57A	N61A		90	RIGID	None	None	RIGID	Typical
17	M22	N58A	N62A		90	RIGID	None	None	RIGID	Typical
18	M23	N56A	N60A		90	RIGID	None	None	RIGID	Typical
19	M24A	N59A	N55A		90	RIGID	None	None	RIGID	Typical
20	M25	N59A	N60A		180	Unistrut	Column	CS	A570 Gr...	Typical
21	M26	N61A	N62A		180	Unistrut	Column	CS	A570 Gr...	Typical
22	M27A	N51A	N71		90	RIGID	None	None	RIGID	Typical
23	M28A	N53A	N72		90	RIGID	None	None	RIGID	Typical
24	M29	N71	N72		180	Unistrut	Column	CS	A570 Gr...	Typical
25	M32	N29	N83		90	Frame Angle Top	Beam	Single Angle	A36 Gr.36	Typical
26	M51	N98	N97		90	Frame Angle Top	Beam	Single Angle	A36 Gr.36	Typical
27	M51A	N98A	N100A		180	Frame Angle	Beam	Single Angle	A36 Gr.36	Typical
28	M53A	N102	N104		90	Frame Angle	Beam	Single Angle	A36 Gr.36	Typical
29	M34A	N78	N79A			Mod Vertical Brac...	Beam	Single Angle	A36 Gr.36	Typical
30	M35	N80	N81A		90	Mod Vertical Brac...	Beam	Single Angle	A36 Gr.36	Typical
31	M36A	N82	N84			RIGID	None	None	RIGID	Typical
32	M37A	N83B	N85			RIGID	None	None	RIGID	Typical
33	MP2A	N86	N87			Replacement Mou...	Column	Pipe	A53 Gr. B	Typical
34	M39	N94	N96		90	RIGID	None	None	RIGID	Typical
35	M40	N93	N95		90	RIGID	None	None	RIGID	Typical

Member Advanced Data

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl Ratio Opti...	Analysis ...	Inactive	Seismi...
1	M21						Yes	Default		None
2	M24						Yes			None
3	M27						Yes	** NA **		None
4	M28						Yes	** NA **		None
5	MP4A						Yes	** NA **		None
6	M33						Yes	** NA **		None
7	M34						Yes	** NA **		None
8	MP3A						Yes	** NA **		None
9	M36						Yes	** NA **		None
10	M37						Yes	** NA **		None



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Member Advanced Data (Continued)

	Label	I Release	J Release	I Offset[in]	J Offset[in]	T/C Only	Physical Defl	Ratio Opti...	Analysis ...	Inactive	Seismi...
11	MP1A						Yes	** NA **			None
12	M15	00000X					Yes	** NA **			None
13	M16	00000X					Yes	** NA **			None
14	M19						Yes	Default			None
15	M20						Yes				None
16	M21A						Yes	** NA **			None
17	M22						Yes	** NA **			None
18	M23						Yes	** NA **			None
19	M24A						Yes	** NA **			None
20	M25	BenPIN	BenPIN				Yes	** NA **			None
21	M26	BenPIN	BenPIN				Yes	** NA **			None
22	M27A						Yes	** NA **			None
23	M28A						Yes	** NA **			None
24	M29	BenPIN	BenPIN				Yes	** NA **			None
25	M32	BenPIN					Yes				None
26	M51	BenPIN					Yes	Default			None
27	M51A	BenPIN					Yes	Default			None
28	M53A	BenPIN					Yes				None
29	M34A	BenPIN	BenPIN				Yes	Default			None
30	M35	BenPIN	BenPIN				Yes	Default			None
31	M36A						Yes	** NA **			None
32	M37A						Yes	** NA **			None
33	MP2A						Yes	** NA **			None
34	M39	00000X					Yes	** NA **			None
35	M40	00000X					Yes	** NA **			None

Member Point Loads (BLC 1 : Antenna D)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-43.55	3
2	MP3A	My	-.0205	3
3	MP3A	Mz	.0074	3
4	MP3A	Y	-43.55	5
5	MP3A	My	-.0205	5
6	MP3A	Mz	.0074	5
7	MP4A	Y	-9.6	1
8	MP4A	My	-.0075	1
9	MP4A	Mz	.0027	1
10	MP4A	Y	-9.6	6
11	MP4A	My	-.0075	6
12	MP4A	Mz	.0027	6
13	MP2A	Y	-31.65	1.5
14	MP2A	My	-.0225	1.5
15	MP2A	Mz	.0307	1.5
16	MP2A	Y	-31.65	6.5
17	MP2A	My	-.0225	6.5
18	MP2A	Mz	.0307	6.5
19	MP2A	Y	-31.65	1.5
20	MP2A	My	-.037	1.5
21	MP2A	Mz	-.009	1.5
22	MP2A	Y	-31.65	6.5
23	MP2A	My	-.037	6.5
24	MP2A	Mz	-.009	6.5
25	MP4A	Y	-14	16
26	MP4A	My	.0082	16
27	MP4A	Mz	0	16



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
28	M26	Y	-10.4	1.5
29	M26	Mv	0	1.5
30	M26	Mz	0	1.5
31	M25	Y	-84.4	1.5
32	M25	My	0	1.5
33	M25	Mz	0	1.5
34	M29	Y	-70.3	1.5
35	M29	Mv	0	1.5
36	M29	Mz	0	1.5
37	MP2A	Y	-17.6	9
38	MP2A	My	-.0044	9
39	MP2A	Mz	0	9
40	MP2A	Y	-17.6	9
41	MP2A	Mv	.0044	9
42	MP2A	Mz	0	9
43	MP1A	Y	-23.2	1.5
44	MP1A	Mv	-.0109	1.5
45	MP1A	Mz	.004	1.5

Member Point Loads (BLC 2 : Antenna Di)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	Y	-42.231	3
2	MP3A	My	-.0198	3
3	MP3A	Mz	.0072	3
4	MP3A	Y	-42.231	5
5	MP3A	Mv	-.0198	5
6	MP3A	Mz	.0072	5
7	MP4A	Y	-59.8383	1
8	MP4A	My	-.0469	1
9	MP4A	Mz	.0171	1
10	MP4A	Y	-59.8383	6
11	MP4A	Mv	-.0469	6
12	MP4A	Mz	.0171	6
13	MP2A	Y	-82.6783	1.5
14	MP2A	My	-.0588	1.5
15	MP2A	Mz	.0801	1.5
16	MP2A	Y	-82.6783	6.5
17	MP2A	Mv	-.0588	6.5
18	MP2A	Mz	.0801	6.5
19	MP2A	Y	-82.6783	1.5
20	MP2A	My	-.0965	1.5
21	MP2A	Mz	-.0235	1.5
22	MP2A	Y	-82.6783	6.5
23	MP2A	Mv	-.0965	6.5
24	MP2A	Mz	-.0235	6.5
25	MP4A	Y	-35.276	16
26	MP4A	My	.0206	16
27	MP4A	Mz	0	16
28	M26	Y	-13.0568	1.5
29	M26	Mv	0	1.5
30	M26	Mz	0	1.5
31	M25	Y	-53.3851	1.5
32	M25	My	0	1.5
33	M25	Mz	0	1.5
34	M29	Y	-48.0735	1.5
35	M29	My	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	M29	Mz	0	1.5
37	MP2A	Y	-20.8128	9
38	MP2A	My	-0.052	9
39	MP2A	Mz	0	9
40	MP2A	Y	-20.8128	9
41	MP2A	My	.052	9
42	MP2A	Mz	0	9
43	MP1A	Y	-35.7044	1.5
44	MP1A	My	-.0168	1.5
45	MP1A	Mz	.0061	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	-84.615	3
3	MP3A	Mx	-.0145	3
4	MP3A	X	0	5
5	MP3A	Z	-84.615	5
6	MP3A	Mx	-.0145	5
7	MP4A	X	0	1
8	MP4A	Z	-160.908	1
9	MP4A	Mx	-.0459	1
10	MP4A	X	0	6
11	MP4A	Z	-160.908	6
12	MP4A	Mx	-.0459	6
13	MP2A	X	0	1.5
14	MP2A	Z	-204.426	1.5
15	MP2A	Mx	-.198	1.5
16	MP2A	X	0	6.5
17	MP2A	Z	-204.426	6.5
18	MP2A	Mx	-.198	6.5
19	MP2A	X	0	1.5
20	MP2A	Z	-204.426	1.5
21	MP2A	Mx	.0581	1.5
22	MP2A	X	0	6.5
23	MP2A	Z	-204.426	6.5
24	MP2A	Mx	.0581	6.5
25	MP4A	X	0	16
26	MP4A	Z	-53.77	16
27	MP4A	Mx	0	16
28	M26	X	0	1.5
29	M26	Z	-17.139	1.5
30	M26	Mx	0	1.5
31	M25	X	0	1.5
32	M25	Z	-71.754	1.5
33	M25	Mx	0	1.5
34	M29	X	0	1.5
35	M29	Z	-71.486	1.5
36	M29	Mx	0	1.5
37	MP2A	X	0	9
38	MP2A	Z	-44.886	9
39	MP2A	Mx	0	9
40	MP2A	X	0	9
41	MP2A	Z	-44.886	9
42	MP2A	Mx	0	9
43	MP1A	X	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
44	MP1A	Z	-67.298	1.5
45	MP1A	Mx	-.0115	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	28.193	3
2	MP3A	Z	-48.831	3
3	MP3A	Mx	-.0216	3
4	MP3A	X	28.193	5
5	MP3A	Z	-48.831	5
6	MP3A	Mx	-.0216	5
7	MP4A	X	62.742	1
8	MP4A	Z	-108.672	1
9	MP4A	Mx	-.0801	1
10	MP4A	X	62.742	6
11	MP4A	Z	-108.672	6
12	MP4A	Mx	-.0801	6
13	MP2A	X	85.041	1.5
14	MP2A	Z	-147.296	1.5
15	MP2A	Mx	-.2032	1.5
16	MP2A	X	85.041	6.5
17	MP2A	Z	-147.296	6.5
18	MP2A	Mx	-.2032	6.5
19	MP2A	X	85.041	1.5
20	MP2A	Z	-147.296	1.5
21	MP2A	Mx	-.0574	1.5
22	MP2A	X	85.041	6.5
23	MP2A	Z	-147.296	6.5
24	MP2A	Mx	-.0574	6.5
25	MP4A	X	25.595	16
26	MP4A	Z	-44.333	16
27	MP4A	Mx	.0149	16
28	M26	X	8.338	1.5
29	M26	Z	-14.442	1.5
30	M26	Mx	0	1.5
31	M25	X	34.842	1.5
32	M25	Z	-60.348	1.5
33	M25	Mx	0	1.5
34	M29	X	34.322	1.5
35	M29	Z	-59.448	1.5
36	M29	Mx	0	1.5
37	MP2A	X	18.511	9
38	MP2A	Z	-32.062	9
39	MP2A	Mx	-.0046	9
40	MP2A	X	18.511	9
41	MP2A	Z	-32.062	9
42	MP2A	Mx	.0046	9
43	MP1A	X	25.133	1.5
44	MP1A	Z	-43.532	1.5
45	MP1A	Mx	-.0193	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	28.901	3
2	MP3A	Z	-16.686	3
3	MP3A	Mx	-.0164	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP3A	X	28.901	5
5	MP3A	Z	-16.686	5
6	MP3A	Mx	-.0164	5
7	MP4A	X	83.663	1
8	MP4A	Z	-48.303	1
9	MP4A	Mx	-.0793	1
10	MP4A	X	83.663	6
11	MP4A	Z	-48.303	6
12	MP4A	Mx	-.0793	6
13	MP2A	X	123.049	1.5
14	MP2A	Z	-71.042	1.5
15	MP2A	Mx	-.1564	1.5
16	MP2A	X	123.049	6.5
17	MP2A	Z	-71.042	6.5
18	MP2A	Mx	-.1564	6.5
19	MP2A	X	123.049	1.5
20	MP2A	Z	-71.042	1.5
21	MP2A	Mx	-.1235	1.5
22	MP2A	X	123.049	6.5
23	MP2A	Z	-71.042	6.5
24	MP2A	Mx	-.1235	6.5
25	MP4A	X	39.865	16
26	MP4A	Z	-23.016	16
27	MP4A	Mx	.0233	16
28	M26	X	12.273	1.5
29	M26	Z	-7.086	1.5
30	M26	Mx	0	1.5
31	M25	X	50.645	1.5
32	M25	Z	-29.24	1.5
33	M25	Mx	0	1.5
34	M29	X	46.13	1.5
35	M29	Z	-26.633	1.5
36	M29	Mx	0	1.5
37	MP2A	X	18.439	9
38	MP2A	Z	-10.646	9
39	MP2A	Mx	-.0046	9
40	MP2A	X	18.439	9
41	MP2A	Z	-10.646	9
42	MP2A	Mx	.0046	9
43	MP1A	X	31.508	1.5
44	MP1A	Z	-18.191	1.5
45	MP1A	Mx	-.0179	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	38.589	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.0181	3
4	MP3A	X	38.589	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.0181	5
7	MP4A	X	103.152	1
8	MP4A	Z	0	1
9	MP4A	Mx	-.0808	1
10	MP4A	X	103.152	6
11	MP4A	Z	0	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
12	MP4A	Mx	-.0808	6
13	MP2A	X	148.431	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	-.1056	1.5
16	MP2A	X	148.431	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.1056	6.5
19	MP2A	X	148.431	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	-.1733	1.5
22	MP2A	X	148.431	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	-.1733	6.5
25	MP4A	X	43.453	16
26	MP4A	Z	0	16
27	MP4A	Mx	.0253	16
28	M26	X	12.13	1.5
29	M26	Z	0	1.5
30	M26	Mx	0	1.5
31	M25	X	49.346	1.5
32	M25	Z	0	1.5
33	M25	Mx	0	1.5
34	M29	X	40.73	1.5
35	M29	Z	0	1.5
36	M29	Mx	0	1.5
37	MP2A	X	13.427	9
38	MP2A	Z	0	9
39	MP2A	Mx	-.0034	9
40	MP2A	X	13.427	9
41	MP2A	Z	0	9
42	MP2A	Mx	.0034	9
43	MP1A	X	39.53	1.5
44	MP1A	Z	0	1.5
45	MP1A	Mx	-.0186	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	57.867	3
2	MP3A	Z	33.409	3
3	MP3A	Mx	-.0215	3
4	MP3A	X	57.867	5
5	MP3A	Z	33.409	5
6	MP3A	Mx	-.0215	5
7	MP4A	X	120.01	1
8	MP4A	Z	69.288	1
9	MP4A	Mx	-.0742	1
10	MP4A	X	120.01	6
11	MP4A	Z	69.288	6
12	MP4A	Mx	-.0742	6
13	MP2A	X	158.288	1.5
14	MP2A	Z	91.388	1.5
15	MP2A	Mx	-.0241	1.5
16	MP2A	X	158.288	6.5
17	MP2A	Z	91.388	6.5
18	MP2A	Mx	-.0241	6.5
19	MP2A	X	158.288	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	91.388	1.5
21	MP2A	Mx	-.2108	1.5
22	MP2A	X	158.288	6.5
23	MP2A	Z	91.388	6.5
24	MP2A	Mx	-.2108	6.5
25	MP4A	X	39.865	16
26	MP4A	Z	23.016	16
27	MP4A	Mx	.0233	16
28	M26	X	10.906	1.5
29	M26	Z	6.297	1.5
30	M26	Mx	0	1.5
31	M25	X	44.528	1.5
32	M25	Z	25.708	1.5
33	M25	Mx	0	1.5
34	M29	X	37.734	1.5
35	M29	Z	21.786	1.5
36	M29	Mx	0	1.5
37	MP2A	X	18.439	9
38	MP2A	Z	10.646	9
39	MP2A	Mx	-.0046	9
40	MP2A	X	18.439	9
41	MP2A	Z	10.646	9
42	MP2A	Mx	.0046	9
43	MP1A	X	48.983	1.5
44	MP1A	Z	28.28	1.5
45	MP1A	Mx	-.0182	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	44.916	3
2	MP3A	Z	77.796	3
3	MP3A	Mx	-.0078	3
4	MP3A	X	44.916	5
5	MP3A	Z	77.796	5
6	MP3A	Mx	-.0078	5
7	MP4A	X	83.727	1
8	MP4A	Z	145.019	1
9	MP4A	Mx	-.0242	1
10	MP4A	X	83.727	6
11	MP4A	Z	145.019	6
12	MP4A	Mx	-.0242	6
13	MP2A	X	105.386	1.5
14	MP2A	Z	182.535	1.5
15	MP2A	Mx	.1018	1.5
16	MP2A	X	105.386	6.5
17	MP2A	Z	182.535	6.5
18	MP2A	Mx	.1018	6.5
19	MP2A	X	105.386	1.5
20	MP2A	Z	182.535	1.5
21	MP2A	Mx	-.175	1.5
22	MP2A	X	105.386	6.5
23	MP2A	Z	182.535	6.5
24	MP2A	Mx	-.175	6.5
25	MP4A	X	25.595	16
26	MP4A	Z	44.333	16
27	MP4A	Mx	.0149	16



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
28	M26	X	7.549	1.5
29	M26	Z	13.075	1.5
30	M26	Mx	0	1.5
31	M25	X	31.31	1.5
32	M25	Z	54.231	1.5
33	M25	Mx	0	1.5
34	M29	X	29.475	1.5
35	M29	Z	51.052	1.5
36	M29	Mx	0	1.5
37	MP2A	X	18.511	9
38	MP2A	Z	32.062	9
39	MP2A	Mx	-.0046	9
40	MP2A	X	18.511	9
41	MP2A	Z	32.062	9
42	MP2A	Mx	.0046	9
43	MP1A	X	35.222	1.5
44	MP1A	Z	61.007	1.5
45	MP1A	Mx	-.0061	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	0	3
2	MP3A	Z	84.615	3
3	MP3A	Mx	.0145	3
4	MP3A	X	0	5
5	MP3A	Z	84.615	5
6	MP3A	Mx	.0145	5
7	MP4A	X	0	1
8	MP4A	Z	160.908	1
9	MP4A	Mx	.0459	1
10	MP4A	X	0	6
11	MP4A	Z	160.908	6
12	MP4A	Mx	.0459	6
13	MP2A	X	0	1.5
14	MP2A	Z	204.426	1.5
15	MP2A	Mx	.198	1.5
16	MP2A	X	0	6.5
17	MP2A	Z	204.426	6.5
18	MP2A	Mx	.198	6.5
19	MP2A	X	0	1.5
20	MP2A	Z	204.426	1.5
21	MP2A	Mx	-.0581	1.5
22	MP2A	X	0	6.5
23	MP2A	Z	204.426	6.5
24	MP2A	Mx	-.0581	6.5
25	MP4A	X	0	16
26	MP4A	Z	53.77	16
27	MP4A	Mx	0	16
28	M26	X	0	1.5
29	M26	Z	17.139	1.5
30	M26	Mx	0	1.5
31	M25	X	0	1.5
32	M25	Z	71.754	1.5
33	M25	Mx	0	1.5
34	M29	X	0	1.5
35	M29	Z	71.486	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
36	M29	Mx	0	1.5
37	MP2A	X	0	9
38	MP2A	Z	44.886	9
39	MP2A	Mx	0	9
40	MP2A	X	0	9
41	MP2A	Z	44.886	9
42	MP2A	Mx	0	9
43	MP1A	X	0	1.5
44	MP1A	Z	67.298	1.5
45	MP1A	Mx	.0115	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-28.193	3
2	MP3A	Z	48.831	3
3	MP3A	Mx	.0216	3
4	MP3A	X	-28.193	5
5	MP3A	Z	48.831	5
6	MP3A	Mx	.0216	5
7	MP4A	X	-62.742	1
8	MP4A	Z	108.672	1
9	MP4A	Mx	.0801	1
10	MP4A	X	-62.742	6
11	MP4A	Z	108.672	6
12	MP4A	Mx	.0801	6
13	MP2A	X	-85.041	1.5
14	MP2A	Z	147.296	1.5
15	MP2A	Mx	.2032	1.5
16	MP2A	X	-85.041	6.5
17	MP2A	Z	147.296	6.5
18	MP2A	Mx	.2032	6.5
19	MP2A	X	-85.041	1.5
20	MP2A	Z	147.296	1.5
21	MP2A	Mx	.0574	1.5
22	MP2A	X	-85.041	6.5
23	MP2A	Z	147.296	6.5
24	MP2A	Mx	.0574	6.5
25	MP4A	X	-25.595	16
26	MP4A	Z	44.333	16
27	MP4A	Mx	-.0149	16
28	M26	X	-8.338	1.5
29	M26	Z	14.442	1.5
30	M26	Mx	0	1.5
31	M25	X	-34.842	1.5
32	M25	Z	60.348	1.5
33	M25	Mx	0	1.5
34	M29	X	-34.322	1.5
35	M29	Z	59.448	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-18.511	9
38	MP2A	Z	32.062	9
39	MP2A	Mx	.0046	9
40	MP2A	X	-18.511	9
41	MP2A	Z	32.062	9
42	MP2A	Mx	-.0046	9
43	MP1A	X	-25.133	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
44	MP1A	Z	43.532	1.5
45	MP1A	Mx	.0193	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-28.901	3
2	MP3A	Z	16.686	3
3	MP3A	Mx	.0164	3
4	MP3A	X	-28.901	5
5	MP3A	Z	16.686	5
6	MP3A	Mx	.0164	5
7	MP4A	X	-83.663	1
8	MP4A	Z	48.303	1
9	MP4A	Mx	.0793	1
10	MP4A	X	-83.663	6
11	MP4A	Z	48.303	6
12	MP4A	Mx	.0793	6
13	MP2A	X	-123.049	1.5
14	MP2A	Z	71.042	1.5
15	MP2A	Mx	.1564	1.5
16	MP2A	X	-123.049	6.5
17	MP2A	Z	71.042	6.5
18	MP2A	Mx	.1564	6.5
19	MP2A	X	-123.049	1.5
20	MP2A	Z	71.042	1.5
21	MP2A	Mx	.1235	1.5
22	MP2A	X	-123.049	6.5
23	MP2A	Z	71.042	6.5
24	MP2A	Mx	.1235	6.5
25	MP4A	X	-39.865	16
26	MP4A	Z	23.016	16
27	MP4A	Mx	-.0233	16
28	M26	X	-12.273	1.5
29	M26	Z	7.086	1.5
30	M26	Mx	0	1.5
31	M25	X	-50.645	1.5
32	M25	Z	29.24	1.5
33	M25	Mx	0	1.5
34	M29	X	-46.13	1.5
35	M29	Z	26.633	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-18.439	9
38	MP2A	Z	10.646	9
39	MP2A	Mx	.0046	9
40	MP2A	X	-18.439	9
41	MP2A	Z	10.646	9
42	MP2A	Mx	-.0046	9
43	MP1A	X	-31.508	1.5
44	MP1A	Z	18.191	1.5
45	MP1A	Mx	.0179	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-38.589	3
2	MP3A	Z	0	3
3	MP3A	Mx	.0181	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP3A	X	-38.589	5
5	MP3A	Z	0	5
6	MP3A	Mx	.0181	5
7	MP4A	X	-103.152	1
8	MP4A	Z	0	1
9	MP4A	Mx	.0808	1
10	MP4A	X	-103.152	6
11	MP4A	Z	0	6
12	MP4A	Mx	.0808	6
13	MP2A	X	-148.431	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	.1056	1.5
16	MP2A	X	-148.431	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.1056	6.5
19	MP2A	X	-148.431	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	.1733	1.5
22	MP2A	X	-148.431	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	.1733	6.5
25	MP4A	X	-43.453	16
26	MP4A	Z	0	16
27	MP4A	Mx	-.0253	16
28	M26	X	-12.13	1.5
29	M26	Z	0	1.5
30	M26	Mx	0	1.5
31	M25	X	-49.346	1.5
32	M25	Z	0	1.5
33	M25	Mx	0	1.5
34	M29	X	-40.73	1.5
35	M29	Z	0	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-13.427	9
38	MP2A	Z	0	9
39	MP2A	Mx	.0034	9
40	MP2A	X	-13.427	9
41	MP2A	Z	0	9
42	MP2A	Mx	-.0034	9
43	MP1A	X	-39.53	1.5
44	MP1A	Z	0	1.5
45	MP1A	Mx	.0186	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-57.867	3
2	MP3A	Z	-33.409	3
3	MP3A	Mx	.0215	3
4	MP3A	X	-57.867	5
5	MP3A	Z	-33.409	5
6	MP3A	Mx	.0215	5
7	MP4A	X	-120.01	1
8	MP4A	Z	-69.288	1
9	MP4A	Mx	.0742	1
10	MP4A	X	-120.01	6
11	MP4A	Z	-69.288	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP4A	Mx	.0742	6
13	MP2A	X	-158.288	1.5
14	MP2A	Z	-91.388	1.5
15	MP2A	Mx	.0241	1.5
16	MP2A	X	-158.288	6.5
17	MP2A	Z	-91.388	6.5
18	MP2A	Mx	.0241	6.5
19	MP2A	X	-158.288	1.5
20	MP2A	Z	-91.388	1.5
21	MP2A	Mx	.2108	1.5
22	MP2A	X	-158.288	6.5
23	MP2A	Z	-91.388	6.5
24	MP2A	Mx	.2108	6.5
25	MP4A	X	-39.865	16
26	MP4A	Z	-23.016	16
27	MP4A	Mx	-.0233	16
28	M26	X	-10.906	1.5
29	M26	Z	-6.297	1.5
30	M26	Mx	0	1.5
31	M25	X	-44.528	1.5
32	M25	Z	-25.708	1.5
33	M25	Mx	0	1.5
34	M29	X	-37.734	1.5
35	M29	Z	21.786	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-18.439	9
38	MP2A	Z	-10.646	9
39	MP2A	Mx	.0046	9
40	MP2A	X	-18.439	9
41	MP2A	Z	-10.646	9
42	MP2A	Mx	-.0046	9
43	MP1A	X	-48.983	1.5
44	MP1A	Z	-28.28	1.5
45	MP1A	Mx	.0182	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-44.916	3
2	MP3A	Z	-77.796	3
3	MP3A	Mx	.0078	3
4	MP3A	X	-44.916	5
5	MP3A	Z	-77.796	5
6	MP3A	Mx	.0078	5
7	MP4A	X	-83.727	1
8	MP4A	Z	-145.019	1
9	MP4A	Mx	.0242	1
10	MP4A	X	-83.727	6
11	MP4A	Z	-145.019	6
12	MP4A	Mx	.0242	6
13	MP2A	X	-105.386	1.5
14	MP2A	Z	-182.535	1.5
15	MP2A	Mx	-.1018	1.5
16	MP2A	X	-105.386	6.5
17	MP2A	Z	-182.535	6.5
18	MP2A	Mx	-.1018	6.5
19	MP2A	X	-105.386	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	-182.535	1.5
21	MP2A	Mx	.175	1.5
22	MP2A	X	-105.386	6.5
23	MP2A	Z	-182.535	6.5
24	MP2A	Mx	.175	6.5
25	MP4A	X	-25.595	16
26	MP4A	Z	-44.333	16
27	MP4A	Mx	-.0149	16
28	M26	X	-7.549	1.5
29	M26	Z	-13.075	1.5
30	M26	Mx	0	1.5
31	M25	X	-31.31	1.5
32	M25	Z	-54.231	1.5
33	M25	Mx	0	1.5
34	M29	X	-29.475	1.5
35	M29	Z	-51.052	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-18.511	9
38	MP2A	Z	-32.062	9
39	MP2A	Mx	.0046	9
40	MP2A	X	-18.511	9
41	MP2A	Z	-32.062	9
42	MP2A	Mx	-.0046	9
43	MP1A	X	-35.222	1.5
44	MP1A	Z	-61.007	1.5
45	MP1A	Mx	.0061	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	-18.902	3
3	MP3A	Mx	-.0032	3
4	MP3A	X	0	5
5	MP3A	Z	-18.902	5
6	MP3A	Mx	-.0032	5
7	MP4A	X	0	1
8	MP4A	Z	-29.211	1
9	MP4A	Mx	-.0083	1
10	MP4A	X	0	6
11	MP4A	Z	-29.211	6
12	MP4A	Mx	-.0083	6
13	MP2A	X	0	1.5
14	MP2A	Z	-36.508	1.5
15	MP2A	Mx	-.0354	1.5
16	MP2A	X	0	6.5
17	MP2A	Z	-36.508	6.5
18	MP2A	Mx	-.0354	6.5
19	MP2A	X	0	1.5
20	MP2A	Z	-36.508	1.5
21	MP2A	Mx	.0104	1.5
22	MP2A	X	0	6.5
23	MP2A	Z	-36.508	6.5
24	MP2A	Mx	.0104	6.5
25	MP4A	X	0	16
26	MP4A	Z	-11.236	16
27	MP4A	Mx	0	16



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
28	M26	X	0	1.5
29	M26	Z	-4.283	1.5
30	M26	Mx	0	1.5
31	M25	X	0	1.5
32	M25	Z	-17.065	1.5
33	M25	Mx	0	1.5
34	M29	X	0	1.5
35	M29	Z	-17.006	1.5
36	M29	Mx	0	1.5
37	MP2A	X	0	9
38	MP2A	Z	-9.566	9
39	MP2A	Mx	0	9
40	MP2A	X	0	9
41	MP2A	Z	-9.566	9
42	MP2A	Mx	0	9
43	MP1A	X	0	1.5
44	MP1A	Z	-13.708	1.5
45	MP1A	Mx	-0.023	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.749	3
2	MP3A	Z	-11.69	3
3	MP3A	Mx	-0.052	3
4	MP3A	X	6.749	5
5	MP3A	Z	-11.69	5
6	MP3A	Mx	-0.052	5
7	MP4A	X	11.711	1
8	MP4A	Z	-20.285	1
9	MP4A	Mx	-0.15	1
10	MP4A	X	11.711	6
11	MP4A	Z	-20.285	6
12	MP4A	Mx	-0.15	6
13	MP2A	X	15.454	1.5
14	MP2A	Z	-26.768	1.5
15	MP2A	Mx	-0.369	1.5
16	MP2A	X	15.454	6.5
17	MP2A	Z	-26.768	6.5
18	MP2A	Mx	-0.369	6.5
19	MP2A	X	15.454	1.5
20	MP2A	Z	-26.768	1.5
21	MP2A	Mx	-0.104	1.5
22	MP2A	X	15.454	6.5
23	MP2A	Z	-26.768	6.5
24	MP2A	Mx	-0.104	6.5
25	MP4A	X	5.382	16
26	MP4A	Z	-9.321	16
27	MP4A	Mx	.0031	16
28	M26	X	2.096	1.5
29	M26	Z	-3.631	1.5
30	M26	Mx	0	1.5
31	M25	X	8.308	1.5
32	M25	Z	-14.39	1.5
33	M25	Mx	0	1.5
34	M29	X	8.193	1.5
35	M29	Z	-14.191	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	M29	Mx	0	1.5
37	MP2A	X	4.048	9
38	MP2A	Z	-7.012	9
39	MP2A	Mx	-.001	9
40	MP2A	X	4.048	9
41	MP2A	Z	-7.012	9
42	MP2A	Mx	.001	9
43	MP1A	X	5.319	1.5
44	MP1A	Z	-9.212	1.5
45	MP1A	Mx	-.0041	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	7.874	3
2	MP3A	Z	-4.546	3
3	MP3A	Mx	-.0045	3
4	MP3A	X	7.874	5
5	MP3A	Z	-4.546	5
6	MP3A	Mx	-.0045	5
7	MP4A	X	16.198	1
8	MP4A	Z	-9.352	1
9	MP4A	Mx	-.0154	1
10	MP4A	X	16.198	6
11	MP4A	Z	-9.352	6
12	MP4A	Mx	-.0154	6
13	MP2A	X	22.815	1.5
14	MP2A	Z	-13.172	1.5
15	MP2A	Mx	-.029	1.5
16	MP2A	X	22.815	6.5
17	MP2A	Z	-13.172	6.5
18	MP2A	Mx	-.029	6.5
19	MP2A	X	22.815	1.5
20	MP2A	Z	-13.172	1.5
21	MP2A	Mx	-.0229	1.5
22	MP2A	X	22.815	6.5
23	MP2A	Z	-13.172	6.5
24	MP2A	Mx	-.0229	6.5
25	MP4A	X	8.502	16
26	MP4A	Z	-4.909	16
27	MP4A	Mx	.005	16
28	M26	X	3.207	1.5
29	M26	Z	-1.851	1.5
30	M26	Mx	0	1.5
31	M25	X	12.289	1.5
32	M25	Z	-7.095	1.5
33	M25	Mx	0	1.5
34	M29	X	11.292	1.5
35	M29	Z	-6.519	1.5
36	M29	Mx	0	1.5
37	MP2A	X	4.466	9
38	MP2A	Z	-2.579	9
39	MP2A	Mx	-.0011	9
40	MP2A	X	4.466	9
41	MP2A	Z	-2.579	9
42	MP2A	Mx	.0011	9
43	MP1A	X	7.045	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
44	MP1A	Z	-4.067	1.5
45	MP1A	Mx	-.004	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	10.091	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.0047	3
4	MP3A	X	10.091	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.0047	5
7	MP4A	X	19.774	1
8	MP4A	Z	0	1
9	MP4A	Mx	-.0155	1
10	MP4A	X	19.774	6
11	MP4A	Z	0	6
12	MP4A	Mx	-.0155	6
13	MP2A	X	27.379	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	-.0195	1.5
16	MP2A	X	27.379	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.0195	6.5
19	MP2A	X	27.379	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	-.032	1.5
22	MP2A	X	27.379	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	-.032	6.5
25	MP4A	X	9.345	16
26	MP4A	Z	0	16
27	MP4A	Mx	.0055	16
28	M26	X	3.303	1.5
29	M26	Z	0	1.5
30	M26	Mx	0	1.5
31	M25	X	12.212	1.5
32	M25	Z	0	1.5
33	M25	Mx	0	1.5
34	M29	X	10.309	1.5
35	M29	Z	0	1.5
36	M29	Mx	0	1.5
37	MP2A	X	3.687	9
38	MP2A	Z	0	9
39	MP2A	Mx	-.000922	9
40	MP2A	X	3.687	9
41	MP2A	Z	0	9
42	MP2A	Mx	.000922	9
43	MP1A	X	8.702	1.5
44	MP1A	Z	0	1.5
45	MP1A	Mx	-.0041	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	13.419	3
2	MP3A	Z	7.748	3
3	MP3A	Mx	-.005	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP3A	X	13.419	5
5	MP3A	Z	7.748	5
6	MP3A	Mx	-.005	5
7	MP4A	X	22.137	1
8	MP4A	Z	12.781	1
9	MP4A	Mx	-.0137	1
10	MP4A	X	22.137	6
11	MP4A	Z	12.781	6
12	MP4A	Mx	-.0137	6
13	MP2A	X	28.56	1.5
14	MP2A	Z	16.489	1.5
15	MP2A	Mx	-.0044	1.5
16	MP2A	X	28.56	6.5
17	MP2A	Z	16.489	6.5
18	MP2A	Mx	-.0044	6.5
19	MP2A	X	28.56	1.5
20	MP2A	Z	16.489	1.5
21	MP2A	Mx	-.038	1.5
22	MP2A	X	28.56	6.5
23	MP2A	Z	16.489	6.5
24	MP2A	Mx	-.038	6.5
25	MP4A	X	8.502	16
26	MP4A	Z	4.909	16
27	MP4A	Mx	.005	16
28	M26	X	2.939	1.5
29	M26	Z	1.697	1.5
30	M26	Mx	0	1.5
31	M25	X	10.964	1.5
32	M25	Z	6.33	1.5
33	M25	Mx	0	1.5
34	M29	X	9.464	1.5
35	M29	Z	5.464	1.5
36	M29	Mx	0	1.5
37	MP2A	X	4.466	9
38	MP2A	Z	2.579	9
39	MP2A	Mx	-.0011	9
40	MP2A	X	4.466	9
41	MP2A	Z	2.579	9
42	MP2A	Mx	.0011	9
43	MP1A	X	10.195	1.5
44	MP1A	Z	5.886	1.5
45	MP1A	Mx	-.0038	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	9.95	3
2	MP3A	Z	17.234	3
3	MP3A	Mx	-.0017	3
4	MP3A	X	9.95	5
5	MP3A	Z	17.234	5
6	MP3A	Mx	-.0017	5
7	MP4A	X	15.14	1
8	MP4A	Z	26.223	1
9	MP4A	Mx	-.0044	1
10	MP4A	X	15.14	6
11	MP4A	Z	26.223	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
12	MP4A	Mx	-.0044	6
13	MP2A	X	18.771	1.5
14	MP2A	Z	32.513	1.5
15	MP2A	Mx	.0181	1.5
16	MP2A	X	18.771	6.5
17	MP2A	Z	32.513	6.5
18	MP2A	Mx	.0181	6.5
19	MP2A	X	18.771	1.5
20	MP2A	Z	32.513	1.5
21	MP2A	Mx	-.0312	1.5
22	MP2A	X	18.771	6.5
23	MP2A	Z	32.513	6.5
24	MP2A	Mx	-.0312	6.5
25	MP4A	X	5.382	16
26	MP4A	Z	9.321	16
27	MP4A	Mx	.0031	16
28	M26	X	1.942	1.5
29	M26	Z	3.364	1.5
30	M26	Mx	0	1.5
31	M25	X	7.543	1.5
32	M25	Z	13.066	1.5
33	M25	Mx	0	1.5
34	M29	X	7.138	1.5
35	M29	Z	12.363	1.5
36	M29	Mx	0	1.5
37	MP2A	X	4.048	9
38	MP2A	Z	7.012	9
39	MP2A	Mx	-.001	9
40	MP2A	X	4.048	9
41	MP2A	Z	7.012	9
42	MP2A	Mx	.001	9
43	MP1A	X	7.138	1.5
44	MP1A	Z	12.363	1.5
45	MP1A	Mx	-.0012	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft,%]
1	MP3A	X	0	3
2	MP3A	Z	18.902	3
3	MP3A	Mx	.0032	3
4	MP3A	X	0	5
5	MP3A	Z	18.902	5
6	MP3A	Mx	.0032	5
7	MP4A	X	0	1
8	MP4A	Z	29.211	1
9	MP4A	Mx	.0083	1
10	MP4A	X	0	6
11	MP4A	Z	29.211	6
12	MP4A	Mx	.0083	6
13	MP2A	X	0	1.5
14	MP2A	Z	36.508	1.5
15	MP2A	Mx	.0354	1.5
16	MP2A	X	0	6.5
17	MP2A	Z	36.508	6.5
18	MP2A	Mx	.0354	6.5
19	MP2A	X	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	36.508	1.5
21	MP2A	Mx	-0.104	1.5
22	MP2A	X	0	6.5
23	MP2A	Z	36.508	6.5
24	MP2A	Mx	-0.104	6.5
25	MP4A	X	0	16
26	MP4A	Z	11.236	16
27	MP4A	Mx	0	16
28	M26	X	0	1.5
29	M26	Z	4.283	1.5
30	M26	Mx	0	1.5
31	M25	X	0	1.5
32	M25	Z	17.065	1.5
33	M25	Mx	0	1.5
34	M29	X	0	1.5
35	M29	Z	17.006	1.5
36	M29	Mx	0	1.5
37	MP2A	X	0	9
38	MP2A	Z	9.566	9
39	MP2A	Mx	0	9
40	MP2A	X	0	9
41	MP2A	Z	9.566	9
42	MP2A	Mx	0	9
43	MP1A	X	0	1.5
44	MP1A	Z	13.708	1.5
45	MP1A	Mx	.0023	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-6.749	3
2	MP3A	Z	11.69	3
3	MP3A	Mx	.0052	3
4	MP3A	X	-6.749	5
5	MP3A	Z	11.69	5
6	MP3A	Mx	.0052	5
7	MP4A	X	-11.711	1
8	MP4A	Z	20.285	1
9	MP4A	Mx	.015	1
10	MP4A	X	-11.711	6
11	MP4A	Z	20.285	6
12	MP4A	Mx	.015	6
13	MP2A	X	-15.454	1.5
14	MP2A	Z	26.768	1.5
15	MP2A	Mx	.0369	1.5
16	MP2A	X	-15.454	6.5
17	MP2A	Z	26.768	6.5
18	MP2A	Mx	.0369	6.5
19	MP2A	X	-15.454	1.5
20	MP2A	Z	26.768	1.5
21	MP2A	Mx	.0104	1.5
22	MP2A	X	-15.454	6.5
23	MP2A	Z	26.768	6.5
24	MP2A	Mx	.0104	6.5
25	MP4A	X	-5.382	16
26	MP4A	Z	9.321	16
27	MP4A	Mx	-.0031	16



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
28	M26	X	-2.096	1.5
29	M26	Z	3.631	1.5
30	M26	Mx	0	1.5
31	M25	X	-8.308	1.5
32	M25	Z	14.39	1.5
33	M25	Mx	0	1.5
34	M29	X	-8.193	1.5
35	M29	Z	14.191	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-4.048	9
38	MP2A	Z	7.012	9
39	MP2A	Mx	.001	9
40	MP2A	X	-4.048	9
41	MP2A	Z	7.012	9
42	MP2A	Mx	-.001	9
43	MP1A	X	-5.319	1.5
44	MP1A	Z	9.212	1.5
45	MP1A	Mx	.0041	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-7.874	3
2	MP3A	Z	4.546	3
3	MP3A	Mx	.0045	3
4	MP3A	X	-7.874	5
5	MP3A	Z	4.546	5
6	MP3A	Mx	.0045	5
7	MP4A	X	-16.198	1
8	MP4A	Z	9.352	1
9	MP4A	Mx	.0154	1
10	MP4A	X	-16.198	6
11	MP4A	Z	9.352	6
12	MP4A	Mx	.0154	6
13	MP2A	X	-22.815	1.5
14	MP2A	Z	13.172	1.5
15	MP2A	Mx	.029	1.5
16	MP2A	X	-22.815	6.5
17	MP2A	Z	13.172	6.5
18	MP2A	Mx	.029	6.5
19	MP2A	X	-22.815	1.5
20	MP2A	Z	13.172	1.5
21	MP2A	Mx	.0229	1.5
22	MP2A	X	-22.815	6.5
23	MP2A	Z	13.172	6.5
24	MP2A	Mx	.0229	6.5
25	MP4A	X	-8.502	16
26	MP4A	Z	4.909	16
27	MP4A	Mx	-.005	16
28	M26	X	-3.207	1.5
29	M26	Z	1.851	1.5
30	M26	Mx	0	1.5
31	M25	X	-12.289	1.5
32	M25	Z	7.095	1.5
33	M25	Mx	0	1.5
34	M29	X	-11.292	1.5
35	M29	Z	6.519	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	M29	Mx	0	1.5
37	MP2A	X	-4.466	9
38	MP2A	Z	2.579	9
39	MP2A	Mx	.0011	9
40	MP2A	X	-4.466	9
41	MP2A	Z	2.579	9
42	MP2A	Mx	-.0011	9
43	MP1A	X	-7.045	1.5
44	MP1A	Z	4.067	1.5
45	MP1A	Mx	.004	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-10.091	3
2	MP3A	Z	0	3
3	MP3A	Mx	.0047	3
4	MP3A	X	-10.091	5
5	MP3A	Z	0	5
6	MP3A	Mx	.0047	5
7	MP4A	X	-19.774	1
8	MP4A	Z	0	1
9	MP4A	Mx	.0155	1
10	MP4A	X	-19.774	6
11	MP4A	Z	0	6
12	MP4A	Mx	.0155	6
13	MP2A	X	-27.379	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	.0195	1.5
16	MP2A	X	-27.379	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.0195	6.5
19	MP2A	X	-27.379	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	.032	1.5
22	MP2A	X	-27.379	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	.032	6.5
25	MP4A	X	-9.345	16
26	MP4A	Z	0	16
27	MP4A	Mx	-.0055	16
28	M26	X	-3.303	1.5
29	M26	Z	0	1.5
30	M26	Mx	0	1.5
31	M25	X	-12.212	1.5
32	M25	Z	0	1.5
33	M25	Mx	0	1.5
34	M29	X	-10.309	1.5
35	M29	Z	0	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-3.687	9
38	MP2A	Z	0	9
39	MP2A	Mx	.000922	9
40	MP2A	X	-3.687	9
41	MP2A	Z	0	9
42	MP2A	Mx	-.000922	9
43	MP1A	X	-8.702	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
44	MP1A	Z	0	1.5
45	MP1A	Mx	.0041	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-13.419	3
2	MP3A	Z	-7.748	3
3	MP3A	Mx	.005	3
4	MP3A	X	-13.419	5
5	MP3A	Z	-7.748	5
6	MP3A	Mx	.005	5
7	MP4A	X	-22.137	1
8	MP4A	Z	-12.781	1
9	MP4A	Mx	.0137	1
10	MP4A	X	-22.137	6
11	MP4A	Z	-12.781	6
12	MP4A	Mx	.0137	6
13	MP2A	X	-28.56	1.5
14	MP2A	Z	-16.489	1.5
15	MP2A	Mx	.0044	1.5
16	MP2A	X	-28.56	6.5
17	MP2A	Z	-16.489	6.5
18	MP2A	Mx	.0044	6.5
19	MP2A	X	-28.56	1.5
20	MP2A	Z	-16.489	1.5
21	MP2A	Mx	.038	1.5
22	MP2A	X	-28.56	6.5
23	MP2A	Z	-16.489	6.5
24	MP2A	Mx	.038	6.5
25	MP4A	X	-8.502	16
26	MP4A	Z	-4.909	16
27	MP4A	Mx	-.005	16
28	M26	X	-2.939	1.5
29	M26	Z	-1.697	1.5
30	M26	Mx	0	1.5
31	M25	X	-10.964	1.5
32	M25	Z	-6.33	1.5
33	M25	Mx	0	1.5
34	M29	X	-9.464	1.5
35	M29	Z	-5.464	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-4.466	9
38	MP2A	Z	-2.579	9
39	MP2A	Mx	.0011	9
40	MP2A	X	-4.466	9
41	MP2A	Z	-2.579	9
42	MP2A	Mx	-.0011	9
43	MP1A	X	-10.195	1.5
44	MP1A	Z	-5.886	1.5
45	MP1A	Mx	.0038	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-9.95	3
2	MP3A	Z	-17.234	3
3	MP3A	Mx	.0017	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
4	MP3A	X	-9.95	5
5	MP3A	Z	-17.234	5
6	MP3A	Mx	.0017	5
7	MP4A	X	-15.14	1
8	MP4A	Z	-26.223	1
9	MP4A	Mx	.0044	1
10	MP4A	X	-15.14	6
11	MP4A	Z	-26.223	6
12	MP4A	Mx	.0044	6
13	MP2A	X	-18.771	1.5
14	MP2A	Z	-32.513	1.5
15	MP2A	Mx	-.0181	1.5
16	MP2A	X	-18.771	6.5
17	MP2A	Z	-32.513	6.5
18	MP2A	Mx	-.0181	6.5
19	MP2A	X	-18.771	1.5
20	MP2A	Z	-32.513	1.5
21	MP2A	Mx	.0312	1.5
22	MP2A	X	-18.771	6.5
23	MP2A	Z	-32.513	6.5
24	MP2A	Mx	.0312	6.5
25	MP4A	X	-5.382	16
26	MP4A	Z	-9.321	16
27	MP4A	Mx	-.0031	16
28	M26	X	-1.942	1.5
29	M26	Z	-3.364	1.5
30	M26	Mx	0	1.5
31	M25	X	-7.543	1.5
32	M25	Z	-13.066	1.5
33	M25	Mx	0	1.5
34	M29	X	-7.138	1.5
35	M29	Z	-12.363	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-4.048	9
38	MP2A	Z	-7.012	9
39	MP2A	Mx	.001	9
40	MP2A	X	-4.048	9
41	MP2A	Z	-7.012	9
42	MP2A	Mx	-.001	9
43	MP1A	X	-7.138	1.5
44	MP1A	Z	-12.363	1.5
45	MP1A	Mx	.0012	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	-4.874	3
3	MP3A	Mx	-.000834	3
4	MP3A	X	0	5
5	MP3A	Z	-4.874	5
6	MP3A	Mx	-.000834	5
7	MP4A	X	0	1
8	MP4A	Z	-9.268	1
9	MP4A	Mx	-.0026	1
10	MP4A	X	0	6
11	MP4A	Z	-9.268	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP4A	Mx	-.0026	6
13	MP2A	X	0	1.5
14	MP2A	Z	-11.775	1.5
15	MP2A	Mx	-0.114	1.5
16	MP2A	X	0	6.5
17	MP2A	Z	-11.775	6.5
18	MP2A	Mx	-0.114	6.5
19	MP2A	X	0	1.5
20	MP2A	Z	-11.775	1.5
21	MP2A	Mx	.0033	1.5
22	MP2A	X	0	6.5
23	MP2A	Z	-11.775	6.5
24	MP2A	Mx	.0033	6.5
25	MP4A	X	0	16
26	MP4A	Z	-3.097	16
27	MP4A	Mx	0	16
28	M26	X	0	1.5
29	M26	Z	-.987	1.5
30	M26	Mx	0	1.5
31	M25	X	0	1.5
32	M25	Z	-4.133	1.5
33	M25	Mx	0	1.5
34	M29	X	0	1.5
35	M29	Z	-4.118	1.5
36	M29	Mx	0	1.5
37	MP2A	X	0	9
38	MP2A	Z	-2.585	9
39	MP2A	Mx	0	9
40	MP2A	X	0	9
41	MP2A	Z	-2.585	9
42	MP2A	Mx	0	9
43	MP1A	X	0	1.5
44	MP1A	Z	-3.876	1.5
45	MP1A	Mx	-.000663	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.624	3
2	MP3A	Z	-2.813	3
3	MP3A	Mx	-.0012	3
4	MP3A	X	1.624	5
5	MP3A	Z	-2.813	5
6	MP3A	Mx	-.0012	5
7	MP4A	X	3.614	1
8	MP4A	Z	-6.259	1
9	MP4A	Mx	-.0046	1
10	MP4A	X	3.614	6
11	MP4A	Z	-6.259	6
12	MP4A	Mx	-.0046	6
13	MP2A	X	4.898	1.5
14	MP2A	Z	-8.484	1.5
15	MP2A	Mx	-.0117	1.5
16	MP2A	X	4.898	6.5
17	MP2A	Z	-8.484	6.5
18	MP2A	Mx	-.0117	6.5
19	MP2A	X	4.898	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	-8.484	1.5
21	MP2A	Mx	-.0033	1.5
22	MP2A	X	4.898	6.5
23	MP2A	Z	-8.484	6.5
24	MP2A	Mx	-.0033	6.5
25	MP4A	X	1.474	16
26	MP4A	Z	-2.554	16
27	MP4A	Mx	.00086	16
28	M26	X	.48	1.5
29	M26	Z	-.832	1.5
30	M26	Mx	0	1.5
31	M25	X	2.007	1.5
32	M25	Z	-3.476	1.5
33	M25	Mx	0	1.5
34	M29	X	1.977	1.5
35	M29	Z	-3.424	1.5
36	M29	Mx	0	1.5
37	MP2A	X	1.066	9
38	MP2A	Z	-1.847	9
39	MP2A	Mx	-.000266	9
40	MP2A	X	1.066	9
41	MP2A	Z	-1.847	9
42	MP2A	Mx	.000266	9
43	MP1A	X	1.448	1.5
44	MP1A	Z	-2.507	1.5
45	MP1A	Mx	-.0011	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	1.665	3
2	MP3A	Z	-.961	3
3	MP3A	Mx	-.000947	3
4	MP3A	X	1.665	5
5	MP3A	Z	-.961	5
6	MP3A	Mx	-.000947	5
7	MP4A	X	4.819	1
8	MP4A	Z	-2.782	1
9	MP4A	Mx	-.0046	1
10	MP4A	X	4.819	6
11	MP4A	Z	-2.782	6
12	MP4A	Mx	-.0046	6
13	MP2A	X	7.088	1.5
14	MP2A	Z	-4.092	1.5
15	MP2A	Mx	-.009	1.5
16	MP2A	X	7.088	6.5
17	MP2A	Z	-4.092	6.5
18	MP2A	Mx	-.009	6.5
19	MP2A	X	7.088	1.5
20	MP2A	Z	-4.092	1.5
21	MP2A	Mx	-.0071	1.5
22	MP2A	X	7.088	6.5
23	MP2A	Z	-4.092	6.5
24	MP2A	Mx	-.0071	6.5
25	MP4A	X	2.296	16
26	MP4A	Z	-1.326	16
27	MP4A	Mx	.0013	16



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
28	M26	X	.707	1.5
29	M26	Z	-.408	1.5
30	M26	Mx	0	1.5
31	M25	X	2.917	1.5
32	M25	Z	-1.684	1.5
33	M25	Mx	0	1.5
34	M29	X	2.657	1.5
35	M29	Z	-1.534	1.5
36	M29	Mx	0	1.5
37	MP2A	X	1.062	9
38	MP2A	Z	-.613	9
39	MP2A	Mx	-.000266	9
40	MP2A	X	1.062	9
41	MP2A	Z	-.613	9
42	MP2A	Mx	.000266	9
43	MP1A	X	1.815	1.5
44	MP1A	Z	-1.048	1.5
45	MP1A	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	2.223	3
2	MP3A	Z	0	3
3	MP3A	Mx	-.001	3
4	MP3A	X	2.223	5
5	MP3A	Z	0	5
6	MP3A	Mx	-.001	5
7	MP4A	X	5.942	1
8	MP4A	Z	0	1
9	MP4A	Mx	-.0047	1
10	MP4A	X	5.942	6
11	MP4A	Z	0	6
12	MP4A	Mx	-.0047	6
13	MP2A	X	8.55	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	-.0061	1.5
16	MP2A	X	8.55	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	-.0061	6.5
19	MP2A	X	8.55	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	-.01	1.5
22	MP2A	X	8.55	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	-.01	6.5
25	MP4A	X	2.503	16
26	MP4A	Z	0	16
27	MP4A	Mx	.0015	16
28	M26	X	.699	1.5
29	M26	Z	0	1.5
30	M26	Mx	0	1.5
31	M25	X	2.842	1.5
32	M25	Z	0	1.5
33	M25	Mx	0	1.5
34	M29	X	2.346	1.5
35	M29	Z	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	M29	Mx	0	1.5
37	MP2A	X	.773	9
38	MP2A	Z	0	9
39	MP2A	Mx	-.000193	9
40	MP2A	X	.773	9
41	MP2A	Z	0	9
42	MP2A	Mx	.000193	9
43	MP1A	X	2.277	1.5
44	MP1A	Z	0	1.5
45	MP1A	Mx	-.0011	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	3.333	3
2	MP3A	Z	1.924	3
3	MP3A	Mx	-.0012	3
4	MP3A	X	3.333	5
5	MP3A	Z	1.924	5
6	MP3A	Mx	-.0012	5
7	MP4A	X	6.913	1
8	MP4A	Z	3.991	1
9	MP4A	Mx	-.0043	1
10	MP4A	X	6.913	6
11	MP4A	Z	3.991	6
12	MP4A	Mx	-.0043	6
13	MP2A	X	9.117	1.5
14	MP2A	Z	5.264	1.5
15	MP2A	Mx	-.0014	1.5
16	MP2A	X	9.117	6.5
17	MP2A	Z	5.264	6.5
18	MP2A	Mx	-.0014	6.5
19	MP2A	X	9.117	1.5
20	MP2A	Z	5.264	1.5
21	MP2A	Mx	-.0121	1.5
22	MP2A	X	9.117	6.5
23	MP2A	Z	5.264	6.5
24	MP2A	Mx	-.0121	6.5
25	MP4A	X	2.296	16
26	MP4A	Z	1.326	16
27	MP4A	Mx	.0013	16
28	M26	X	.628	1.5
29	M26	Z	.363	1.5
30	M26	Mx	0	1.5
31	M25	X	2.565	1.5
32	M25	Z	1.481	1.5
33	M25	Mx	0	1.5
34	M29	X	2.173	1.5
35	M29	Z	1.255	1.5
36	M29	Mx	0	1.5
37	MP2A	X	1.062	9
38	MP2A	Z	.613	9
39	MP2A	Mx	-.000266	9
40	MP2A	X	1.062	9
41	MP2A	Z	.613	9
42	MP2A	Mx	.000266	9
43	MP1A	X	2.821	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
44	MP1A	Z	1.629	1.5
45	MP1A	Mx	-.001	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	2.587	3
2	MP3A	Z	4.481	3
3	MP3A	Mx	-.000449	3
4	MP3A	X	2.587	5
5	MP3A	Z	4.481	5
6	MP3A	Mx	-.000449	5
7	MP4A	X	4.823	1
8	MP4A	Z	8.353	1
9	MP4A	Mx	-.0014	1
10	MP4A	X	4.823	6
11	MP4A	Z	8.353	6
12	MP4A	Mx	-.0014	6
13	MP2A	X	6.07	1.5
14	MP2A	Z	10.514	1.5
15	MP2A	Mx	.0059	1.5
16	MP2A	X	6.07	6.5
17	MP2A	Z	10.514	6.5
18	MP2A	Mx	.0059	6.5
19	MP2A	X	6.07	1.5
20	MP2A	Z	10.514	1.5
21	MP2A	Mx	-.0101	1.5
22	MP2A	X	6.07	6.5
23	MP2A	Z	10.514	6.5
24	MP2A	Mx	-.0101	6.5
25	MP4A	X	1.474	16
26	MP4A	Z	2.554	16
27	MP4A	Mx	.00086	16
28	M26	X	.435	1.5
29	M26	Z	.753	1.5
30	M26	Mx	0	1.5
31	M25	X	1.803	1.5
32	M25	Z	3.124	1.5
33	M25	Mx	0	1.5
34	M29	X	1.698	1.5
35	M29	Z	2.941	1.5
36	M29	Mx	0	1.5
37	MP2A	X	1.066	9
38	MP2A	Z	1.847	9
39	MP2A	Mx	-.000266	9
40	MP2A	X	1.066	9
41	MP2A	Z	1.847	9
42	MP2A	Mx	.000266	9
43	MP1A	X	2.029	1.5
44	MP1A	Z	3.514	1.5
45	MP1A	Mx	-.000352	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	0	3
2	MP3A	Z	4.874	3
3	MP3A	Mx	.000834	3



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
4	MP3A	X	0	5
5	MP3A	Z	4.874	5
6	MP3A	Mx	.000834	5
7	MP4A	X	0	1
8	MP4A	Z	9.268	1
9	MP4A	Mx	.0026	1
10	MP4A	X	0	6
11	MP4A	Z	9.268	6
12	MP4A	Mx	.0026	6
13	MP2A	X	0	1.5
14	MP2A	Z	11.775	1.5
15	MP2A	Mx	.0114	1.5
16	MP2A	X	0	6.5
17	MP2A	Z	11.775	6.5
18	MP2A	Mx	.0114	6.5
19	MP2A	X	0	1.5
20	MP2A	Z	11.775	1.5
21	MP2A	Mx	-.0033	1.5
22	MP2A	X	0	6.5
23	MP2A	Z	11.775	6.5
24	MP2A	Mx	-.0033	6.5
25	MP4A	X	0	16
26	MP4A	Z	3.097	16
27	MP4A	Mx	0	16
28	M26	X	0	1.5
29	M26	Z	.987	1.5
30	M26	Mx	0	1.5
31	M25	X	0	1.5
32	M25	Z	4.133	1.5
33	M25	Mx	0	1.5
34	M29	X	0	1.5
35	M29	Z	4.118	1.5
36	M29	Mx	0	1.5
37	MP2A	X	0	9
38	MP2A	Z	2.585	9
39	MP2A	Mx	0	9
40	MP2A	X	0	9
41	MP2A	Z	2.585	9
42	MP2A	Mx	0	9
43	MP1A	X	0	1.5
44	MP1A	Z	3.876	1.5
45	MP1A	Mx	.000663	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft. %]
1	MP3A	X	-1.624	3
2	MP3A	Z	2.813	3
3	MP3A	Mx	.0012	3
4	MP3A	X	-1.624	5
5	MP3A	Z	2.813	5
6	MP3A	Mx	.0012	5
7	MP4A	X	-3.614	1
8	MP4A	Z	6.259	1
9	MP4A	Mx	.0046	1
10	MP4A	X	-3.614	6
11	MP4A	Z	6.259	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
12	MP4A	Mx	.0046	6
13	MP2A	X	-4.898	1.5
14	MP2A	Z	8.484	1.5
15	MP2A	Mx	.0117	1.5
16	MP2A	X	-4.898	6.5
17	MP2A	Z	8.484	6.5
18	MP2A	Mx	.0117	6.5
19	MP2A	X	-4.898	1.5
20	MP2A	Z	8.484	1.5
21	MP2A	Mx	.0033	1.5
22	MP2A	X	-4.898	6.5
23	MP2A	Z	8.484	6.5
24	MP2A	Mx	.0033	6.5
25	MP4A	X	-1.474	16
26	MP4A	Z	2.554	16
27	MP4A	Mx	-0.0086	16
28	M26	X	-.48	1.5
29	M26	Z	.832	1.5
30	M26	Mx	0	1.5
31	M25	X	-2.007	1.5
32	M25	Z	3.476	1.5
33	M25	Mx	0	1.5
34	M29	X	-1.977	1.5
35	M29	Z	3.424	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-1.066	9
38	MP2A	Z	1.847	9
39	MP2A	Mx	.000266	9
40	MP2A	X	-1.066	9
41	MP2A	Z	1.847	9
42	MP2A	Mx	-.000266	9
43	MP1A	X	-1.448	1.5
44	MP1A	Z	2.507	1.5
45	MP1A	Mx	.0011	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-1.665	3
2	MP3A	Z	.961	3
3	MP3A	Mx	.000947	3
4	MP3A	X	-1.665	5
5	MP3A	Z	.961	5
6	MP3A	Mx	.000947	5
7	MP4A	X	-4.819	1
8	MP4A	Z	2.782	1
9	MP4A	Mx	.0046	1
10	MP4A	X	-4.819	6
11	MP4A	Z	2.782	6
12	MP4A	Mx	.0046	6
13	MP2A	X	-7.088	1.5
14	MP2A	Z	4.092	1.5
15	MP2A	Mx	.009	1.5
16	MP2A	X	-7.088	6.5
17	MP2A	Z	4.092	6.5
18	MP2A	Mx	.009	6.5
19	MP2A	X	-7.088	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
20	MP2A	Z	4.092	1.5
21	MP2A	Mx	.0071	1.5
22	MP2A	X	-7.088	6.5
23	MP2A	Z	4.092	6.5
24	MP2A	Mx	.0071	6.5
25	MP4A	X	-2.296	16
26	MP4A	Z	1.326	16
27	MP4A	Mx	-.0013	16
28	M26	X	-.707	1.5
29	M26	Z	.408	1.5
30	M26	Mx	0	1.5
31	M25	X	-2.917	1.5
32	M25	Z	1.684	1.5
33	M25	Mx	0	1.5
34	M29	X	-2.657	1.5
35	M29	Z	1.534	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-1.062	9
38	MP2A	Z	.613	9
39	MP2A	Mx	.000266	9
40	MP2A	X	-1.062	9
41	MP2A	Z	.613	9
42	MP2A	Mx	-.000266	9
43	MP1A	X	-1.815	1.5
44	MP1A	Z	1.048	1.5
45	MP1A	Mx	.001	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-2.223	3
2	MP3A	Z	0	3
3	MP3A	Mx	.001	3
4	MP3A	X	-2.223	5
5	MP3A	Z	0	5
6	MP3A	Mx	.001	5
7	MP4A	X	-5.942	1
8	MP4A	Z	0	1
9	MP4A	Mx	.0047	1
10	MP4A	X	-5.942	6
11	MP4A	Z	0	6
12	MP4A	Mx	.0047	6
13	MP2A	X	-8.55	1.5
14	MP2A	Z	0	1.5
15	MP2A	Mx	.0061	1.5
16	MP2A	X	-8.55	6.5
17	MP2A	Z	0	6.5
18	MP2A	Mx	.0061	6.5
19	MP2A	X	-8.55	1.5
20	MP2A	Z	0	1.5
21	MP2A	Mx	.01	1.5
22	MP2A	X	-8.55	6.5
23	MP2A	Z	0	6.5
24	MP2A	Mx	.01	6.5
25	MP4A	X	-2.503	16
26	MP4A	Z	0	16
27	MP4A	Mx	-.0015	16



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
28	M26	X	-.699	1.5
29	M26	Z	0	1.5
30	M26	Mx	0	1.5
31	M25	X	-2.842	1.5
32	M25	Z	0	1.5
33	M25	Mx	0	1.5
34	M29	X	-2.346	1.5
35	M29	Z	0	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-.773	9
38	MP2A	Z	0	9
39	MP2A	Mx	.000193	9
40	MP2A	X	-.773	9
41	MP2A	Z	0	9
42	MP2A	Mx	-.000193	9
43	MP1A	X	-2.277	1.5
44	MP1A	Z	0	1.5
45	MP1A	Mx	.0011	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-3.333	3
2	MP3A	Z	-1.924	3
3	MP3A	Mx	.0012	3
4	MP3A	X	-3.333	5
5	MP3A	Z	-1.924	5
6	MP3A	Mx	.0012	5
7	MP4A	X	-6.913	1
8	MP4A	Z	-3.991	1
9	MP4A	Mx	.0043	1
10	MP4A	X	-6.913	6
11	MP4A	Z	-3.991	6
12	MP4A	Mx	.0043	6
13	MP2A	X	-9.117	1.5
14	MP2A	Z	-5.264	1.5
15	MP2A	Mx	.0014	1.5
16	MP2A	X	-9.117	6.5
17	MP2A	Z	-5.264	6.5
18	MP2A	Mx	.0014	6.5
19	MP2A	X	-9.117	1.5
20	MP2A	Z	-5.264	1.5
21	MP2A	Mx	.0121	1.5
22	MP2A	X	-9.117	6.5
23	MP2A	Z	-5.264	6.5
24	MP2A	Mx	.0121	6.5
25	MP4A	X	-2.296	16
26	MP4A	Z	-1.326	16
27	MP4A	Mx	-.0013	16
28	M26	X	-.628	1.5
29	M26	Z	-.363	1.5
30	M26	Mx	0	1.5
31	M25	X	-2.565	1.5
32	M25	Z	-1.481	1.5
33	M25	Mx	0	1.5
34	M29	X	-2.173	1.5
35	M29	Z	-1.255	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
36	M29	Mx	0	1.5
37	MP2A	X	-1.062	9
38	MP2A	Z	-.613	9
39	MP2A	Mx	.000266	9
40	MP2A	X	-1.062	9
41	MP2A	Z	-.613	9
42	MP2A	Mx	-.000266	9
43	MP1A	X	-2.821	1.5
44	MP1A	Z	-1.629	1.5
45	MP1A	Mx	.001	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	-2.587	3
2	MP3A	Z	-4.481	3
3	MP3A	Mx	.000449	3
4	MP3A	X	-2.587	5
5	MP3A	Z	-4.481	5
6	MP3A	Mx	.000449	5
7	MP4A	X	-4.823	1
8	MP4A	Z	-8.353	1
9	MP4A	Mx	.0014	1
10	MP4A	X	-4.823	6
11	MP4A	Z	-8.353	6
12	MP4A	Mx	.0014	6
13	MP2A	X	-6.07	1.5
14	MP2A	Z	-10.514	1.5
15	MP2A	Mx	-.0059	1.5
16	MP2A	X	-6.07	6.5
17	MP2A	Z	-10.514	6.5
18	MP2A	Mx	-.0059	6.5
19	MP2A	X	-6.07	1.5
20	MP2A	Z	-10.514	1.5
21	MP2A	Mx	.0101	1.5
22	MP2A	X	-6.07	6.5
23	MP2A	Z	-10.514	6.5
24	MP2A	Mx	.0101	6.5
25	MP4A	X	-1.474	16
26	MP4A	Z	-2.554	16
27	MP4A	Mx	-.00086	16
28	M26	X	-.435	1.5
29	M26	Z	-.753	1.5
30	M26	Mx	0	1.5
31	M25	X	-1.803	1.5
32	M25	Z	-3.124	1.5
33	M25	Mx	0	1.5
34	M29	X	-1.698	1.5
35	M29	Z	-2.941	1.5
36	M29	Mx	0	1.5
37	MP2A	X	-1.066	9
38	MP2A	Z	-1.847	9
39	MP2A	Mx	.000266	9
40	MP2A	X	-1.066	9
41	MP2A	Z	-1.847	9
42	MP2A	Mx	-.000266	9
43	MP1A	X	-2.029	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
44	MP1A	Z	-3.514	1.5
45	MP1A	Mx	.000352	1.5

Member Point Loads (BLC 77 : Lm1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M24	Y	-500	0

Member Point Loads (BLC 78 : Lm2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M24	Y	-500	%50

Member Point Loads (BLC 79 : Lv1)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M24	Y	-250	0

Member Point Loads (BLC 80 : Lv2)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	M24	Y	-250	%50

Member Point Loads (BLC 81 : Antenna Ev)

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Y	-2.0904	3
2	MP3A	My	-.000982	3
3	MP3A	Mz	.000357	3
4	MP3A	Y	-2.0904	5
5	MP3A	My	-.000982	5
6	MP3A	Mz	.000357	5
7	MP4A	Y	-.4608	1
8	MP4A	My	-.000361	1
9	MP4A	Mz	.000131	1
10	MP4A	Y	-.4608	6
11	MP4A	My	-.000361	6
12	MP4A	Mz	.000131	6
13	MP2A	Y	-1.5192	1.5
14	MP2A	My	-.0011	1.5
15	MP2A	Mz	.0015	1.5
16	MP2A	Y	-1.5192	6.5
17	MP2A	My	-.0011	6.5
18	MP2A	Mz	.0015	6.5
19	MP2A	Y	-1.5192	1.5
20	MP2A	My	-.0018	1.5
21	MP2A	Mz	-.000432	1.5
22	MP2A	Y	-1.5192	6.5
23	MP2A	My	-.0018	6.5
24	MP2A	Mz	-.000432	6.5
25	MP4A	Y	-.672	16
26	MP4A	My	.000392	16
27	MP4A	Mz	0	16
28	M26	Y	-.4992	1.5
29	M26	My	0	1.5
30	M26	Mz	0	1.5
31	M25	Y	-4.0512	1.5
32	M25	My	0	1.5
33	M25	Mz	0	1.5



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
34	M29	Y	-3.3744	1.5
35	M29	My	0	1.5
36	M29	Mz	0	1.5
37	MP2A	Y	-8448	9
38	MP2A	My	-0.00211	9
39	MP2A	Mz	0	9
40	MP2A	Y	-8448	9
41	MP2A	My	.000211	9
42	MP2A	Mz	0	9
43	MP1A	Y	-1.1136	1.5
44	MP1A	My	-0.000523	1.5
45	MP1A	Mz	.00019	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	Z	-6.5325	3
2	MP3A	Mx	-0.011	3
3	MP3A	Z	-6.5325	5
4	MP3A	Mx	-0.011	5
5	MP4A	Z	-1.44	1
6	MP4A	Mx	-0.00041	1
7	MP4A	Z	-1.44	6
8	MP4A	Mx	-0.00041	6
9	MP2A	Z	-4.7475	1.5
10	MP2A	Mx	-0.0046	1.5
11	MP2A	Z	-4.7475	6.5
12	MP2A	Mx	-0.0046	6.5
13	MP2A	Z	-4.7475	1.5
14	MP2A	Mx	.0014	1.5
15	MP2A	Z	-4.7475	6.5
16	MP2A	Mx	.0014	6.5
17	MP4A	Z	-2.1	16
18	MP4A	Mx	0	16
19	M26	Z	-1.56	1.5
20	M26	Mx	0	1.5
21	M25	Z	-12.66	1.5
22	M25	Mx	0	1.5
23	M29	Z	-10.545	1.5
24	M29	Mx	0	1.5
25	MP2A	Z	-2.64	9
26	MP2A	Mx	0	9
27	MP2A	Z	-2.64	9
28	MP2A	Mx	0	9
29	MP1A	Z	-3.48	1.5
30	MP1A	Mx	-0.000595	1.5

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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
1	MP3A	X	6.5325	3
2	MP3A	Mx	-0.0031	3
3	MP3A	X	6.5325	5
4	MP3A	Mx	-0.0031	5
5	MP4A	X	1.44	1
6	MP4A	Mx	-0.0011	1
7	MP4A	X	1.44	6
8	MP4A	Mx	-0.0011	6



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

	Member Label	Direction	Magnitude[lb.k-ft]	Location[ft.%]
9	MP2A	X	4.7475	1.5
10	MP2A	Mx	-0.0034	1.5
11	MP2A	X	4.7475	6.5
12	MP2A	Mx	-0.0034	6.5
13	MP2A	X	4.7475	1.5
14	MP2A	Mx	-0.0055	1.5
15	MP2A	X	4.7475	6.5
16	MP2A	Mx	-0.0055	6.5
17	MP4A	X	2.1	16
18	MP4A	Mx	.0012	16
19	M26	X	1.56	1.5
20	M26	Mx	0	1.5
21	M25	X	12.66	1.5
22	M25	Mx	0	1.5
23	M29	X	10.545	1.5
24	M29	Mx	0	1.5
25	MP2A	X	2.64	9
26	MP2A	Mx	-0.00066	9
27	MP2A	X	2.64	9
28	MP2A	Mx	.00066	9
29	MP1A	X	3.48	1.5
30	MP1A	Mx	-0.0016	1.5

Member Distributed Loads (BLC 40 : Structure Di)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	Y	-8.7688	-8.7688	0	%100
2	M24	Y	-7.9483	-7.9483	0	%100
3	MP4A	Y	-8.7688	-8.7688	0	%100
4	MP3A	Y	-7.9483	-7.9483	0	%100
5	MP1A	Y	-7.9483	-7.9483	0	%100
6	M19	Y	-11.4879	-11.4879	0	%100
7	M20	Y	-11.4879	-11.4879	0	%100
8	M25	Y	-5.9758	-5.9758	0	%100
9	M26	Y	-5.9758	-5.9758	0	%100
10	M29	Y	-5.9758	-5.9758	0	%100
11	M32	Y	-11.4879	-11.4879	0	%100
12	M51	Y	-11.4879	-11.4879	0	%100
13	M51A	Y	-11.4879	-11.4879	0	%100
14	M53A	Y	-11.4879	-11.4879	0	%100
15	M34A	Y	-9.167	-9.167	0	%100
16	M35	Y	-9.167	-9.167	0	%100
17	MP2A	Y	-8.7688	-8.7688	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	0	0	0	%100
2	M21	Z	-14.9717	-14.9717	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	-14.9717	-14.9717	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-14.9717	-14.9717	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-14.9717	-14.9717	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-14.9717	-14.9717	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
11	M19	X	0	0	0	%100
12	M19	Z	-27.015	-27.015	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	-27.015	-27.015	0	%100
15	M25	X	0	0	0	%100
16	M25	Z	-12.0626	-12.0626	0	%100
17	M26	X	0	0	0	%100
18	M26	Z	-12.0626	-12.0626	0	%100
19	M29	X	0	0	0	%100
20	M29	Z	-12.0626	-12.0626	0	%100
21	M32	X	0	0	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	0	0	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	0	0	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	0	0	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	0	0	0	%100
30	M34A	Z	-22.7939	-22.7939	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	-22.7939	-22.7939	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-14.9717	-14.9717	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M21	X	5.6144	5.6144	0	%100
2	M21	Z	-9.7244	-9.7244	0	%100
3	M24	X	5.6144	5.6144	0	%100
4	M24	Z	-9.7244	-9.7244	0	%100
5	MP4A	X	7.4859	7.4859	0	%100
6	MP4A	Z	-12.9659	-12.9659	0	%100
7	MP3A	X	7.4859	7.4859	0	%100
8	MP3A	Z	-12.9659	-12.9659	0	%100
9	MP1A	X	7.4859	7.4859	0	%100
10	MP1A	Z	-12.9659	-12.9659	0	%100
11	M19	X	10.1306	10.1306	0	%100
12	M19	Z	-17.5468	-17.5468	0	%100
13	M20	X	10.1306	10.1306	0	%100
14	M20	Z	-17.5468	-17.5468	0	%100
15	M25	X	6.0313	6.0313	0	%100
16	M25	Z	-10.4465	-10.4465	0	%100
17	M26	X	6.0313	6.0313	0	%100
18	M26	Z	-10.4465	-10.4465	0	%100
19	M29	X	6.0313	6.0313	0	%100
20	M29	Z	-10.4465	-10.4465	0	%100
21	M32	X	3.3007	3.3007	0	%100
22	M32	Z	-5.717	-5.717	0	%100
23	M51	X	3.3007	3.3007	0	%100
24	M51	Z	-5.717	-5.717	0	%100
25	M51A	X	3.8964	3.8964	0	%100
26	M51A	Z	-6.7488	-6.7488	0	%100
27	M53A	X	3.8964	3.8964	0	%100
28	M53A	Z	-6.7488	-6.7488	0	%100
29	M34A	X	11.397	11.397	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
30	M34A	Z	-19.7401	-19.7401	0	%100
31	M35	X	11.397	11.397	0	%100
32	M35	Z	-19.7401	-19.7401	0	%100
33	MP2A	X	7.4859	7.4859	0	%100
34	MP2A	Z	-12.9659	-12.9659	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
1	M21	X	3.2415	3.2415	0	%100
2	M21	Z	-1.8715	-1.8715	0	%100
3	M24	X	3.2415	3.2415	0	%100
4	M24	Z	-1.8715	-1.8715	0	%100
5	MP4A	X	12.9659	12.9659	0	%100
6	MP4A	Z	-7.4859	-7.4859	0	%100
7	MP3A	X	12.9659	12.9659	0	%100
8	MP3A	Z	-7.4859	-7.4859	0	%100
9	MP1A	X	12.9659	12.9659	0	%100
10	MP1A	Z	-7.4859	-7.4859	0	%100
11	M19	X	5.8489	5.8489	0	%100
12	M19	Z	-3.3769	-3.3769	0	%100
13	M20	X	5.8489	5.8489	0	%100
14	M20	Z	-3.3769	-3.3769	0	%100
15	M25	X	10.4465	10.4465	0	%100
16	M25	Z	-6.0313	-6.0313	0	%100
17	M26	X	10.4465	10.4465	0	%100
18	M26	Z	-6.0313	-6.0313	0	%100
19	M29	X	10.4465	10.4465	0	%100
20	M29	Z	-6.0313	-6.0313	0	%100
21	M32	X	17.1511	17.1511	0	%100
22	M32	Z	-9.9022	-9.9022	0	%100
23	M51	X	17.1511	17.1511	0	%100
24	M51	Z	-9.9022	-9.9022	0	%100
25	M51A	X	20.2463	20.2463	0	%100
26	M51A	Z	-11.6892	-11.6892	0	%100
27	M53A	X	20.2463	20.2463	0	%100
28	M53A	Z	-11.6892	-11.6892	0	%100
29	M34A	X	19.7401	19.7401	0	%100
30	M34A	Z	-11.397	-11.397	0	%100
31	M35	X	19.7401	19.7401	0	%100
32	M35	Z	-11.397	-11.397	0	%100
33	MP2A	X	12.9659	12.9659	0	%100
34	MP2A	Z	-7.4859	-7.4859	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft	End Locationft
1	M21	X	0	0	0	%100
2	M21	Z	0	0	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	0	0	0	%100
5	MP4A	X	14.9717	14.9717	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	14.9717	14.9717	0	%100
8	MP3A	Z	0	0	0	%100
9	MP1A	X	14.9717	14.9717	0	%100
10	MP1A	Z	0	0	0	%100
11	M19	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
12	M19	Z	0	0	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	0	0	0	%100
15	M25	X	12.0626	12.0626	0	%100
16	M25	Z	0	0	0	%100
17	M26	X	12.0626	12.0626	0	%100
18	M26	Z	0	0	0	%100
19	M29	X	12.0626	12.0626	0	%100
20	M29	Z	0	0	0	%100
21	M32	X	26.4058	26.4058	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	26.4058	26.4058	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	31.1712	31.1712	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	31.1712	31.1712	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	22.7939	22.7939	0	%100
30	M34A	Z	0	0	0	%100
31	M35	X	22.7939	22.7939	0	%100
32	M35	Z	0	0	0	%100
33	MP2A	X	14.9717	14.9717	0	%100
34	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	3.2415	3.2415	0	%100
2	M21	Z	1.8715	1.8715	0	%100
3	M24	X	3.2415	3.2415	0	%100
4	M24	Z	1.8715	1.8715	0	%100
5	MP4A	X	12.9659	12.9659	0	%100
6	MP4A	Z	7.4859	7.4859	0	%100
7	MP3A	X	12.9659	12.9659	0	%100
8	MP3A	Z	7.4859	7.4859	0	%100
9	MP1A	X	12.9659	12.9659	0	%100
10	MP1A	Z	7.4859	7.4859	0	%100
11	M19	X	5.8489	5.8489	0	%100
12	M19	Z	3.3769	3.3769	0	%100
13	M20	X	5.8489	5.8489	0	%100
14	M20	Z	3.3769	3.3769	0	%100
15	M25	X	10.4465	10.4465	0	%100
16	M25	Z	6.0313	6.0313	0	%100
17	M26	X	10.4465	10.4465	0	%100
18	M26	Z	6.0313	6.0313	0	%100
19	M29	X	10.4465	10.4465	0	%100
20	M29	Z	6.0313	6.0313	0	%100
21	M32	X	17.1511	17.1511	0	%100
22	M32	Z	9.9022	9.9022	0	%100
23	M51	X	17.1511	17.1511	0	%100
24	M51	Z	9.9022	9.9022	0	%100
25	M51A	X	20.2463	20.2463	0	%100
26	M51A	Z	11.6892	11.6892	0	%100
27	M53A	X	20.2463	20.2463	0	%100
28	M53A	Z	11.6892	11.6892	0	%100
29	M34A	X	19.7401	19.7401	0	%100
30	M34A	Z	11.397	11.397	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
31	M35	X	19.7401	19.7401	0	%100
32	M35	Z	11.397	11.397	0	%100
33	MP2A	X	12.9659	12.9659	0	%100
34	MP2A	Z	7.4859	7.4859	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	5.6144	5.6144	0	%100
2	M21	Z	9.7244	9.7244	0	%100
3	M24	X	5.6144	5.6144	0	%100
4	M24	Z	9.7244	9.7244	0	%100
5	MP4A	X	7.4859	7.4859	0	%100
6	MP4A	Z	12.9659	12.9659	0	%100
7	MP3A	X	7.4859	7.4859	0	%100
8	MP3A	Z	12.9659	12.9659	0	%100
9	MP1A	X	7.4859	7.4859	0	%100
10	MP1A	Z	12.9659	12.9659	0	%100
11	M19	X	10.1306	10.1306	0	%100
12	M19	Z	17.5468	17.5468	0	%100
13	M20	X	10.1306	10.1306	0	%100
14	M20	Z	17.5468	17.5468	0	%100
15	M25	X	6.0313	6.0313	0	%100
16	M25	Z	10.4465	10.4465	0	%100
17	M26	X	6.0313	6.0313	0	%100
18	M26	Z	10.4465	10.4465	0	%100
19	M29	X	6.0313	6.0313	0	%100
20	M29	Z	10.4465	10.4465	0	%100
21	M32	X	3.3007	3.3007	0	%100
22	M32	Z	5.717	5.717	0	%100
23	M51	X	3.3007	3.3007	0	%100
24	M51	Z	5.717	5.717	0	%100
25	M51A	X	3.8964	3.8964	0	%100
26	M51A	Z	6.7488	6.7488	0	%100
27	M53A	X	3.8964	3.8964	0	%100
28	M53A	Z	6.7488	6.7488	0	%100
29	M34A	X	11.397	11.397	0	%100
30	M34A	Z	19.7401	19.7401	0	%100
31	M35	X	11.397	11.397	0	%100
32	M35	Z	19.7401	19.7401	0	%100
33	MP2A	X	7.4859	7.4859	0	%100
34	MP2A	Z	12.9659	12.9659	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	0	0	0	%100
2	M21	Z	14.9717	14.9717	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	14.9717	14.9717	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	14.9717	14.9717	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	14.9717	14.9717	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	14.9717	14.9717	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	27.015	27.015	0	%100



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777139
 Model Name : Antenna Mount Analysis (Alpha/Beta Sector)

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
13	M20	X	0	0	0	%100
14	M20	Z	27.015	27.015	0	%100
15	M25	X	0	0	0	%100
16	M25	Z	12.0626	12.0626	0	%100
17	M26	X	0	0	0	%100
18	M26	Z	12.0626	12.0626	0	%100
19	M29	X	0	0	0	%100
20	M29	Z	12.0626	12.0626	0	%100
21	M32	X	0	0	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	0	0	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	0	0	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	0	0	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	0	0	0	%100
30	M34A	Z	22.7939	22.7939	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	22.7939	22.7939	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	14.9717	14.9717	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	-5.6144	-5.6144	0	%100
2	M21	Z	9.7244	9.7244	0	%100
3	M24	X	-5.6144	-5.6144	0	%100
4	M24	Z	9.7244	9.7244	0	%100
5	MP4A	X	-7.4859	-7.4859	0	%100
6	MP4A	Z	12.9659	12.9659	0	%100
7	MP3A	X	-7.4859	-7.4859	0	%100
8	MP3A	Z	12.9659	12.9659	0	%100
9	MP1A	X	-7.4859	-7.4859	0	%100
10	MP1A	Z	12.9659	12.9659	0	%100
11	M19	X	-10.1306	-10.1306	0	%100
12	M19	Z	17.5468	17.5468	0	%100
13	M20	X	-10.1306	-10.1306	0	%100
14	M20	Z	17.5468	17.5468	0	%100
15	M25	X	-6.0313	-6.0313	0	%100
16	M25	Z	10.4465	10.4465	0	%100
17	M26	X	-6.0313	-6.0313	0	%100
18	M26	Z	10.4465	10.4465	0	%100
19	M29	X	-6.0313	-6.0313	0	%100
20	M29	Z	10.4465	10.4465	0	%100
21	M32	X	-3.3007	-3.3007	0	%100
22	M32	Z	5.717	5.717	0	%100
23	M51	X	-3.3007	-3.3007	0	%100
24	M51	Z	5.717	5.717	0	%100
25	M51A	X	-3.8964	-3.8964	0	%100
26	M51A	Z	6.7488	6.7488	0	%100
27	M53A	X	-3.8964	-3.8964	0	%100
28	M53A	Z	6.7488	6.7488	0	%100
29	M34A	X	-11.397	-11.397	0	%100
30	M34A	Z	19.7401	19.7401	0	%100
31	M35	X	-11.397	-11.397	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
32	M35	Z	19.7401	19.7401	0	%100
33	MP2A	X	-7.4859	-7.4859	0	%100
34	MP2A	Z	12.9659	12.9659	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M21	X	-3.2415	-3.2415	0	%100
2	M21	Z	1.8715	1.8715	0	%100
3	M24	X	-3.2415	-3.2415	0	%100
4	M24	Z	1.8715	1.8715	0	%100
5	MP4A	X	-12.9659	-12.9659	0	%100
6	MP4A	Z	7.4859	7.4859	0	%100
7	MP3A	X	-12.9659	-12.9659	0	%100
8	MP3A	Z	7.4859	7.4859	0	%100
9	MP1A	X	-12.9659	-12.9659	0	%100
10	MP1A	Z	7.4859	7.4859	0	%100
11	M19	X	-5.8489	-5.8489	0	%100
12	M19	Z	3.3769	3.3769	0	%100
13	M20	X	-5.8489	-5.8489	0	%100
14	M20	Z	3.3769	3.3769	0	%100
15	M25	X	-10.4465	-10.4465	0	%100
16	M25	Z	6.0313	6.0313	0	%100
17	M26	X	-10.4465	-10.4465	0	%100
18	M26	Z	6.0313	6.0313	0	%100
19	M29	X	-10.4465	-10.4465	0	%100
20	M29	Z	6.0313	6.0313	0	%100
21	M32	X	-17.1511	-17.1511	0	%100
22	M32	Z	9.9022	9.9022	0	%100
23	M51	X	-17.1511	-17.1511	0	%100
24	M51	Z	9.9022	9.9022	0	%100
25	M51A	X	-20.2463	-20.2463	0	%100
26	M51A	Z	11.6892	11.6892	0	%100
27	M53A	X	-20.2463	-20.2463	0	%100
28	M53A	Z	11.6892	11.6892	0	%100
29	M34A	X	-19.7401	-19.7401	0	%100
30	M34A	Z	11.397	11.397	0	%100
31	M35	X	-19.7401	-19.7401	0	%100
32	M35	Z	11.397	11.397	0	%100
33	MP2A	X	-12.9659	-12.9659	0	%100
34	MP2A	Z	7.4859	7.4859	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M21	X	0	0	0	%100
2	M21	Z	0	0	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	0	0	0	%100
5	MP4A	X	-14.9717	-14.9717	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-14.9717	-14.9717	0	%100
8	MP3A	Z	0	0	0	%100
9	MP1A	X	-14.9717	-14.9717	0	%100
10	MP1A	Z	0	0	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	0	0	0	%100
13	M20	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
14	M20	Z	0	0	0	%100
15	M25	X	-12.0626	-12.0626	0	%100
16	M25	Z	0	0	0	%100
17	M26	X	-12.0626	-12.0626	0	%100
18	M26	Z	0	0	0	%100
19	M29	X	-12.0626	-12.0626	0	%100
20	M29	Z	0	0	0	%100
21	M32	X	-26.4058	-26.4058	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	-26.4058	-26.4058	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	-31.1712	-31.1712	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	-31.1712	-31.1712	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	-22.7939	-22.7939	0	%100
30	M34A	Z	0	0	0	%100
31	M35	X	-22.7939	-22.7939	0	%100
32	M35	Z	0	0	0	%100
33	MP2A	X	-14.9717	-14.9717	0	%100
34	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	-3.2415	-3.2415	0	%100
2	M21	Z	-1.8715	-1.8715	0	%100
3	M24	X	-3.2415	-3.2415	0	%100
4	M24	Z	-1.8715	-1.8715	0	%100
5	MP4A	X	-12.9659	-12.9659	0	%100
6	MP4A	Z	-7.4859	-7.4859	0	%100
7	MP3A	X	-12.9659	-12.9659	0	%100
8	MP3A	Z	-7.4859	-7.4859	0	%100
9	MP1A	X	-12.9659	-12.9659	0	%100
10	MP1A	Z	-7.4859	-7.4859	0	%100
11	M19	X	-5.8489	-5.8489	0	%100
12	M19	Z	-3.3769	-3.3769	0	%100
13	M20	X	-5.8489	-5.8489	0	%100
14	M20	Z	-3.3769	-3.3769	0	%100
15	M25	X	-10.4465	-10.4465	0	%100
16	M25	Z	-6.0313	-6.0313	0	%100
17	M26	X	-10.4465	-10.4465	0	%100
18	M26	Z	-6.0313	-6.0313	0	%100
19	M29	X	-10.4465	-10.4465	0	%100
20	M29	Z	-6.0313	-6.0313	0	%100
21	M32	X	-17.1511	-17.1511	0	%100
22	M32	Z	-9.9022	-9.9022	0	%100
23	M51	X	-17.1511	-17.1511	0	%100
24	M51	Z	-9.9022	-9.9022	0	%100
25	M51A	X	-20.2463	-20.2463	0	%100
26	M51A	Z	-11.6892	-11.6892	0	%100
27	M53A	X	-20.2463	-20.2463	0	%100
28	M53A	Z	-11.6892	-11.6892	0	%100
29	M34A	X	-19.7401	-19.7401	0	%100
30	M34A	Z	-11.397	-11.397	0	%100
31	M35	X	-19.7401	-19.7401	0	%100
32	M35	Z	-11.397	-11.397	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
33	MP2A	X	-12.9659	-12.9659	0	%100
34	MP2A	Z	-7.4859	-7.4859	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	-5.6144	-5.6144	0	%100
2	M21	Z	-9.7244	-9.7244	0	%100
3	M24	X	-5.6144	-5.6144	0	%100
4	M24	Z	-9.7244	-9.7244	0	%100
5	MP4A	X	-7.4859	-7.4859	0	%100
6	MP4A	Z	-12.9659	-12.9659	0	%100
7	MP3A	X	-7.4859	-7.4859	0	%100
8	MP3A	Z	-12.9659	-12.9659	0	%100
9	MP1A	X	-7.4859	-7.4859	0	%100
10	MP1A	Z	-12.9659	-12.9659	0	%100
11	M19	X	-10.1306	-10.1306	0	%100
12	M19	Z	-17.5468	-17.5468	0	%100
13	M20	X	-10.1306	-10.1306	0	%100
14	M20	Z	-17.5468	-17.5468	0	%100
15	M25	X	-6.0313	-6.0313	0	%100
16	M25	Z	-10.4465	-10.4465	0	%100
17	M26	X	-6.0313	-6.0313	0	%100
18	M26	Z	-10.4465	-10.4465	0	%100
19	M29	X	-6.0313	-6.0313	0	%100
20	M29	Z	-10.4465	-10.4465	0	%100
21	M32	X	-3.3007	-3.3007	0	%100
22	M32	Z	-5.717	-5.717	0	%100
23	M51	X	-3.3007	-3.3007	0	%100
24	M51	Z	-5.717	-5.717	0	%100
25	M51A	X	-3.8964	-3.8964	0	%100
26	M51A	Z	-6.7488	-6.7488	0	%100
27	M53A	X	-3.8964	-3.8964	0	%100
28	M53A	Z	-6.7488	-6.7488	0	%100
29	M34A	X	-11.397	-11.397	0	%100
30	M34A	Z	-19.7401	-19.7401	0	%100
31	M35	X	-11.397	-11.397	0	%100
32	M35	Z	-19.7401	-19.7401	0	%100
33	MP2A	X	-7.4859	-7.4859	0	%100
34	MP2A	Z	-12.9659	-12.9659	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	0	0	0	%100
2	M21	Z	-5.0022	-5.0022	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	-4.6282	-4.6282	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-5.0022	-5.0022	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-4.6282	-4.6282	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-4.6282	-4.6282	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	-6.3322	-6.3322	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	-6.3322	-6.3322	0	%100



Company : Colliers Engineering & Design
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Member Distributed Loads (BLC 53 : Structure Wi (0 Deg)) (Continued)

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
15	M25	X	0	0	0	%100
16	M25	Z	-3.5081	-3.5081	0	%100
17	M26	X	0	0	0	%100
18	M26	Z	-3.5081	-3.5081	0	%100
19	M29	X	0	0	0	%100
20	M29	Z	-3.5081	-3.5081	0	%100
21	M32	X	0	0	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	0	0	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	0	0	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	0	0	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	0	0	0	%100
30	M34A	Z	-5.6568	-5.6568	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	-5.6568	-5.6568	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-5.0022	-5.0022	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
1	M21	X	1.8758	1.8758	0	%100
2	M21	Z	-3.249	-3.249	0	%100
3	M24	X	1.7356	1.7356	0	%100
4	M24	Z	-3.0061	-3.0061	0	%100
5	MP4A	X	2.5011	2.5011	0	%100
6	MP4A	Z	-4.3321	-4.3321	0	%100
7	MP3A	X	2.3141	2.3141	0	%100
8	MP3A	Z	-4.0081	-4.0081	0	%100
9	MP1A	X	2.3141	2.3141	0	%100
10	MP1A	Z	-4.0081	-4.0081	0	%100
11	M19	X	2.3746	2.3746	0	%100
12	M19	Z	-4.1129	-4.1129	0	%100
13	M20	X	2.3746	2.3746	0	%100
14	M20	Z	-4.1129	-4.1129	0	%100
15	M25	X	1.754	1.754	0	%100
16	M25	Z	-3.0381	-3.0381	0	%100
17	M26	X	1.754	1.754	0	%100
18	M26	Z	-3.0381	-3.0381	0	%100
19	M29	X	1.754	1.754	0	%100
20	M29	Z	-3.0381	-3.0381	0	%100
21	M32	X	.7727	.7727	0	%100
22	M32	Z	-1.3383	-1.3383	0	%100
23	M51	X	.7727	.7727	0	%100
24	M51	Z	-1.3383	-1.3383	0	%100
25	M51A	X	.8746	.8746	0	%100
26	M51A	Z	-1.5149	-1.5149	0	%100
27	M53A	X	.8746	.8746	0	%100
28	M53A	Z	-1.5149	-1.5149	0	%100
29	M34A	X	2.8284	2.8284	0	%100
30	M34A	Z	-4.899	-4.899	0	%100
31	M35	X	2.8284	2.8284	0	%100
32	M35	Z	-4.899	-4.899	0	%100
33	MP2A	X	2.5011	2.5011	0	%100



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

	Member Label	Direction	Start Magnitude...	End Magnitude ...	Start Locationft...	End Locationft...
34	MP2A	Z	-4.3321	-4.3321	0	%100

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

	Member Label	Direction	Start Magnitude...	End Magnitude ...	Start Locationft...	End Locationft...
1	M21	X	1.083	1.083	0	%100
2	M21	Z	-6.253	-6.253	0	%100
3	M24	X	1.002	1.002	0	%100
4	M24	Z	-5.785	-5.785	0	%100
5	MP4A	X	4.3321	4.3321	0	%100
6	MP4A	Z	-2.5011	-2.5011	0	%100
7	MP3A	X	4.0081	4.0081	0	%100
8	MP3A	Z	-2.3141	-2.3141	0	%100
9	MP1A	X	4.0081	4.0081	0	%100
10	MP1A	Z	-2.3141	-2.3141	0	%100
11	M19	X	1.371	1.371	0	%100
12	M19	Z	-7.915	-7.915	0	%100
13	M20	X	1.371	1.371	0	%100
14	M20	Z	-7.915	-7.915	0	%100
15	M25	X	3.0381	3.0381	0	%100
16	M25	Z	-1.754	-1.754	0	%100
17	M26	X	3.0381	3.0381	0	%100
18	M26	Z	-1.754	-1.754	0	%100
19	M29	X	3.0381	3.0381	0	%100
20	M29	Z	-1.754	-1.754	0	%100
21	M32	X	4.0149	4.0149	0	%100
22	M32	Z	-2.318	-2.318	0	%100
23	M51	X	4.0149	4.0149	0	%100
24	M51	Z	-2.318	-2.318	0	%100
25	M51A	X	4.5448	4.5448	0	%100
26	M51A	Z	-2.6239	-2.6239	0	%100
27	M53A	X	4.5448	4.5448	0	%100
28	M53A	Z	-2.6239	-2.6239	0	%100
29	M34A	X	4.899	4.899	0	%100
30	M34A	Z	-2.8284	-2.8284	0	%100
31	M35	X	4.899	4.899	0	%100
32	M35	Z	-2.8284	-2.8284	0	%100
33	MP2A	X	4.3321	4.3321	0	%100
34	MP2A	Z	-2.5011	-2.5011	0	%100

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

	Member Label	Direction	Start Magnitude...	End Magnitude ...	Start Locationft...	End Locationft...
1	M21	X	0	0	0	%100
2	M21	Z	0	0	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	0	0	0	%100
5	MP4A	X	5.0022	5.0022	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	4.6282	4.6282	0	%100
8	MP3A	Z	0	0	0	%100
9	MP1A	X	4.6282	4.6282	0	%100
10	MP1A	Z	0	0	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	0	0	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	0	0	0	%100
15	M25	X	3.5081	3.5081	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
16	M25	Z	0	0	0	%100
17	M26	X	3.5081	3.5081	0	%100
18	M26	Z	0	0	0	%100
19	M29	X	3.5081	3.5081	0	%100
20	M29	Z	0	0	0	%100
21	M32	X	6.1814	6.1814	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	6.1814	6.1814	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	6.9972	6.9972	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	6.9972	6.9972	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	5.6568	5.6568	0	%100
30	M34A	Z	0	0	0	%100
31	M35	X	5.6568	5.6568	0	%100
32	M35	Z	0	0	0	%100
33	MP2A	X	5.0022	5.0022	0	%100
34	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	1.083	1.083	0	%100
2	M21	Z	.6253	.6253	0	%100
3	M24	X	1.002	1.002	0	%100
4	M24	Z	.5785	.5785	0	%100
5	MP4A	X	4.3321	4.3321	0	%100
6	MP4A	Z	2.5011	2.5011	0	%100
7	MP3A	X	4.0081	4.0081	0	%100
8	MP3A	Z	2.3141	2.3141	0	%100
9	MP1A	X	4.0081	4.0081	0	%100
10	MP1A	Z	2.3141	2.3141	0	%100
11	M19	X	1.371	1.371	0	%100
12	M19	Z	.7915	.7915	0	%100
13	M20	X	1.371	1.371	0	%100
14	M20	Z	.7915	.7915	0	%100
15	M25	X	3.0381	3.0381	0	%100
16	M25	Z	1.754	1.754	0	%100
17	M26	X	3.0381	3.0381	0	%100
18	M26	Z	1.754	1.754	0	%100
19	M29	X	3.0381	3.0381	0	%100
20	M29	Z	1.754	1.754	0	%100
21	M32	X	4.0149	4.0149	0	%100
22	M32	Z	2.318	2.318	0	%100
23	M51	X	4.0149	4.0149	0	%100
24	M51	Z	2.318	2.318	0	%100
25	M51A	X	4.5448	4.5448	0	%100
26	M51A	Z	2.6239	2.6239	0	%100
27	M53A	X	4.5448	4.5448	0	%100
28	M53A	Z	2.6239	2.6239	0	%100
29	M34A	X	4.899	4.899	0	%100
30	M34A	Z	2.8284	2.8284	0	%100
31	M35	X	4.899	4.899	0	%100
32	M35	Z	2.8284	2.8284	0	%100
33	MP2A	X	4.3321	4.3321	0	%100
34	MP2A	Z	2.5011	2.5011	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	1.8758	1.8758	0	%100
2	M21	Z	3.249	3.249	0	%100
3	M24	X	1.7356	1.7356	0	%100
4	M24	Z	3.0061	3.0061	0	%100
5	MP4A	X	2.5011	2.5011	0	%100
6	MP4A	Z	4.3321	4.3321	0	%100
7	MP3A	X	2.3141	2.3141	0	%100
8	MP3A	Z	4.0081	4.0081	0	%100
9	MP1A	X	2.3141	2.3141	0	%100
10	MP1A	Z	4.0081	4.0081	0	%100
11	M19	X	2.3746	2.3746	0	%100
12	M19	Z	4.1129	4.1129	0	%100
13	M20	X	2.3746	2.3746	0	%100
14	M20	Z	4.1129	4.1129	0	%100
15	M25	X	1.754	1.754	0	%100
16	M25	Z	3.0381	3.0381	0	%100
17	M26	X	1.754	1.754	0	%100
18	M26	Z	3.0381	3.0381	0	%100
19	M29	X	1.754	1.754	0	%100
20	M29	Z	3.0381	3.0381	0	%100
21	M32	X	.7727	.7727	0	%100
22	M32	Z	1.3383	1.3383	0	%100
23	M51	X	.7727	.7727	0	%100
24	M51	Z	1.3383	1.3383	0	%100
25	M51A	X	.8746	.8746	0	%100
26	M51A	Z	1.5149	1.5149	0	%100
27	M53A	X	.8746	.8746	0	%100
28	M53A	Z	1.5149	1.5149	0	%100
29	M34A	X	2.8284	2.8284	0	%100
30	M34A	Z	4.899	4.899	0	%100
31	M35	X	2.8284	2.8284	0	%100
32	M35	Z	4.899	4.899	0	%100
33	MP2A	X	2.5011	2.5011	0	%100
34	MP2A	Z	4.3321	4.3321	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	0	0	0	%100
2	M21	Z	5.0022	5.0022	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	4.6282	4.6282	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	5.0022	5.0022	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	4.6282	4.6282	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	4.6282	4.6282	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	6.3322	6.3322	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	6.3322	6.3322	0	%100
15	M25	X	0	0	0	%100
16	M25	Z	3.5081	3.5081	0	%100
17	M26	X	0	0	0	%100
18	M26	Z	3.5081	3.5081	0	%100
19	M29	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
20	M29	Z	3.5081	3.5081	0	%100
21	M32	X	0	0	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	0	0	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	0	0	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	0	0	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	0	0	0	%100
30	M34A	Z	5.6568	5.6568	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	5.6568	5.6568	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	5.0022	5.0022	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	-1.8758	-1.8758	0	%100
2	M21	Z	3.249	3.249	0	%100
3	M24	X	-1.7356	-1.7356	0	%100
4	M24	Z	3.0061	3.0061	0	%100
5	MP4A	X	-2.5011	-2.5011	0	%100
6	MP4A	Z	4.3321	4.3321	0	%100
7	MP3A	X	-2.3141	-2.3141	0	%100
8	MP3A	Z	4.0081	4.0081	0	%100
9	MP1A	X	-2.3141	-2.3141	0	%100
10	MP1A	Z	4.0081	4.0081	0	%100
11	M19	X	-2.3746	-2.3746	0	%100
12	M19	Z	4.1129	4.1129	0	%100
13	M20	X	-2.3746	-2.3746	0	%100
14	M20	Z	4.1129	4.1129	0	%100
15	M25	X	-1.754	-1.754	0	%100
16	M25	Z	3.0381	3.0381	0	%100
17	M26	X	-1.754	-1.754	0	%100
18	M26	Z	3.0381	3.0381	0	%100
19	M29	X	-1.754	-1.754	0	%100
20	M29	Z	3.0381	3.0381	0	%100
21	M32	X	-.7727	-.7727	0	%100
22	M32	Z	1.3383	1.3383	0	%100
23	M51	X	-.7727	-.7727	0	%100
24	M51	Z	1.3383	1.3383	0	%100
25	M51A	X	-.8746	-.8746	0	%100
26	M51A	Z	1.5149	1.5149	0	%100
27	M53A	X	-.8746	-.8746	0	%100
28	M53A	Z	1.5149	1.5149	0	%100
29	M34A	X	-2.8284	-2.8284	0	%100
30	M34A	Z	4.899	4.899	0	%100
31	M35	X	-2.8284	-2.8284	0	%100
32	M35	Z	4.899	4.899	0	%100
33	MP2A	X	-2.5011	-2.5011	0	%100
34	MP2A	Z	4.3321	4.3321	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	-1.083	-1.083	0	%100



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

	Member Label	Direction	Start Magnitude...	End Magnitude[.]...	Start Location[ft]...	End Location[ft]...
2	M21	Z	6253	6253	0	%100
3	M24	X	-1.002	-1.002	0	%100
4	M24	Z	5785	5785	0	%100
5	MP4A	X	-4.3321	-4.3321	0	%100
6	MP4A	Z	2.5011	2.5011	0	%100
7	MP3A	X	-4.0081	-4.0081	0	%100
8	MP3A	Z	2.3141	2.3141	0	%100
9	MP1A	X	-4.0081	-4.0081	0	%100
10	MP1A	Z	2.3141	2.3141	0	%100
11	M19	X	-1.371	-1.371	0	%100
12	M19	Z	7915	7915	0	%100
13	M20	X	-1.371	-1.371	0	%100
14	M20	Z	7915	7915	0	%100
15	M25	X	-3.0381	-3.0381	0	%100
16	M25	Z	1.754	1.754	0	%100
17	M26	X	-3.0381	-3.0381	0	%100
18	M26	Z	1.754	1.754	0	%100
19	M29	X	-3.0381	-3.0381	0	%100
20	M29	Z	1.754	1.754	0	%100
21	M32	X	-4.0149	-4.0149	0	%100
22	M32	Z	2.318	2.318	0	%100
23	M51	X	-4.0149	-4.0149	0	%100
24	M51	Z	2.318	2.318	0	%100
25	M51A	X	-4.5448	-4.5448	0	%100
26	M51A	Z	2.6239	2.6239	0	%100
27	M53A	X	-4.5448	-4.5448	0	%100
28	M53A	Z	2.6239	2.6239	0	%100
29	M34A	X	-4.899	-4.899	0	%100
30	M34A	Z	2.8284	2.8284	0	%100
31	M35	X	-4.899	-4.899	0	%100
32	M35	Z	2.8284	2.8284	0	%100
33	MP2A	X	-4.3321	-4.3321	0	%100
34	MP2A	Z	2.5011	2.5011	0	%100

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

	Member Label	Direction	Start Magnitude...	End Magnitude[.]...	Start Location[ft]...	End Location[ft]...
1	M21	X	0	0	0	%100
2	M21	Z	0	0	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	0	0	0	%100
5	MP4A	X	-5.0022	-5.0022	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-4.6282	-4.6282	0	%100
8	MP3A	Z	0	0	0	%100
9	MP1A	X	-4.6282	-4.6282	0	%100
10	MP1A	Z	0	0	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	0	0	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	0	0	0	%100
15	M25	X	-3.5081	-3.5081	0	%100
16	M25	Z	0	0	0	%100
17	M26	X	-3.5081	-3.5081	0	%100
18	M26	Z	0	0	0	%100
19	M29	X	-3.5081	-3.5081	0	%100
20	M29	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
21	M32	X	-6.1814	-6.1814	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	-6.1814	-6.1814	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	-6.9972	-6.9972	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	-6.9972	-6.9972	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	-5.6568	-5.6568	0	%100
30	M34A	Z	0	0	0	%100
31	M35	X	-5.6568	-5.6568	0	%100
32	M35	Z	0	0	0	%100
33	MP2A	X	-5.0022	-5.0022	0	%100
34	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	-1.083	-1.083	0	%100
2	M21	Z	-6.253	-6.253	0	%100
3	M24	X	-1.002	-1.002	0	%100
4	M24	Z	-5.785	-5.785	0	%100
5	MP4A	X	-4.3321	-4.3321	0	%100
6	MP4A	Z	-2.5011	-2.5011	0	%100
7	MP3A	X	-4.0081	-4.0081	0	%100
8	MP3A	Z	-2.3141	-2.3141	0	%100
9	MP1A	X	-4.0081	-4.0081	0	%100
10	MP1A	Z	-2.3141	-2.3141	0	%100
11	M19	X	-1.371	-1.371	0	%100
12	M19	Z	-7.915	-7.915	0	%100
13	M20	X	-1.371	-1.371	0	%100
14	M20	Z	-7.915	-7.915	0	%100
15	M25	X	-3.0381	-3.0381	0	%100
16	M25	Z	-1.754	-1.754	0	%100
17	M26	X	-3.0381	-3.0381	0	%100
18	M26	Z	-1.754	-1.754	0	%100
19	M29	X	-3.0381	-3.0381	0	%100
20	M29	Z	-1.754	-1.754	0	%100
21	M32	X	-4.0149	-4.0149	0	%100
22	M32	Z	-2.318	-2.318	0	%100
23	M51	X	-4.0149	-4.0149	0	%100
24	M51	Z	-2.318	-2.318	0	%100
25	M51A	X	-4.5448	-4.5448	0	%100
26	M51A	Z	-2.6239	-2.6239	0	%100
27	M53A	X	-4.5448	-4.5448	0	%100
28	M53A	Z	-2.6239	-2.6239	0	%100
29	M34A	X	-4.899	-4.899	0	%100
30	M34A	Z	-2.8284	-2.8284	0	%100
31	M35	X	-4.899	-4.899	0	%100
32	M35	Z	-2.8284	-2.8284	0	%100
33	MP2A	X	-4.3321	-4.3321	0	%100
34	MP2A	Z	-2.5011	-2.5011	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	-1.8758	-1.8758	0	%100
2	M21	Z	-3.249	-3.249	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft...]	End Location[ft...]
3	M24	X	-1.7356	-1.7356	0	%100
4	M24	Z	-3.0061	-3.0061	0	%100
5	MP4A	X	-2.5011	-2.5011	0	%100
6	MP4A	Z	-4.3321	-4.3321	0	%100
7	MP3A	X	-2.3141	-2.3141	0	%100
8	MP3A	Z	-4.0081	-4.0081	0	%100
9	MP1A	X	-2.3141	-2.3141	0	%100
10	MP1A	Z	-4.0081	-4.0081	0	%100
11	M19	X	-2.3746	-2.3746	0	%100
12	M19	Z	-4.1129	-4.1129	0	%100
13	M20	X	-2.3746	-2.3746	0	%100
14	M20	Z	-4.1129	-4.1129	0	%100
15	M25	X	-1.754	-1.754	0	%100
16	M25	Z	-3.0381	-3.0381	0	%100
17	M26	X	-1.754	-1.754	0	%100
18	M26	Z	-3.0381	-3.0381	0	%100
19	M29	X	-1.754	-1.754	0	%100
20	M29	Z	-3.0381	-3.0381	0	%100
21	M32	X	-0.7727	-0.7727	0	%100
22	M32	Z	-1.3383	-1.3383	0	%100
23	M51	X	-0.7727	-0.7727	0	%100
24	M51	Z	-1.3383	-1.3383	0	%100
25	M51A	X	-0.8746	-0.8746	0	%100
26	M51A	Z	-1.5149	-1.5149	0	%100
27	M53A	X	-0.8746	-0.8746	0	%100
28	M53A	Z	-1.5149	-1.5149	0	%100
29	M34A	X	-2.8284	-2.8284	0	%100
30	M34A	Z	-4.899	-4.899	0	%100
31	M35	X	-2.8284	-2.8284	0	%100
32	M35	Z	-4.899	-4.899	0	%100
33	MP2A	X	-2.5011	-2.5011	0	%100
34	MP2A	Z	-4.3321	-4.3321	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft...]	End Location[ft...]
1	M21	X	0	0	0	%100
2	M21	Z	-0.8624	-0.8624	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	-0.8624	-0.8624	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	-0.8624	-0.8624	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	-0.8624	-0.8624	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	-0.8624	-0.8624	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	-1.5561	-1.5561	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	-1.5561	-1.5561	0	%100
15	M25	X	0	0	0	%100
16	M25	Z	-0.6948	-0.6948	0	%100
17	M26	X	0	0	0	%100
18	M26	Z	-0.6948	-0.6948	0	%100
19	M29	X	0	0	0	%100
20	M29	Z	-0.6948	-0.6948	0	%100
21	M32	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
22	M32	Z	0	0	0	%100
23	M51	X	0	0	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	0	0	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	0	0	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	0	0	0	%100
30	M34A	Z	-1.3129	-1.3129	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	-1.3129	-1.3129	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	-.8624	-.8624	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	.3234	.3234	0	%100
2	M21	Z	-.5601	-.5601	0	%100
3	M24	X	.3234	.3234	0	%100
4	M24	Z	-.5601	-.5601	0	%100
5	MP4A	X	.4312	.4312	0	%100
6	MP4A	Z	-.7468	-.7468	0	%100
7	MP3A	X	.4312	.4312	0	%100
8	MP3A	Z	-.7468	-.7468	0	%100
9	MP1A	X	.4312	.4312	0	%100
10	MP1A	Z	-.7468	-.7468	0	%100
11	M19	X	.5835	.5835	0	%100
12	M19	Z	-1.0107	-1.0107	0	%100
13	M20	X	.5835	.5835	0	%100
14	M20	Z	-1.0107	-1.0107	0	%100
15	M25	X	.3474	.3474	0	%100
16	M25	Z	-.6017	-.6017	0	%100
17	M26	X	.3474	.3474	0	%100
18	M26	Z	-.6017	-.6017	0	%100
19	M29	X	.3474	.3474	0	%100
20	M29	Z	-.6017	-.6017	0	%100
21	M32	X	.1901	.1901	0	%100
22	M32	Z	-.3293	-.3293	0	%100
23	M51	X	.1901	.1901	0	%100
24	M51	Z	-.3293	-.3293	0	%100
25	M51A	X	.2244	.2244	0	%100
26	M51A	Z	-.3887	-.3887	0	%100
27	M53A	X	.2244	.2244	0	%100
28	M53A	Z	-.3887	-.3887	0	%100
29	M34A	X	.6565	.6565	0	%100
30	M34A	Z	-1.137	-1.137	0	%100
31	M35	X	.6565	.6565	0	%100
32	M35	Z	-1.137	-1.137	0	%100
33	MP2A	X	.4312	.4312	0	%100
34	MP2A	Z	-.7468	-.7468	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	.1867	.1867	0	%100
2	M21	Z	-.1078	-.1078	0	%100
3	M24	X	.1867	.1867	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft.	End Locationft.
4	M24	Z	-.1078	-.1078	0	%100
5	MP4A	X	.7468	.7468	0	%100
6	MP4A	Z	-.4312	-.4312	0	%100
7	MP3A	X	.7468	.7468	0	%100
8	MP3A	Z	-.4312	-.4312	0	%100
9	MP1A	X	.7468	.7468	0	%100
10	MP1A	Z	-.4312	-.4312	0	%100
11	M19	X	.3369	.3369	0	%100
12	M19	Z	-.1945	-.1945	0	%100
13	M20	X	.3369	.3369	0	%100
14	M20	Z	-.1945	-.1945	0	%100
15	M25	X	.6017	.6017	0	%100
16	M25	Z	-.3474	-.3474	0	%100
17	M26	X	.6017	.6017	0	%100
18	M26	Z	-.3474	-.3474	0	%100
19	M29	X	.6017	.6017	0	%100
20	M29	Z	-.3474	-.3474	0	%100
21	M32	X	.9879	.9879	0	%100
22	M32	Z	-.5704	-.5704	0	%100
23	M51	X	.9879	.9879	0	%100
24	M51	Z	-.5704	-.5704	0	%100
25	M51A	X	1.1662	1.1662	0	%100
26	M51A	Z	-.6733	-.6733	0	%100
27	M53A	X	1.1662	1.1662	0	%100
28	M53A	Z	-.6733	-.6733	0	%100
29	M34A	X	1.137	1.137	0	%100
30	M34A	Z	-.6565	-.6565	0	%100
31	M35	X	1.137	1.137	0	%100
32	M35	Z	-.6565	-.6565	0	%100
33	MP2A	X	.7468	.7468	0	%100
34	MP2A	Z	-.4312	-.4312	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Locationft.	End Locationft.
1	M21	X	0	0	0	%100
2	M21	Z	0	0	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	0	0	0	%100
5	MP4A	X	.8624	.8624	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	.8624	.8624	0	%100
8	MP3A	Z	0	0	0	%100
9	MP1A	X	.8624	.8624	0	%100
10	MP1A	Z	0	0	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	0	0	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	0	0	0	%100
15	M25	X	.6948	.6948	0	%100
16	M25	Z	0	0	0	%100
17	M26	X	.6948	.6948	0	%100
18	M26	Z	0	0	0	%100
19	M29	X	.6948	.6948	0	%100
20	M29	Z	0	0	0	%100
21	M32	X	1.521	1.521	0	%100
22	M32	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
23	M51	X	1.521	1.521	0	%100
24	M51	Z	0	0	0	%100
25	M51A	X	1.7955	1.7955	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	1.7955	1.7955	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	1.3129	1.3129	0	%100
30	M34A	Z	0	0	0	%100
31	M35	X	1.3129	1.3129	0	%100
32	M35	Z	0	0	0	%100
33	MP2A	X	.8624	.8624	0	%100
34	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	.1867	.1867	0	%100
2	M21	Z	.1078	.1078	0	%100
3	M24	X	.1867	.1867	0	%100
4	M24	Z	.1078	.1078	0	%100
5	MP4A	X	.7468	.7468	0	%100
6	MP4A	Z	.4312	.4312	0	%100
7	MP3A	X	.7468	.7468	0	%100
8	MP3A	Z	.4312	.4312	0	%100
9	MP1A	X	.7468	.7468	0	%100
10	MP1A	Z	.4312	.4312	0	%100
11	M19	X	.3369	.3369	0	%100
12	M19	Z	.1945	.1945	0	%100
13	M20	X	.3369	.3369	0	%100
14	M20	Z	.1945	.1945	0	%100
15	M25	X	.6017	.6017	0	%100
16	M25	Z	.3474	.3474	0	%100
17	M26	X	.6017	.6017	0	%100
18	M26	Z	.3474	.3474	0	%100
19	M29	X	.6017	.6017	0	%100
20	M29	Z	.3474	.3474	0	%100
21	M32	X	.9879	.9879	0	%100
22	M32	Z	.5704	.5704	0	%100
23	M51	X	.9879	.9879	0	%100
24	M51	Z	.5704	.5704	0	%100
25	M51A	X	1.1662	1.1662	0	%100
26	M51A	Z	.6733	.6733	0	%100
27	M53A	X	1.1662	1.1662	0	%100
28	M53A	Z	.6733	.6733	0	%100
29	M34A	X	1.137	1.137	0	%100
30	M34A	Z	.6565	.6565	0	%100
31	M35	X	1.137	1.137	0	%100
32	M35	Z	.6565	.6565	0	%100
33	MP2A	X	.7468	.7468	0	%100
34	MP2A	Z	.4312	.4312	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	.3234	.3234	0	%100
2	M21	Z	.5601	.5601	0	%100
3	M24	X	.3234	.3234	0	%100
4	M24	Z	.5601	.5601	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
5	MP4A	X	.4312	.4312	0	%100
6	MP4A	Z	.7468	.7468	0	%100
7	MP3A	X	.4312	.4312	0	%100
8	MP3A	Z	.7468	.7468	0	%100
9	MP1A	X	.4312	.4312	0	%100
10	MP1A	Z	.7468	.7468	0	%100
11	M19	X	.5835	.5835	0	%100
12	M19	Z	1.0107	1.0107	0	%100
13	M20	X	.5835	.5835	0	%100
14	M20	Z	1.0107	1.0107	0	%100
15	M25	X	.3474	.3474	0	%100
16	M25	Z	.6017	.6017	0	%100
17	M26	X	.3474	.3474	0	%100
18	M26	Z	.6017	.6017	0	%100
19	M29	X	.3474	.3474	0	%100
20	M29	Z	.6017	.6017	0	%100
21	M32	X	.1901	.1901	0	%100
22	M32	Z	.3293	.3293	0	%100
23	M51	X	.1901	.1901	0	%100
24	M51	Z	.3293	.3293	0	%100
25	M51A	X	.2244	.2244	0	%100
26	M51A	Z	.3887	.3887	0	%100
27	M53A	X	.2244	.2244	0	%100
28	M53A	Z	.3887	.3887	0	%100
29	M34A	X	.6565	.6565	0	%100
30	M34A	Z	1.137	1.137	0	%100
31	M35	X	.6565	.6565	0	%100
32	M35	Z	1.137	1.137	0	%100
33	MP2A	X	.4312	.4312	0	%100
34	MP2A	Z	.7468	.7468	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	0	0	0	%100
2	M21	Z	.8624	.8624	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	.8624	.8624	0	%100
5	MP4A	X	0	0	0	%100
6	MP4A	Z	.8624	.8624	0	%100
7	MP3A	X	0	0	0	%100
8	MP3A	Z	.8624	.8624	0	%100
9	MP1A	X	0	0	0	%100
10	MP1A	Z	.8624	.8624	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	1.5561	1.5561	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	1.5561	1.5561	0	%100
15	M25	X	0	0	0	%100
16	M25	Z	.6948	.6948	0	%100
17	M26	X	0	0	0	%100
18	M26	Z	.6948	.6948	0	%100
19	M29	X	0	0	0	%100
20	M29	Z	.6948	.6948	0	%100
21	M32	X	0	0	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	0	0	0	%100



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

	Member Label	Direction	Start Magnitude...	End Magnitude ...	Start Locationft...	End Locationft...
24	M51	Z	0	0	0	%100
25	M51A	X	0	0	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	0	0	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	0	0	0	%100
30	M34A	Z	1.3129	1.3129	0	%100
31	M35	X	0	0	0	%100
32	M35	Z	1.3129	1.3129	0	%100
33	MP2A	X	0	0	0	%100
34	MP2A	Z	.8624	.8624	0	%100

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

	Member Label	Direction	Start Magnitude...	End Magnitude ...	Start Locationft...	End Locationft...
1	M21	X	-.3234	-.3234	0	%100
2	M21	Z	.5601	.5601	0	%100
3	M24	X	-.3234	-.3234	0	%100
4	M24	Z	.5601	.5601	0	%100
5	MP4A	X	-.4312	-.4312	0	%100
6	MP4A	Z	.7468	.7468	0	%100
7	MP3A	X	-.4312	-.4312	0	%100
8	MP3A	Z	.7468	.7468	0	%100
9	MP1A	X	-.4312	-.4312	0	%100
10	MP1A	Z	.7468	.7468	0	%100
11	M19	X	-.5835	-.5835	0	%100
12	M19	Z	1.0107	1.0107	0	%100
13	M20	X	-.5835	-.5835	0	%100
14	M20	Z	1.0107	1.0107	0	%100
15	M25	X	-.3474	-.3474	0	%100
16	M25	Z	.6017	.6017	0	%100
17	M26	X	-.3474	-.3474	0	%100
18	M26	Z	.6017	.6017	0	%100
19	M29	X	-.3474	-.3474	0	%100
20	M29	Z	.6017	.6017	0	%100
21	M32	X	-.1901	-.1901	0	%100
22	M32	Z	.3293	.3293	0	%100
23	M51	X	-.1901	-.1901	0	%100
24	M51	Z	.3293	.3293	0	%100
25	M51A	X	-.2244	-.2244	0	%100
26	M51A	Z	.3887	.3887	0	%100
27	M53A	X	-.2244	-.2244	0	%100
28	M53A	Z	.3887	.3887	0	%100
29	M34A	X	-.6565	-.6565	0	%100
30	M34A	Z	1.137	1.137	0	%100
31	M35	X	-.6565	-.6565	0	%100
32	M35	Z	1.137	1.137	0	%100
33	MP2A	X	-.4312	-.4312	0	%100
34	MP2A	Z	.7468	.7468	0	%100

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

	Member Label	Direction	Start Magnitude...	End Magnitude ...	Start Locationft...	End Locationft...
1	M21	X	-.1867	-.1867	0	%100
2	M21	Z	.1078	.1078	0	%100
3	M24	X	-.1867	-.1867	0	%100
4	M24	Z	.1078	.1078	0	%100
5	MP4A	X	-.7468	-.7468	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
6	MP4A	Z	.4312	.4312	0	%100
7	MP3A	X	-.7468	-.7468	0	%100
8	MP3A	Z	.4312	.4312	0	%100
9	MP1A	X	-.7468	-.7468	0	%100
10	MP1A	Z	.4312	.4312	0	%100
11	M19	X	-.3369	-.3369	0	%100
12	M19	Z	.1945	.1945	0	%100
13	M20	X	-.3369	-.3369	0	%100
14	M20	Z	.1945	.1945	0	%100
15	M25	X	-.6017	-.6017	0	%100
16	M25	Z	.3474	.3474	0	%100
17	M26	X	-.6017	-.6017	0	%100
18	M26	Z	.3474	.3474	0	%100
19	M29	X	-.6017	-.6017	0	%100
20	M29	Z	.3474	.3474	0	%100
21	M32	X	-.9879	-.9879	0	%100
22	M32	Z	.5704	.5704	0	%100
23	M51	X	-.9879	-.9879	0	%100
24	M51	Z	.5704	.5704	0	%100
25	M51A	X	-1.1662	-1.1662	0	%100
26	M51A	Z	.6733	.6733	0	%100
27	M53A	X	-1.1662	-1.1662	0	%100
28	M53A	Z	.6733	.6733	0	%100
29	M34A	X	-1.137	-1.137	0	%100
30	M34A	Z	.6565	.6565	0	%100
31	M35	X	-1.137	-1.137	0	%100
32	M35	Z	.6565	.6565	0	%100
33	MP2A	X	-.7468	-.7468	0	%100
34	MP2A	Z	.4312	.4312	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location(ft)	End Location(ft)
1	M21	X	0	0	0	%100
2	M21	Z	0	0	0	%100
3	M24	X	0	0	0	%100
4	M24	Z	0	0	0	%100
5	MP4A	X	-.8624	-.8624	0	%100
6	MP4A	Z	0	0	0	%100
7	MP3A	X	-.8624	-.8624	0	%100
8	MP3A	Z	0	0	0	%100
9	MP1A	X	-.8624	-.8624	0	%100
10	MP1A	Z	0	0	0	%100
11	M19	X	0	0	0	%100
12	M19	Z	0	0	0	%100
13	M20	X	0	0	0	%100
14	M20	Z	0	0	0	%100
15	M25	X	-.6948	-.6948	0	%100
16	M25	Z	0	0	0	%100
17	M26	X	-.6948	-.6948	0	%100
18	M26	Z	0	0	0	%100
19	M29	X	-.6948	-.6948	0	%100
20	M29	Z	0	0	0	%100
21	M32	X	-1.521	-1.521	0	%100
22	M32	Z	0	0	0	%100
23	M51	X	-1.521	-1.521	0	%100
24	M51	Z	0	0	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
25	M51A	X	-1.7955	-1.7955	0	%100
26	M51A	Z	0	0	0	%100
27	M53A	X	-1.7955	-1.7955	0	%100
28	M53A	Z	0	0	0	%100
29	M34A	X	-1.3129	-1.3129	0	%100
30	M34A	Z	0	0	0	%100
31	M35	X	-1.3129	-1.3129	0	%100
32	M35	Z	0	0	0	%100
33	MP2A	X	-.8624	-.8624	0	%100
34	MP2A	Z	0	0	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	-.1867	-.1867	0	%100
2	M21	Z	-.1078	-.1078	0	%100
3	M24	X	-.1867	-.1867	0	%100
4	M24	Z	-.1078	-.1078	0	%100
5	MP4A	X	-.7468	-.7468	0	%100
6	MP4A	Z	-.4312	-.4312	0	%100
7	MP3A	X	-.7468	-.7468	0	%100
8	MP3A	Z	-.4312	-.4312	0	%100
9	MP1A	X	-.7468	-.7468	0	%100
10	MP1A	Z	-.4312	-.4312	0	%100
11	M19	X	-.3369	-.3369	0	%100
12	M19	Z	-.1945	-.1945	0	%100
13	M20	X	-.3369	-.3369	0	%100
14	M20	Z	-.1945	-.1945	0	%100
15	M25	X	-.6017	-.6017	0	%100
16	M25	Z	-.3474	-.3474	0	%100
17	M26	X	-.6017	-.6017	0	%100
18	M26	Z	-.3474	-.3474	0	%100
19	M29	X	-.6017	-.6017	0	%100
20	M29	Z	-.3474	-.3474	0	%100
21	M32	X	-.9879	-.9879	0	%100
22	M32	Z	-.5704	-.5704	0	%100
23	M51	X	-.9879	-.9879	0	%100
24	M51	Z	-.5704	-.5704	0	%100
25	M51A	X	-1.1662	-1.1662	0	%100
26	M51A	Z	-.6733	-.6733	0	%100
27	M53A	X	-1.1662	-1.1662	0	%100
28	M53A	Z	-.6733	-.6733	0	%100
29	M34A	X	-1.137	-1.137	0	%100
30	M34A	Z	-.6565	-.6565	0	%100
31	M35	X	-1.137	-1.137	0	%100
32	M35	Z	-.6565	-.6565	0	%100
33	MP2A	X	-.7468	-.7468	0	%100
34	MP2A	Z	-.4312	-.4312	0	%100

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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location	End Location
1	M21	X	-.3234	-.3234	0	%100
2	M21	Z	-.5601	-.5601	0	%100
3	M24	X	-.3234	-.3234	0	%100
4	M24	Z	-.5601	-.5601	0	%100
5	MP4A	X	-.4312	-.4312	0	%100
6	MP4A	Z	-.7468	-.7468	0	%100



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

	Member Label	Direction	Start Magnitude	End Magnitude	Start Location[ft]	End Location[ft]
7	MP3A	X	-4312	-4312	0	%100
8	MP3A	Z	-7468	-7468	0	%100
9	MP1A	X	-4312	-4312	0	%100
10	MP1A	Z	-7468	-7468	0	%100
11	M19	X	-5835	-5835	0	%100
12	M19	Z	-1.0107	-1.0107	0	%100
13	M20	X	-5835	-5835	0	%100
14	M20	Z	-1.0107	-1.0107	0	%100
15	M25	X	-3474	-3474	0	%100
16	M25	Z	-6017	-6017	0	%100
17	M26	X	-3474	-3474	0	%100
18	M26	Z	-6017	-6017	0	%100
19	M29	X	-3474	-3474	0	%100
20	M29	Z	-6017	-6017	0	%100
21	M32	X	-1901	-1901	0	%100
22	M32	Z	-3293	-3293	0	%100
23	M51	X	-1901	-1901	0	%100
24	M51	Z	-3293	-3293	0	%100
25	M51A	X	-2244	-2244	0	%100
26	M51A	Z	-3887	-3887	0	%100
27	M53A	X	-2244	-2244	0	%100
28	M53A	Z	-3887	-3887	0	%100
29	M34A	X	-6565	-6565	0	%100
30	M34A	Z	-1.137	-1.137	0	%100
31	M35	X	-6565	-6565	0	%100
32	M35	Z	-1.137	-1.137	0	%100
33	MP2A	X	-4312	-4312	0	%100
34	MP2A	Z	-7468	-7468	0	%100

Member Area Loads

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

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	N83 ...	1151.354	5	286.524	11	13.743	11	0	75	0	75	0	75
2	...	-943.208	11	-1185.3	5	-13.743	5	0	1	0	1	0	1
3	N97 ...	527.871	5	-166.916	5	13.743	11	0	75	0	75	0	75
4	...	-341.801	11	-899.988	22	-13.743	5	0	1	0	1	0	1
5	N100A ...	15.118	5	122.811	5	45.179	11	0	75	0	75	0	75
6	...	-289.821	23	-388.961	11	-45.179	5	0	1	0	1	0	1
7	N104 ...	136.274	14	-9.615	11	45.179	11	0	75	0	75	0	75
8	...	-8.276	8	-219.356	17	-45.179	5	0	1	0	1	0	1
9	N77 ...	2125.203	11	2561.382	4	2873.89	1	0	75	0	75	0	75
10	...	-2541.029	5	-449.392	10	-2860.627	7	0	1	0	1	0	1
11	N79 ...	857.831	11	2146.01	23	2950.856	1	0	75	0	75	0	75
12	...	-1224.168	5	518.361	5	-2919.685	7	0	1	0	1	0	1
13	N81 ...	1590.852	10	1907.317	10	1031.011	7	0	75	0	75	0	75
14	...	-561.857	4	-438.317	4	-1062.187	1	0	1	0	1	0	1
15	N83A ...	442.255	10	1306.332	17	739.997	7	0	75	0	75	0	75
16	...	-928.284	4	94.637	11	-753.257	1	0	1	0	1	0	1
17	Totals: ...	3579.806	10	4631.6	23	4009.302	1						
18	...	-3579.788	4	1634.589	67	-4009.303	7						



Company : Colliers Engineering & Design
 Designer :
 Job Number : Project # 23777139
 Model Name : Antenna Mount Analysis (Alpha/Beta Sector)

July 13, 2023
 4:39 PM
 Checked By: _____

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

Member	Shape	Code Check	Lo...	LC	Shear Check	Lo.....	LC	phi*Pnc...	phi*Pnt [phi*Mn y...	phi*Mn...	Cb	Eqn	
1	M21	PIPE 3.5X	.715	5....	1	.264	1....	7	41417.2..	108045	10.684	10.684	2.578	H1-...
2	M24	PIPE 3.0	.289	13...	12	.183	5....	7	19871.9..	65205	5.749	5.749	3.555	H1-...
3	MP4A	PIPE 3.5X	.607	12...	1	.288	12...	7	23297.2..	108045	10.684	10.684	4.488	H3-6
4	MP3A	PIPE 3.0	.469	12...	6	.158	12...	7	11177.9..	65205	5.749	5.749	2.118	H1-...
5	MP1A	PIPE 3.0	.795	12...	1	.365	12...	1	11177.9..	65205	5.749	5.749	3.686	H3-6
6	M19	L4X4X4	.244	5....	15	.074	2....	z 18	41128.6..	62532	3.138	6.63	2.027	H2-1
7	M20	L4X4X4	.243	5....	18	.081	2....	z 7	41128.6..	62532	3.138	6.715	2.847	H2-1
8	M32	L4X4X4	.880	2....	17	.072	.989	z 5	42395.0..	62532	3.138	6.231	1.351	H2-1
9	M51	L4X4X4	.847	2....	22	.062	2....	z 13	42395.0..	62532	3.138	6.237	1.357	H2-1
10	M51A	L4X4X6	.619	2....	11	.050	.959	y 23	26017.0..	92664	4.398	8.556	1.401	H2-1
11	M53A	L4X4X6	.486	2....	17	.039	.959	z 14	26017.0..	92664	4.398	8.583	1.42	H2-1
12	M34A	L3X3X4	.086	2....	7	.021	0	y 10	21719.8..	46656	1.688	3.199	1.136	H2-1
13	M35	L3X3X4	.081	2....	7	.020	5....	z 10	21719.8..	46656	1.688	3.199	1.136	H2-1
14	MP2A	PIPE 3.5X	.793	12...	6	.125	12...	1	23297.2..	108045	10.684	10.684	2.009	H1-...

Envelope AISI S100-16: LRFD Cold Formed Steel Code Checks

Memb...	Shape	Code Check	Loc...	LC	Shear Check	Loc.....	phi*P...	phi*T...	phi*M...	phi*M...	phi...	phi...	Cb	Eqn
1	M25	1.625...	.168	1.5	8	.025	0	z 7	1053...	17820	.48	.761	264.528	1.2...H1.2..
2	M26	1.625...	.067	1.5	8	.021	0	z 1	1053...	17820	.48	.761	264.528	1.2...H1.2..
3	M29	1.625...	.165	1.5	2	.025	0	z 7	1053...	17820	.479	.761	264.528	1.2...H1.2..

ATTACHMENT 4

Owner's Information

Owner's Data

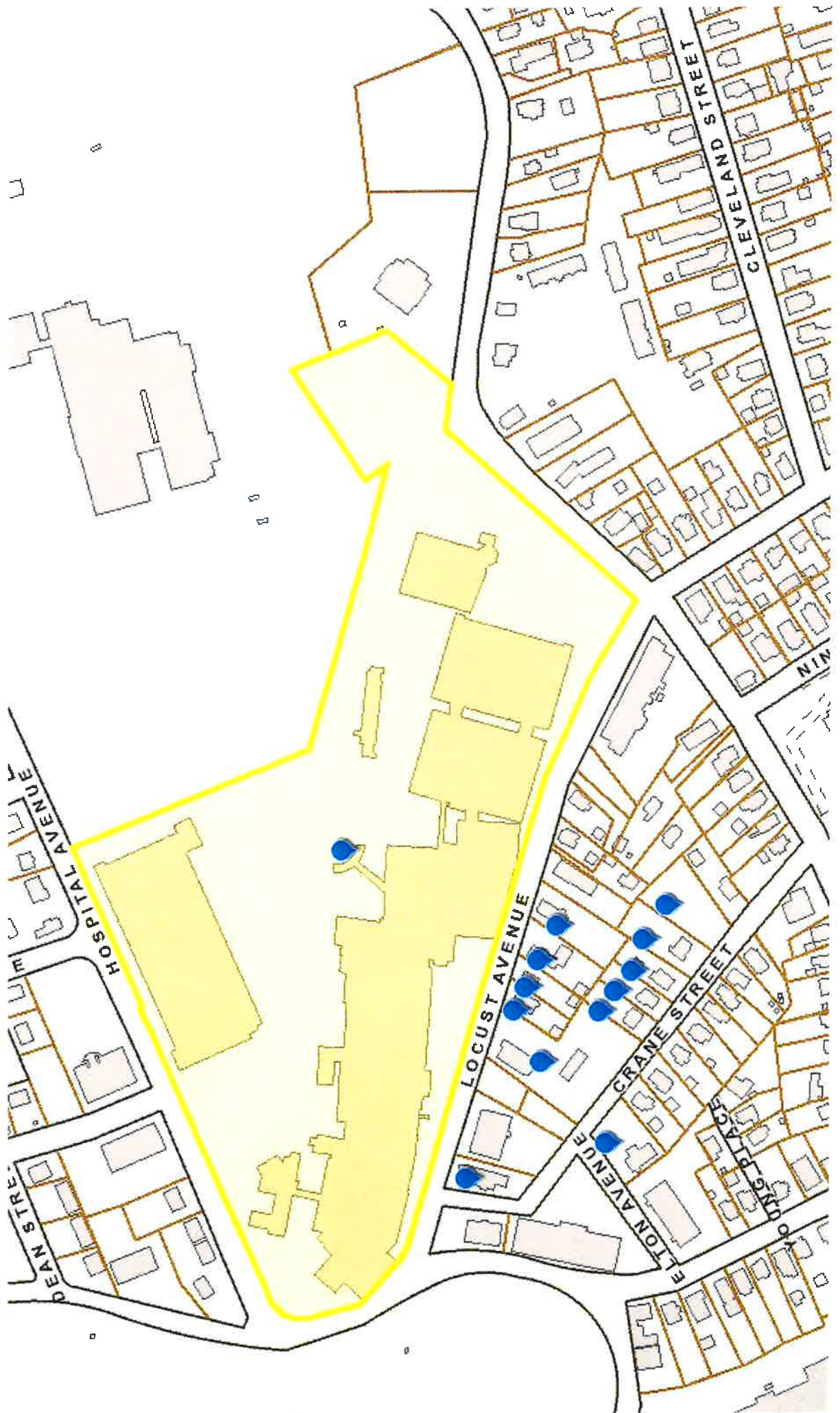
DANBURY HOSPITAL
24 HOSPITAL AVE
DANBURY, CT 06810

Building 1



Sketch Not Available

Category:	Office	Use:	General Hospital	GLA:	295,646
Stories:	6.00	Construction:	Masonry	Year Built:	1970
Heating:	Forced Hot Air	Fuel:	Natural Gas	Cooling Percent:	100
Siding:	Brick/Masonry	Roof Material:	Tar and Gravel	Beds/Units:	0



ATTACHMENT 5

Certificate of Mailing — Firm



Name and Address of Sender

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

TOTAL NO.
 of Pieces Listed by Sender

TOTAL NO.
 of Pieces Received at Post Office™

Affix Stamp Here
 Postmark with Date of Receipt.

neopost
 01/03/2024
US POSTAGE \$003.19
 ZIP 06103
 041L12208937

Postmaster, per (name of receiving employee)

USPS® Tracking Number
 Firm-specific Identifier

Address
 (Name, Street, City, State, and ZIP Code™)

Postage

Fee

Special Handling

Parcel Airlift

1. Roberto Alves, Mayor
 City of Danbury
 155 Deer Hill Avenue
 Danbury, CT 06810
 2. Sharon Calitro, AICP, Director of Planning and Zoning
 City of Danbury
 155 Deer Hill Avenue
 Danbury, CT 06810
 Danbury Hospital
 Attn: Director of Materials Management
 24 Hospital Avenue
 Danbury, CT 06810
 3.
 4.
 5.
 6.

